

US EPA ARCHIVE DOCUMENT

	B	C
1	<b>Source Description</b>	
2		
3	Phase I ID No.	809
4	EPA ID No.	TND003376928
5	Facility Name	Eastman Chemical Company
6	Facility Location	
7	City	Kingsport
8	State	Tennessee
9	Unit ID Name/No.	Rotary Kiln No. 1
10	Other Sister Facilities	Rotary Kiln No. 2
11	Number of Sister Facilities	0
12	Combustor Class	Onsite incinerator
13	Combustor Type	Rotary kiln
14	Combustor Characteristics	with afterburner, 8' diameter
15	Capacity (MMBtu/hr)	
16	Soot Blowing	
17	APCS Detailed Acronym	Q/SC/GS/WESP
18	APCS General Class	WQ, LEWS, HE, WESP
	APCS Characteristics	Quench for gas cooling, rod scrubber for hydrogen chloride absorption, gas subcooling, and two wet electrostatic precipitators. New APCS for new most recent data. Old APCD used with old data.
19		
20		
21	Hazardous Wastes	liq,solid
22	Haz Waste Description	
23	Supplemental Fuel	oil
24		fuel oil
25	Stack Characteristics	
26	Diameter (ft)	10.0
27	Height (ft)	200.0
28	Gas Velocity (ft/sec)	2.6
29	Gas Temperature (°F)	173.0
30		
31	Permitting Status	Spiked and measured Pb and Cr to fully represent all SVM and LVM
32	HWC Burn Status (Date if Terminated)	

	B	C
1	<b>Condition Description</b>	
2		
3	<b>809C10</b>	
4		
5	Report Name/Date	Mini-Trial Burn Report for Rotary Kiln Incinerator No. 1, March 2002
6	Report Prepare	Franklin Engineering Group, Inc
7	Testing Firm	Eastman Chemical Company
8	Testing Dates	Nov 15-16, 2001
9	Cond Dates	Nov-01
10	Condition Descr	Trial burn, max metals, ash, chlorine, min temp
11	Content	PM, HCl/Cl <sub>2</sub> , metals, PCDD/F, DRE, CO/HC
12		
13	<b>809C11</b>	
14		
15	Report Name/Date	Mini-Trial Burn Report for Rotary Kiln Incinerator No. 1, March 2002
16	Report Prepare	Franklin Engineering Group, Inc
17	Testing Firm	Eastman Chemical Company
18	Testing Dates	November 13, 2001
19	Cond Dates	Nov-01
20	Condition Descr	Trial burn, organics testing, min combustion temp, SCC not operated
21	Content	DRE, PCDD/F, HC/CO
22		
23	<b>809C1</b>	
24		
25	Report Name/Date	Metals Trial Burn, Tennessee Eastman's No. 1 Rotary Kiln, Tennessee Eastman Company, August 30, 1991
26	Report Prepare	Tennessee Eastman
27	Testing Firm	Eastman?
28	Cond Descr	Trial burn, LOW METALS FEED
29	Testing Dates	June 13, 1991
30	Cond Dates	Jun-91
31		
32	<b>809C2</b>	
33		
34	Report Name/Date	Metals Trial Burn, Tennessee Eastman's No. 1 Rotary Kiln, Tennessee Eastman Company, August 30, 1991
35	Report Prepare	Tennessee Eastman
36	Testing Firm	Eastman?
37	Cond Descr	Trial burn, HIGH METALS FEED
38	Testing Dates	June 13-14, 1991
39	Cond Dates	Jun-91
40		
41	<b>809C3</b>	
42		
43	Report Name/Date	Trial Burn Report for Tennessee Eastman Company B-248 Incineration Facility, Tennessee Eastman Company, Eastman Road, P.O. Box 511, Kingsport TN 37662, Submitted to Tennessee Division of Solid Waste Management, April 1989
44	Report Prepar	
45	Testing Firm	
46	Testing Dates	19-Jan-89
47	Cond Dates	Jan-89
48	Cond Description	Trial burn, max feedrates, all permit conditions set during testing
49	Content	PM, DRE, CO, HCl
50		
51	<b>809C4</b>	
52		
53	Report Name/Date	Trial Burn Report for Tennessee Eastman Company B-248 Incineration Facility, Tennessee Eastman Company, Eastman Road, P.O. Box 511, Kingsport TN 37662, Submitted to Tennessee Division of Solid Waste Management, April 1989
54	Report Prepar	
55	Testing Firm	
56	Testing Dates	13-Jan-89
57	Cond Dates	Jan-89
58	Cond Description	General trash feed, no permit limits set
59	Content	
60		
61	<b>809C5</b>	
62		

	B	C
63	Report Name/Date	Trial Burn Report for Tennessee Eastman Company B-248 Incineration Facility, Tennessee Eastman Company, Eastman Road, P.O. Box 511, Kingsport TN 37662, Submitted to Tennessee Division of Solid Waste Management, April 1989
64	Report Prepar	
65	Testing Firm	
66	Testing Dates	11-Jan-89
67	Cond Dates	Jan-89
68	Cond Description	Hexachlorobenzene POHC DRE trial burn
69	Content	

