

	B	C
1	Source Description	
2		
3	Phase I ID No.	706
4	EPA ID No.	LAD053783445
5	Facility Name	Ciba-Geigy Corporation
6	Facility Location	
7	City	St. Gabriel
8	State	LA
9	Unit ID Name/No.	Liquid incinerator
10	Other Sister Facilities	None
11	Number of Sister Facilities	0
12	Combustor Class	Onsite incinerator
13	Combustor Type	Liquid injection
14	Combustor Characteristics	John Zink
15	Capacity (MMBtu/hr)	
16	Soot Blowing	
17	APCS Detailed Acronym	QT/HS/C/DM
18	APCS General Class	WQ,HEWS,C
19	APCS Characteristics	Quench, hydrosonic scrubber, cyclone,demister
20	Hazardous Wastes	Liq
21	Haz Waste Description	
22	Supplemental Fuel	?
23		
24	Stack Characteristics	
25	Diameter (ft)	3.5
26	Height (ft)	140.0
27	Gas Velocity (ft/sec)	18.3
28	Gas Temperature (°F)	191.0
29		
30	Permitting Status	
31	HWC Burn Status (Date if Terminated)	

	B	C
1	Condition Description	
2		
3	706C1	
4		
5	Report Name/Date	Ciba Giegy St. Gabriel, Louisiana Trial Burn on Hazardous Waste Liquid Incinerator, # LAD053783445 July 15, 1988
6	Report Prepare	?
7	Testing Firm	?
8	Cond Descr	Max Feed Rates
9	Testing Dates	May 31 - June 1, 1988
10	Cond Dates	Jun-88
11		
12	706C2	
13		
14	Report Name/Date	Ciba Giegy St. Gabriel, Louisiana Trial Burn on Hazardous Waste Liquid Incinerator, # LAD053783445 July 15, 1988
15	Report Prepare	?
16	Testing Firm	?
17	Cond Descr	Reduced Feed Rates/Lower Temp
18	Testing Dates	June 1-3, 1988
19	Cond Dates	Jun-88
20		
21	706C3	
22		
23	Report Name/Date	Ciba Giegy St. Gabriel, Louisiana Trial Burn on Hazardous Waste Liquid Incinerator, # LAD053783445 July 15, 1988
24	Report Prepare	?
25	Testing Firm	?
26	Cond Descr	Min Feed Rates/Single Scrubber Train
27	Testing Dates	6/4/88
28	Cond Dates	Jun-88
29		
30	706C4	
31		
32	Report Name/Date	
33	Report Prepare	?
34	Testing Firm	?
35	Testing Dates	
36	Cond Descr	Metals Test Burn
37	Cond Dates	April 25-27, 1994
38	Cond Date	4/27/1994 ??

