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1		Summary of April 2002 Sample Results
Various		Figures illustrating Sample Locations and Nearest Properties

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REMARKS:

As requested, I have enclosed a summary of the April 2002 Sample Results that provide the corrected values for total TEQ concentrations based on the World Health Organization (WHO) TEFs. I have also enclosed figures that illustrate the April 2002 sample locations relative to the nearest properties (one copy for EPA and for each of the property owners). The results presented in these figures provide the corrected TEQ concentrations in parts per billion (ppb). Please feel free to contact me at 860.410.2976 if you have any questions.

BY: David N. Scotti, P.G.

TABLE 1
SUMMARY OF CONSTITUENTS DETECTED IN SOIL AND SEDIMENT
DIOXIN DELINEATION SAMPLING - FIRST COMPONENT OF ALLENDALE POND INVESTIGATION
CENTREDALE MANOR RESTORATION PROJECT SUPERFUND SITE
NORTH PROVIDENCE, RHODE ISLAND

	Location ID	AP-DEL-20		AP-DEL-20		AP-DEL-19		AP-DEL-19		AP-DEL-18		
	Sample ID	2102205		2102206		2102207		2102208		2102209		
	Sample Date	4/10/02		4/10/02		4/10/02		4/10/02		4/10/02		
	Sample Time	1025		1027		1045		1047		1110		
	Sample Depth	0.0-1.0'		1.0-2.0'		0.0-1.0'		1.0-2.0'		0.0-1.0'		
	Laboratory	STL		STL		STL		STL		STL		
	Lot Number	G2D130156		G2D130156		G2D130156		G2D130156		G2D130156		
	Lab. Number	#001		#002		#003		#004		#005		
Date Dioxins/Furans Analyzed												
Constituent	TEF	Result	TEQ	Result	TEQ	Result	TEQ	Result	TEQ	Result	TEQ	
2,3,7,8-TCDD	1.000	1.2 J	1.200000	1.8 J	1.8	1.2 J	1.200000	1.1 J	1.100000	230	230.000000	
Total TCDD	-	1.2	-	2.7	-	2.9	-	4.4	-	240	-	
1,2,3,7,8-PeCDD	1.000	<0.24	0	<0.47 UJ	0	<0.37	0	<0.23	0	9.7	9.700000	
Total PeCDD	-	<2.2	-	<1.6	-	<3.2	-	<3.2	-	20	-	
1,2,3,4,7,8-HxCDD	0.100	<0.32	0	<0.21	0	<0.41	0	<0.83	0	20	2.000000	
1,2,3,6,7,8-HxCDD	0.100	<0.79	0	<0.42 UJ	0	<2.4	0	3.6 J	0.360000	54	5.400000	
1,2,3,7,8,9-HxCDD	0.100	<0.64	0	<0.42	0	<1.1	0	<2.0	0	49	4.900000	
Total HxCDD	-	<2.1	-	<2.1	-	11	-	25	-	360	-	
1,2,3,4,6,7,8-HpCDD	0.010	22	0.220000	28	0.280000	25	0.250000	71	0.710000	1600	16.000000	
Total HpCDD	-	47	-	63	-	56	-	240	-	2700	-	
OCDD	0.0001	2400	0.240000	5100 E J	0.510000	240	0.024000	700	0.070000	9600 E J	0.960000	
2,3,7,8-TCDF	0.100	<0.57 CON	0	0.80 J, CON	0.080000	1.4 CON	0.140000	1.0 J, CON	0.100000	6.0 CON	0.600000	
Total TCDF	-	9.1 UJ	-	13 UJ	-	15 UJ	-	23 UJ	-	79	-	
1,2,3,7,8-PeCDF	0.050	<0.43	0	<0.26	0	<0.64	0	<0.75	0	<2.9	0	
2,3,4,7,8-PeCDF	0.500	<0.49	0	<0.34	0	<0.92	0	<1.3	0	7.4	3.700000	
Total PeCDF	-	9.0	-	13	-	17	-	24	-	100	-	
1,2,3,4,7,8-HxCDF	0.100	<1.0	0	<0.39	0	<2.4	0	<2.5	0	16	1.600000	
1,2,3,6,7,8-HxCDF	0.100	<0.62	0	<0.55	0	<1.2	0	<1.6	0	12	1.200000	
2,3,4,6,7,8-HxCDF	0.100	<0.74	0	<0.16	0	<1.3	0	<1.3	0	8.1	0.810000	
1,2,3,7,8,9-HxCDF	0.100	<0.098	0	<0.12	0	<0.45	0	<0.17	0	<0.19	0	
Total HxCDF	-	3.8	-	<3.0	-	16	-	18	-	230	-	
1,2,3,4,6,7,8-HpCDF	0.010	4.7 J	0.047000	<2.5	0	8.0	0.080000	11	0.110000	180	1.800000	
1,2,3,4,7,8,9-HpCDF	0.010	<0.32	0	<0.20	0	<0.63	0	<1.1	0	12	0.120000	
Total HpCDF	-	10	-	<2.5	-	18	-	29	-	420	-	
OCDF	0.0001	9.8	0.000980	<3.8	0	18	0.001800	32	0.003200	340	0.034000	
Total TEQ Concentration	-	-	1.708000	-	2.670000	-	1.695800	-	2.453200	-	278.824000	