	B	C	D	E	F	G	H	I	J	K	L	M	N
1	<b>Stack Gas Emissions 1</b>												
2													
3		Comments	Units	7% O2									
4													
5	<b>809C10</b>					R1		R2		R3		Cond Avg	
6													
7	PM	E1	gr/dscf	y		0.0023		0.0007		0.0004		0.001	
8	CO (RA)	E1	ppmv	y		10.1		10		10		10.0	
9	CO (MHRA)	E1	ppmv	y		12.4		12.4		12.2		12.3	
10	HC (RA)	E1	ppmv	y		0.004		0.011		0.009		0.008	
11	HC (MHRA)	E1	ppmv	y		0.05		0.313		0.73		0.364	
12	HCl	E1	ppmv	y	nd	0.76	nd	0.775	nd	0.745		0.8	
13	Cl2	E1	ppmv	y		1.03		1.07		1.04		1.0	
14	Total Chlorine	E1	ppmv	y		2.83		2.91		2.82		2.9	
15													
16	POHC	Perchloroethylene											
17	POHC Feedrate		lb/hr			559		575		578			
18	Emission Rate	E3	lb/hr		nd	2.30E-04	nd	1.78E-04	nd	1.79E-04			
19	DRE	E3	%		>	99.99996	>	99.99997	>	99.99997			
20													
21	POHC	Monochlorobenzene											
22	POHC Feedrate		lb/hr			72		74		73			
23	Emission Rate	E3	lb/hr		nd	1.86E-04	nd	1.78E-04	nd	1.79E-04			
24	DRE	E3	%		>	99.99974	>	99.99976	>	99.99976			
25													
26	Chromium	E2	ug/dscm	y		12.5		16.6		13		14.0	
27	Lead	E2	ug/dscm	y		53.2		57.5		65.7		58.8	
28													
29	SVM	E2	ug/dscm	y		53.2		57.5		65.7		58.8	Pb only
30	LVM	E2	ug/dscm	y		12.5		16.6		13		14.0	Cd only
31													
32	Sampling Train	PM, HCl/Cl2	E1										
33	Stack Gas Flowrate		dscfm			28200		27600		28500		28100.0	
34	O2		%			11.8		11.7		11.7		11.7	
35	Moisture		%			13.2		11.6		11.94		12.2	
36	Temperature		°F			136		133		131.6		133.5	
37													
38	Sampling Train	Metals	E2										
39	Stack Gas Flowrate		dscfm			27700		29100		28300		28366.7	
40	O2		%			11.7		11.7		11.6		11.7	
41	Moisture		%			12.14		11.58		11.65		11.8	
42	Temperature		°F			132.9		132.3		131.3		132.2	
43													
44	Sampling Train	PCDD/F	E3										
45	Stack Gas Flowrate		dscfm			30100		30400		30400		30300.0	
46	O2		%			11.8		11.7		11.7		11.7	
47	Moisture		%			14		12.6		10.9		12.5	
48	Temperature		°F			132.1		130.5		129.3		130.6	
49													
50													
51	<b>809C11</b>					R1		R2		R3		Cond Avg	
52													
53	CO (RA)	E1	ppmv	y		13.2		13.7		11.4		12.8	
54	CO (MHRA)	E1	ppmv	y		15.4		17.3		14.2		15.6	
55	HC (RA)	E1	ppmv	y		0.022		0.014		0.006		0.0	
56	HC (MHRA)	E1	ppmv	y		0.592		0.129		0.569		0.4	
57													
58	POHC	Perchloroethylene											
59	POHC Feedrate		lb/hr			95.0		96.0		90.4			
60	Emission Rate		lb/hr		nd	1.61E-04	nd	1.55E-04	nd	1.93E-04			
61	DRE		%		>	99.99983	>	99.99984	>	99.99979			
62													
63	POHC	Monochlorobenzene											
64	POHC Feedrate		lb/hr			20.4		20.2		19.9			
65	Emission Rate		lb/hr		nd	1.61E-04	nd	1.55E-04	nd	1.93E-04			
66	DRE		%		>	99.99921	>	99.99923	>	99.99903			

	B	C	D	E	F	G	H	I	J	K	L	M	Y
1	<b>Stack Gas Emissions 2</b>												
2													
3													
4	<b>809C1</b>					R1		R2		R3		Cond Avg	
5													
6	CO (RA)	E1	ppmv	y		1301.3		1219.0		1226.8		1249.0	
7	HC (RA)	E1	ppmv	y		4.8		4.1		4.2		4.4	
8	Antimony	E2	ug/dscm	y		346.4		211.0		192.7		250.0	
9	Arsenic	E2	ug/dscm	y		5.6		4.4		4.4		4.8	
10	Cadmium	E2	ug/dscm	y		107.8		87.1		70.7		88.5	
11	Chromium	E2	ug/dscm	y		115.5		152.0		154.9		140.8	
12	Chromium (Hex)	E1	ug/dscm	y		6.0		3.0		2.2		3.8	
13	Lead	E2	ug/dscm	y		882.9		750.1		695.2		776.0	
14													
15	SVM	E2	ug/dscm	y		990.7		837.1		765.8		864.6	
16	LVM	E2	ug/dscm	y		121.1		156.4		159.3		145.6 (no Be)	
17													
18	Sampling Train	Cr+6	E1										
19	Stack Gas Flowrate		dscfm			26631.0		25042.0		25053.0			
20	O2		%			13.2		12.8		13.0			
21	Moisture		%										
22	Temperature		°F			171.0		176.0		175.0			
23													
24	Sampling Train	Metals	E2										
25	Stack Gas Flowrate		dscfm			26974.0		25280.0		24732.0			
26	O2		%			13.2		12.8		13.0			
27	Moisture		%			21.3		22.6		22.6			
28	Temperature		°F			170.0		174.0		172.0			
29													
30													
31	<b>809C2</b>					R1		R2		R3		Cond Avg	
32													
33	CO (RA)	E2	ppmv	y		1407.4		1233.1		1157.8		1266.1	
34	HC (RA)	E2	ppmv	y		4.6		5.4		2.8		4.3	
35	Antimony	E2	ug/dscm	y		7209.3		6762.1		6347.1		6772.8	
36	Arsenic	E2	ug/dscm	y		286.5		289.8		259.3		278.5	
37	Cadmium	E2	ug/dscm	y		1891.3		1703.5		1730.0		1774.9	
38	Chromium	E2	ug/dscm	y		443.8		475.6		501.2		473.5	
39	Chromium (Hex)	E1	ug/dscm	y	nd	2.3	nd	2.2		15.7		6.7	
40	Lead	E2	ug/dscm	y		21159.8		17703.9		17725.4		18863.1	
41													
42	SVM	E2	ug/dscm	y		23051		19407		19455		20638.0	
43	LVM	E2	ug/dscm	y		730.3		765.4		760.5		752.1 No Be	
44													
45	Sampling Train	Cr+6	E1										
46	Stack Gas Flowrate		dscfm			25717.0		25758.0		25618.0			
47	O2		%			13.4		13.2		13.6			
48	Moisture		%			21.3		21.8		21.1			
49	Temperature		°F			171.0		172.0		170.0			
50													
51	Sampling Train	Metals	E2										
52	Stack Gas Flowrate		dscfm			26263.0		25794.0		26101.0			
53	O2		%			13.4		13.2		13.6			
54	Moisture		%			21.3		21.8		21.1			
55	Temperature		°F			169.0		169.0		169.0			
56													
57													
58													
59	<b>809C3</b>					R1		R2		R3		Cond Avg	
60													
61	PM	E1	gr/dscf	y		0.01		0.009		0.008		0.0090	
62	CO (RA)	E1	ppmv	y		374		364		322		353.3	
63	CO (MHRA)	E1	ppmv	y		436		373		350		386.3	
64	HCl	E1	lb/hr			8.97		8.54		8.39			
65	HCl	E1	ppmv	y		121.5		107.1		118.5		115.7	
66	Total Chlorine	E1	ppmv	y		121.5		107.1		118.5		115.7	
67													
68	POHC DRE	Carbon	Tetrachloride										
69	POHC Feedrate		lb/hr										
70	POHC Emissions		lb/hr										
71	POHC DRE		%			99.9983		99.9981		99.9981			

