	B	C
1	**Source Description**	
2		
3	Phase I ID No.	492
4	EPA ID No.	TXD007330202
5	Facility Name	Texas Eastman
6	Facility Location	
7	City	Longview
8	State	TX
9	Unit ID Name/No.	Fluid bed Incinerator
10	Other Sister Facilities	
11	Combustor Class	Onsite Incinerator
12	Combustor Type	Fluidized bed
13	Combustor Characteristics	Fluid bed incinerator, heat exchanger/comb air preheater, venturi, packed bed, demistors
14		
15	Capacity (MMBtu/hr)	
16	Soot Blowing	
17	APCS	HE/VS/PB/DM
18	APCS Characteristics	Heat exchanger, venturi, packed bed, demisters
19	Hazardous Wastes	Liquid and sludge wastes
20	Haz Waste Description	Various hi-Btu (10-20 kBtu/lb) low ash (<1%) liquid waste & biological wastewater treatment sludge
21	Supplemental Fuel	Natural gas
22		
23	Stack Characteristics	
24	Diameter (ft)	
25	Height (ft)	
26	Gas Velocity (ft/sec)	35.0
27	Gas Temperature (°F)	182
28		
29	Permitting Status	RCRA
30	HWC Burn Status (Date if Terminated)	

	B	C
1	**Condition Description**	
2		
3	**492C10**	492C10
4		
5	Report Name/Date	Trial Burn Report, Fluid Bed Incinerator, Jan 1999
6	Report Prepare	Radian International
7	Testing Firm	Radian International
8	Testing Dates	10/2-3/1998
9	Condition Descr	Trial burn - min temp/DRE
10	Content	PM, Hcl/Cl2, DRE, D/Fs, V/SV PICs, CO, PSD, aldehydes/ketones
11		
12	**492C11**	492C11
13		
14	Report Name/Date	Trial Burn Report, Fluid Bed Incinerator, Jan 1999
15	Report Prepare	Radian International
16	Testing Firm	Radian International
17	Testing Dates	October 1, 1998
18	Condition Descr	Trial burn - worst-case metals
19	Content	PM, HCl/Cl2, metals, Cr6, & waste feed ash/Cl/metals
20		
21	**492C1**	
22		
23	Report Name/Date	Texas Eastman Company Trial Burn Program Emission Test Results, Alliance Project No. 5-986-999, April 5, 1991
24	Report Prepare	Alliance
25	Testing Firm	Alliance
26	Testing Dates	1/31/91
27	Condition Descr	Max liquid, minimum sludge, high temp
28	Content	
29		
30	**492C2**	
31		
32	Report Name/Date	Texas Eastman Company Trial Burn Program Emission Test Results, Alliance Project No. 5-986-999, April 5, 1991
33	Report Prepare	Alliance
34	Testing Firm	Alliance
35	Testing Dates	2/1/91
36	Condition Descr	Max sludge, min liquid, max temp
37	Content	
38		
39	**492C3**	
40		
41	Report Name/Date	Texas Eastman Company Trial Burn Program Emission Test Results, Alliance Project No. 5-986-999, April 5, 1991
42	Report Prepare	Alliance
43	Testing Firm	Alliance
44	Testing Dates	2/2/91
45	Condition Descr	med sludge, med liquid, min temp
46	Content	

	B	C	D	E	F	G	H	I	J	K	L	M
1	**Stack Gas Emissions 1**											
2												
3		Comı	Units	7% O2		1		2		3		Average
4												
5	**492C10**	**Trial burn - min temp/DRE**										
6												
7	CO (RA)		ppmv	n		48		25		37		36.7
8	CO (RA)		ppmv	y		57		31		44		44.4
9												
10	PM		gr/dscf	y		6.53E-03		6.32E-03		5.58E-03		0.0061
11												
12	HCl		ug/dscf	n		8.04E+01		2.82E+01		7.14E+01		
13	Cl2		ug/dscf	n		0.00E+00		0.00E+00		0.00E+00		