TABLE 1 (continued)
SUMMARY OF CONSTITUENTS DETECTED IN SOIL AND SEDIMENT
DIOXIN DELINEATION SAMPLING - FIRST COMPONENT OF ALLENDALE POND INVESTIGATION
CENTREDALE MANOR RESTORATION PROJECT SUPERFUND SITE
NORTH PROVIDENCE, RHODE ISLAND

Location ID		AP-DEL-18		AP-DEL-17		AP-DEL-16		AP-DEL-16		AP-DEL-15	
Sample ID		2102210		2102211		2102212		2102213		2102214	
Sample Date		4/10/02		4/10/02		4/10/02		4/10/02		4/10/02	
Sample Time		1112		1140		1205		1207		1350	
Sample Depth		1.0-2.0'		0.0-1.0'		0.0-1.0'		1.0-2.0'		0.0-1.0'	
Laboratory		STL		STL		STL		STL		STL	
Lot Number		G2D130156		G2D130156		G2D130156		G2D130156		G2D130156	
Lab. Number		#006		#007		#008		#009		#010	
Constituent											
Date Dioxins/Furans Analyz	TEF	Result	TEQ	Result	TEQ	Result	TEQ	Result	TEQ	Result	TEQ
2,3,7,8-TCDD	1.000	730 E J	730.000000	840 E J	840.000000	2.4	2.400000	<0.39	0	110	110.000000
Total TCDD	-	770	-	920	-	5.1	-	<0.44	-	120	-
1,2,3,7,8-PeCDD	1.000	<1.2	0	7.2 J	7.200000	<0.24	0	<0.83	0	<1.6	0
Total PeCDD	-	18	-	44	-	<1.9	-	<0.83	-	<3.1	-
1,2,3,4,7,8-HxCDD	0.100	30	3.000000	7.9 J	0.790000	<0.28	0	<0.36	0	<2.0	0
1,2,3,6,7,8-HxCDD	0.100	77	7.700000	21	2.100000	<0.39	0	<0.39	0	4.2 J	0.420000
1,2,3,7,8,9-HxCDD	0.100	68	6.800000	16	1.600000	<0.51	0	<0.34	0	5.8 J	0.580000
Total HxCDD	-	510	-	180	-	<1.9	-	<0.82	-	32	-
1,2,3,4,6,7,8-HpCDD	0.010	1900	19.000000	330	3.300000	5.2 J	0.052000	<1.0	0	90	0.900000
Total HpCDD	-	3400	-	610	-	10	-	<1.2	-	210	-
OCDD	0.0001	12000 E J	1.200000	1600	0.160000	35 J	0.003500	14	0.001400	1100	0.110000
2,3,7,8-TCDF	0.100	17 CON J	1.700000	29 CON	2.900000	2.1 CON	0.210000	<0.44 CON	0	2.0 CON	0.200000
Total TCDF	-	380	-	400	-	31 UJ	-	4.4	-	23	-
1,2,3,7,8-PeCDF	0.050	4.9 J	0.240000	13	0.650000	<0.95	0	<0.42	0	<0.90	0
2,3,4,7,8-PeCDF	0.500	7.9 J	3.900000	19	9.500000	<0.94	0	<0.42	0	<1.4	0
Total PeCDF	-	260	-	370	-	9.7	-	<1.2	-	22	-
1,2,3,4,7,8-HxCDF	0.100	16	1.600000	18	1.800000	<1.8	0	<0.73	0	<2.8	0
1,2,3,6,7,8-HxCDF	0.100	13	1.300000	15	1.500000	<0.93	0	<0.34	0	<1.4	0
2,3,4,6,7,8-HxCDF	0.100	4.9 J	0.490000	12	1.200000	<0.48	0	<0.43	0	<1.2	0
1,2,3,7,8,9-HxCDF	0.100	<0.17	0	<0.64	0	<0.12	0	<0.39	0	<0.37	0
Total HxCDF	-	320	-	260	-	<3.0	-	<0.73	-	27	-
1,2,3,4,6,7,8-HpCDF	0.010	130	1.300000	85	0.850000	4.0 J	0.040000	<1.4	0	11	0.110000
1,2,3,4,7,8,9-HpCDF	0.010	7.5 J	0.075000	5.5 J	0.055000	<0.33	0	<0.28	0	<0.61	0
Total HpCDF	-	290	-	150	-	4.0	-	<1.4	0	20	-
OCDF	0.0001	230	0.023000	91	0.009100	<6.6	0	<1.2	0	18	0.0018000
Total TEQ Concentration	-	-	778.328000	-	873.614100	-	2.705500	-	0.014000	-	112.321800