	B	C	D	E	F	G	H	I	J	K	L	M	Y
72													
73	POHC DRE	1,2-Dichoroethane											
74	POHC Feedrate	lb/hr											
75	POHC Emissions	lb/hr											
76	POHC DRE	%				99.999		99.9995		99.9986			
77													
78	POHC DRE	Toluene											
79	POHC Feedrate	lb/hr											
80	POHC Emissions	lb/hr											
81	POHC DRE	%				99.9996		99.9998		99.9998			
82													
83	Sampling Train	PM, HCE1											
84	Stack Gas Flowrate	dscfm				20,686		21369		20298		20784.3	
85	O2	%				12.2		11.8		12.4		12.1	
86	Moisture	%				23.68		21.31		25.64		23.5	
87	Temperature	°F				184.1		175		181.8		180.3	
88													
89	<b>809C4</b>					R1		R2		R3		Cond Avg	
90													
91	PM	E1	gr/dscf	y		0.019		0.015		0.026		0.0200	
92	HCl	E1	lb/hr			5.46		6.7		5.69			
93	HCl	E1	ppmv	y		75.2		91.8		79.4		82.1	
94	Total Chlorine	E1	ppmv	y		75.2		91.8		79.4		82.1	
95													
96	Sampling Train	PM	E1										
97	Stack Gas Flowrate	dscfm				25584		26463		25988		26011.7	
98	O2	%				14		14.2		14.2		14.1	
99	Moisture	%				20.47		20.42		20.32		20.4	
100	Temperature	°F				160.2		157.3		166.7		161.4	
101													
102	POHC DRE	Carbon Tetrachloride											
103	POHC Feedrate	lb/hr											
104	POHC Emissions	lb/hr											
105	POHC DRE	%				99.9989		99.9988		99.9982			
106													
107	POHC DRE	1,2-Dichoroethane											
108	POHC Feedrate	lb/hr											
109	POHC Emissions	lb/hr											
110	POHC DRE	%				99.9987		99.9985		99.9986			
111													
112	POHC DRE	Toluene											
113	POHC Feedrate	lb/hr											
114	POHC Emissions	lb/hr											
115	POHC DRE	%				99.9928		99.9994		99.9994			
116													
117	<b>809C5</b>					R1		R2		R3		Cond Avg	
118													
119	POHC DRE	Hexachlorobenzene											
120	POHC Feedrate	lb/hr											
121	POHC Emissions	lb/hr											
122	POHC DRE	%				99.9957		99.9976		99.9905			

B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y
1	<b>Feedrate Calculations</b>																						
2																							
3																							
4	809C10	Trial burn		R1	R2	R3	Cond Avg	R1	R2	R3	Cond Avg	R1	R2	R3	Cond Avg	R1	R2	R3	Cond Avg	R1	R2	R3	
5				F1	F1	F1	F1	F2	F2	F2	F2	F2	F2	F2	F2	F2	F2	F2	F2	F2	F2	F2	F2
6	Feedstream Number			Liq HW	Liq HW	Liq HW	Liq HW	Solid HW	Solid HW	Solid HW	Solid HW	Solid HW	Solid HW	Solid HW	Solid HW	Solid HW	Solid HW	Solid HW	Solid HW	Solid HW	Solid HW	Solid HW	
7	Feed Class			Liq HW	Liq HW	Liq HW	Liq HW	Solid HW	Solid HW	Solid HW	Solid HW	Solid HW	Solid HW	Solid HW	Solid HW	Solid HW	Solid HW	Solid HW	Solid HW	Solid HW	Solid HW	Solid HW	
8	Feed Class 2			Liq HW	Liq HW	Liq HW	Liq HW	Solid HW	Solid HW	Solid HW	Solid HW	Solid HW	Solid HW	Solid HW	Solid HW	Solid HW	Solid HW	Solid HW	Solid HW	Solid HW	Solid HW	Solid HW	
9	Feedstream Description			Liq waste kiln	Liq waste kiln	Liq waste kiln	Liq waste kiln	Solid waste kiln	Solid waste kiln	Solid waste kiln	Solid waste kiln	Solid waste kiln	Solid waste kiln	Solid waste kiln	Solid waste kiln	Solid waste kiln	Solid waste kiln	Solid waste kiln	Solid waste kiln	Solid waste kiln	Solid waste kiln	Solid waste kiln	
10	Feed Rate	lb/hr	5818	5944	5963	5908.3	2391	2045	2072	2366	2050.0	2388.7	4126	4178									
11	Thermal Feedrate	MMBtu/hr																					
12	Ash	lb/hr																					
13	Chlorine	lb/hr																					
14	Chromium	lb/hr																					
15	Lead	lb/hr																					
16																							
17	Stack Gas Flowrate	dscfm	28200.0	27600	28500.0	28100.0	28200.0	28200.0	27600	28500.0	28100.0	28200.0	27600	28500.0	28100.0	28200.0	27600	28500.0	28100.0	28200.0	27600	28500.0	
18	Oxygen	%	11.8	11.7	11.7	11.7	11.8	11.8	11.7	11.7	11.7	11.8	11.7	11.7	11.7	11.8	11.7	11.7	11.7	11.8	11.7	11.7	
19																							
20	Estimated Firing Rate	MMBtu/hr																					
21																							
22	<i>Feedrate MTEC Calculations</i>																						
23	Ash	mg/dscm																					
24	Chlorine	ug/dscm																					
25	Chromium	ug/dscm																					
26	Lead	ug/dscm																					
27																							
28	SVM	ug/dscm																					
29	LVM	ug/dscm																					