14												
15	HCl		ppmv	y		2.18E+00		8.41E-01		1.97E+00		1.66.E+00
16	Cl2		ppmv	y		0.00E+00		0.00E+00		0.00E+00		0.00.E+00
17	Total chlorine		ppmv	y		2.18E+00		8.41E-01		1.97E+00		1.66.E+00
18												
19	POHC	Chlorobenzene			Liquid waste spike							
20	POHC Feedrate		lb/hr			20.01		19.99		20		20.0000
21	Emission Rate		lb/hr			1.70E-06		7.80E-06		9.40E-06		0.0000063
22	DRE		%			99.99999		99.99996		99.99995		99.99997
23												
24	POHC	1,2-dichlorobenzene			Sludge waste spike							
25	POHC Feedrate		lb/hr			20		20.03		20.03		20.02000
26	Emission Rate		lb/hr		<	8.36E-06	<	8.60E-06	<	8.12E-06		0.00001
27	DRE		%		>	99.99996	>	99.99996	>	99.99996	>	99.99996
28												
29	Sampling Train	PMHCl/Cl2										
30	Stack Gas Flowrate		dscfm			7570		7340		7300		7403
31	O2		%			8.8		9.9		9		9.2
32	Moisture		%			52.5		50.5		51.5		52
33	Temperature		°F			183		181		181		182
34												
35	Sampling Train	D/Fs										
36	Stack Gas Flowrate		dscfm			7730		7940		7870		7847
37	O2		%			8.8		9.9		9		9
38	Moisture		%			51.1		49.4		50.6		50
39	Temperature		°F			180		179		179		179
40												
41	**492C11**		Trial burn - worst-case metals									
42		Run				3		4		5		Avg
43	CO (RA)		ppmv	n		24		23		23		23.3
44	CO (RA)		ppmv	y		31		30		30		30.3
45												
46	PM		gr/dscf	y		9.63E-03		1.55E-02		1.33E-02		0.0
47												
48	HCl		ug/dscf	n		17.5		11.6		5.13		
49	Cl2		ug/dscf	n		0		0		0		
50												
51	HCl		ppmv	y		6.23E-01		6.09E-01		1.26E-01		4.53E-01
52	Cl2		ppmv	y		0.00E+00		0.00E+00		0.00E+00		0.00E+00
53	Total chlorine		ppmv	y		0.62		0.609		0		4.53E-01
54												
55	Sampling Train		PM/HCl/Cl2 train									
56	Stack Gas Flowrate		dscfm			6900		6900		7390		7063
57	O2		%			8.8		9.9		9		9.2
58	Moisture		%			47.1		46.7		45.5		46.4
59	Temperature		°F			177		176		175		176
60												
61	Metals (blank corrected)											
62	Antimony		ug/dscf	n		3.96		2.28		2.03		
63	Arsenic		ug/dscf	n	nd	0.0000	nd	0.0000	nd	0.0000		
64	Barium		ug/dscf	n		21.80		20.30		17.20		
65	Berylilium		ug/dscf	n		0.0033		0.0008		0.0006		
66	Cadmium		ug/dscf	n		0.3700		0.2350		0.3480		
67	Chromium		ug/dscf	n		11.7000		14.7000		7.5000		
68	Chromium +6		ug/dscf	n		1.9300		1.5100		2.2800		
69	Lead		ug/dscf	n		2.0500		0.9520		1.0400		
70	Mercury		ug/dscf	n		92.4		104.0		106.0		
71	Nickel		ug/dscf	n		1.6700		1.5700		1.1800		

	B	C	D	E	F	G	H	I	J	K	L	M
72	Selenium		ug/dscf	n		1.5400		1.6500		2.4000		
73	Silver		ug/dscf	n		0.8770		0.6530		0.8230		
74	Thallium		ug/dscf	n		26.3000		26.1000		30.6000		
75	Zinc		ug/dscf	n		9.7500		7.9900		4.2100		
76												
77	Sampling Train		Metals									
78	Stack Gas Flowrate		dscfm			6970		6900		7390		7087
79	O2		%			8.8		9.9		9		9
80	Moisture		%			47		47.2		45.5		47
81	Temperature		°F			176		176		176		176
82												
83	Sampling Train		Cr+6 train									
84	Stack Gas Flowrate		dscfm			7320		7460		7330		7370
85	O2		%			8.8		9.9		9		9
86	Moisture		%			46.8		46.2		47		47
87	Temperature		°F			176		175		176		176