TABLE 1 (continued)
 SUMMARY OF CONSTITUENTS DETECTED IN SOIL AND SEDIMENT
 DIOXIN DELINEATION SAMPLING - FIRST COMPONENT OF ALLENDALE POND INVESTIGATION
 CENTREDALE MANOR RESTORATION PROJECT SUPERFUND SITE
 NORTH PROVIDENCE, RHODE ISLAND

Location ID		AP-DEL-15		AP-DEL-14		AP-DEL-14		AP-DEL-13		AP-DEL-13	
Sample ID		2102215		2102216		2102217		2102218		2102219	
Sample Date		4/10/02		4/10/02		4/10/02		4/10/02		4/10/02	
Sample Time		1353		1405		1407		1445		1446	
Sample Depth		1.0-2.0'		0.0-1.0'		1.0-2.0'		0.0-1.0'		1.0-2.0'	
Laboratory		STL		STL		STL		STL		STL	
Lot Number		G2D130156		G2D130156		G2D130156		G2D130156		G2D130156	
Lab. Number		#011		#012		#013		#014		#015	
Date Dioxins/Furans Analyzed											
Constituent	TEF	Result	TEQ	Result	TEQ	Result	TEQ	Result	TEQ	Result	TEQ
2,3,7,8-TCDD	1.000	3.0	3.000000	42	42.000000	52	52.000000	130	130.000000	2.4	2.400000
Total TCDD	-	3.0	-	650	-	1800	-	140	-	2.4	-
1,2,3,7,8-PeCDD	1.000	<0.33 <i>UJ</i>	0	41	41.000000	73	73.000000	3.7 J	3.700000	<0.24	0
Total PeCDD	-	<0.49	-	490	-	1200	-	19	-	<0.32	-
1,2,3,4,7,8-HxCDD	0.100	<0.14	0	29	2.900000	50	5.000000	3.8 J	0.380000	<0.11	0
1,2,3,6,7,8-HxCDD	0.100	<0.14	0	81	8.100000	130	13.000000	14	1.400000	<0.44	0
1,2,3,7,8,9-HxCDD	0.100	<0.13	0	53	5.300000	86	8.600000	13	1.300000	<0.54	0
Total HxCDD	-	<0.46	-	840	-	1800	-	110	-	<1.7	-
1,2,3,4,6,7,8-HpCDD	0.010	<2.3	0	1200	12.000000	1500	15.000000	230	2.300000	16	0.160000
Total HpCDD	-	<2.3	-	2300	-	2700	-	410	-	29	-
OCDD	0.0001	14 J	0.001400	6100	0.610000	5900	0.590000	1800	0.180000	1500	0.150000
2,3,7,8-TCDF	0.100	<0.38 <i>UJ</i>	0	310 CON	31.000000	400 CON	40.000000	5.9 CON	0.590000	<0.44 <i>UJ</i>	0
Total TCDF	-	<0.51	-	4800	-	8200	-	110	-	<1.9	-
1,2,3,7,8-PeCDF	0.050	<0.13	0	150	7.500000	260	13.000000	3.2 J	0.160000	<0.10	0
2,3,4,7,8-PeCDF	0.500	<0.12	0	190	95.000000	370	180.000000	5.0 J	2.500000	<0.10	0
Total PeCDF	-	<2.3	-	2200	-	4300	-	140	-	<2.8	-
1,2,3,4,7,8-HxCDF	0.100	<0.19	0	150	15.000000	290	29.000000	7.1	0.710000	<0.46	0
1,2,3,6,7,8-HxCDF	0.100	<0.12	0	140	14.000000	270	27.000000	6.9	0.690000	<0.28	0
2,3,4,6,7,8-HxCDF	0.100	<0.053	0	160	16.000000	300	30.000000	5.8 J	0.580000	<0.20	0
1,2,3,7,8,9-HxCDF	0.100	<0.065	0	8.6 J	0.860000	15	1.500000	<0.22	0	<0.13	0
Total HxCDF	-	<0.98	-	1400	-	2600	-	140	-	<1.9	-
1,2,3,4,6,7,8-HpCDF	0.010	<0.89	0	650	6.500000	950	9.500000	97	0.970000	3.4 J	0.034000
1,2,3,4,7,8,9-HpCDF	0.010	<0.17	0	52	0.520000	90	0.900000	3.5 J	0.035000	<0.34	0
Total HpCDF	-	<0.89	-	1100	-	1600	-	180	-	3.4	-
OCDF	0.0001	<0.50	0	340	0.034000	400	0.040000	72	0.007200	<4.6	0
Total TEQ Concentration	-	-	3.001400	-	298.324000	-	498.13000	-	145.502200	-	2.744000