	B	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW
1	<b>Feedrate Calculations</b>																								
2																									
3																									
4	<b>809C10</b>	R3	Cond Avg	R1	R2	R3	Cond Avg	R1	R2	R3	Cond Avg	R1	R2	R3	Cond Avg	R1	R2	R3	Cond Avg	R1	R2	R3	Cond Avg	R1	R2
5	Feedstream Number	F3	F3	F3	F3	F3	F3	F3	F3	F3	F3	F3	F3	F3	F3	F3	F3	F3	F3	F3	F3	F3	F3	F3	F3
6	Feed Class	Liq HW	Liq HW	Liq HW	Liq HW	Liq HW	Liq HW	Liq HW	Liq HW	Liq HW	Liq HW	Liq HW	Liq HW	Liq HW	Liq HW	Liq HW	Liq HW	Liq HW	Liq HW	Liq HW	Liq HW	Liq HW	Liq HW	Liq HW	Liq HW
7	Feed Class 2	SCC waste	SCC waste	SCC waste	SCC waste	SCC waste	SCC waste	SCC waste	SCC waste	SCC waste	SCC waste	SCC waste	SCC waste	SCC waste	SCC waste	SCC waste	SCC waste	SCC waste	SCC waste	SCC waste	SCC waste	SCC waste	SCC waste	SCC waste	SCC waste
8	Feedstream Description	4198	4198	4198	4198	4198	4198	4198	4198	4198	4198	4198	4198	4198	4198	4198	4198	4198	4198	4198	4198	4198	4198	4198	4198
9	Feed Rate																								
10	Thermal Feedrate																								
11	Ash																								
12	Chlorine																								
13	Chromium																								
14	Lead																								
15																									
16																									
17	Stack Gas Flowrate	28500.0	28100.0	28100.0	28100.0	28100.0	28100.0	28100.0	28100.0	28100.0	28100.0	28100.0	28100.0	28100.0	28100.0	28100.0	28100.0	28100.0	28100.0	28100.0	28100.0	28100.0	28100.0	28100.0	28100.0
18	Oxygen	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7
19																									
20	Estimated Firing Rate																								
21																									
22	<i>Feedrate MTEC Calculation</i>																								
23	Ash																								
24	Chlorine																								
25	Chromium																								
26	Lead																								
27																									
28	SVM																								
29	LVM																								

	B	AX	AY	AZ
1	<b>Feedrate Calculations</b>			
2				
3				
4	<b>809C10</b>	R3		Cond Avg
5				
6	Feedstream Number	F5		F5
7	Feed Class	Total		Total
8	Feed Class 2	Total		Total
9	Feedstream Description	Total		Total
10	Feed Rate			
11	Thermal Feedrate	59.8		62.7
12	Ash	2179		2193
13	Chlorine	519		509.33333
14	Chromium	7		6.9
15	Lead	4.0		3.9
16				
17	Stack Gas Flowrate	28500.00		28100.0
18	Oxygen	11.7		11.7
19				
20	Estimated Firing Rate	84.1		82.7
21				
22	<i>Feedrate MTEC Calculation</i>			
23	Ash	30773.4		31525.0
24	Chlorine	7329692.4		7321809.8
25	Chromium	98859.1		99189.4
26	Lead	56490.9		56063.6
27				
28	SVM	56490.9		56063.6
29	LVM	98859.1		99189.4

	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1	Feedstream 2																								
2																									
3																									
4	809C1																								
5	Feedstream Number																								
6	Feed Class																								
7	Feed Class 2																								
8	Feedstream Description																								
9	Feed Rate																								
10	Heating value																								
11	Ash																								
12	Antimony																								
13	Arsenic																								
14	Cadmium																								
15	Chromium																								
16	Lead																								
17	Stack Gas Flowrate																								
18	Oxygen																								
19	Estimated Firing Rate																								
20	Feedrate MTEC Calculation																								
21	Antimony																								
22	Arsenic																								
23	Cadmium																								
24	Chromium																								
25	Lead																								
26	SVM																								
27	LVM																								
28																									
29																									
30																									
31																									
32																									
33																									
34																									
35																									
36	809C2																								
37	Feedstream Number																								
38	Feed Class																								
39	Feed Class 2																								
40	Feedstream Description																								
41	Feed Rate																								
42	Heating value																								
43	Ash																								
44	Antimony																								
45	Arsenic																								
46	Cadmium																								
47	Chromium																								
48	Lead																								
49	Stack Gas Flowrate																								
50	Oxygen																								
51	Estimated Firing Rate																								
52	Feedrate MTEC Calculation																								
53	Antimony																								
54	Arsenic																								
55	Cadmium																								
56	Chromium																								
57																									
58																									
59																									
60																									