	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
1	Stack Gas Emissions 2															
2																
3																
4																
5		Comments	Units	7%O2												
6	706C1					R1		R2		R3		Cond Avg				
7																
8	PM	E1	gr/dscf	y		0.0388		0.0404		0.0344		0.0379				
9	CO (RA)	E1	ppmv	y		34.7		28.1		33.1		31.9				
10	HC (RA)	E1	ppmv	y		5.7		6.7		3.9		5.4				
11	HCl	E1	ppmv	y		0.3		0.4	nd	0.2		0.3				
12	HI		ug/dscm	y		3.1		1.8		1.5		2.1				
13																
14	Sampling Train	PM/HCl	E1													
15	Stack Gas Flowrate		dscfm			12954.0		13922.0		12652.0						
16	O2		%			3.8		3.9		3.8						
17	Moisture		%			59.0		59.0		59.1						
18	Temperature		°F			186.0		186.0		187.0						
19																
20	Sampling Train	SVOC	E2													
21	Stack Gas Flowrate		dscfm			12695.0		12945.0		13058.0						
22	O2		%			3.6		3.7		3.5						
23	Moisture		%			56.2		57.0		58.4						
24	Temperature		°F			185.0		186.0		186.0						
25																
26	1,2-dichlorobenzene	E2	%			99.9999		99.9999		99.9999						
27	Carbon Tetrachlorid	E2	%			99.99995		99.9999		99.9998						
28	Toluene	E2	%			99.9996		99.9998		99.9994						
29																
30	706C2					R1		R2		R3		Cond Avg				
31																
32	PM	E1	gr/dscf	y		0.0630		0.0565		0.0660		0.0618				
33	CO (RA)	E1	ppmv	y		42.7		41.7		45.9		43.4				
34	HC (RA)	E1	ppmv	y		4.9		4.3		4.6		4.6				
35	HCl	E1	ppmv	y		1.1		1.2	nd	0.2		0.9				
36	HI		ug/dscm	y		1.4		2.7		2.7		2.3				
37																
38	Sampling Train	PM/HCl	E1													
39	Stack Gas Flowrate		dscfm			13689.0		13706.0		12580.0						
40	O2		%			5.5		5.4		5.2						
41	Moisture		%			54.3		51.8		56.0						
42	Temperature		°F			183.0		184.0		185.0						
43																
44	Sampling Train	SVOC	E2													
45	Stack Gas Flowrate		dscfm			13476.0		13377.0		12290.0						
46	O2		%			5.5		5.3		4.9						
47	Moisture		%			50.0		50.0		50.0						
48	Temperature		°F			183.0		183.0		184.0						
49																
50	1,2-dichlorobenzene	E2	%			99.9998		99.9999		99.9999						
51	Carbon Tetrachlorid	E2	%			99.9999		99.9999		99.9997						
52	Toluene	E2	%			99.9999		99.9997		99.999						
53																
54	706C3					R1		R2		R3		Cond Avg				
55																
56	PM	E1	gr/dscf	y		0.0337		0.0263		0.0253		0.0284				
57	CO (RA)	E1	ppmv	y		45.3		48.1		40.0		44.5				
58	HC (RA)	E1	ppmv	y		5.1		5.7		5.4		5.4				
59	HCl	E1	ppmv	y	nd	0.2	nd	0.2	nd	0.2		0.2				
60	HI		ppmv	y		2.1		2.5		2.2		2.2				
61																
62	Sampling Train	PM/HCl	E1													
63	Stack Gas Flowrate		dscfm			8186.0		8819.0		8304.0						
64	O2		%			5.7		5.8		5.6						
65	Moisture		%			49.0		48.2		49.0						
66	Temperature		°F			178.0		179.0		178.0						
67																
68	Sampling Train	SVOC	E2													
69	Stack Gas Flowrate		dscfm			7710.0		8382.0		8282.0						
70	O2		%			5.7		5.8		5.6						
71	Moisture		%			49.6		49.2		49.5						

	R	S	T	U	V	W	X
1							
2							
3							
4							
5							
6							
7							
8							0.037867
9							31.94074
10							5.447379
11							0.293789
12							2.111551
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							0.061834
33							43.43651
34							4.624871
35							0.854466
36							2.294672
37							
38							
39							
40							
41							
42							
43							
44							
45							
46							
47							
48							
49							
50							
51							
52							
53							
54							
55							
56							0.028434
57							44.48059
58							5.394116
59							0.212664
60							2.227243
61							
62							
63							
64							
65							
66							
67							
68							
69							
70							
71							

	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
72	Temperature		°F			179.0		179.0		179.0						
73																
74	1,2-dichlorobenzene	E2	%			99.9997		99.9998		99.9999						
75	Carbon Tetrachloride	E2	%			99.9999		99.9999		99.9994						
76	Toluene	E2	%			99.9999		99.9999		99.9997						
77																
78	706C4					R1		R2		R3		Cond Avg				
79																
80	Arsenic	E2	ug/dscm	y		694.9		734.4		2827.1		1418.8				
81	Beryllium	E2	ug/dscm	y		37.6		38.7		39.0		38.4				
82	Cadmium	E2	ug/dscm	y		1258.3		1410.9		1481.8		1383.6				
83	Chromium (Hex)	E1	ug/dscm	y		534.9		792.5		670.1		665.8				
84	LVM	E2	ug/dscm	y		1267.3		1565.5		3536.1		2123.0		(no Cr total)		
85	SVM	E2	ug/dscm	y		1258.3		1410.9		1481.8		1383.6		(No Pb)		
86	note: Cr(total) not measured in LVM															
87																
88	Sampling Train	Cr Hex	E1													
89	Stack Gas Flowrate		dscfm			11134.0		10650.0		10536.0						
90	O2		%			2.8		2.4		3.0						
91	Moisture		%			61.4		62.8		62.5						
92	Temperature		°F			187.0		190.0		191.0						
93																
94	Sampling Train	Metals	E2													
95	Stack Gas Flowrate		dscfm			10935.0		10397.0		10650.0						
96	O2		%			2.8		2.4		3.0						
97	Moisture		%			61.2		62.1		61.8						
98	Temperature		°F			191.0		193.0		194.0						

