

US EPA ARCHIVE DOCUMENT

	B	C
1	Source Description	
2		
3	Phase I ID No.	806
4	EPA ID No.	IND000810861
5	Facility Name	Amoco Oil Co.
6	Facility Location	
7	City	Whiting
8	State	IN
9	Unit ID Name/No.	FBI
10	Other Sister Facilities	None
11	Number of Sister Facilities	0
12	Combustor Class	Onsite incinerator
13	Combustor Type	Fluidized bed
14	Combustor Characteristics	Dorr Oliver unit, 82 MMBtu/hr, constructed in 1972, 22' diameter, 40' height
15	Capacity (MMBtu/hr)	
16	Soot Blowing	
17	APCS Detailed Acronym	C/VS
18	APCS General Class	C, HEWS
19	APCS Characteristics	Cyclone, venturi scrubber
20	Hazardous Wastes	Liq, solid, sludge
21	Haz Waste Description	API and oily refinery separator sludge, dissolved air flotation unit sludge (biosolids), caustic solutions
22	Supplemental Fuel	Oil
23		Fuel oil
24	Stack Characteristics	
25	Diameter (ft)	5.0
26	Height (ft)	62.0
27	Gas Velocity (ft/sec)	7.9
28	Gas Temperature (°F)	155.0
29		
30	Permitting Status	
31	HWC Burn Status (Date if Terminated)	

	B	C
1	Condition Description	
2		
3	806C1	
4		
5	Report Name/Date	Report of RCRA Trial Burn Results for a Fluidized Bed Incinerator, Prepared for Amoco Oil Company, Whiting, Indiana, Prepared by Scott Environmental Technology Inc. June 1989
6	Report Prepare	Scott Environmental Technology, Inc.
7	Testing Firm	Scott Environmental Technology, Inc.
8	Cond Descr	Trial burn, HIGH WASTE FEED/HIGH COMB TEMP
9	Testing Dates	April 12, 1989
10	Cond Dates	Apr-89
11		
12	806C2	
13		
14	Report Name/Date	Report of RCRA Trial Burn Results for a Fluidized Bed Incinerator, Prepared for Amoco Oil Company, Whiting, Indiana, Prepared by Scott Environmental Technology Inc. June 1989
15	Report Prepare	Scott Environmental Technology, Inc.
16	Testing Firm	Scott Environmental Technology, Inc.
17	Cond Descr	Trial burn, LOW WASTE FEED/LOW COMB TEMP
18	Testing Dates	April 13, 1989
19	Cond Dates	Apr-89

	B	C	D	E	F	G	H	I	J	K	L	M
1	Stack Gas Emissions 2											
2												
3												
4	806C1					R1		R2		R3		Cond Avg
5												
6	PM	E1	gr/dscf	y		0.0444		0.0644		0.0591		0.0560
7	CO (RA)	E1	ppmv	y		73.1		60.0		72.1		68.4
8	HC (RA)	E1	ppmv	y		10.1		12.1		9.5		10.6
9	HCl	E1	ppmv	y		33.7		40.4		43.3		39.1
10	Total Chlorine	E1	ppmv	y		33.7		40.4		43.3		39.1
11												
12	Antimony	E1	ug/dscm	y	nd	0.3	nd	0.3	nd	0.3	100	0.3
13	Arsenic	E1	ug/dscm	y		0.6		0.6		0.7		0.6
14	Barium	E1	ug/dscm	y		428.2		458.8		374.8		420.6
15	Beryllium	E1	ug/dscm	y	nd	0.2	nd	0.2	nd	0.1	100	0.1
16	Cadmium	E1	ug/dscm	y		0.9		0.8		2.7		1.5
17	Chromium	E1	ug/dscm	y		6.0		9.5		7.4		7.6
18	Lead	E1	ug/dscm	y		443.8		602.3		724.8		590.3
19	Mercury	E1	ug/dscm	y		192.6		129.3		195.8		172.6
20	Silver	E1	ug/dscm	y		0.3		0.5		0.1		0.3
21	Thallium	E1	ug/dscm	y	nd	0.2	nd	0.2	nd	0.1	100	0.1
22												
23	SVM	E1	ug/dscm	y		444.7		603.1		727.5		591.8
24	LVM	E1	ug/dscm	y		6.7		10.3		8.2		8.4
25												
26	Sampling Train	PM/HCl	E1									
27	Stack Gas Flowrate		dscfm			19682.0		17890.0		18220.0		
28	O2		%			14.0		13.2		13.7		
29	Moisture		%			29.2		29.1		29.1		
30	Temperature		°F			155.0		155.0		155.0		
31												
32	1,1,1-Trichloroethane	E1	%			99.9997		99.9997		99.9997		
33	Toluene	E1	%			99.9992		99.9998		99.9999		
34												
35	806C2					R1		R2		R3		Cond Avg
36												
37	PM	E1	gr/dscf	y		0.0304		0.0301		0.0314		0.0307
38	CO (RA)	E1	ppmv	y		301.0		321.0		337.0		319.7
39	HC (RA)	E1	ppmv	y		68.3		18.8		20.4		35.8
40	HCl	E1	ppmv	y		46.6		31.1		64.8		47.5
41	Total Chlorine	E1	ppmv	y		46.6		31.1		64.8		47.5
42												
43	Antimony	E1	ug/dscm	y	nd	0.3	nd	0.3	nd	0.3	100	0.3
44	Arsenic	E1	ug/dscm	y		0.9		0.3		0.3		0.5
45	Barium	E1	ug/dscm	y		509.9		468.6		461.9		480.2
46	Beryllium	E1	ug/dscm	y		0.2		0.2		0.2		0.2
47	Cadmium	E1	ug/dscm	y		1.4		0.6		0.8		0.9
48	Chromium	E1	ug/dscm	y		8.3		5.0		4.8		6.0
49	Lead	E1	ug/dscm	y		493.3		390.4		495.3		459.7
50	Mercury	E1	ug/dscm	y		84.6		146.5		122.9		118.0
51	Silver	E1	ug/dscm	y		1.7		0.3		2.5		1.5
52	Thallium	E1	ug/dscm	y	nd	0.2	nd	0.2	nd	0.2	100	0.2
53												
54	SVM	E1	ug/dscm	y		494.7		391.0		496.1		460.6
55	LVM	E1	ug/dscm	y		9.3		5.4		5.2		6.6
56												
57	Sampling Train	PM/HCl	E1									
58	Stack Gas Flowrate		dscfm			17800.0		16094.0		16713.0		
59	O2		%			14.6		13.8		14.5		
60	Moisture		%			22.7		24.4		23.4		
61	Temperature		°F			153.0		148.0		150.0		
62												
63	1,1,1-Trichloroethane	E1	%			99.999		99.999		99.9995		
64	Toluene	E1	%			99.99915		99.99941		99.9999		

