

US EPA ARCHIVE DOCUMENT

	B	C
1	Source Description	
2		
3	Phase II ID No.	814
4	EPA ID No.	LAD008213191
5	Facility Name	Rubicon, Inc
6	Facility Location	
7	City	Geismar
8	State	LA
9	Unit ID Name/No.	DPA I Superheater
10	Other Sister Facilities	None
11	Number of Sister Facilities	0
12	Combustor Class	Liquid-fired boiler
13	Combustor Type	Liquid injection, process heater
14	Combustor Characteristics	Process heater/boiler. Primary function to superheat a raw material used in production of Diphenylamine. Only a small portion of the total heat input is utilized for steam production. Turbulent burner chamber, separate tube banks
15	Capacity (MMBtu/hr)	20
16	Soot Blowing	
17	APCS Detailed Acronym	None
18	APCS General Class	
19	APCS Characteristics	NA
20	Hazardous Wastes	Liq
21	Haz Waste Description	Liquid wastes -- tar residue, TDA distillation bottoms, DPA light and heavy impurities, vacuum oil, converter and process gases
22	Supplemental Fuel	Natural gas
23		
24	Stack Characteristics	
25	Diameter (ft)	3.4
26	Height (ft)	75
27	Gas Velocity (ft/sec)	54.1
28	Gas Temperature (°F)	680
29		
30	Permitting Status	Tier I adjusted metals, chlorine
31	HWC Burn Status (Date if Terminated)	

	B	C
1	Cond Description	
2		
3	814C1	
4		
5	Report Name/Date	Risk Assessment Trial Burn Report, Dec. 29, 1997
6	Report Prepare	Focus Environmental Inc.
7	Testing Firm	Focus Environmental Inc.
8	Testing Dates	June 10-11, 1997
9	Cond Dates	Jun-97
10	Cond Description	Trial burn; min comb temp
11	Content	Organic destruction
12		
13	814C2	
14		
15	Report Name/Date	Risk Assessment Trial Burn Report, Dec. 29, 1997
16	Report Prepare	Focus Environmental Inc.
17	Testing Firm	Focus Environmental Inc.
18	Testing Dates	June 11-14, 1997
19	Cond Dates	Jun-97
20	Cond Description	Trial burn, risk burn; max feed rate
21	Content	

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	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
1	Stack Gas Emissions																	
2																		
3																		
4																		
5																		
6	814C1					R1		R2		R3		Cond Avg						
7																		
8	CO (RA)	E1	ppmv	y		5.2		4.6		9.8		6.5						
9	CO (MHRA)	E1	ppmv	y		12.6		6.7		13.0		10.8						
10																		
11	POHC DRE		orthodichlorobenzene															
12	POHC Feedrate		lb/hr			20		20		20								
13	Emissions Rate					2.18E-05		1.24E-05		2E-05								
14	DRE	E1	%	>	99.999891	>	99.999938	>	99.99999									
15																		
16	Sampling Train		POHC	E1		4960		4892		4952		4935						
17	Stack Gas Flowrate		dscfm			10		10.2		10.1		10.1						
18	O2		%			7.2		7.6		7.5		7.4						
19	CO2		%			63.55		62.52		62.4		62.82						
20	Moisture		%			622		617		617		619						
21	Temperature		°F															
22																		
23																		
24	814C2					R1		R2		R3		R4		R5		R6		Cond Avg
25																		
26	PM	E1	gr/dscf	y		0.01		0.01		0.01		0.01						0.01
27	CO (RA)	E1	ppmv	y		0.0		0.03		0.1		0.6		0.7		2.5		0.65
28	CO (MHRA)	E1	ppmv	y		0.2		0.14		0.2		0.6						0.18
29	HCl		mg/dscm	n		1.5		1.5		1.2		1.2						
30	Cl2		mg/dscm	n		0.1		0.1		0.1		0.1						
31	Chromium (Hex)		µg/dscm	n		3.3		NA		NA		NA						
32	Antimony		µg/dscm	n		17.4		15.6		13.2		13.2						
33	Arsenic		µg/dscm	n	nd	2.2	nd	2.1	nd	2.0		2.0						
34	Barium		µg/dscm	n		16.0		12.2		13.5		13.5						
35	Beryllium		µg/dscm	n		0.1		0.1		0.2		0.2						
36	Cadmium		µg/dscm	n	nd	0.1	nd	0.1	nd	0.1		0.1						
37	Chromium		µg/dscm	n		11.1		14.2		50.4		50.4						
38	Lead		µg/dscm	n		9.1		5.6		6.7		6.7						
39	Mercury		µg/dscm	n	nd	0.3	nd	0.3	nd	0.3		0.3						
40	Nickel		µg/dscm	n		513.0		598.0		543.0		543.0						
41	Selenium		µg/dscm	n	nd	1.8	nd	1.7	nd	1.6		1.6						
42	Silver		µg/dscm	n	nd	0.2	nd	0.2	nd	0.2		0.2						
43	Thallium		µg/dscm	n	nd	5.5	nd	5.2	nd	4.9		4.9						
44																		
45	Sampling Train		PM, HCl/Cl2/E1			5187		5192		5440		5440						5273
46	Stack Gas Flowrate		dscfm			8.8		9.4		9.3		9.3						9.2
47	O2		%			9.3		8.4		8.4		8.4						8.7
48	CO2		%			60.06		61.02		60.67		60.67						60.6
49	Moisture		%			681		675		685		685						680
50	Temperature		°F															
51																		
52	Sampling Train		Metals	E2		5102		5263		5404		5404						5256
53	Stack Gas Flowrate		dscfm															