88												
89	Antimony		ug/dscm	y		160	0	102	0	84		115
90	Arsenic		ug/dscm	y	nd	0	nd	0	nd	0		0
91	Barium		ug/dscm	y		883		904		709		832
92	Berylilium		ug/dscm	y		0.13		0.04		0.03		0.07
93	Cadmium		ug/dscm	y		15		10		14		13.26
94	Chromium		ug/dscm	y		474		655		309		479
95	Chromium +6		ug/dscm	y		78		67		94		80
96	Lead		ug/dscm	y		83		42		43		56
97	Mercury		ug/dscm	y		3744		4632		4367		4247
98	Nickel		ug/dscm	y		68		70		49		62
99	Selenium		ug/dscm	y		62		73		99		78
100	Silver		ug/dscm	y		36		29		34		33
101	Thallium		ug/dscm	y		1066		1162		1261		1163
102	Zinc		ug/dscm	y		395		356		173		308
103												
104	SVM		ug/dscm	y		98.1		52.9		57.2		69
105	LVM		ug/dscm	y		83		42		43		56

	B	C	D	E	F	G	H	I	J	K	L	M
1	**Stack Gas Emissions 2**											
2												
3	**492C1**					R1		R2		R3		Cond Avg
4												
5	Chlorobenzene	DRE	%			99.9996		99.9997		99.9996		
6	Chloroform	DRE	%			99.9983		99.9947		99.9983		
7												
8	PM		gr/dscf	y		0.0096		0.011		0.013		
9	HCl		lb/hr			0.07		0.1		0.11		
10	Cl2		lb/hr		nd	0	nd	0	nd	0		
11												
12	CO		ppmv			2.4		4.9		10		
13	HC		ppmv			2.29		2.59		1.8		
14	CO		ppmv	y		2.8		5.9		13.3		
15	HC		ppmv	y		2.7		3.1		2.4		
16												
17	HCl		ppmv	y		1.9		2.7		3.2		
18	Cl2		ppmv	y		0.0		0.0		0.0		
19	Total Cl		ppmv	y		1.9		2.7		3.2		
20												
21	Sb		ug/dscf	n		0.100		0.100		0.100		
22	As		ug/dscf	n	nd	0.050	nd	0.050	nd	0.050		
23	Ba		ug/dscf	n		0.100		0.100		0.100		
24	Be		ug/dscf	n		0.010		0.010		0.010		
25	Cd		ug/dscf	n		0.010		0.010		0.030		
26	Cr		ug/dscf	n		0.100		0.100		0.100		
27	Pb		ug/dscf	n		0.200		0.100		0.100		
28	Hg		ug/dscf	n		0.200		0.100		0.100		
29	Ag		ug/dscf	n		0.030		0.060		0.020		
30	Tl		ug/dscf	n		0.100		0.100		0.100		
31												
32	Sb		ug/dscm	y		4.092		4.243		4.685		
33	As		ug/dscm	y		2.046		2.121		2.342		
34	Ba		ug/dscm	y		4.092		4.243		4.685		
35	Be		ug/dscm	y		0.409		0.424		0.468		
36	Cd		ug/dscm	y		0.409		0.424		1.405		
37	Cr		ug/dscm	y		4.092		4.243		4.685		
38	Pb		ug/dscm	y		8.184		4.243		4.685		
39	Hg		ug/dscm	y		8.184		4.243		4.685		
40	Ag		ug/dscm	y		1.228		2.546		0.937		
41	Tl		ug/dscm	y		4.092		4.243		4.685		
42												
43	SVM		ug/dscm	y		8.593		4.667		6.090		
44	LVM		ug/dscm	y		6.547		6.788		7.495		
45												
46	Sampling Train	PM										
47	Stack Gas Flowrate					7563		7924		8098		
48	Oxygen					8.91		9.34		10.44		
49	Moisture					44.6		44.2		42.1		
50	Temperature					174.7		177.8		173		
51												
52	**492C2**					R1		R2		R3		Cond Avg
53												
54	Chlorobenzene	DRE	%			99.9996		99.9997		99.9997		
55	Chloroform	DRE	%			99.998		99.9982		99.996		
56												
57	PM		gr/dscf	y		0.0058		0.0106		0.009		
58	HCl		lb/hr			0.24		0.14		0.14		
59	Cl2		lb/hr		nd	0	nd	0	nd	0		
60												
61	CO					26		25.6		26.3		
62	HC		ppmv			0.99		1.38		1.68		
63	CO		ppmv	y		23.2		25.7		27.3		
64	HC		ppmv	y		0.9		1.4		1.7		
65												
66	HCl		ppmv	y		5.6		3.7		3.9		
67	Cl2		ppmv	y		0.0		0.0		0.0		
68	Total Cl		ppmv	y		5.6		3.7		3.9		
