

US EPA ARCHIVE DOCUMENT

	B	C
1	Source Description	
2		
3	Phase II ID No.	761
4	EPA ID No.	TXD008079642
5	Facility Name	E.I. duPont de Nemours & Co., Inc.
6	Facility Location	
7	City	Orange
8	State	TX
9	Unit ID Name/No.	ADN North
10	Other Sister Facilities	ADN South
11	Number of Sister Facilities	1
12	Combustor Class	Liquid-fired boiler
13	Combustor Type	Liquid-fired
14	Combustor Characteristics	?
15	Capacity (MMBtu/hr)	600
16	Soot Blowing	
17	APCS Detailed Acronym	None
18	APCS General Class	
19	APCS Characteristics	NA
20	Hazardous Wastes	Liq
21	Haz Waste Description	ADN and NVR pumpable hazardous waste
22	Supplemental Fuel	Natural gas
23		
24	Stack Characteristics	
25	Diameter (ft)	10.4
26	Height (ft)	52
27	Gas Velocity (ft/sec)	33
28	Gas Temperature (°F)	400
29		
30	Permitting Status	Adjusted Tier I for metals (except Cr) and chlorine
	HWC Burn Status (Date if	
31	Terminated)	

	B	C
1	Cond Description	
2		
3	761C1	
4		
5	Report Name/Date	Source Emissions Survey of E.I. Dupont De Nemours & Company, Inc. Sabine River Works
6	Report Prepar	METCO Environmental, Inc.
7	Testing Firm	METCO Environmental, Inc.
8	Testing Dates	June 7-8, 1995
9	Cond Dates	Jun-95
10	Cond Description	CoC; max haz waste feed rate
11	Content	PM, CO
12		
13	761C2	
14		
15	Report Name/Date	Source Emissions Survey of E.I. Dupont De Nemours & Company, Inc. Sabine River Works
16	Report Prepar	METCO Environmental, Inc.
17	Testing Firm	METCO Environmental, Inc.
18	Testing Dates	June 6, 1995
19	Cond Dates	Jun-95
20	Cond Description	CoC; min comb temp
21	Content	CO
22		
23	Report Name/Date	Source Emissions Survey for DuPont ADN South Boiler Stack, DRE Burn, 98-305B, 1998
24	Report Prepar	METCO Env
25	Testing Firm	METCO Env
26		
27	761C3	
28		
29	Report Name/Date	Source Emissions Survey for DuPont ADN South Boiler Stack, DRE Burn, 98-305B, 1998
30	Report Prepar	METCO Env
31	Testing Firm	METCO Env
32	Testing Dates	December 7-9, 1998
33	Cond Dates	Dec-98
34	Cond Description	Trial burn; PM
35	Content	PM
36		
37	761C4	
38		
39	Report Name/Date	Source Emissions Survey for DuPont ADN South Boiler Stack, DRE Burn, 98-305B, 1998
40	Report Prepar	METCO Env
41	Testing Firm	METCO Env
42	Testing Dates	December 7-9, 1998
43	Cond Dates	Dec-98
44	Cond Description	Trial burn; DRE
45	Content	HCl/Cl2, DRE chlorobenzene
46		
47	761C5	
48		
49	Report Name/Date	Source Emissions Survey for DuPont ADN South Boiler Stack, Risk Burn, 98-305, 1998
50	Report Prepar	METCO Env
51	Testing Firm	METCO Env
52	Testing Dates	November 30 - December 3, 1998
53	Cond Dates	Dec-98
54	Cond Description	Risk burn
55	Content	PM, metals, PCDD/PCDF, organics

	B	C	D	E	F	G	H	I	J	K	L	M	N
1	Stack Gas Emissions												
2													
3		Comments	Units	7% O2?									
4													
5													
6	761C1					R1		R2		R3		Cond Avg	
7													
8	PM (total)	E1	gr/dscf	y		0.0064		0.0062		0.0095		0.0074	total
9	PM	E1	gr/dscf	y		0.0041		0.0042		0.0060		0.0048	front half
10	CO (MHRA)	E1	ppmv	y		42.8		28.2		59.5		43.5	
11	CO (RA)	E1	ppmv	y		63.1		50.6		67.6		60.4	
12	**should the CO and MHRA and RA values be reversed?												