TABLE 1 (continued)
SUMMARY OF CONSTITUENTS DETECTED IN SOIL AND SEDIMENT
DIOXIN DELINEATION SAMPLING - FIRST COMPONENT OF ALLENDALE POND INVESTIGATION
CENTREDALE MANOR RESTORATION PROJECT SUPERFUND SITE
NORTH PROVIDENCE, RHODE ISLAND

Location ID		AP-DEL-12		AP-DEL-12		AP-DEL-11		AP-DEL-11		AP-DEL-10	
Sample ID		2102220		2102221		2102222		2102223		2102224	
Sample Date		4/10/02		4/10/02		4/10/02		4/10/02		4/10/02	
Sample Time		1510		1512		1525		1528		1540	
Sample Depth		0.0-1.0'		1.0-2.0'		0.0-1.0'		1.0-2.0'		0.0-1.0'	
Laboratory		STL		STL		STL		STL		STL	
Lot Number		G2D130156		G2D130156		G2D130156		G2D130156		G2D130156	
Lab. Number		#016		#017		#018		#019		#020	
Date Dioxins/Furans Analyzed											
Constituent	TEF	Result	TEQ	Result	TEQ	Result	TEQ	Result	TEQ	Result	TEQ
2,3,7,8-TCDD	1.000	49	49.000000	47	47.000000	18	18.000000	4.4	4.400000	1.4 J	1.400000
Total TCDD	-	57	-	50	-	19	-	4.4	-	1.4	-
1,2,3,7,8-PeCDD	1.000	<1.3	0	<0.60	0	<1.3	0	<0.67	0	<0.49	0
Total PeCDD	-	6.1	-	<1.7	-	<3.7	-	<2.6	-	<1.1	-
1,2,3,4,7,8-HxCDD	0.100	<0.94	0	<0.58	0	<2.0	0	<0.49	0	<0.65	0
1,2,3,6,7,8-HxCDD	0.100	<2.1	0	<1.8	0	11	1.100000	<2.2	0	<1.8	0
1,2,3,7,8,9-HxCDD	0.100	<2.3	0	<1.6	0	6.2 J	0.620000	<1.4	0	<1.6	0
Total HxCDD	-	15	-	9.4	-	83	-	14	-	11	-
1,2,3,4,6,7,8-HpCDD	0.010	24	0.240000	25	0.250000	170	1.700000	11	0.110000	53	0.530000
Total HpCDD	-	45	-	51	-	570	-	27	-	140	-
OCDD	0.0001	99	0.009900	160	0.016000	1600	0.016000	53	0.005300	520	0.052000
2,3,7,8-TCDF	0.100	1.2 CON	0.12000	1.2 J, CON	0.120000	2.6 CON	0.260000	1.0 J, CON	0.100000	<0.46 CON	0
Total TCDF	-	33 UJ	-	15 UJ	-	29 UJ	-	11 UJ	-	6.6 UJ	-
1,2,3,7,8-PeCDF	0.050	<0.66	0	<0.49	0	<1.4	0	<0.55	0	<0.38	0
2,3,4,7,8-PeCDF	0.500	<0.91	0	<1.0	0	<2.1	0	<0.74	0	<0.41	0
Total PeCDF	-	11	-	13	-	46	-	13	-	5.6	-
1,2,3,4,7,8-HxCDF	0.100	<1.8	0	<1.7	0	6.0 J	0.600000	<1.8	0	<1.7	0
1,2,3,6,7,8-HxCDF	0.100	<0.85	0	<0.76	0	<3.1	0	<0.90	0	<1.1	0
2,3,4,6,7,8-HxCDF	0.100	<1.1	0	<1.0	0	<2.0	0	<0.73	0	<0.88	0
1,2,3,7,8,9-HxCDF	0.100	<0.080	0	<0.090	0	<1.2	0	<0.55	0	<0.24	0
Total HxCDF	-	<2.7	-	16	-	110	-	10	-	12	-
1,2,3,4,6,7,8-HpCDF	0.010	3.4 J	0.034000	6.9	0.069000	100	1.000000	4.5 J	0.045000	11	0.110000
1,2,3,4,7,8,9-HpCDF	0.010	<0.32	0	<0.41	0	<2.7	0	<0.53	0	<0.90	0
Total HpCDF	-	3.4	-	14	-	240	-	9.3	-	32	-
OCDF	0.0001	<0.28	0	11 J	0.001100	120	0.012000	<0.45	0	33	0.003300
Total TEQ Concentration	-	-	49.403900	-	47.456100	-	23.308000	-	4.660300	-	2.095300

TABLE 1 (continued)
SUMMARY OF CONSTITUENTS DETECTED IN SOIL AND SEDIMENT
DIOXIN DELINEATION SAMPLING - FIRST COMPONENT OF ALLENDALE POND INVESTIGATION
CENTREDALE MANOR RESTORATION PROJECT SUPERFUND SITE
NORTH PROVIDENCE, RHODE ISLAND