	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
54	O2		%			8.8		9.4		9.3								9.2
55	Moisture		%			59.88		60.65		60.42								60
56	Temperature		°F			676		674		685								678
57																		
58	Sampling Train	PCDD/PCD E3																
59	Stack Gas Flowrate		dscfm			5207		5273		5416		5299						5299
60	O2		%			9.3		9.6		9.1		9.3						9.3
61	CO2		%			8.3		8.3		8.6		8.4						8.4
62	Moisture		%			60.41		60.07		59.38		60.0						60
63	Temperature		°F			682		678		685		681.7						682
64																		
65																		
66	HCl	E1	ppmv	y		1.16		1.19		0.93								1.09
67	Cl2	E1	ppmv	y		0.03		0.03		0.04								0.04
68	Total Chlorine	E1	ppmv	y		1.22		1.26		1.01								1.17
69	Chromium (Hex)	E2	µg/dscm	y		3.8												3.82
70	Antimony	E2	µg/dscm	y		20.0		18.8		15.8							100	18.20
71	Arsenic	E2	µg/dscm	y	nd	2.5	nd	2.5	nd	2.4								2.47
72	Barium	E2	µg/dscm	y		18.4		14.7		16.2								16.41
73	Beryllium	E2	µg/dscm	y		0.1		0.1		0.2								0.13
74	Cadmium	E2	µg/dscm	y	nd	0.1	nd	0.1	nd	0.1							100	0.10
75	Chromium	E2	µg/dscm	y		12.7		17.1		60.3								30.06
76	Lead	E2	µg/dscm	y		10.4		6.8		8.0								8.39
77	Mercury	E2	µg/dscm	y	nd	0.3	nd	0.3	nd	0.3							100	0.34
78	Nickel	E2	µg/dscm	y		588.7		721.7		649.7								653.39
79	Selenium	E2	µg/dscm	y	nd	2.1	nd	2.1	nd	1.9								2.01
80	Silver	E2	µg/dscm	y	nd	0.3	nd	0.3	nd	0.3								0.27
81	Thallium	E2	µg/dscm	y	nd	6.3	nd	6.3	nd	5.9								6.13
82																		
83	SVM	E2	µg/dscm	y	1	10.5	1	6.9	1	8.0							1	8.48
84	LVM	E2	µg/dscm	y	16	15.4	13	19.7	3.8	62.9							8	32.67