	R	S	T	U	V	W	X
72							
73							
74							
75							
76							
77							
78							
79							
80							1418.79
81							38.40297
82							1383.645
83							665.8077
84							
85							
86							
87							
88							
89							
90							
91							
92							
93							
94							
95							
96							
97							
98							

	B	AF	AG	AH	AI	AJ	AK	AL
1	Feedstream 2							
2								
3								
4	706C1	R2		R3		Cond Avg		
5								
6	Feedstream Number	F4		F4		F4		
7	Feed Class	Total		Total		Total		
8	Feed Class 2	Total		Total		Total		
9	Feedstream Description	Total		Total		Total		
10	Feedrate							
11	Heating value							
12	Ash							
13	Chlorine							
14								
15	Stack Gas Flowrate	13922		12652		13176.0		
16	Oxygen	3.9		3.8		3.8		
17								
18	Thermal Feedrate	32.8		33.5		33.0		
19								
20	Feedrate MTECs							
21	Ash	33943		36741		35703		
22	Chlorine	7.35E+06		8.42E+06		7.96E+06		
23								
24								
25								
26	706C2	R2		R3		Cond Avg		
27								
28	Feedstream Number	F4		F4		F4		
29	Feed Class	Total		Total		Total		
30	Feed Class 2	Total		Total		Total		
31	Feedstream Description	Total		Total		Total		
32	Feedrate							
33	Heating value							
34	Ash							
35	Chlorine							
36								
37	Stack Gas Flowrate							
38	Oxygen							
39								
40	Thermal Feedrate	33.2		34.1		33.3		
41								
42	Feedrate MTECs							
43	Ash	30979.2		35207.0		32675.8		
44	Chlorine	8482324.3		9529470.6		8853148.6		
45								
46								
47	706C3	R2		R3		Cond Avg		
48								
49	Feedstream Number	F4		F4		F4		
50	Feed Class	Total		Total		Total		
51	Feed Class 2	Total		Total		Total		
52	Feedstream Description	Total		Total		Total		
53	Feedrate							
54	Heating value							
55	Ash							
56	Chlorine							
57								
58	Stack Gas Flowrate							
59	Oxygen							
60								

	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	AC	AD	AE	
61	Thermal Feedrate		MMBtu/hr		18.5		19.4		19.8		0.7		0.7		0.7																19.2
62																															
63	Feedrate MTECs																														
64	Ash		mg/dscm		3.4		4.9		3.9		28870.0		26794.2		28345.6		28873.4		26799.2		28349.4									28873.4	
65	Chlorine		ug/dscm		8547696		8265611		8576414		803		190		200		8.5.E+06		8.3.E+06		8.6.E+06									8548498.4	
66																															
67																															
68																															
69	706C4				R1		R2		R3		R1		R2		R3		R1		R2		R3		R1		R2		R3		R1		
70																															
71	Feedstream Number				F1		F1		F1		F2		F2		F2									F3		F3		F3		F4	
72	Feed Class				Liq HW		Liq HW		Liq HW		Liq HW		Liq HW		Liq HW									Spike		Spike		Spike		Total	
73	Feed Class 2																HW		HW		HW			Spike		Spike		Spike		Total	
74	Feedstream Description				Organic		Organic		Organic		Aqueous		Aqueous		Aqueous									Spike		Spike		Spike		Total	
75	Feedrate		lb/hr		1538		1538		1538		8400		8400		8400																
76	Heating value		Btu/lb																												
77	Ash		wt %																												
78	Arsenic		lb/hr																					0.419		0.492		1.672			
79	Beryllium		lb/hr																					0.013		0.015		0.018			
80	Cadmium		lb/hr																					0.373		0.472		0.557			
81	Chromium (Hex)		lb/hr																					0.59		0.61		0.62			
82																															
83	Stack Gas Flowrate		dscfm		10935		10397		10650		10935		10397		10650									10935		10397		10650			
84	Oxygen		%		2.8		2.4		3		2.8		2.4		3									2.8		2.4		3			
85																															
86	Thermal Feedrate		MMBtu/hr																												
87																															
88	Feedrate MTECs																														
89	Arsenic		ug/dscm																					7881		9523		32648		7880.8	
90	Beryllium		ug/dscm																					245		290		351		244.5	
91	Cadmium		ug/dscm																					7016		9136		10876		7015.6	
92	Chromium		ug/dscm																					11097		11807		12106		11097.1	
93	LVM		ug/dscm																					19222		21621		45106		19222.4	
94	SVM		ug/dscm																					7016		9136		10876		7015.6	