Location ID	AP-DEL-10	AP-DEL-09	AP-DEL-09	AP-DEL-08	AP-DEL-08
Sample ID	2102225	2102226	2102227	2102228	2102229
Sample Date	4/10/02	4/10/02	4/10/02	4/11/02	4/11/02
Sample Time	1545	1605	1607	930	932
Sample Depth	1.0-2.0'	0.0-1.0'	1.0-2.0'	0.0-1.0'	1.0-2.0'
Laboratory	STL	STL	STL	STL	STL
Lot Number	G2D130156	G2D130156	G2D130156	G2D130158	G2D130158
Lab. Number	#021	#022	#023	#001	#002
Date Dioxins/Furans Analyzed					
Constituent	TEF	Result	TEQ	Result	TEQ
2,3,7,8-TCDD	1.000	0.92 J	0.920000	<0.40	0
Total TCDD	-	0.92	-	<0.40	-
1,2,3,7,8-PeCDD	1.000	<0.86	0	<0.62	0
Total PeCDD	-	<0.86	-	<0.62	-
1,2,3,4,7,8-HxCDD	0.100	<0.62	0	<0.44	0
1,2,3,6,7,8-HxCDD	0.100	<1.1	0	<0.47	0
1,2,3,7,8,9-HxCDD	0.100	<0.59	0	<0.41	0
Total HxCDD	-	3.9	-	<0.47	-
1,2,3,4,6,7,8-HpCDD	0.010	32	0.320000	<1.9	0
Total HpCDD	-	56	-	<1.9	-
OCDD	0.0001	270	0.027000	11	0.001100
2,3,7,8-TCDF	0.100	<0.41 CON	0	<0.31	0
Total TCDF	-	<0.41	-	<0.33	-
1,2,3,7,8-PeCDF	0.050	<0.58	0	<0.44	0
2,3,4,7,8-PeCDF	0.500	<0.57	0	<0.44	0
Total PeCDF	-	<2.2	-	<0.61	-
1,2,3,4,7,8-HxCDF	0.100	<0.57	0	<0.42	0
1,2,3,6,7,8-HxCDF	0.100	<0.52	0	<0.39	0
2,3,4,6,7,8-HxCDF	0.100	<0.58	0	<0.43	0
1,2,3,7,8,9-HxCDF	0.100	<0.63	0	<0.45	0
Total HxCDF	-	<2.3	-	<0.45	-
1,2,3,4,6,7,8-HpCDF	0.010	5.2 J	0.052000	<0.53	0
1,2,3,4,7,8,9-HpCDF	0.010	<0.49	0	<0.40	0
Total HpCDF	-	12	-	<0.53	-
OCDF	0.0001	9.3 J	0.000930	<0.67	0
Total TEQ Concentration	-	-	1.319900	-	0.001100

TABLE 1 (continued)
SUMMARY OF CONSTITUENTS DETECTED IN SOIL AND SEDIMENT
DIOXIN DELINEATION SAMPLING - FIRST COMPONENT OF ALLENDALE POND INVESTIGATION
CENTREDALE MANOR RESTORATION PROJECT SUPERFUND SITE
NORTH PROVIDENCE, RHODE ISLAND