	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	Feedstreams																							
2																								
3																								
4	814C1																							
5	Feedstream Number																							
6	Feed Class																							
7	Feed Class 2																							
8	Feedstream Description																							
9	Feed Rate	lb/hr																						
10	Feed Rate	scfh																						
11	Feed Rate	MMBtu/hr																						
12	Thermal Feedrate	MMBtu/hr																						
13	Estimated Firing Rate																							
14																								
15	Stack Gas Flowrate	dscfm																						
16	O2	%																						
17																								
18																								
19																								
20	814C2																							
21																								
22	Feedstream Number																							
23	Feed Class																							
24	Feed Class 2																							
25	Feedstream Description																							
26	Feed Rate	lb/hr																						
27	Feed Rate	scfh																						
28	Thermal Feedrate	MMBtu/hr																						
29	Heating Value	Btu/lb																						
30	Ash	lb/hr																						
31	Chlorine	lb/hr																						
32	Antimony	lb/hr																						
33	Arsenic	lb/hr																						
34	Barium	lb/hr																						
35	Beryllium	lb/hr																						
36	Cadmium	lb/hr																						
37	Chromium	lb/hr																						
38	Lead	lb/hr																						
39	Mercury	lb/hr																						
40	Silver	lb/hr																						
41	Thallium	lb/hr																						
42																								
43	metals feedrates in risk burn report not consistent with those in trial burn report; should be same?																							
44																								
45	Stack Gas Flowrate	dscfm																						
46	O2	%																						
47																								
48	Estimated Firing Rate	MMBtu/hr																						
49																								
50	Feedrate MTEC Calculations																							
51	Ash	mg/dscm																						
52	Chlorine	ug/dscm																						
53	Antimony	ug/dscm																						
54	Arsenic	ug/dscm																						
55	Barium	ug/dscm																						
56	Beryllium	ug/dscm																						
57	Cadmium	ug/dscm																						
58	Chromium	ug/dscm																						
59	Lead	ug/dscm																						
60	Mercury	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	Feedstreams																								
2																									
3																									
4	814C1	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
5	Feedstream Number				F3	F3	F3	F3	F3	F3	F3	F3	F3	F3	F3	F3	F3	F3	F3	F3	F3	F3	F3	F3	F3
6	Feed Class				Process Gas	Process Gas	Process Gas	Process Gas	Process Gas	Process Gas	Process Gas	Process Gas	Process Gas	Process Gas	Process Gas	Process Gas	Process Gas	Process Gas	Process Gas	Process Gas	Process Gas	Process Gas	Process Gas	Process Gas	Process Gas
7	Feed Class 2				Non-HW	Non-HW	Non-HW	Non-HW	Non-HW	Non-HW	Non-HW	Non-HW	Non-HW	Non-HW	Non-HW	Non-HW	Non-HW	Non-HW	Non-HW	Non-HW	Non-HW	Non-HW	Non-HW	Non-HW	Non-HW
8	Feedstream Description	HW		HW	Vac vent	Vac vent	Vac vent	Vac vent	Vac vent	Vac vent	Vac vent	Vac vent	Vac vent	Vac vent	Vac vent	Vac vent	Vac vent	Vac vent	Vac vent	Vac vent	Vac vent	Vac vent	Vac vent	Vac vent	Vac vent
9	Feed Rate				498	403	383	428	428	428	428	428	428	428	428	428	428	428	428	428	428	428	428	428	428
10	Feed Rate																								
11	Thermal Feedrate																								
12	Estimated Firing Rate		17.1	16.97																					
13	Stack Gas Flowrate																								
14	O2																								
15																									
16																									
17																									
18																									
19																									
20	814C2	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
21	Feedstream Number				F3	F3	F3	F3	F3	F3	F3	F3	F3	F3	F3	F3	F3	F3	F3	F3	F3	F3	F3	F3	F3
22	Feed Class				Process Gas	Process Gas	Process Gas	Process Gas	Process Gas	Process Gas	Process Gas	Process Gas	Process Gas	Process Gas	Process Gas	Process Gas	Process Gas	Process Gas	Process Gas	Process Gas	Process Gas	Process Gas	Process Gas	Process Gas	Process Gas
23	Feed Class 2				Non-HW	Non-HW	Non-HW	Non-HW	Non-HW	Non-HW	Non-HW	Non-HW	Non-HW	Non-HW	Non-HW	Non-HW	Non-HW	Non-HW	Non-HW	Non-HW	Non-HW	Non-HW	Non-HW	Non-HW	Non-HW
24	Feedstream Description	HW		HW	Vac vent	Vac vent	Vac vent	Vac vent	Vac vent	Vac vent	Vac vent	Vac vent	Vac vent	Vac vent	Vac vent	Vac vent	Vac vent	Vac vent	Vac vent	Vac vent	Vac vent	Vac vent	Vac vent	Vac vent	Vac vent
25	Feed Rate				329.00	292.00	473.00	350	350	350	350	350	350	350	350	350	350	350	350	350	350	350	350	350	350
26	Feed Rate																								
27	Thermal Feedrate																								
28	Heating Value		19.7	19.40																					
29	Ash		26876	26479																					
30	Chlorine																								
31	Antimony																								
32	Arsenic																								
33	Barium																								
34	Beryllium																								
35	Cadmium																								
36	Chromium																								
37	Lead																								
38	Mercury																								
39	Silver																								
40	Thallium																								
41	metals feedrates in risk burn																								
42																									
43																									
44																									
45	Stack Gas Flowrate																								
46	O2																								
47																									
48	Estimated Firing Rate																								
49																									
50	Feedrate MTEC Calculations																								
51	Ash		106.0	108.4																					
52	Chlorine		887.9	898.9																					
53	Antimony		90.0	90.7																					
54	Arsenic		10.9	11.1																					
55	Barium		61.7	63.2																					
56	Beryllium		11.0	11.1																					
57	Cadmium		11.1	11.2																					
58	Chromium		12.3	12.5																					
59	Lead		25.8	26.7																					
60	Mercury		9.2	9.4																					