69												
70	Sampling Train	PM										
71	Stack Gas Flowrate					6857		6759		6675		

	B	C	D	E	F	G	H	I	J	K	L	M
72	Oxygen					5.32		7.03		7.53		
73	Moisture					54.9		52.7		51.3		
74	Temperature					184.8		181.7		180.7		
75												
76	Sb		ug/dscf	n	nd	0.100	nd	0.100	nd	0.100		
77	As		ug/dscf	n	nd	0.040	nd	0.060	nd	0.060		
78	Ba		ug/dscf	n		0.200		0.100		0.100		
79	Be		ug/dscf	n		0.010		0.010		0.000		
80	Cd		ug/dscf	n		0.030		0.030		0.070		
81	Cr		ug/dscf	n		0.300		0.200		0.200		
82	Pb		ug/dscf	n		1.200		1.400		1.700		
83	Hg		ug/dscf	n		0.100		0.100		0.100		
84	Ag		ug/dscf	n	nd	0.020	nd	0.020	nd	2.000		
85	Tl		ug/dscf	n	nd	0.100	nd	0.100	nd	0.100		
86												
87	Sb		ug/dscm	y		3.155		3.541		3.673		
88	As		ug/dscm	y		1.262		2.125		2.204		
89	Ba		ug/dscm	y		6.310		3.541		3.673		
90	Be		ug/dscm	y		0.315		0.354		0.000		
91	Cd		ug/dscm	y		0.946		1.062		2.571		
92	Cr		ug/dscm	y		9.465		7.082		7.345		
93	Pb		ug/dscm	y		37.860		49.576		62.434		
94	Hg		ug/dscm	y		3.155		3.541		3.673		
95	Ag		ug/dscm	y		0.631		0.708		73.452		
96	Tl		ug/dscm	y		3.155		3.541		3.673		
97												
98	SVM		ug/dscm	y		38.806		50.639		65.005		
99	LVM		ug/dscm	y		11.042		9.561		9.549		
100												
101	**492C3**					R1		R2		R3		Cond Avg
102												
103	Chlorobenzene	DRE	%			99.9995		99.9996		99.9997		
104	Chloroform	DRE	%			99.9976		99.9985		99.9968		
105												
106	PM		gr/dscf	y		0.0076		0.0046		0.0125		
107												
108	CO		ppmv			70.2		67.8		71.2		
109	HC		ppmv			1.48		2.08		1.78		
110	CO		ppmv	y		92.8		84.4		90.0		
111	HC		ppmv	y		2.0		2.6		2.2		
112												
113												
114	Sampling Train	PM										
115	Stack Gas Flowrate					7400		7704		8082		
116	Oxygen					10.41		9.76		9.92		
117	Moisture					42.5		44.3		43.9		
118	Temperature					172.7		174.8		173.8		
119												
120	Sb		ug/dscf	n	nd	0.100	nd	0.100	nd	0.100		
121	As		ug/dscf	n	nd	0.050	nd	0.050	nd	0.050		
122	Ba		ug/dscf	n		0.100		0.100		0.100		
123	Be		ug/dscf	n		0.010		0.010		0.010		
124	Cd		ug/dscf	n		0.010		0.010		0.030		
125	Cr		ug/dscf	n		0.100		0.100		0.100		
126	Pb		ug/dscf	n		0.200		0.100		0.100		
127	Hg		ug/dscf	n		0.200		0.100		0.100		
128	Ag		ug/dscf	n	nd	0.030	nd	0.060	nd	0.020		
129	Tl		ug/dscf	n	nd	0.100	nd	0.100	nd	0.100		
130												
131	Sb		ug/dscm	y		4.671		4.401		4.465		
132	As		ug/dscm	y		2.336		2.201		2.232		
133	Ba		ug/dscm	y		4.671		4.401		4.465		
134	Be		ug/dscm	y		0.467		0.440		0.446		
135	Cd		ug/dscm	y		0.467		0.440		1.339		
136	Cr		ug/dscm	y		4.671		4.401		4.465		
137	Pb		ug/dscm	y		9.343		4.401		4.465		
138	Hg		ug/dscm	y		9.343		4.401		4.465		
139	Ag		ug/dscm	y		1.401		2.641		0.893		
140	Tl		ug/dscm	y		4.671		4.401		4.465		
141												
142	SVM		ug/dscm	y		9.810		4.841		5.804		

	B	C	D	E	F	G	H	I	J	K	L	M
143	LVM		ug/dscm	y		7.474		7.042		7.144		

	B	C	D	E	F	G	H	I	J	K	L	M
1	**Feedstream 1**											
2												
3												
4	**492C10**	**Trial burn - min temp/l**		7%O2		R1		R2		R3		Cond Avg