	B	AF	AG	AH	AI	AJ	AK	AL
61	Thermal Feedrate	20.1		20.5		19.9		
62								
63	Feedrate MTECs							
64	Ash	26799.2		28349.4		28007.3		
65	Chlorine	8265801.6		8576614.2		8463638.1		
66								
67								
68								
69	706C4	R2		R3		Cond Avg		
70								
71	Feedstream Number	F4		F4		F4		
72	Feed Class	Total		Total		Total		
73	Feed Class 2	Total		Total		Total		
74	Feedstream Description	Total		Total		Total		
75	Feedrate							
76	Heating value							
77	Ash							
78	Arsenic							
79	Beryllium							
80	Cadmium							
81	Chromium (Hex)							
82								
83	Stack Gas Flowrate							
84	Oxygen							
85								
86	Thermal Feedrate							
87								
88	Feedrate MTECs							
89	Arsenic	9523.4		32648.3		16684.1		
90	Beryllium	290.3		351.5		295.4		
91	Cadmium	9136.2		10876.3		9009.4		
92	Chromium	11807.4		12106.4		11670.3		
93	LVM	21621.1		45106.2		28649.9		
94	SVM	9136.2		10876.3		9009.4		Cd Only

	C	D	E	F	G
1	Process Information 2				
2					
3	706C1				
4					
5	Combustion Temperature	F	1891	1891	1891
6					
7	706C2				
8					
9	Combustion Temperature	F	1861	1861	1861
10					
11	706C3				
12					
13	Combustion Temperature	F	1767	1767	1767
14					
15	706C4				
16					
17	Combustion Temperature	F	2093	2093	2093

