

US EPA ARCHIVE DOCUMENT

	B	C
1	<b>Source Description</b>	
2		
3	Phase I ID No.	612
4	EPA ID No.	ILD098642424
5	Facility Name	Trade Waste Incineration
6	Facility Location	
7	City	Sauget
8	State	IL
9	Unit ID Name/No.	Unit No. 3
10	Other Sister Facilities	
11	Number of Sister Facilities	0
12	Combustor Class	Commercial incinerator
13	Combustor Type	Fixed hearth
14	Combustor Characteristics	Made by North American
15	Capacity (MMBtu/hr)	
16	Soot Blowing	
17	APCS Detailed Acronym	SD/FF
18	APCS General Class	SD, FF
19	APCS Characteristics	Spray dryer, fabric filter (Pulseflo, pulse jet, fiberglass bags), lime spray dryer
20	Hazardous Wastes	solid,liq,sludge
21	Haz Waste Description	
22	Supplemental Fuel	Natural Gas, oil
23		Fuel oil
24	Stack Characteristics	
25	Diameter (ft)	4.0
26	Height (ft)	101.0
27	Gas Velocity (ft/sec)	6.8
28	Gas Temperature (°F)	348.5
29		
30	Permitting Status	
31	HWC Burn Status (Date if Terminated)	

	B	C
1	<b>Condition Description</b>	
2		
3	<b>612C1</b>	
4		
5	Report Name/Date	Test Report for the RCRA Trial Burn on the Unit 3 Incinerator, Trade Waste Incineration, Sauget, Illinois, ILD 098642424, Prepared by MRI, Project # 4341-02, January 21, 1997
6	Report Prepare	MRI
7	Testing Firm	MRI
8	Cond Descr	Trial burn, Worst case operating conditions
9	Testing Dates	November 6-8, 1996
10	Cond Dates	Jan-97

	B	C	D	E	F	G	H	I	J	K	L	M	
1	<b>Stack Gas Emissions 1</b>												
2													
3													
4	<b>612C1</b>						R1	R2	R3	Cond Avg			
5													
6	PM	E2	gr/dscf	y		0.0017		0.0004		0.0009		0.0010	
7	CO (RA)	E2	ppmv	y		0.8		2.1		1.1		1.3	
8	HC (RA)	E2	ppmv	y		0.0		0.0		0.5		0.2	
9	HCl	E2	ppmv	y		17.8		18.8		9.7		15.4	
10	Cl2	E2	ppmv	y		0.1		0.1		0.1		0.1	
11	Total Chlorine	E2	ppmv	y		18.1		19.1		10.0		15.7	
12													
13	Sampling Train	Dioxin & Furan	E1										
14	Stack Gas Flowrate		dscfm			5454.0		5706.0		5971.0			
15	O2		%			10.2		9.4		10.8			
16	Moisture		%			47.2		48.8		46.1			
17	Temperature		°F			352.0		347.0		346.0			
18													
19	Sampling Train	PM/HCl	E2										
20	Stack Gas Flowrate		dscfm			5588.0		5964.0		6346.0			
21	O2		%			10.2		9.6		10.0			
22	Moisture		%			47.1		48.3		45.9			
23	Temperature		°F			352.0		348.0		346.0			
24													
25	1,2,3-Trichlorobenzene	DRE	%			99.99985		99.99984		99.99983			
26	Carbon Tetrachloride	DRE	%			99.99991		99.99997		99.99997			
27	Tetrachloroethene	DRE	%			99.99993		99.99997		99.99998			

	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	<b>Feedstream 2</b>																								
2																									
3																									
4	612C1																								
5																									
6	Feedstream Number																								
7	Feed Class 2																								
8	Feed Class																								
9	Feedstream Description																								
10	Feed Rate																								
11	Heating value																								
12	Ash																								
13	Chlorine																								
14																									
15	Stack Gas Flowrate																								
16	Oxygen																								
17																									
18	Estimated Firing Rate																								
19																									
20	Ash																								
21	Chlorine																								

	B	AA	AB	AD	AF	AH	AJ	AL	AN	AP	AR
1	Feedstream 2										
2											
3											
4	612C1										
5	Feedstream Number										
6	Feed Class 2										
7	Feed Class										
8	Feedstream Description										
9	Feed Rate										
10	Heating value										
11	Ash										
12	Chlorine										
13											
14											
15	Stack Gas Flowrate										
16	Oxygen										
17											
18	Estimated Firing Rate										
19	Ash										
20	Chlorine										
21											

	C	D	E	F	G
1	<b>Process Information 2</b>				
2					
3	<b>612C1</b>		R1	R2	R3
4					
5	Hearth Temperature	F	1608	1638	1635
6	Afterburner Temperature	F	1870	1827	1838
7	FF Temperature	F	386	386	386