5												
6	Feedstream Description					Total		Total		Total		Total
7	Feed Rate		lb/hr			14032		14645		14431		14369
8	Ash		lb/hr			751		802		843		798.67
9	Chlorine		lb/hr			47		51		31		43
10	Thermal Feedrate		MMBtu/hr			20.0		23.0		20.8		21
11												
12	Stack Gas Flowrate		dscfm			11237		11377		11426		11347
13	Oxygen		%			12.4		12.4		12.2		12.3
14												
15	*Feedrate MTEC Calculations*											
16	Ash		mg/dscm	y		29090		30683		31383		30385
17	Chlorine		ug/dscm	y		1822998		1946557		1161513		1.64E+06
18												
19	**492C11**	**Trial burn - worst-case metals**				R1		R2		R3		Cond Avg
20												
21	Feedstream Description					Total		Total		Total		Total
22	Feed Rate		lb/hr			8969		8992		9005		8989
23	Ash		lb/hr			361		344		327		344
24	Chlorine		lb/hr			1.8		1.8		1.8		2
25												
26												
27	Antimony		lb/hr			0.54		0.54		0.53		0.54
28	Arsenic		lb/hr			0.0191		0.0185		0.0185		0.019
29	Barium		lb/hr			1.24		1.21		1.21		1.2
30	Berylilium		lb/hr			3.99E-03		3.41E-03		3.56E-03		0.004
31	Cadmium		lb/hr			8.18E-03		8.06E-03		8.18E-03		0.008
32	Chromium		lb/hr			1.67		1.66		1.67		1.7
33	Lead		lb/hr			0.052		0.06		0.0521		0.055
34	Mercury		lb/hr			0.0967		0.0966		0.0966		0.10
35	Nickel		lb/hr			5.54		5.49		5.51		5.5
36	Selenium		lb/hr			0.1		0.101		0.101		0.10
37	Silver		lb/hr			0.156		0.155		0.157		0.16
38	Thallium		lb/hr			0.225		0.225		0.227		0.23
39	Zinc		lb/hr			7.81		7.65		7.91		7.79
40												
41												
42												
43	Stack Gas Flowrate		dscfm			11237		11377		11426		11347
44	Oxygen		%			12.4		12.4		12.2		12
45												
46	*Feedrate MTEC Calculations*											
47	Ash		mg/dscm	y		13983		13161		12174		13106
48	Chlorine		ug/dscm	y		69482		68803		67048		68444
49	Antimony		ug/dscm	y		20917		20583		19768		20422.45
50	Arsenic		ug/dscm	y		740		708		689		712
51	Barium		ug/dscm	y		48031		46292		45046		46456.16
52	Beryllium		ug/dscm	y		155		130		133		139.18
53	Cadmium		ug/dscm	y		317		308		305		309.91
54	Chromium		ug/dscm	y		64687		63508		62171		63455
55	Lead		ug/dscm	y		2014		2295		1940		2083.08
56	Mercury		ug/dscm	y		3746		3696		3596		3679.18
57	Selenium		ug/dscm	y		214589		210035		205126		209916.75
58	Silver		ug/dscm	y		3873		3864		3760		3832.50
59	Thallium		ug/dscm	y		6043		5930		5845		5939.11
60	Zinc		ug/dscm	y		8715		8608		8451		8591.33

	B	C	D	E	F	G	H	I	J	K	L	M
61												
62	SVM		ug/dscm	y		2331		2604		2244		2393
63	LVM		ug/dscm	y		65581		64346		62992		64306
64												
65												
66												
67												
68												
69												
70												
71												
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85												
86												

	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
1	**Feedstream 2**																		
2																			
3	**492C1**			R1	R2	R3	Cond Avg	R1	R2	R3	Cond Avg		R1		R2		R3		Cond Avg
4																			
5	Feedstream			Wastewater sludge				Liquid waste					Total						
6	Feedrate	lb/hr																	
7																			