	C	D	E	F	G	H	I	J	K	L
1	706C2				R1			R2		
2		I-TEF		Total	Total	TEQ		Total	Total	TEQ
3	ng/dscm	Wt Fact		Full ND	1/2 ND	1/2 ND		Full ND	1/2 ND	1/2 ND
4										
5	4D 2378	1	1	0.003	0.001	0.001	2	0.018	0.018	0.018
6	4D Other	0	1	0.003	0.001	0.000	2	0.037	0.037	0.000
7	4D Total	0		0.005	0.005	0.000		0.054	0.054	0.000
8	5D 12378	0.5	1	0.004	0.002	0.001	1	0.004	0.002	0.001
9	5D Other	0	2	0.506	0.506	0.000	2	0.028	0.028	0.000
10	5D Total	0		0.510	0.510	0.000		0.032	0.032	0.000
11	6D 123478	0.1	1	0.005	0.003	0.000	1	0.007	0.003	0.000
12	6D 123678	0.1	1	0.005	0.003	0.000	1	0.007	0.003	0.000
13	6D 123789	0.1	1	0.005	0.003	0.000	1	0.007	0.004	0.000
14	6D Other	0	2	0.476	0.476	0.000	2	0.227	0.227	0.000
15	6D Total	0		0.492	0.492	0.000		0.247	0.247	0.000
16	7D 1234678	0.01	2	0.095	0.095	0.001	1	0.013	0.007	0.000
17	7D Other	0	2	0.169	0.169	0.000	1	0.013	0.007	0.000
18	7D Total	0		0.264	0.264	0.000			0.000	0.000
19	8D	0.001	2	0.372	0.372	0.000	2	0.157	0.157	0.000
20	4F 2378	0.1	1	0.002	0.001	0.000		0.011	0.011	0.001
21	4F Other	0		0.044	0.044	0.000		0.169	0.169	0.000
22	4F Total	0		0.046	0.046	0.000		0.179	0.179	0.000
23	5F 12378	0.05	2	0.017	0.017	0.001	1	0.003	0.001	0.000
24	5F 23478	0.5	1	0.003	0.002	0.001	2	0.015	0.015	0.008
25	5F Other	0		0.037	0.037	0.000	2	0.031	0.031	0.000
26	5F Total	0		0.057	0.057	0.000		0.049	0.049	0.000
27	6F 123478	0.1		0.052	0.052	0.005	1	0.003	0.002	0.000
28	6F 123678	0.1	1	0.003	0.002	0.000	1	0.003	0.002	0.000
29	6F 123789	0.1	1	0.007	0.003	0.000	1	0.006	0.003	0.000
30	6F 234678	0.1	1	0.005	0.002	0.000	1	0.004	0.002	0.000
31	6F Other	0		0.006	0.006	0.000	1	0.004	0.002	0.000
32	6F Total	0		0.073	0.073	0.000		0.021	0.021	0.000
33	7F 1234678	0.01	2	0.198	0.198	0.002		0.099	0.099	0.001
34	7F 1234789	0.01		0.147	0.147	0.001	2	0.049	0.049	0.000
35	7F Other	0		0.213	0.213	0.000		0.060	0.060	0.000
36	7F Total	0		0.558	0.558	0.000		0.208	0.208	0.000
37	8F	0.001		0.640	0.640	0.001		0.264	0.264	0.000
38	Total PCDD/PCDF			3.018	3.018			1.237	1.211	
39	TEQ		46.0	0.021		0.016	17.5	0.034		0.031

	C	D	E	F	G	H
1	706C3				R1	
2		I-TEF		Total	Total	TEQ
3	ng/dscm	Wt Fact		Full ND	1/2 ND	1/2 ND
4						
5	4D 2378	1	1	0.000	0.000	0.000
6	4D Other	0		0.045	0.045	0.000
7	4D Total	0		0.045	0.045	0.000
8	5D 12378	0.5	1	0.001	0.001	0.000
9	5D Other	0		0.012	0.012	0.000
10	5D Total	0		0.014	0.014	0.000
11	6D 123478	0.1	1	0.002	0.001	0.000
12	6D 123678	0.1	1	0.002	0.001	0.000
13	6D 123789	0.1		0.012	0.012	0.001
14	6D Other	0		0.020	0.020	0.000
15	6D Total	0		0.036	0.036	0.000
16	7D 1234678	0.01		0.076	0.076	0.001
17	7D Other	0		0.000	0.000	0.000
18	7D Total	0		0.076	0.076	0.000
19	8D	0.001		0.202	0.202	0.000
20	4F 2378	0.1		0.007	0.007	0.001
21	4F Other	0		0.165	0.165	0.000
22	4F Total	0		0.172	0.172	0.000
23	5F 12378	0.05	2	0.014	0.014	0.001
24	5F 23478	0.5	2	0.009	0.009	0.005
25	5F Other	0		0.047	0.047	0.000
26	5F Total	0		0.070	0.070	0.000
27	6F 123478	0.1		0.016	0.016	0.002
28	6F 123678	0.1		0.009	0.009	0.001
29	6F 123789	0.1	1	0.001	0.001	0.000
30	6F 234678	0.1	1	0.001	0.001	0.000
31	6F Other	0		0.005	0.005	0.000
32	6F Total	0		0.033	0.033	0.000
33	7F 1234678	0.01		0.058	0.058	0.001
34	7F 1234789	0.01		0.022	0.022	0.000
35	7F Other	0		0.016	0.016	0.000
36	7F Total	0		0.096	0.096	0.000
37	8F	0.001		0.087	0.087	0.000
38	Total PCDD/PCDF			0.832	0.832	
39	TEQ		12.5	0.013		0.012