	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
1	Feedstream 2																									
2																										
3																										
4	806C1																									
5																										
6	Feedstream Number																									
7	Feed Class																									
8	Feed Class 2																									
9	Feedstream Description																									
10	Feed Rate																									
11	Heating value																									
12	Ash																									
13	Chlorine																									
14																										
15																										
16	Stack gas flowrate																									
17	Oxygen																									
18	Estimated Firing Rate																									
19																										
20																										
21	Feedrate MTEC Calculations																									
22	Ash																									
23	Chlorine																									
24																										
25																										
26																										
27	806C2																									
28																										
29	Feedstream Number																									
30	Feed Class																									
31	Feed Class 2																									
32	Feedstream Description																									
33	Feed Rate																									
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39	Oxygen																									
40	Estimated Firing Rate																									
41																										
42																										
43	Feedrate MTEC Calculations																									
44	Ash																									
45	Chlorine																									

B	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV
1	Feedstream 2																				
2																					
3																					
4	806C1	R3	R1	R2	R2	R1	R3	R1	R1	R2	R2	R3	R3	R1	R1	R2	R2	R3	R3		Cond Avg
5																					
6	Feedstream Number																				
7	Feed Class																				
8	Feed Class 2																				
9	Feedstream Descriptive																				
10	Feed Rate																				
11	Heating value																				
12	Ash																				
13	Chlorine																				
14																					
15																					
16	Stack gas flowrate																				
17	Oxygen																				
18																					
19	Estimated Firing Rate																				
20																					
21	Feedrate MTEC Calcu																				
22	Ash																				
23	Chlorine																				
24																					
25																					
26																					
27	806C2	R3	R1	R2	R2	R1	R3	R1	R1	R2	R2	R3	R3	R1	R1	R2	R2	R3	R3		Cond Avg
28																					
29	Feedstream Number																				
30	Feed Class																				
31	Feed Class 2																				
32	Feedstream Descriptive																				
33	Feed Rate																				
34	Heating value																				
35	Ash																				
36	Chlorine																				
37																					
38	Stack gas flowrate																				
39	Oxygen																				
40																					
41	Estimated Firing Rate																				
42																					
43	Feedrate MTEC Calcu																				
44	Ash																				
45	Chlorine																				

	C	D	E	F	G
1	Process Information 2				
2					
3	806C1		R1	R2	R3
4					
5	Combustion Temperature	F	1437	1460	1444
6	VS Pressure Drop	in H2O	21	21	21
7					
8	806C2		R1	R2	R3
9					
10	Combustion Temperature	F	1252	1342	1342
11	VS Pressure Drop	in H2O	17	16	16