8	Chlorine	lb/hr																	12.5
9	Ash	lb/hr																	1947
10																			
11	Aluminum	lb/hr										nd	7.9	nd	7.9	nd	7.9		
12	Antimony	lb/hr										nd	2.30E-02	nd	2.30E-02	nd	2.30E-02		
13	Arsenic	lb/hr										nd	1.60E-02	nd	1.60E-02	nd	1.60E-02		
14	Barium	lb/hr											2.10E-01		2.10E-01		2.10E-01		
15	Beryllium	lb/hr										nd	3.60E-02	nd	3.60E-02	nd	3.60E-02		
16	Cadmium	lb/hr										nd	1.20E-03	nd	1.20E-03	nd	1.20E-03		
17	Chromium	lb/hr										nd	2.40E-01	nd	2.40E-01	nd	2.40E-01		
18	Lead	lb/hr										nd	4.20E-02	nd	4.20E-02	nd	4.20E-02		
19	Mercury	lb/hr										nd	1.40E-03	nd	1.40E-03	nd	1.40E-03		
20	Silver	lb/hr										nd	7.80E-03	nd	7.80E-03	nd	7.80E-03		
21	Thallium	lb/hr										nd	3.10E-02	nd	3.20E-02	nd	3.20E-02		
22																			
23	Stack Gas Flowrate												7563		7924		8098		7862
24	Oxygen												8.91		9.34		10.44		10
25																			
26	*Feedrate MTEC Calculations*																		
27	Ash	mg/dscm																	81058
28	Chlorine	ug/dscm																	520406
29	Aluminum	ug/dscm										nd	323410	nd	320059	nd	345805		
30	Antimony	ug/dscm										nd	942	nd	932	nd	1007		
31	Arsenic	ug/dscm										nd	655	nd	648	nd	700		
32	Barium	ug/dscm											8597		8508		9192		
33	Beryllium	ug/dscm										nd	1474	nd	1458	nd	1576		
34	Cadmium	ug/dscm										nd	49	nd	49	nd	53		
35	Chromium	ug/dscm										nd	9825	nd	9723	nd	10505		
36	Lead	ug/dscm										nd	1719	nd	1702	nd	1838		
37	Mercury	ug/dscm										nd	57	nd	57	nd	61		29
38	Silver	ug/dscm										nd	319	nd	316	nd	341		
39	Thallium	ug/dscm										nd	1269	nd	1296	nd	1401		
40	SVM	ug/dscm											884		875		945		902
41	LVM	ug/dscm											5977		5915		6391		6094
42																			
43	**492C2**			R1	R2	R3	Cond Avg	R1	R2	R3	Cond Avg		R1		R2		R3		Cond Avg
44																			
45	Feedstream			Wastewater sludge				Liquid waste					Total						
46	Feedrate	lb/hr																	
47																			
48	Chlorine	lb/hr																	13.4
49	Ash	lb/hr																	4408
50																			
51	Aluminum	lb/hr										nd	13	nd	12	nd	12		
52	Antimony	lb/hr										nd	3.50E-02	nd	3.30E-02	nd	3.30E-02		
53	Arsenic	lb/hr										nd	2.40E-02	nd	2.20E-02	nd	2.20E-02		
54	Barium	lb/hr										nd	3.30E-02	nd	3.10E-01	nd	3.10E-01		
55	Beryllium	lb/hr										nd	5.50E-02	nd	5.10E-02	nd	5.10E-02		
56	Cadmium	lb/hr										nd	1.80E-03	nd	1.60E-03	nd	1.60E-03		
57	Chromium	lb/hr										nd	4.00E-01	nd	3.60E-01	nd	3.60E-01		
58	Lead	lb/hr										nd	8.20E-02	nd	7.60E-02	nd	7.60E-02		
59	Mercury	lb/hr										nd	1.60E-03	nd	1.50E-03	nd	1.50E-03		
60	Silver	lb/hr										nd	1.20E-02	nd	1.10E-02	nd	1.10E-02		

	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
61	Thallium	lb/hr										nd	4.70E-02	nd	4.40E-02	nd	4.40E-02		
62																			
63	Stack Gas Flowrate												6857		6759		6675		6764
64	Oxygen												5.32		7.03		7.53		7
65																			
66	*Feedrate MTEC Calculations*																		