	B	AX	AY	AZ	BA	BB	BC	BD	BE	BF	BG	BH
1	Feedstreams											
2												
3												
4	814C1	R3		Cond Avg	R1		R2		R3		Cond Avg	
5												
6	Feedstream Number	F5		F5	F6		F6		F6		F6	
7	Feed Class	Spike		Spike	Total		Total		Total		Total	
8	Feed Class 2	Spike		Spike	Total		Total		Total		Total	
9	Feedstream Description	ODCB spike		ODCB spike	Total		Total		Total		Total	
10	Feed Rate	20.5		20.27								
11	Feed Rate											
12	Thermal Feedrate				17.3		16.5		17.1		17.0	
13	Estimated Firing Rate				17.3		16.8		17.1		17.1	
14												
15	Stack Gas Flowrate				4960		4892		4952		4934.667	
16	O2				10		10.2		10.1		10.1	
17												
18												
19												
20	814C2	R3		Cond Avg	R1		R2		R3		Cond Avg	
21												
22	Feedstream Number	F5		F5	F6		F6		F6		F6	
23	Feed Class	Spike		Spike	Total		Total		Total		Total	
24	Feed Class 2	Spike		Spike	Total		Total		Total		Total	
25	Feedstream Description	ODCB spike		ODCB spike	Total		Total		Total		Total	
26	Feed Rate											
27	Feed Rate											
28	Thermal Feedrate				23.4		23.9		24.4		23.9	
29	Heating Value											
30	Ash											
31	Chlorine											
32	Antimony	0.002		0.001								
33	Arsenic											
34	Barium											
35	Beryllium											
36	Cadmium											
37	Chromium											
38	Lead											
39	Mercury											
40	Silver											
41	Thallium											
42												
43	metals feedrates in risk burn											
44												
45	Stack Gas Flowrate	5404		5256	5102		5263		5404		5256	
46	O2	9.3		9.20	8.8		9.4		9.3		9.2	
47												
48	Estimated Firing Rate				19.8		19.4		20.1		19.7	
49												
50	<i>Feedrate MTEC Calculations</i>											
51	Ash											
52	Chlorine	88.8	100	45.0	112.5		106.7		106.0		108.4	
53	Antimony				985.0	100	1004.8	100	976.7	100	943.9	
54	Arsenic				100	100	92.1	100	90.0	100	90.7	
55	Barium				11.1	100	11.3	100	10.9	100	11.1	
56	Beryllium				63.3	100	64.6	100	61.7	100	63.2	
57	Cadmium				11.1	100	11.3	100	11.0	100	11.1	
58	Chromium				11.2	100	11.4	100	11.1	100	11.2	
59	Lead				12.5	100	12.7	100	12.3	100	12.5	
60	Mercury				27.5	100	26.8	100	25.8	100	26.7	
					9.4	100	9.6	100	9.2	100	9.4	