13													
14	Sampling Train	PM, CO	E1										
15	Stack Gas Flowrate		dscfm			133469		131916		129214		131533.0	
16	O2		%			5.9		5.9		7.5		6.4	
17	Moisture		%			15.54		15.37		15.41		15.4	
18	Temperature		°F			414		415		415		414.7	
19													
20	761C2					R1		R2		R3		Cond Avg	
21													
22	CO (RA)	E1	ppmv	y		17.9		10.3		10.3		12.8	
23	CO (MHRA)	E1	ppmv	y		66.6		32.5		12.7		37.3	
24													
25	Sampling Train	CO	E1										
26	Stack Gas Flowrate		dscfm			93120		92601		92848		92856.3	
27	O2		%			10.4		10.5		10.6		10.5	
28	Moisture		%			12.55		12.89		12.90		12.78	
29	Temperature		°F			327		326		325		326.0	
30													
31	761C3					R1		R2		R3		Cond Avg	
32													
33	PM	E1	gr/dscf	y		0.0149		0.0115		0.0106		0.0123	
34													
35	Sampling Train	PM	E1										
36	Stack Gas Flowrate		dscfm			101287		102626		102244		102052.3	
37	O2		%			8.5		7		8		7.8	
38	Moisture		%			12.6		12.4		11.96		12.32	
39	Temperature		°F			301		316		325		314.0	
40													
41	761C4					R1		R2		R3		Cond Avg	
42													
43	HCl		ppmv	n		57.16		57.81		57.44			
44	Cl2		ppmv	n		0.09		0.05		0.11			
45													
46	Sampling Train	HCl/Cl2	E1										
47	Stack Gas Flowrate		dscfm			103381		101872		102529		102594.0	
48	O2		%			14.4		14.2		14.4		14.3	
49	Moisture		%			5.3		6.4		5.49		5.73	
50	Temperature		°F			280		281		280		280.3	
51													
52	POHC DRE	Monochlorobenzene											
53	POHC Feedrate		lb/hr			94.99		94.97		94.96			
54	Emissions Rate	E1											
55	DRE	E1	%		>	99.998	>	99.998	>	99.998			
56													
57	HCl	E1	ppmv	y		121.2		119.0		121.8		120.7	
58	Cl2	E1	ppmv	y		0.2		0.1		0.2		0.2	
59	Total Chlorine	E1	ppmv	y		121.6		119.2		122.3		121.1	
60													
61	761C5					R1		R2		R3		Cond Avg	
62													
63	PM	E1	gr/dscf	y		0.0005		0.0007		0.0003		0.0005	
64													
65	Antimony		µg/dscm	n	nd	30.1	nd	20.8	nd	24.8			
66	Arsenic		µg/dscm	n	nd	97	nd	64.6	nd	74			
67	Barium		µg/dscm	n	nd	48.5	nd	49	nd	63.4			

	B	C	D	E	F	G	H	I	J	K	L	M	N
68	Beryllium		µg/dscm	n	nd	1.8	nd	1.3	nd	1.5			
69	Cadmium		µg/dscm	n	nd	1.8	nd	1.3	nd	1.5			
70	Chromium		µg/dscm	n	nd	4.2	nd	3.1	nd	3.3			
71	Lead		µg/dscm	n	nd	48	nd	32.3	nd	41			
72	Mercury		µg/dscm	n	nd	6.8	nd	0.4	nd	4.4			
73	Nickel		µg/dscm	n	nd	12.1	nd	12.9	nd	6.3			
74	Selenium		µg/dscm	n	nd	92	nd	65	nd	74			
75	Silver		µg/dscm	n	nd	3.7	nd	2.6	nd	2.9			
76	Thallium		µg/dscm	n	nd	727	nd	521	nd	581			
77	Zinc		µg/dscm	n		13.6		20.9		12.7			
78	Chromium (Hex)		µg/dscm	n		0.5		0.3	nd	0.14			
79													
80	Sampling Train	PM, metals E1											
81	Stack Gas Flowrate		dscfm			110325		108307		104390		107674.0	
82	O2		%			5.3		6		5.4		5.6	
83	Moisture		%			12.5		12.5		12.60		12.53	
84	Temperature		°F			373		368		374		371.7	
85													
86	Sampling Train	PCDD/PCDE2											
87	Stack Gas Flowrate		dscfm			107443		108041		108541		108008.3	
88	O2		%			6		5.9		5.2		5.7	
89	Moisture		%			11.68		12.15		12.4		12.08	
90	Temperature		°F			367		364		374		368.3	
91													
92	Antimony	E1	µg/dscm	y	nd	26.8	nd	19.4	nd	22.3	100	22.8	
93	Arsenic	E1	µg/dscm	y	nd	86.5	nd	60.3	nd	66.4	100	71.1	
94	Barium	E1	µg/dscm	y	nd	43.2	nd	45.7	nd	56.9	100	48.6	
95	Beryllium	E1	µg/dscm	y	nd	1.6	nd	1.2	nd	1.3	100	1.4	