67	Ash	mg/dscm																	169726
68	Chlorine	ug/dscm																	515954
69	Aluminum	ug/dscm										nd	452595	nd	475717	nd	499584		
70	Antimony	ug/dscm										nd	1219	nd	1308	nd	1374		
71	Arsenic	ug/dscm										nd	836	nd	872	nd	916		
72	Barium	ug/dscm											1149		12289		12906		
73	Beryllium	ug/dscm										nd	1915	nd	2022	nd	2123		
74	Cadmium	ug/dscm										nd	63	nd	63	nd	67		
75	Chromium	ug/dscm										nd	13926	nd	14272	nd	14988		
76	Lead	ug/dscm										nd	2855	nd	3013	nd	3164		
77	Mercury	ug/dscm										nd	56	nd	59	nd	62		30
78	Silver	ug/dscm										nd	418	nd	436	nd	458		
79	Thallium	ug/dscm										nd	1636	nd	1744	nd	1832		
80	SVM	ug/dscm											1459		1538		1615		1537
81	LVM	ug/dscm											8338		8583		9013		8645
82																			
83																			
84																			
85	**492C3**			R1	R2	R3	Cond Avg	R1	R2	R3	Cond Avg		R1		R2		R3		Cond Avg
86																			
87	Feedstream			Wastewater sludge				Liquid waste					Total						
88	Feedrate	lb/hr																	
89																			
90	Chlorine	lb/hr																	13.5
91	Ash	lb/hr																	3139
92																			
93	Aluminum	lb/hr										nd	11	nd	11	nd	11		
94	Antimony	lb/hr										nd	2.80E-02	nd	2.80E-02	nd	2.80E-02		
95	Arsenic	lb/hr										nd	1.90E-02	nd	1.90E-02	nd	1.90E-02		
96	Barium	lb/hr										nd	3.00E-01	nd	3.00E-01	nd	3.00E-01		
97	Beryllium	lb/hr										nd	4.90E-02	nd	4.90E-02	nd	4.90E-02		
98	Cadmium	lb/hr										nd	1.40E-03	nd	1.40E-03	nd	1.40E-03		
99	Chromium	lb/hr											3.80E-01		3.80E-01		3.80E-01		
100	Lead	lb/hr										nd	1.10E-01	nd	1.10E-01	nd	1.10E-01		
101	Mercury	lb/hr										nd	3.40E-04	nd	3.40E-04	nd	3.40E-04		
102	Silver	lb/hr										nd	9.40E-03	nd	9.40E-03	nd	9.40E-03		
103	Thallium	lb/hr										nd	4.20E-02	nd	4.20E-02	nd	4.20E-02		
104																			
105	Stack Gas Flowrate												7400		7704		8082		7729
106	Oxygen												10.41		9.76		9.92		10
107																			
108	*Feedrate MTEC Calculations*																		
109	Ash	mg/dscm																	138588
110	Chlorine	ug/dscm																	596031
111	Aluminum	ug/dscm										nd	382965	nd	436074	nd	457952		
112	Antimony	ug/dscm										nd	975	nd	1110	nd	1166		
113	Arsenic	ug/dscm										nd	661	nd	753	nd	791		
114	Barium	ug/dscm										nd	10444	nd	11893	nd	12490		
115	Beryllium	ug/dscm										nd	1706	nd	1943	nd	2040		
116	Cadmium	ug/dscm										nd	49	nd	56	nd	58		
117	Chromium	ug/dscm											13230		15064		15820		
118	Lead	ug/dscm										nd	3830	nd	4361	nd	4580		
119	Mercury	ug/dscm										nd	12	nd	13	nd	14		7
120	Silver	ug/dscm										nd	327	nd	373	nd	391		

	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
121	Thallium	ug/dscm										nd	1462	nd	1665	nd	1749		
122	SVM	ug/dscm											1939		2208		2319		2155
123	LVM	ug/dscm											14413		16412		17236		16020

	B	C	D	E
1	**Process Information**			
2				
3	**492C10**	Trial burn - mir	Cond Avg	
4				