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B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y
61 Silver		ug/dscm	100	64.9	100	69.9	100	15.1	100	50.0	100	1.8	100	1.9	100	1.8	100	1.9	100	66.8	100	71.8	100
62 Thallium		ug/dscm	100	22.0	100	22.4	100	21.7	100	22.1	100	1.9	100	2.0	100	2.0	100	2.0	100	23.9	100	24.5	100
63																							
64 SVM		ug/dscm	100	36.1	100	36.8	100	35.6	100	36.2	100	2.5	100	1.3	100	1.2	100	1.7	100	38.6	100	38.2	100
65 LVM		ug/dscm	100	34.2	100	34.8	100	33.7	100	34.3	100	0.4	100	0.5	100	0.5	100	0.5	100	34.7	100	35.3	100

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	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
61 Silver		16.9 100	51.8																						
62 Thallium		23.7 100	24.0																						
63																									
64 SVM		36.9 100	37.9																						
65 LVM		34.2 100	34.7																						

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	B	AX	AY	AZ	BA	BB	BC	BD	BE	BF	BG	BH
61	Silver				100	66.8	100	71.8	100	16.9	100	51.8
62	Thallium				100	23.9	100	24.5	100	23.7	100	24.0
63												
64	SVM				100	38.6	100	38.2	100	36.9	100	37.9
65	LVM				100	34.7	100	35.3	100	34.2	100	34.7

	A	B	C	D	E	F
1	Process Information					
2						
3		Units	Run	Run	Run	Avg
4			1	2	3	
5						
6	814C1					
7						
8	Combustion Temp	°F	1848	1849	1849	1848.67
9						
10	814C2 (A runs)					
11						
12	Combustion Temp	°F	1972	1973	1970	1971.7
13						
14	814C2 (B runs)					
15						
16	Combustion Temp	°F	1974	1972	1975	1973.7