	C	D	E	F	R1		H	I	J	R2		L	M	N	R3		P
					Total Full ND	TEQ 1/2 ND				Total Full ND	TEQ 1/2 ND				Total Full ND	TEQ 1/2 ND	
1	612C1																
2																	
3	ng/dscm																
4																	
5	4D 2378	1	1	0.012	0.006	0.006	0.006		0.010	0.010	0.010	0.010	1	0.011	0.005	0.005	
6	4D Other	0		0.180	0.180	0.000	0.000		0.146	0.146	0.000	0.000			0.000	0.000	
7	4D Total	0		0.192	0.192	0.000	0.000		0.156	0.156	0.000	0.000		0.108	0.108	0.000	
8	5D 12378	0.5	1	0.041	0.021	0.010	0.010		0.027	0.027	0.013	0.013		0.028	0.028	0.014	
9	5D Other	0		0.570	0.570	0.000	0.000		0.317	0.317	0.000	0.000		0.449	0.449	0.000	
10	5D Total	0		0.612	0.612	0.000	0.000		0.344	0.344	0.000	0.000		0.477	0.477	0.000	
11	6D 123478	0.1	1	0.031	0.016	0.002	0.002		0.014	0.014	0.001	0.001		0.023	0.023	0.002	
12	6D 123678	0.1		0.048	0.048	0.005	0.005		0.023	0.023	0.002	0.002		0.038	0.038	0.004	
13	6D 123789	0.1		0.047	0.047	0.005	0.005		0.031	0.031	0.003	0.003		0.036	0.036	0.004	
14	6D Other	0		0.980	0.980	0.000	0.000		0.829	0.829	0.000	0.000		0.737	0.737	0.000	
15	6D Total	0		1.106	1.106	0.000	0.000		0.897	0.897	0.000	0.000		0.835	0.835	0.000	
16	7D 1234678	0.01		0.317	0.317	0.003	0.003		0.151	0.151	0.002	0.002		0.263	0.263	0.003	
17	7D Other	0		0.289	0.289	0.000	0.000		0.138	0.138	0.000	0.000		0.232	0.232	0.000	
18	7D Total	0		0.606	0.606	0.000	0.000		0.288	0.288	0.000	0.000		0.496	0.496	0.000	
19	8D	0.001		0.723	0.723	0.001	0.001		0.233	0.233	0.000	0.000		0.673	0.673	0.001	
20	4F 2378	0.1		0.418	0.418	0.042	0.042		0.015	0.015	0.001	0.001		0.025	0.025	0.002	
21	4F Other	0		0.623	0.623	0.000	0.000		0.267	0.267	0.000	0.000		0.470	0.470	0.000	
22	4F Total	0		1.041	1.041	0.000	0.000		0.282	0.282	0.000	0.000		0.495	0.495	0.000	
23	5F 12378	0.05		0.055	0.055	0.003	0.003		0.019	0.019	0.001	0.001		0.033	0.033	0.002	
24	5F 23478	0.5		0.110	0.110	0.055	0.055		0.032	0.032	0.016	0.016		0.007	0.007	0.003	
25	5F Other	0		0.829	0.829	0.000	0.000		0.158	0.158	0.000	0.000		0.334	0.334	0.000	
26	5F Total	0		0.994	0.994	0.000	0.000		0.209	0.209	0.000	0.000		0.374	0.374	0.000	
27	6F 123478	0.1		0.125	0.125	0.012	0.012	1	0.034	0.017	0.002	0.002	1	0.085	0.043	0.004	
28	6F 123678	0.1	1	0.115	0.058	0.006	0.006	1	0.034	0.017	0.002	0.002	1	0.073	0.037	0.004	
29	6F 123789	0.1		0.075	0.075	0.007	0.007		0.045	0.045	0.005	0.005		0.052	0.052	0.005	
30	6F 234678	0.1	1	0.229	0.114	0.011	0.011		0.072	0.072	0.007	0.007		0.141	0.141	0.014	
31	6F Other	0		0.286	0.286	0.000	0.000		0.056	0.056	0.000	0.000		0.346	0.346	0.000	
32	6F Total	0		0.829	0.829	0.000	0.000		0.241	0.241	0.000	0.000		0.697	0.697	0.000	
33	7F 1234678	0.01		0.461	0.461	0.005	0.005		0.098	0.098	0.001	0.001		0.324	0.324	0.003	
34	7F 1234789	0.01	1	0.094	0.047	0.000	0.000		0.029	0.029	0.000	0.000		0.059	0.059	0.001	
35	7F Other	0		0.152	0.152	0.000	0.000		0.083	0.083	0.000	0.000		0.226	0.226	0.000	
36	7F Total	0		0.706	0.706	0.000	0.000		0.210	0.210	0.000	0.000		0.610	0.610	0.000	
37	8F	0.001		0.315	0.315	0.000	0.000		0.066	0.066	0.000	0.000		0.323	0.323	0.000	
38	Total PCDD/PCDF		34.2	7.124	7.124	0.174	0.174	9.7	2.926	2.926	0.066	0.066	31.6	5.088	5.088	0.071	
39	TEQ			0.209	0.209	0.070	0.070		0.070	0.070	0.085	0.085		0.085	0.085	0.071	