# US EPA ARCHIVE DOCUMENT

B	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW
<b>1</b>	<b>Feedstream 2</b>																						
2																							
3																							
4	<b>809C1</b>	R3		R1	R2	R2	R3	R3	R1	R1	R2	R2	R3	R3	R1	R1	R2	R2	R3	R3			
5				F4	F4	F4	F4	F4	F5	F5	F5	F5	F5	F5	F6	F6	F6	F6	F6	F6			Cond Avg
6	Feedstream Number			Liq HW	Liq HW	Liq HW	Liq HW	Liq HW	Liq non-HW	Liq non-HW	Liq non-HW	Liq non-HW	Liq non-HW	Liq non-HW	Total	Total	Total	Total	Total	Total			Total
7	Feed Class			HW	HW	HW	HW	HW	Non-HW	Non-HW	Non-HW	Non-HW	Non-HW	Non-HW	Total	Total	Total	Total	Total	Total			Total
8	Feed Class 2	Spike		Liquid waste	Liquid waste	Liquid waste	Liquid waste	Liquid waste	River water	River water	River water	River water	River water	River water	Total	Total	Total	Total	Total	Total			Total
9	Feedstream Descriptic																						
10	Feed Rate			4181.4	4416	4416	4428	4428	2962.2	2962.2	3294.6	3294.6	3325.8	3325.8									
11	Heating value																						
12	Ash																						
13	Antimony			1	0.0047	1	0.0047	1	0.0047	1	0.005	1	0.005	1	0.005	1	0.005	1	0.005	1			
14	Arsenic			1	0.0047	1	0.0047	1	0.0047	1	0.005	1	0.005	1	0.005	1	0.005	1	0.005	1			
15	Cadmium			1	0.0233	1	0.0233	1	0.0233	1	0.005	1	0.005	1	0.010	1	0.010	1	0.010	1			
16	Chromium			1	0.0467	1	0.0467	1	0.0467	1	0.010	1	0.010	1	0.010	1	0.010	1	0.010	1			
17	Lead			1	0.0467	1	0.0467	1	0.0467	1	0.010	1	0.010	1	0.010	1	0.010	1	0.010	1			
18																							
19	Stack Gas Flowrate			26631	25042	25042	25053	25053	26631	26631	25042	25042	25053	25053	26631	26631	25042	25042	25053	25053			25575
20	Oxygen			13.2	12.8	12.8	13	13	13.2	13.2	12.8	12.8	13	13	13.2	13.2	12.8	12.8	13	13			13.0
21																							
22	Estimated Firing Rate																						
23																							
24	Feedrate MTEC Calc																						
25	Antimony			25957	100	0.35	100	0.39	100	0.27	100	0.30	100	0.31	25155	25155	25668	25668	25958	25958			25594
26	Arsenic			856	100	0.35	100	0.39	100	0.27	100	0.30	100	0.31	766	766	849	849	856	856			824
27	Cadmium			1622	100	1.76	100	1.93	100	0.27	100	0.30	100	0.31	1470	1470	1535	1535	1624	1624			1543
28	Chromium			29926	100	3.52	100	3.76	100	0.53	100	0.60	100	0.62	29480	29480	29821	29821	29930	29930			29744
29	Lead			19561	100	3.52	100	3.86	100	0.53	100	0.60	100	0.62	19253	19253	19065	19065	19565	19565			19294
30																							
31	SVM			21183	100	5.3	100	5.8	100	0.8	100	0.9	100	0.9	20723	20723	20699	20699	21189	21189			20837
32	LVM			30781	100	3.9	100	4.2	100	0.8	100	0.9	100	0.9	30246	30246	30671	30671	30787	30787			30568 As, Cr only
33																							
34																							
35																							
36	<b>809C2</b>	R3		R1	R2	R2	R3	R3	R1	R1	R2	R2	R3	R3	R1	R1	R2	R2	R3	R3			
37				F4	F4	F4	F4	F4	F5	F5	F5	F5	F5	F5	F6	F6	F6	F6	F6	F6			Cond Avg
38	Feedstream Number			Liq HW	Liq HW	Liq HW	Liq HW	Liq HW	Liq non-HW	Liq non-HW	Liq non-HW	Liq non-HW	Liq non-HW	Liq non-HW	Total	Total	Total	Total	Total	Total			Total
39	Feed Class			HW	HW	HW	HW	HW	Non-HW	Non-HW	Non-HW	Non-HW	Non-HW	Non-HW	Total	Total	Total	Total	Total	Total			Total
40	Feed Class 2	Spike		Liquid waste	Liquid waste	Liquid waste	Liquid waste	Liquid waste	River water	River water	River water	River water	River water	River water	Total	Total	Total	Total	Total	Total			Total
41	Feedstream Descriptic																						
42	Feed Rate			4272	4287	4287	4269	4269	4269	4269	4287	4287	4287	4287									
43	Heating value																						
44	Ash																						
45	Antimony			1	0.0047	1	0.0047	1	0.0047	1	0.0047	1	0.0047	1	0.0047	1	0.0047	1	0.0047	1			
46	Arsenic			1	0.0047	1	0.0047	1	0.0047	1	0.0047	1	0.0047	1	0.0233	1	0.0233	1	0.0233	1			
47	Cadmium			1	0.0233	1	0.0233	1	0.0233	1	0.0233	1	0.0233	1	0.0467	1	0.0467	1	0.0467	1			
48	Chromium			1	0.0467	1	0.0467	1	0.0467	1	0.0467	1	0.0467	1	0.0467	1	0.0467	1	0.0467	1			
49	Lead			1	0.0467	1	0.0467	1	0.0467	1	0.0467	1	0.0467	1	0.0467	1	0.0467	1	0.0467	1			
50																							
51	Stack Gas Flowrate			26263	25794	25794	26101	26101	26263	26263	25794	25794	26101	26101	26263	26263	25794	25794	26101	26101			26053
52	Oxygen			13.4	13.2	13.2	13.6	13.6	13.4	13.4	13.2	13.2	13.6	13.6	13.4	13.4	13.2	13.2	13.6	13.6			13.4
53																							
54	Estimated Firing Rate																						
55																							
56	Feedrate MTEC Calc																						
57	Antimony			890350	100	0.374	100	0.386	100	0.372	100	0.372	100	0.386	941876	941876	959330	959330	890350	890350			930519
58	Arsenic			29041	100	0.374	100	0.386	100	0.372	100	0.372	100	0.386	32233	32233	32186	32186	29042	29042			31154
59	Cadmium			18775	100	1.869	100	1.930	100	1.861	100	1.861	100	1.930	16026	16026	17594	17594	18777	18777			17466
60	Chromium			431218	100	3.739	100	3.861	100	3.722	100	3.722	100	3.861	434915	434915	431469	431469	431222	431222			432535

B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
61	Lead	ug/dscm								184229		208003		202023								184229		208003
62	SVM	ug/dscm								200253		225595		220798								200253		225595
63	LVM	ug/dscm								0		0		0								467145		463650
64										29041				0										
65																								
66																								
67																								
68	<b>809C3</b>																							
69																								
70	Feedstream Description									Cond Avg		R1		Liquid Waste		R2		Cond Avg		R1		R2		R3
71	Feed Class 2																							
72	Feed Rate	lb/hr																						
73	Heating Value	Btu/lb																						
74	Chlorine	lb/hr																						
75	Ash	lb/hr																						
76																								
77	Stack Gas Flowrate	dscfm																						
78	Oxygen	%																						
79																								
80	Thermal Feedrate	MMBtu/hr																						
81	Estimated Firing Rate	MMBtu/hr																						
82																								
83	Feedrate MTEC Calculations																							
84	Chlorine	ug/dscm	y																					
85	Ash	mg/dscm	y																					
86																								
87																								
88	<b>809C4</b>																							
89																								
90	Feedstream Description									Cond Avg		R1		Liquid Waste		R2		Cond Avg		R1		R2		R3
91	Feed Class 2																							
92	Feed Rate	lb/hr																						
93	Heating Value	Btu/lb																						
94	Chlorine	lb/hr																						
95	Ash	lb/hr																						
96																								
97	Stack Gas Flowrate	dscfm																						
98	Oxygen	%																						
99																								
100	Thermal Feedrate	MMBtu/hr																						
101	Estimated Firing Rate	MMBtu/hr																						
102																								
103	Feedrate MTEC Calculations																							
104	Chlorine	ug/dscm	y																					
105	Ash	mg/dscm	y																					