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:	Rubicon (Geismar LA), DPA I boiler															
4	Condition ID:	814C2															
5	Condition/Test Date:	Max waste feedrate. June 13-14, 1997															
6																	
7																	
8																	
9																	
10	Stack Gas Conc (ng/dscm)																
11	2,3,7,8-TCDD	1	nd	1.24E-02	1.24E-02	6.19E-03	6.19E-03	nd	4.96E-03	4.96E-03	2.48E-03	2.48E-03	nd	9.54E-03	9.54E-03	4.77E-03	4.77E-03
12	TCDD Other	0															
13	1,2,3,7,8-PCDD	0.5	nd	1.98E-02	9.90E-03	9.90E-03	4.95E-03	nd	4.96E-03	2.48E-03	2.48E-03	1.24E-03	nd	1.67E-02	8.36E-03	8.36E-03	4.18E-03
14	PCDD Other	0															
15	1,2,3,4,7,8-HxCDD	0.1	nd	2.48E-02	2.48E-03	1.24E-02	1.24E-03	nd	4.96E-03	4.96E-04	2.48E-03	2.48E-04	nd	2.14E-02	2.14E-03	1.07E-02	1.07E-03
16	1,2,3,6,7,8-HxCDD	0.1		1.73E-02	1.73E-03	1.73E-02	1.73E-03		2.48E-03	2.48E-04	2.48E-03	2.48E-04	nd	2.38E-02	2.38E-03	1.19E-02	1.19E-03
17	1,2,3,7,8,9-HxCDD	0.1	nd	2.22E-02	2.22E-03	1.11E-02	1.11E-03		4.96E-03	4.96E-04	4.96E-03	4.96E-04	nd	1.91E-02	1.91E-03	9.55E-03	9.55E-04
18	HxCDD Other	0															
19	1,2,3,4,6,7,8-HpCDD	0.01		3.47E-02	3.47E-04	3.47E-02	3.47E-04		1.74E-02	1.74E-04	1.74E-02	1.74E-04	nd	5.72E-02	5.72E-04	2.86E-02	2.86E-04
20	HpCDD Other	0															
21	OCDD	0.001		1.04E-01	1.04E-04	1.04E-01	1.04E-04		6.45E-02	6.45E-05	6.45E-02	6.45E-05	nd	1.24E-01	1.24E-04	6.21E-02	6.21E-05
22	2,3,7,8-TCDF	0.1	nd	7.68E-02	7.68E-03	3.84E-02	3.84E-03		4.96E-03	4.96E-04	4.96E-03	4.96E-04	nd	1.43E-01	1.43E-02	7.16E-02	7.16E-03
23	TCDF Other	0															
24	1,2,3,7,8-PCDF	0.05		2.22E-02	1.11E-03	2.22E-02	1.11E-03		7.44E-03	3.72E-04	7.44E-03	3.72E-04	nd	7.40E-02	3.70E-03	3.70E-02	1.85E-03
25	2,3,4,7,8-PCDF	0.5	nd	3.72E-02	1.86E-02	1.86E-02	9.29E-03		9.92E-03	4.96E-03	9.92E-03	4.96E-03	nd	6.44E-02	3.22E-02	3.22E-02	1.61E-02
26	PCDF Other	0															
27	1,2,3,4,7,8-HxCDF	0.1		4.46E-02	4.46E-03	4.46E-02	4.46E-03		1.98E-02	1.98E-03	1.98E-02	1.98E-03		6.92E-02	6.92E-03	6.92E-02	6.92E-03
28	1,2,3,6,7,8-HxCDF	0.1		2.72E-02	2.72E-03	2.72E-02	2.72E-03		7.44E-03	7.44E-04	7.44E-03	7.44E-04		2.86E-02	2.86E-03	2.86E-02	2.86E-03
29	2,3,4,6,7,8-HxCDF	0.1		3.47E-02	3.47E-03	3.47E-02	3.47E-03		9.92E-03	9.92E-04	9.92E-03	9.92E-04		3.10E-02	3.10E-03	3.10E-02	3.10E-03
30	1,2,3,7,8,9-HxCDF	0.1	nd	3.46E-02	3.46E-03	1.73E-02	1.73E-03	nd	4.96E-03	4.96E-04	2.48E-03	2.48E-04	nd	1.67E-02	1.67E-03	8.35E-03	8.35E-04
31	HxCDF Other	0															
32	1,2,3,4,6,7,8-HpCDF	0.01		6.44E-02	6.44E-04	6.44E-02	6.44E-04		0.00E+00	0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00	0.00E+00	0.00E+00
33	1,2,3,4,7,8,9-HpCDF	0.01		2.48E-02	2.48E-04	2.48E-02	2.48E-04	nd	4.96E-03	4.96E-05	2.48E-03	2.48E-05	nd	3.10E-02	3.10E-04	1.55E-02	1.55E-04
34	HpCDF Other	0															
35	OCDF	0.001		1.19E-01	1.19E-04	1.19E-01	1.19E-04		5.71E-02	5.71E-05	5.71E-02	5.71E-05	nd	1.62E-01	1.62E-04	8.12E-02	8.12E-05
36																	
37	Gas sample volume (dscm)																
38	O2 (%)																
39																	
40	PCDD/PCDF (ng in sample)																
41	PCDD/PCDF (ng/dscm @ 7% O2)		79.1														
42																	
43	TEQ Cond Avg																