96	Cadmium	E1	µg/dscm	y	nd	1.6	nd	1.2	nd	1.3	100	1.4	
97	Chromium	E1	µg/dscm	y	nd	3.7	nd	2.9	nd	3.0	100	3.2	
98	Lead	E1	µg/dscm	y	nd	42.8	nd	30.1	nd	36.8	100	36.6	
99	Mercury	E1	µg/dscm	y	nd	6.1	nd	0.4	nd	3.9	100	3.5	
100	Nickel	E1	µg/dscm	y	nd	10.8	nd	12.0	nd	5.7	100	9.5	
101	Selenium	E1	µg/dscm	y	nd	82.0	nd	60.7	nd	66.4	100	69.7	
102	Silver	E1	µg/dscm	y	nd	3.3	nd	2.4	nd	2.6	100	2.8	
103	Thallium	E1	µg/dscm	y	nd	648.3	nd	486.3	nd	521.4	100	552.0	
104	Zinc	E1	µg/dscm	y		12.1		19.5		11.4	100	14.3	
105	Chromium (Hex)	E1	µg/dscm	y		0.4		0.3		0.1	100	0.3	
106													
107	SVM	E1	µg/dscm	y	100	44.4	100	31.4	100	38.1	100	38.0	
108	LVM	E1	µg/dscm	y	100	91.8	100	64.4	100	70.7	100	75.7	
109													
110	Particle Size Distribution												
111	0.5-2.5		% wt			88.9		90.7		88.2			
112	2.5-5		% wt			8.1		6		10.3			
113	5-7.5		% wt			1.2		3		1.5			
114	7.5-10		% wt			0.2		0.6		0			
115	>10		% wt			1		0		0			

	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	AA	AB			
1	Feedstreams																													
2																														
3																														
4																														
5	761C1		R1		R2		R3		Cond Avg		R1		R2		R3		Cond Avg		R1		R2		R3		Cond Avg					
6																														
7	Feedstream Number		F1		F1		F1		F1		F2		F2		F2		F2		F3		F3		F3		F3					
8	Feed Class		Liq HW		Liq HW		Liq HW		Liq HW		Spike		Spike		Spike		Spike		Total		Total		Total		Total					
9	Feed Class 2		HW		HW		HW		HW		Spike		Spike		Spike		Spike		Total		Total		Total		Total					
10	Feedstream Description		ADN waste		ADN waste		ADN waste		ADN waste		Spike		Spike		Spike		Spike		Total		Total		Total		Total					
11	Heat Content	Btu/lb	16069		16069		16069		16069																					
12	Feed Rate	g/hr	3559853		3559853		3559853		3559853		36688		36688		36688		36688													
13	Thermal Feedrate	MMBtu/hr	126		126		126		126										126		126		126		126					
14	Ash	g/hr	nd	1775.238	nd	1779.511	nd	1774.467	nd	1775	5670		3574		7262		5502													
15	Chlorine	g/hr		610.862		637.065		603.319		617.1																				
16	Antimony	g/hr	nd	5.681	nd	5.694	nd	5.678	nd	5.7																				
17	Arsenic	g/hr	nd	0.284	nd	0.284	nd	0.284	nd	0.3																				
18	Barium	g/hr		0.142		0.178		0.142		0.2																				
19	Beryllium	g/hr		0.178		0.178		0.177		0.2																				
20	Cadmium	g/hr	nd	0.071	nd	0.071	nd	0.071	nd	0.1																				
21	Chromium	g/hr	nd	0.071	nd	0.071	nd	0.071	nd	0.1																				
22	Lead	g/hr	nd	5.681	nd	5.694	nd	5.678	nd	5.7																				
23	Mercury	g/hr	nd	0.036	nd	0.036	nd	0.035	nd	0.0																				
24	Silver	g/hr	nd	0.888	nd	0.89	nd	0.923	nd	0.9																				
25	Thallium	g/hr	nd	22.723	nd	22.778	nd	22.713	nd	22.7																				
26																														
27	Stack Gas Flowrate	dscfm		133469		131916		129214		131533	133469		131916		129214		131533		131533		131533		131533		131533					
28	O2	%		5.9		5.9		7.5		6.4	5.9		5.9		7.5		6.4		6.4		6.4		6.4		6.4					
29																														
30	Estimated Firing Rate	MMBtu/hr																	608.3		608.3		608.3		608.3					
31																														
32	<i>Feedrate MTEC Calculations</i>																													
33	Ash	mg/dscm		7.3		7.4		8.4		7.7	23.2		14.8		34.3		23.7		0		30.5		0		22.2		0	42.7	0	31.3