5	Comb Chamb (freeboard) Temp	^{o}F		1617
6	Venturi pressure drop	in H2O		22
7	Venturi water flow	gpm		253
8	Scrubber water pH			6.7
9	Scrubber water flow	gpm		134
10	Scrubber blowdown	gpm		33
11				
12	**492C11**	Trial burn - wo	Cond Avg	
13				
14	Comb Chamb (freeboard) Temp	^{o}F		1744
15	Venturi pressure drop	in H2O		20
16	Venturi water flow	gpm		243
17	Scrubber water pH			6.9
18	Scrubber water flow	gpm		134
19	Scrubber blowdown	gpm		30

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
1	**PCDD/PCDF**																		
2																			
3	Facility Name and ID:		Texas Eastman																
4	Condition ID:		**492C10**		Trial burn - min temp/DRE														
5	Condition/Test Date:		Risk burn, Oct 1, 1998																
6																			
7			I-TEF			Run 1				Run 2				Run 3					
8			Wght Fact		Total	Total	TEQ		Total	Total	TEQ		Total	Total	TEQ				
9						1/2 ND	1/2 ND			1/2 ND	1/2 ND			1/2 ND	1/2 ND				
10	Detected in sample volume (pg)																		
11		2,3,7,8-TCDD	1	nd	6.5	3.25	3.25	nd	6.5	3.25	3.25	nd	8	4	4				
12		Total TCDD	0		100	100	0		43	43	0.00		34	34	0				
13		1,2,3,7,8-PCDD	0.5		9.9	9.90	4.95	nd	6	3.00	1.50	nd	6.6	3	2				
14		Total PCDD	0		120	120	0		57	57	0.00		33	33	0				
15		1,2,3,4,7,8-HxCDD	0.1		22	22.00	2.20	nd	8.3	4.15	0.42	nd	7.6	4	0				
16		1,2,3,6,7,8-HxCDD	0.1		32	32.00	3.20	nd	6.8	3.40	0.34	nd	6.2	3	0				
17		1,2,3,7,8,9-HxCDD	0.1		24	24.00	2.40	nd	6.7	3.35	0.34	nd	6.1	3	0				
18		Total HxCDD	0		300	300	0		77	77	0.00		70	70	0				
19		1,2,3,4,6,7,8-HpCDD	0.01		230	230.00	2.30		36	36.00	0.36		37	37	0				
20		Total HpCDD	0		410	410	0		73	73	0.00		80	80	0				
21		OCDD	0.001		610	610.00	0.61		100	100	0.10		150	150	0				
22		2,3,7,8-TCDF	0.1		98	98.00	9.80		50	50	5.00		58	58	6				
23		Total TCDF	0		1900	1900	0		1100	1100	0.00		1200	1200	0				
24		1,2,3,7,8-PCDF	0.05		99	99	5		27	27	1.35		27	27	1				
25		2,3,4,7,8-PCDF	0.5		120	120	60		34	34	17.00		37	37	19				
26		Total PCDF	0		1200	1200	0		390	390	0.00		430	430	0				
27		1,2,3,4,7,8-HxCDF	0.1		430	430	43		42	42	4.20		30	30	3				
28		1,2,3,6,7,8-HxCDF	0.1		340	340	34		39	39	3.90		26	26	3				
29		2,3,4,6,7,8-HxCDF	0.1		270	270	27		35	35	3.50		25	25	3				
30		1,2,3,7,8,9-HxCDF	0.1		92	92	9		13	13	1.30		11	11	1				
31		Total HxCDF	0		2900	2900	0		300	300	0.00		190	190	0				
32		1,2,3,4,6,7,8-HpCDF	0.01		4100	4100	41		310	310	3.10		230	230	2				
33		1,2,3,4,7,8,9-HpCDF	0.01		630	630	6		44	44	0.44		49	49	0				
34		Total HpCDF	0		6200	6200	0		480	480	0.00		380	380	0				
35		OCDF	0.001		6700	6700	7		400	400	0.40		540	540	1				
36																			
37		Gas sample volume (dscf)				109.52	109.52			107.005	107.005			111.854	111.854				
38		O2 (%)				8.80	8.80			9.9	9.9			9	9				
39																			
40		PCDD/PCDF (ng in sample)				20.4	0.261			3.0	0.046			3.1	0.05				
41		PCDD/PCDF (ng/dscm @ 7% O2)				7.568	0.097			1.26	0.02			1.15	0.02				
42																			
43		TEQ Cond Avg	0.04																
44		Total Cond Avg	3.3																