# US EPA ARCHIVE DOCUMENT

B	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW
61	Lead																						
62		202023	100	3.739	100	3.722	100	3.861								184232		208007		202027		198089	
63	SVM	220798	100	5.6	100	5.6	100	5.8								200259		225600		220804		215554	
64	LVM	460259	100	4.1	100	4.1	100	4.2								467149		463654		460263		463689	As, Cr only
65																							
66																							
67																							
68	<b>809C3</b>																						
69	Cond Avg																						
70	Feedstream																						
71	Description																						
72	Feed Class 2																						
73	Feed Rate																						
74	Heating Value																						
75	Chlorine																						
76	Ash																						
77	Stack Gas Flowrate																						
78	Oxygen																						
79																							
80	Thermal Feedrate																						
81	Estimated Firing Rate																						
82																							
83	Feedrate MTEC Calc																						
84	Chlorine																						
85	Ash																						
86																							
87																							
88	<b>809C4</b>																						
89	Cond Avg																						
90	Feedstream																						
91	Description																						
92	Feed Class 2																						
93	Feed Rate																						
94	Heating Value																						
95	Chlorine																						
96	Ash																						
97	Stack Gas Flowrate																						
98	Oxygen																						
99																							
100	Thermal Feedrate																						
101	Estimated Firing Rate																						
102																							
103	Feedrate MTEC Calc																						
104	Chlorine																						
105	Ash																						

	B	C	D	E	F	G	H
1	<b>Process Information</b>						
2							
3	<b>809C10</b>						
4							
5	Kiln Exit Temperature	F		Run 1	Run 2	Run 3	Cond Avg
6	Afterburner Exit Temperature	F					1464
7	Rod Scrubber Recycle pH	pH					3.8
8	Rod Scrubber Liquid/Gas Ratio	gpm/1000 acfm					72
9	WESP Power-to-Gas Ratio	W/1000 acfm					350
10	WESP Liquid/Gas Ratio	gpm/1000 acfm					12
11	WESP Liquid pH	pH					6.3
12	Liquid Blowdown Solids Content	%					5.7

	C	D	E	F	G
1	<b>Process Information 2</b>				
2					
3	<b>809C1</b>		R1	R2	R3
4					
5	Combustion Temperature	F	1825	1799	1799
6	WS Pressure Drop	in H2O	49.8	50.5	50.6
7	WS pH		3.17	3.54	3.21
8					
9	<b>809C2</b>		R1	R2	R3
10					
11	Combustion Temperature	F	1806	1790	1805
12	WS Pressure Drop	in H2O	50.1	50	50.7
13	WS pH		3.29	3.51	3.38