34	Chlorine	ug/dscm		2499.1		2636.9		2851.6		2662.5									0		2499.1		0		2636.9		0	2851.6	0	2662.5
35	Antimony	ug/dscm	100	23.2	100	23.6	100	26.8	100	24.5									100		23.2	100	23.6	100	26.8	100	26.8	100	24.5	
36	Arsenic	ug/dscm	100	1.2	100	1.2	100	1.3	100	1.2									100		1.2	100	1.2	100	1.3	100	1.3	100	1.2	
37	Barium	ug/dscm		0.6		0.7		0.7		0.7									0		0.6	0	0.7	0	0.7	0	0.7	0	0.7	
38	Beryllium	ug/dscm		0.7		0.7		0.8		0.8									0		0.7	0	0.7	0	0.8	0	0.8	0	0.8	
39	Cadmium	ug/dscm	100	0.3	100	0.3	100	0.3	100	0.3									100		0.3	100	0.3	100	0.3	100	0.3	100	0.3	
40	Chromium	ug/dscm	100	0.3	100	0.3	100	0.3	100	0.3									100		0.3	100	0.3	100	0.3	100	0.3	100	0.3	
41	Lead	ug/dscm	100	23.2	100	23.6	100	26.8	100	24.5									100		23.2	100	23.6	100	26.8	100	26.8	100	24.5	
42	Mercury	ug/dscm	100	0.1	100	0.1	100	0.2	100	0.2									100		0.1	100	0.1	100	0.2	100	0.2	100	0.2	
43	Silver	ug/dscm	100	3.6	100	3.7	100	4.4	100	3.9									100		3.6	100	3.7	100	4.4	100	4.4	100	3.9	
44	Thallium	ug/dscm	100	93.0	100	94.3	100	107.4	100	98.2									100		93.0	100	94.3	100	107.4	100	107.4	100	98.2	
45																														
46	SVM	ug/dscm	100	23.5	100	23.9	100	27.2	100	24.9									100		23.5	100	23.9	100	27.2	100	27.2	100	24.9	
47	LVM	ug/dscm	67	2.2	67	2.2	67	2.5	67	2.3									67		2.2	67	2.2	67	2.5	67	2.5	67	2.3	
48																														
49																														
50	761C2		R1		R2		R3		Cond Avg										R1		R2		R3		Cond Avg					
51																														
52	Feedstream Number		F1		F1		F1		F1										F2		F2		F2		F2					
53	Feed Class		Liq HW		Liq HW		Liq HW		Liq HW										Total		Total		Total		Total					
54	Feed Class 2		HW		HW		HW		HW										Total		Total		Total		Total					
55	Feedstream Description		ADN waste		ADN waste		ADN waste		ADN waste										Total		Total		Total		Total					
56	Heat Content	Btu/lb		16000		16000		16000		16000																				
57	Mass Feedrate	g/hr		945907		945907		945907		945907																				
58																														

	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	AA	AB	
59	Stack Gas Flowrate	dscfm																			92856.33	92856	92856.3	92856.3				
60	O2	%																			10.5	10.5	10.5	10.5				
61	Thermal Feedrate	MMBtu/hr			33.3		33.3		33.3		33.3										33.3	33.3	33.3	33.3				
62	Estimated Firing Rate	MMBtu/hr																			309.5	309.5	309.5	309.5				
63																												
64																												
65	761C3				R1		R2		R3		Cond Avg																	
66																												
67	Feedstream Number				F1		F1		F1		F1															F2		
68	Feed Class				Liq HW		Liq HW		Liq HW		Liq HW																Spike	
69	Feed Class 2				HW		HW		HW		HW																Spike	
70	Feedstream Description				ADN waste		ADN waste		ADN waste		ADN waste																Spike	
71	Feed Rate																											
72	Heating Value				14170		14170		14170		14170																	
73	Ash	lb/hr																									10.98	
74	Ash	ppmw	nd		400		400		400		400																	
75	Chlorine	ppmw	nd		221		221		221		221																	
76	Antimony	ppmw	nd		8.5		8.5		8.5		8.5																	
77	Arsenic	ppmw	nd		8.5		8.5		8.5		8.5																	