Location ID		AP-DEL-08		AP-DEL-07		AP-DEL-07		AP-DEL-06		AP-DEL-06	
Sample ID		2102230		2102231		2102232		2102233		2102234	
Sample Date		4/11/02		4/11/02		4/11/02		4/11/02		4/11/02	
Sample Time		933 (DUP)		1005		1007		1110		1112	
Sample Depth		1.0-2.0'		0.0-1.0'		1.0-2.0'		0.0-1.0'		1.0-2.0'	
Laboratory		STL		STL		STL		STL		STL	
Lot Number		G2D130158		G2D130158		G2D130158		G2D130158		G2D130158	
Lab. Number		#003		#004		#005		#006		#007	
Date Dioxins/Furans Analyzed											
Constituent	TEF	Result	TEQ	Result	TEQ	Result	TEQ	Result	TEQ	Result	TEQ
2,3,7,8-TCDD	1.000	14 J	14.00000	97	97.000000	120	120.000000	0.99 J	0.990000	5.3	5.300000
Total TCDD	-	19	-	120	-	140	-	0.99	-	7.5	-
1,2,3,7,8-PeCDD	1.000	<2.3	0	10	10.000000	3.7 J	3.700000	<0.67	0	<0.89	0
Total PeCDD	-	<3.0	-	64	-	35	-	<0.88	-	<2.4	-
1,2,3,4,7,8-HxCDD	0.100	<1.2	0	6.5 J	0.650000	4.7 J	0.470000	<0.83	0	<0.56	0
1,2,3,6,7,8-HxCDD	0.100	<1.3	0	85	8.500000	18	1.800000	<2.3	0	<1.9	0
1,2,3,7,8,9-HxCDD	0.100	<1.1	0	21	2.100000	11	1.100000	<2.4	0	<2.1	0
Total HxCDD	-	<2.9	-	380	-	150	-	9.3	-	15	-
1,2,3,4,6,7,8-HpCDD	0.010	7.4 J	0.074000	870	8.700000	440	4.400000	45	0.450000	33	0.330000
Total HpCDD	-	15	-	1700	-	840	-	85	-	62	-
OCDD	0.0001	59	0.005900	6500 E J	0.650000	4000	0.400000	340	0.0340	200	0.020000
2,3,7,8-TCDF	0.100	3.3 CON	0.330000	9.9 CON	0.990000	12 CON	1.200000	0.69 J, CON	0.069000	4.6 CON	0.460000
Total TCDF	-	37	-	110	-	210	-	2.4	-	38	-
1,2,3,7,8-PeCDF	0.050	<1.4	0	6.1 J	0.300000	4.7 J	0.240000	<0.40	0	<1.8	0
2,3,4,7,8-PeCDF	0.500	<2.1	0	9.4	4.700000	12	6.000000	<0.52	0	<2.8	0
Total PeCDF	-	22	-	230	-	420	-	7.9	-	27	-
1,2,3,4,7,8-HxCDF	0.100	<3.4	0	14	1.400000	12	1.200000	<0.74	0	4.2 J	0.420000
1,2,3,6,7,8-HxCDF	0.100	<1.8	0	18	1.800000	11	1.100000	<0.57	0	<1.2	0
2,3,4,6,7,8-HxCDF	0.100	<2.0	0	14	1.400000	11	1.100000	<0.76	0	<1.5	0
1,2,3,7,8,9-HxCDF	0.100	<1.0	0	<0.93	0	<0.60	0	<0.37	0	<0.51	0
Total HxCDF	-	17	-	450	-	310	-	5.0	-	19	-
1,2,3,4,6,7,8-HpCDF	0.010	6.3 J	0.063000	270	2.700000	120	1.200000	7.0	0.070000	10	0.100000
1,2,3,4,7,8,9-HpCDF	0.010	<0.84	0	12	0.120000	7.7	0.077000	<0.40	0	<2.3	0
Total HpCDF	-	6.3	-	820	-	370	-	14	-	23	-
OCDF	0.0001	<4.5	0	650	0.065000	260	0.026000	11 J	0.001100	17	0.001700
Total TEQ Concentration	-	-	14.472900	-	141.075000	-	144.013000	-	1.614100	-	6.631700

TABLE 1 (continued)
SUMMARY OF CONSTITUENTS DETECTED IN SOIL AND SEDIMENT
DIOXIN DELINEATION SAMPLING - FIRST COMPONENT OF ALLENDALE POND INVESTIGATION
CENTREDALE MANOR RESTORATION PROJECT SUPERFUND SITE
NORTH PROVIDENCE, RHODE ISLAND