A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1	PCDD/PCDF																
2	N																
3	Facility Name and ID:	Eastman Chemical Company															
4	Condition ID:	809C10															
5	Condition/Test Date:	Trial burn, max feerate, min temp. November 15-16, 2001															
6																	
7		I-TEF															
8		Wght Fact															
9																	
10		Gas Concentration (ng/dscm @ 7% O2)															
11	2,3,7,8-TCDD	1	2.03E-03	2.03E-03	2.03E-03	2.03E-03	2.03E-03	1.59E-03	1.59E-03	1.59E-03	1.59E-03	1.59E-03	1.59E-03	1.95E-03	1.95E-03	1.95E-03	1.95E-03
12	Other TCDD	0	0.022	0.00E+00	2.20E-02	0.00E+00	0.00E+00	0.018	0.00E+00	1.80E-02	0.00E+00	0.00E+00	0.00E+00	1.20E-02	0.00E+00	1.20E-02	0.00E+00
13	1,2,3,7,8-PCDD	0.5	4.48E-03	2.24E-03	2.24E-03	1.12E-03	nd	2.88E-03	1.44E-03	1.44E-03	7.20E-04	7.20E-04	nd	3.04E-03	1.52E-03	1.52E-03	7.60E-04
14	Other PCDD	0	0.038	0.00E+00	3.80E-02	0.00E+00	0.00E+00	0.012	0.00E+00	1.20E-02	0.00E+00	0.00E+00	0.00E+00	1.00E-02	0.00E+00	1.00E-02	0.00E+00
15	1,2,3,4,7,8-HxCDD	0.1	4.48E-03	4.48E-04	2.24E-03	2.24E-04	nd	3.11E-03	3.11E-04	1.56E-03	1.56E-04	1.56E-04	nd	2.66E-03	2.66E-04	1.33E-03	1.33E-04
16	1,2,3,6,7,8-HxCDD	0.1	4.90E-03	4.90E-04	4.90E-03	4.90E-04	nd	3.12E-03	3.12E-04	1.56E-03	1.56E-04	1.56E-04	nd	2.66E-03	2.66E-04	1.33E-03	1.33E-04
17	1,2,3,7,8,9-HxCDD	0.1	5.42E-03	5.42E-04	5.42E-03	5.42E-04	nd	3.06E-03	3.06E-04	1.53E-03	1.53E-04	1.53E-04	nd	2.64E-03	2.64E-04	1.32E-03	1.32E-04
18	Other HxCDD	0	0.051	0.00E+00	5.10E-02	0.00E+00	0.00E+00	0.017	0.00E+00	1.70E-02	0.00E+00	0.00E+00	0.00E+00	2.00E-02	0.00E+00	2.00E-02	0.00E+00
19	1,2,3,4,6,7,8-HpCDD	0.01	0.027	2.70E-04	2.70E-02	2.70E-04	0.00E+00	9.72E-03	9.72E-05	9.72E-03	9.72E-05	9.72E-05	0.00E+00	1.20E-02	1.20E-04	1.20E-02	1.20E-04
20	Other HpCDD	0	0.024	0.00E+00	2.40E-02	0.00E+00	0.00E+00	0.011	0.00E+00	1.10E-02	0.00E+00	0.00E+00	0.00E+00	1.20E-02	0.00E+00	1.20E-02	0.00E+00
21	OCDD	0.001	0.039	3.90E-05	3.90E-02	3.90E-05	0.00E+00	0.017	1.70E-05	1.70E-02	1.70E-05	1.70E-05	0.00E+00	2.20E-02	2.20E-05	2.20E-02	2.20E-05
22	2,3,7,8-TCDF	0.1	6.20E-03	6.20E-04	6.20E-03	6.20E-04	0.00E+00	2.42E-03	2.42E-04	2.42E-03	2.42E-04	2.42E-04	0.00E+00	2.78E-03	2.78E-04	2.78E-03	2.78E-04
23	Other TCDF	0	0.135	0.00E+00	1.35E-01	0.00E+00	0.00E+00	0.06	0.00E+00	6.00E-02	0.00E+00	0.00E+00	0.00E+00	7.10E-02	0.00E+00	7.10E-02	0.00E+00
24	1,2,3,7,8-PCDF	0.05	0.011	5.50E-04	1.10E-02	5.50E-04	0.00E+00	3.46E-03	1.73E-04	3.46E-03	1.73E-04	1.73E-04	0.00E+00	4.66E-03	2.33E-04	4.66E-03	2.33E-04
25	2,3,4,7,8-PCDF	0.5	0.012	6.00E-03	1.20E-02	6.00E-03	0.00E+00	5.56E-03	2.78E-03	5.56E-03	2.78E-03	2.78E-03	0.00E+00	7.35E-03	3.68E-03	7.35E-03	3.68E-03
26	Other PCDF	0	0.13	0.00E+00	1.30E-01	0.00E+00	0.00E+00	0.054	0.00E+00	5.40E-02	0.00E+00	0.00E+00	0.00E+00	5.60E-02	0.00E+00	5.60E-02	0.00E+00
27	1,2,3,4,7,8-HxCDF	0.1	0.018	1.80E-03	1.80E-02	1.80E-03	0.00E+00	0.013	1.30E-03	1.30E-02	1.30E-03	1.30E-03	0.00E+00	1.20E-02	1.20E-03	1.20E-02	1.20E-03
28	1,2,3,6,7,8-HxCDF	0.1	0.015	1.50E-03	1.50E-02	1.50E-03	0.00E+00	9.58E-03	9.58E-04	9.58E-03	9.58E-04	9.58E-04	0.00E+00	9.10E-03	9.10E-04	9.10E-03	9.10E-04
29	2,3,4,6,7,8-HxCDF	0.1	0.016	1.60E-03	1.60E-02	1.60E-03	0.00E+00	0.011	1.10E-03	1.10E-02	1.10E-03	1.10E-03	0.00E+00	1.10E-02	1.10E-03	1.10E-02	1.10E-03
30	1,2,3,7,8,9-HxCDF	0.1	4.86E-03	4.86E-04	4.86E-03	4.86E-04	0.00E+00	2.94E-03	2.94E-04	2.94E-03	2.94E-04	2.94E-04	0.00E+00	2.53E-03	2.53E-04	2.53E-03	2.53E-04
31	Other HxCDF	0	0.088	0.00E+00	8.80E-02	0.00E+00	0.00E+00	0.052	0.00E+00	5.20E-02	0.00E+00	0.00E+00	0.00E+00	4.40E-02	0.00E+00	4.40E-02	0.00E+00
32	1,2,3,4,6,7,8-HpCDF	0.01	0.052	5.20E-04	5.20E-02	5.20E-04	0.00E+00	0.041	4.10E-04	4.10E-02	4.10E-04	4.10E-04	0.00E+00	3.90E-02	3.90E-04	3.90E-02	3.90E-04
33	1,2,3,4,7,8,9-HpCDF	0.01	7.35E-03	7.35E-05	7.35E-03	7.35E-05	0.00E+00	7.34E-03	7.34E-05	7.34E-03	7.34E-05	7.34E-05	0.00E+00	4.58E-03	4.58E-05	4.58E-03	4.58E-05
34	Other HpCDF	0	0.028	0.00E+00	2.80E-02	0.00E+00	0.00E+00	0.03	0.00E+00	3.00E-02	0.00E+00	0.00E+00	0.00E+00	2.40E-02	0.00E+00	2.40E-02	0.00E+00
35	OCDF	0.001	0.026	2.60E-05	2.60E-02	2.60E-05	0.00E+00	0.029	2.90E-05	2.90E-02	2.90E-05	2.90E-05	0.00E+00	3.20E-02	3.20E-05	3.20E-02	3.20E-05
36	Gas sample volume (dscf)																
37	O2 (%)																
38	PCDD/PCDF (ng in sample)																
39	PCDD/PCDF (ng/dscm @ 7% O2)																
40	TEQ Cond Avg	0.013															
41	Total Cond Avg	0.532															
42																	
43																	
44																	