78	Barium	ppmw	nd		170		170		170		170																	
79	Beryllium	ppmw	nd		4.3		4.3		4.3		4.3																	
80	Cadmium	ppmw	nd		1.7		1.7		1.7		1.7																	
81	Chromium	ppmw	nd		4.3		4.3		4.3		4.3																	
82	Lead	ppmw	nd		2.6		2.6		2.6		2.6																	
83	Mercury	ppmw	nd		0.033		0.033		0.033		0.033																	
84	Silver	ppmw	nd		4.3		4.3		4.3		4.3																	
85	Thallium	ppmw	nd		8.5		8.5		8.5		8.5																	
86																												
87	Gas Flowrate	dscfm																									102052.3	
88	Oxygen	%																									7.8	
89	Ash	mg/dscm																									30.6	
90																												
91	need waste feedrate to calc other MTECs																											
92																												
93	761C4				R1		R2		R3		Cond Avg																	
94																												
95	Feedstream Number				F1		F1		F1		F1																	
96	Feed Class				Liq HW		Liq HW		Liq HW		Liq HW																	
97	Feed Class 2				HW		HW		HW		HW																	
98	Feedstream Description				Liquid waste		Liquid waste		Liquid waste		Liquid waste																	
99	Feed Rate				?		?		?		?																	
100	Heating Value				14464		14464		14464		14464																	
101	Ash	ppmw	nd		400		400		400		400																	
102	Chlorine	ppmw	nd		231		231		231		231																	
103	Antimony	ppmw	nd		10		10		10		10																	
104	Arsenic	ppmw	nd		10		10		10		10																	
105	Barium	ppmw	nd		200		200		200		200																	
106	Beryllium	ppmw	nd		5		5		5		5																	
107	Cadmium	ppmw	nd		2		2		2		2																	
108	Chromium	ppmw	nd		5		5		5		5																	
109	Lead	ppmw	nd		3		3		3		3																	
110	Mercury	ppmw	nd		0.033		0.033		0.033		0.033																	
111	Silver	ppmw	nd		5		5		5		5																	
112	Thallium	ppmw	nd		10		10		10		10																	
113																												
114	need waste feedrate to calc MTECs																											
115																												
116																												

	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	AA	AB
117																											
118	761C5				R1		R2		R3		Cond Avg																
119																											
120	Feedstream Number				F1		F1		F1		F1																
121	Feed Class				Liq HW		Liq HW		Liq HW		Liq HW																
122	Feed Class 2				HW		HW		HW		HW																
123	Feedstream Description				Liq waste		Liq waste		Liq waste		Liq waste																
124	Feed Rate				?		?		?		?																
125	Heating Value				14554		14554		14554		14554																
126	Ash	%	nd		0.1		0.1		0.1		0.1																
127	Chlorine	ppmw	nd		82		82		82		82																
128	Antimony	ppmw	nd		1		1		1		1																
129	Arsenic	ppmw	nd		2.5		2.5		2.5		2.5																
130	Barium	ppmw	nd		50		50		50		50																
131	Beryllium	ppmw	nd		1.3		1.3		1.3		1.3																
132	Cadmium	ppmw	nd		0.5		0.5		0.5		0.5																
133	Chromium	ppmw	nd		1.27		1.27		1.27		1.27																
134	Lead	ppmw	nd		0.87		0.87		0.87		0.87																
135	Mercury	ppmw	nd		0.033		0.033		0.033		0.033																
136	Nickel	ppmw	nd		10		10		10		10																
137	Selenium	ppmw	nd		4.4		4.4		4.4		4.4																