Location ID		AP-DEL-05		AP-DEL-05		AP-DEL-04		AP-DEL-04		AP-DEL-03			
Sample ID		2102235		2102236		2102237		2102238		2102239			
Sample Date		4/11/02		4/11/02		4/11/02		4/11/02		4/11/02			
Sample Time		1135		1137		1250		1252		1310			
Sample Depth		0.0-1.0'		1.0-2.0'		0.0-1.0'		1.0-2.0'		0.0-1.0'			
Laboratory		STL		STL		STL		STL		STL			
Lot Number		G2D130158		G2D130158		G2D130158		G2D130158		G2D130158			
Lab. Number		#008		#009		#010		#011		#012			
Date Dioxins/Furans Analyzed													
Constituent	TEF	Result	TEQ	Result	TEQ	Result	TEQ	Result	TEQ	Result	TEQ		
2,3,7,8-TCDD	1.000	440	440.000000	5.9	5.900000	120	120.000000	1500 E J	1500.000000	14	14.000000		
Total TCDD	-	460	-	60	-	130	-	1500	-	23	-		
1,2,3,7,8-PeCDD	1.000	7.7	7.700000	<2.2	0	<2.4	0	<3.4	0	<0.93	0		
Total PeCDD	-	50	-	28	-	<5.5	-	32	-	9.4	-		
1,2,3,4,7,8-HxCDD	0.100	14	1.400000	<1.5	0	<3.3	0	5.5 J	0.550000	<0.83	0		
1,2,3,6,7,8-HxCDD	0.100	47	4.700000	5.3 J	0.530000	10	1.000000	17	1.700000	11	1.100000		
1,2,3,7,8,9-HxCDD	0.100	34	3.400000	5.0 J	0.500000	8.6	0.860000	13	1.300000	5.8 J	0.580000		
Total HxCDD	-	260	-	51	-	66	-	130	-	65	-		
1,2,3,4,6,7,8-HpCDD	0.010	1200	12.000000	58	0.580000	200	2.000000	390	3.900000	38	0.380000		
Total HpCDD	-	2400	-	120	-	380	-	680	-	74	-		
OCDD	0.0001	8400 E J	0.840000	350	0.035000	1600	0.160000	2600	0.260000	210	0.021000		
2,3,7,8-TCDF	0.100	6.8 CON	0.680000	11 CON	1.100000	5.0 CON	0.500000	19 CON	1.900000	9.0 CON	0.900000		
Total TCDF	-	120	-	220	-	110	-	200	-	71	-		
1,2,3,7,8-PeCDF	0.050	4.6 J	0.230000	5.0 J	0.250000	<2.4	0	4.9 J	0.240000	3.3 J	0.170000		
2,3,4,7,8-PeCDF	0.500	7.6	3.800000	9.5	4.700000	5.9 J	3.000000	10	5.000000	4.9 J	2.500000		
Total PeCDF	-	200	-	360	-	200	-	250	-	76	-		
1,2,3,4,7,8-HxCDF	0.100	13	1.300000	9.4	0.940000	7.6 J	0.760000	11	1.100000	4.8 J	0.480000		
1,2,3,6,7,8-HxCDF	0.100	12	1.200000	8.3	0.830000	6.1 J	0.610000	8.9	0.890000	4.1 J	0.410000		
2,3,4,6,7,8-HxCDF	0.100	9.5	0.950000	8.9	0.890000	6.3 J	0.630000	8.5 J	0.850000	4.4 J	0.440000		
1,2,3,7,8,9-HxCDF	0.100	<0.53	0	<0.85	0	<1.6	0	<1.4	0	<0.33	0		
Total HxCDF	-	290	-	200	-	140	-	200	-	120	-		
1,2,3,4,6,7,8-HpCDF	0.010	180 J	1.800000	37	0.370000	44	0.440000	55	0.550000	160	1.600000		
1,2,3,4,7,8,9-HpCDF	0.010	13	0.130000	3.1 J	0.031000	<2.7	0	<3.9	0	<2.0	0		
Total HpCDF	-	490	-	67	-	97	-	130	-	280	-		
OCDF	0.0001	470 J	0.047000	43	0.004300	77	0.007700	82	0.008200	84	0.008400		
Total TEQ Concentration	-	-	480.177000	-	16.660300	-	129.967700	-	1518.248200	-	22.589400		

TABLE 1 (continued)
SUMMARY OF CONSTITUENTS DETECTED IN SOIL AND SEDIMENT
DIOXIN DELINEATION SAMPLING - FIRST COMPONENT OF ALLENDALE POND INVESTIGATION
CENTREDALE MANOR RESTORATION PROJECT SUPERFUND SITE
NORTH PROVIDENCE, RHODE ISLAND

Location ID		AP-DEL-03		AP-DEL-02		AP-DEL-02		AP-DEL-01		AP-DEL-01	
Sample ID		2102240		2102241		2102242		2102243		2102244	
Sample Date		4/11/02		4/11/02		4/11/02		4/11/02		4/11/02	
Sample Time		1312		1335		1337		1350		1352	
Sample Depth		1.0-2.0'		0.0-1.0'		1.0-2.0'		0.0-1.0'		1.0-2.0'	
Laboratory		STL		STL		STL		STL		STL	
Lot Number		G2D130158		G2D130158		G2D130158		G2D130158		G2D130158	
Lab. Number		#013		#014		#015		#016		#017	
Date Dioxins/Furans Analyzed											
Constituent	TEF	Result	TEQ	Result	TEQ	Result	TEQ	Result	TEQ	Result	TEQ
2,3,7,8-TCDD	1.000	1.7	1.700000	150	150.000000	<0.89	0	49	49.000000	76	76.000000
Total TCDD	-	5.8	-	170	-	<0.89	-	53	-	82	-
1,2,3,7,8-PeCDD	1.000	<0.67	0	<2.0	0	<3.8	0	<2.3	0	<2.1	0
Total PeCDD	-	46	-	27	-	<3.8	-	<2.3	-	<3.5	-
1,2,3,4,7,8-HxCDD	0.100	<0.84	0	<1.0	0	<2.0	0	<1.4	0	<1.1	0
1,2,3,6,7,8-HxCDD	0.100	170	17.000000	<2.8	0	<2.1	0	3.5 J	0.350000	<2.7	0
1,2,3,7,8,9-HxCDD	0.100	55	5.500000	<2.7	0	<1.9	0	<3.0	0	<2.0	0
Total HxCDD	-	1000	-	37	-	<2.1	-	24	-	19	-
1,2,3,4,6,7,8-HpCDD	0.010	310	3.100000	43	0.430000	<1.5	0	61	0.610000	30	0.300000
Total HpCDD	-	510	-	81	-	<1.5	-	220	-	66	-
OCDD	0.0001	76	0.007600	280	0.028000	<5.3	0	570	0.057000	220	0.022000
2,3,7,8-TCDF	0.100	5.5 CON	0.550000	10 CON	1.000000	<1.4	0	2.0 CON	0.200000	4.1 CON J	0.410000
Total TCDF	-	25	-	100	-	<1.4	-	18	-	54	-
1,2,3,7,8-PeCDF	0.050	3.3 J	0.170000	3.7 J	0.180000	<2.3	0	<1.2	0	<1.6	0
2,3,4,7,8-PeCDF	0.500	6.6	3.300000	4.9 J	2.500000	<2.3	0	<1.6	0	2.9	1.400000
Total PeCDF	-	95	-	68	-	<2.3	-	18	-	87	-
1,2,3,4,7,8-HxCDF	0.100	28	2.800000	3.8 J	0.380000	<2.3	0	<2.4	0	3.8 J	0.380000
1,2,3,6,7,8-HxCDF	0.100	10	1.000000	3.3 J	0.330000	<2.1	0	<1.5	0	<2.1	0
2,3,4,6,7,8-HxCDF	0.100	9.7	0.970000	<2.7	0	<2.4	0	<2.0	0	<2.7	0
1,2,3,7,8,9-HxCDF	0.100	<1.5	0	<0.58	0	<2.5	0	<1.4	0	<1.4	0
Total HxCDF	-	1700	-	54	-	<2.5	-	24	-	84	-
1,2,3,4,6,7,8-HpCDF	0.010	4100 E J	41.000000	19	0.190000	<0.83	0	14	0.140000	13	0.130000
1,2,3,4,7,8,9-HpCDF	0.010	14	0.140000	<1.1	0	<0.97	0	<0.98	0	<0.74	0
Total HpCDF	-	7200	-	31	-	<0.97	-	31	-	27	-
OCDF	0.0001	1200	0.120000	15	0.001500	<2.0	0	25	0.002500	22	0.002200
Total TEQ Concentration	-	-	77.357600	-	155.039500	-	0	-	50.359500	-	78.644200