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1	<b>PCDD/PCDF</b>																
2	N																
3	Facility Name and ID:	Eastman Chemical Company															
4	Condition ID:	809C11															
5	Condition/Test Date:	Max feerate, min temp. November 13, 2001															
6																	
7		I-TEF															
8		Wght Fact															
9																	
10	Gas Concentration (ng/dscm @ 7% O2)																
11	2,3,7,8-TCDD	1	9.31E-04	9.31E-04	9.31E-04	9.31E-04	9.31E-04	9.31E-04	1.19E-03	1.19E-03	1.19E-03	1.19E-03	1.19E-03	1.50E-03	1.50E-03	1.50E-03	1.50E-03
12	Other TCDD	0	0.016	0.00E+00	1.60E-02	0.00E+00	0.00E+00	0.00E+00	0.011	0.00E+00	1.10E-02	0.00E+00	0.00E+00	0.017	0.00E+00	1.70E-02	0.00E+00
13	1,2,3,7,8-PCDD	0.5	1.92E-03	9.60E-04	9.60E-04	4.80E-04	4.80E-04	nd	2.51E-03	1.26E-03	1.26E-03	6.28E-04	nd	3.91E-03	1.96E-03	1.96E-03	9.78E-04
14	Other PCDD	0	0.025	0.00E+00	2.50E-02	0.00E+00	0.00E+00	0.00E+00	0.021	0.00E+00	2.10E-02	0.00E+00	0.00E+00	0.027	0.00E+00	2.70E-02	0.00E+00
15	1,2,3,4,7,8-HxCDD	0.1	2.29E-03	2.29E-04	1.15E-03	1.15E-04	1.15E-04	nd	2.98E-03	2.98E-04	1.49E-03	1.49E-04	nd	3.91E-03	3.91E-04	1.96E-03	1.96E-04
16	1,2,3,6,7,8-HxCDD	0.1	3.26E-03	3.26E-04	1.63E-03	1.63E-04	1.63E-04	nd	4.27E-03	4.27E-04	2.14E-03	2.14E-04	nd	3.91E-03	3.91E-04	1.96E-03	1.96E-04
17	1,2,3,7,8,9-HxCDD	0.1	2.25E-03	2.25E-04	1.13E-03	1.13E-04	1.13E-04	nd	2.94E-03	2.94E-04	1.47E-03	1.47E-04	nd	3.91E-03	3.91E-04	1.96E-03	1.96E-04
18	Other HxCDD	0	0.029	0.00E+00	2.90E-02	0.00E+00	0.00E+00	0.00E+00	0.03	0.00E+00	3.00E-02	0.00E+00	0.00E+00	0.048	0.00E+00	4.80E-02	0.00E+00
19	1,2,3,4,6,7,8-HpCDD	0.01	1.20E-04	1.20E-04	1.20E-02	1.20E-04	1.20E-04	0.018	1.80E-04	1.80E-04	1.80E-02	1.80E-04	0.018	1.80E-04	1.80E-02	1.80E-02	1.80E-04
20	Other HpCDD	0	0.012	0.00E+00	1.20E-02	0.00E+00	0.00E+00	0.017	0.00E+00	1.70E-02	0.00E+00	0.00E+00	0.017	0.00E+00	1.70E-02	0.00E+00	0.00E+00
21	OCDD	0.001	0.026	2.60E-05	2.60E-02	2.60E-05	2.60E-05	0.038	3.80E-05	3.80E-05	3.80E-05	3.80E-05	0.03	3.00E-05	3.00E-02	3.00E-05	3.00E-05
22	2,3,7,8-TCDF	0.1	3.52E-03	3.52E-04	3.52E-03	3.52E-04	3.52E-04	2.76E-03	2.76E-04	2.76E-04	2.76E-03	2.76E-04	3.77E-03	3.77E-04	3.77E-03	3.77E-04	3.77E-04
23	Other TCDF	0	0.054	0.00E+00	5.40E-02	0.00E+00	0.00E+00	0.054	0.00E+00	5.40E-02	0.00E+00	0.00E+00	0.075	0.00E+00	7.50E-02	0.00E+00	0.00E+00
24	1,2,3,7,8-PCDF	0.05	3.68E-03	1.84E-04	3.68E-03	1.84E-04	1.84E-04	6.24E-03	3.12E-04	6.24E-03	3.12E-04	3.12E-04	6.77E-03	3.39E-04	6.77E-03	3.39E-04	3.39E-04
25	2,3,4,7,8-PCDF	0.5	6.16E-03	3.08E-03	6.16E-03	3.08E-03	3.08E-03	7.00E-03	3.50E-03	7.00E-03	3.50E-03	3.50E-03	8.14E-03	4.07E-03	8.14E-03	4.07E-03	4.07E-03
26	Other PCDF	0	0.039	0.00E+00	3.90E-02	0.00E+00	0.00E+00	0.058	0.00E+00	5.80E-02	0.00E+00	0.00E+00	0.077	0.00E+00	7.70E-02	0.00E+00	0.00E+00
27	1,2,3,4,7,8-HxCDF	0.1	7.83E-03	7.83E-04	7.83E-03	7.83E-04	7.83E-04	8.60E-03	8.60E-04	8.60E-03	8.60E-04	8.60E-04	9.86E-03	9.86E-04	9.86E-03	9.86E-04	9.86E-04
28	1,2,3,6,7,8-HxCDF	0.1	7.27E-03	7.27E-04	7.27E-03	7.27E-04	7.27E-04	8.60E-03	8.60E-04	8.60E-03	8.60E-04	8.60E-04	9.86E-03	9.86E-04	9.86E-03	9.86E-04	9.86E-04
29	2,3,4,6,7,8-HxCDF	0.1	7.69E-03	7.69E-04	7.69E-03	7.69E-04	7.69E-04	0.012	1.20E-03	1.20E-03	1.20E-02	1.20E-03	0.011	1.10E-03	1.10E-02	1.10E-03	1.10E-03
30	1,2,3,7,8,9-HxCDF	0.1	3.26E-03	3.26E-04	1.63E-03	1.63E-04	1.63E-04	4.27E-03	4.27E-04	4.27E-03	2.14E-03	2.14E-04	nd	3.91E-03	3.91E-04	1.96E-03	1.96E-04
31	Other HxCDF	0	0.039	0.00E+00	3.90E-02	0.00E+00	0.00E+00	0.043	0.00E+00	4.30E-02	0.00E+00	0.00E+00	0.055	0.00E+00	5.50E-02	0.00E+00	0.00E+00
32	1,2,3,4,6,7,8-HpCDF	0.01	0.025	2.50E-04	2.50E-02	2.50E-04	2.50E-04	0.043	4.30E-04	4.30E-04	4.30E-02	4.30E-04	0.033	3.30E-04	3.30E-02	3.30E-04	3.30E-04
33	1,2,3,4,7,8,9-HpCDF	0.01	4.15E-03	4.15E-05	4.15E-03	4.15E-05	4.15E-05	6.86E-03	6.86E-05	6.86E-03	6.86E-05	6.86E-05	4.81E-03	4.81E-05	4.81E-03	4.81E-05	4.81E-05
34	Other HpCDF	0	0.017	0.00E+00	1.70E-02	0.00E+00	0.00E+00	0.029	0.00E+00	2.90E-02	0.00E+00	0.00E+00	0.019	0.00E+00	1.90E-02	0.00E+00	0.00E+00
35	OCDF	0.001	0.019	1.90E-05	1.90E-02	1.90E-05	1.90E-05	0.047	4.70E-05	4.70E-05	4.70E-02	4.70E-05	0.02	2.00E-05	2.00E-02	2.00E-05	2.00E-05
36	Gas sample volume (dscf)																
37	O2 (%)																
38																	
39																	
40	PCDD/PCDF (ng in sample)																
41	PCDD/PCDF (ng/dscm @ 7% O2)								0.009	0.361	0.008	22.9	0.0118	0.472	0.0105	26.1	0.502
42																	
43	TEQ Cond Avg																
44	Total Cond Avg																