138	Silver	ppmw	nd		1.3		1.3		1.3		1.3																
139	Thallium	ppmw	nd		2.5		2.5		2.5		2.5																
140	Zinc	ppmw	nd		5		5		5		5																
141																											
142	need waste feedrate to calc MTECs																										

	A	B	C	D	E	F
1	Process Information					
2						
3		Units	Run	Run	Run	Avg
4			1	2	3	
5						
6	761C2					
7						
8	Combustion Temp	°F	527	540	525	531

	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:	DuPont Orange TX, ADN South Boiler															
4		Condition ID:	761C5															
5		Condition/Test Date:	Risk burn, Dec. 1998															
6																		
7			I-TEF		Run 1				Run 2				Run 3					
8			Wght Fact	Total	TEQ	Total	TEQ	Total	TEQ	Total	TEQ	Total	TEQ	Total	TEQ	Total	TEQ	
9				Full ND	Full ND	1/2 ND	1/2 ND	Full ND	Full ND	1/2 ND	1/2 ND	Full ND	Full ND	1/2 ND	1/2 ND	Full ND	Full ND	
10		Detected in sample volume (ng)																
11		2,3,7,8-TCDD	1	nd	0.0040	0.0040	0.0020	0.0020	nd	0.001	0.0010	0.0005	0.0005	nd	0.002	0.0020	0.0010	0.0010
12		1,2,3,7,8-PCDD	0.5	nd	0.0050	0.0025	0.0025	0.0013	nd	0.002	0.0010	0.0010	0.0005	nd	0.002	0.0010	0.0010	0.0005
13		1,2,3,4,7,8-HxCDD	0.1	nd	0.0070	0.0007	0.0035	0.0004	nd	0.004	0.0004	0.0020	0.0002	nd	0.004	0.0004	0.0020	0.0002
14		1,2,3,6,7,8-HxCDD	0.1	nd	0.0060	0.0006	0.0030	0.0003	nd	0.003	0.0003	0.0015	0.0002	nd	0.003	0.0003	0.0015	0.0002
15		1,2,3,7,8,9-HxCDD	0.1	nd	0.0060	0.0006	0.0030	0.0003	nd	0.003	0.0003	0.0015	0.0002	nd	0.003	0.0003	0.0015	0.0002
16		1,2,3,4,6,7,8-HpCDD	0.01		0.0120	0.0001	0.0120	0.0001		0.004	0.0000	0.0040	0.0000		0.004	0.0000	0.0040	0.0000
17		OCDD	0.001		0.0560	0.0001	0.0560	0.0001		0.015	0.0000	0.0150	0.0000		0.016	0.0000	0.0160	0.0000
18		2,3,7,8-TCDF	0.1		0.0050	0.0005	0.0050	0.0005	nd	0.002	0.0002	0.0010	0.0001	nd	0.003	0.0003	0.0015	0.0002
19		1,2,3,7,8-PCDF	0.05		0.0060	0.0003	0.0060	0.0003	nd	0.003	0.0002	0.0015	0.0001	nd	0.003	0.0002	0.0015	0.0001
20		2,3,4,7,8-PCDF	0.5	nd	0.0060	0.0030	0.0030	0.0015	nd	0.003	0.0015	0.0015	0.0008	nd	0.003	0.0015	0.0015	0.0008
21		1,2,3,4,7,8-HxCDF	0.1		0.0120	0.0012	0.0120	0.0012		0.004	0.0004	0.0040	0.0004	nd	0.003	0.0003	0.0015	0.0002
22		1,2,3,6,7,8-HxCDF	0.1		0.0060	0.0006	0.0060	0.0006	nd	0.001	0.0001	0.0005	0.0001	nd	0.003	0.0003	0.0015	0.0002
23		2,3,4,6,7,8-HxCDF	0.1	nd	0.0040	0.0004	0.0020	0.0002	nd	0.001	0.0001	0.0005	0.0001	nd	0.003	0.0003	0.0015	0.0002
24		1,2,3,7,8,9-HxCDF	0.1	nd	0.0030	0.0003	0.0015	0.0002	nd	0.001	0.0001	0.0005	0.0001	nd	0.004	0.0004	0.0020	0.0002
25		1,2,3,4,6,7,8-HpCDF	0.01		0.0300	0.0003	0.0300	0.0003		0.007	0.0001	0.0070	0.0001	nd	0.005	0.0001	0.0025	0.0000
26		1,2,3,4,7,8,9-HpCDF	0.01	nd	0.0080	0.0001	0.0040	0.0000	nd	0.002	0.0000	0.0010	0.0000	nd	0.005	0.0001	0.0025	0.0000
27		OCDF	0.001		0.0660	0.0001	0.0660	0.0001		0.016	0.0000	0.0160	0.0000		0.017	0.0000	0.0170	0.0000
28																		
29		Gas sample volume (dscf)			124.59		124.59			141.79		141.79			139.84		139.84	
30		O2 (%)			6.00		6.00			5.90		5.90			5.20		5.20	
31																		
32		PCDD/PCDF (ng in sample)			0.0153		0.0092			0.0057		0.0031			0.0074		0.0037	
33		PCDD/PCDF (ng/dscm @ 7% O2)	79.5		0.0041		0.0024		90.5	0.0013		0.0007		99.0	0.0017		0.0008	
34																		
35		TEQ Cond Avg	0.0013															