TABLE 1 (continued)
 SUMMARY OF CONSTITUENTS DETECTED IN SOIL AND SEDIMENT
 DIOXIN DELINEATION SAMPLING - FIRST COMPONENT OF ALLENDALE POND INVESTIGATION
 CENTREDALE MANOR RESTORATION PROJECT SUPERFUND SITE
 NORTH PROVIDENCE, RHODE ISLAND

Location ID	AP-DEL-01		
Sample ID	2102245		
Sample Date	4/11/02		
Sample Time	1353 (DUP)		
Sample Depth	1.0-2.0'		
Laboratory	STL		
Lot Number	G2D130158		
Lab. Number	#018		
Date Dioxins/Furans Analyzed			
Constituent	TEF	Result	TEQ
2,3,7,8-TCDD	1.000	56	56.000000
Total TCDD	-	64	-
1,2,3,7,8-PeCDD	1.000	<1.2	0
Total PeCDD	-	<5.1	-
1,2,3,4,7,8-HxCDD	0.100	<0.74	0
1,2,3,6,7,8-HxCDD	0.100	<2.1	0
1,2,3,7,8,9-HxCDD	0.100	<1.7	0
Total HxCDD	-	19	-
1,2,3,4,6,7,8-HpCDD	0.010	32	0.320000
Total HpCDD	-	64	-
OCDD	0.0001	230	0.023000
2,3,7,8-TCDF	0.100	7.2 CON J	0.720000
Total TCDF	-	92	-
1,2,3,7,8-PeCDF	0.050	<2.3	0
2,3,4,7,8-PeCDF	0.500	3.5 J	1.700000
Total PeCDF	-	93	-
1,2,3,4,7,8-HxCDF	0.100	4.0 J	0.40000
1,2,3,6,7,8-HxCDF	0.100	<2.5	0
2,3,4,6,7,8-HxCDF	0.100	<2.4	0
1,2,3,7,8,9-HxCDF	0.100	<1.0	0
Total HxCDF	-	81	-
1,2,3,4,6,7,8-HpCDF	0.010	12	0.120000
1,2,3,4,7,8,9-HpCDF	0.010	<1.0	0
Total HpCDF	-	27	-
OCDF	0.0001	23	0.002300
Total TEQ Concentration	-	-	59.285300

Notes to Table 1

Results have been adjusted for dry weight

pg/g = picograms per gram = parts per trillion (ppt)

TEF = Toxic Equivalency Factor provided by World Health Organization (WHO) (7/23/99).

TEQ = Toxic Equivalents

J = Estimated result; result is less than the reporting limit

CON = Confirmation analysis

E = Estimated result; result concentration exceeds the calibration range

Data Validation Qualifiers presented in Italics:

UJ = The compound was analyzed for, but not detected. The associated numerical value is the estimated sample quantitation limit.

J = The associated numerical value is an estimated quantity.

STL = Severn Trent Laboratories, Inc. - Sacramento

