	B	C
1	**Source Description**	
2		
3	Phase I ID No.	476
4	EPA ID No.	VAD042755082
5	Facility Name	Solite Corp
6	Facility Location	
7	City	Arvonia
8	State	Virginia
9	Unit ID Name/No.	Kiln # 6
10	Other Sister Facilities	
11	Number of Sister Facilities	0
12	Combustor Class	Lightweight Aggregate Kiln (LWAK)
13	Combustor Type	
14	Combustor Characteristics	
15	Capacity (MMBtu/hr)	
16	Soot Blowing	
17	APCS Detailed Acronym	WQ/FF
18	APCS General Class	WQ, FF
19	APCS Characteristics	Water quench, fabric filter
20	Hazardous Wastes	Liq
21	Haz Waste Description	The raw material was excavated from the Solite Arvonia quarry
22	Supplemental Fuel	
23		
24	Stack Characteristics	
25	Diameter (ft)	
26	Height (ft)	
27	Gas Velocity (ft/sec)	
28	Gas Temperature (°F)	
29		
30	Permitting Status	Tier III for As, Be, Cd, Cr, Pb; Tier I for Hg, Sb, Ba, Ag, Tl
31	HWC Burn Status (Date if Terminated)	

	B	C
1	**Condition Description**	
2		
3	**476C10**	
4		
5	Report Name/Date	Trial Burn Report, Solite Corporation, A. F. Old Facility, Arvonia, Virginia, March 2000; Entropy Stationary Sampling Report, Reference No. 1702, Solite Corp Arvonia, VA, November and December 1999
6	Report Preparation	Solite/Entropy/Blue Ridge
7	Testing Firm	Entropy
8	Testing Dates	December 1-2, 1999
9	Cond Dates	Dec-99
10	Condition Descr	Trial Burn, organics DRE, HCl/Cl2 emissions limits
11	Content	HC/CO, PM, HCl/Cl2, POHC DRE, PCCD/F
12		
13	**476C11**	
14		
15	Report Name/Date	Trial Burn Report, Solite Corporation, A. F. Old Facility, Arvonia, Virginia, March 2000; Entropy Stationary Sampling Report, Reference No. 1702, Solite Corp Arvonia, VA, November and December 1999
16	Report Preparation	Solite/Entropy/Blue Ridge
17	Testing Firm	Entropy
18	Testing Dates	November 30, 1999
19	Cond Dates	Dec-99
20	Condition Descr	CoC, high temperature metals and chlorine testing
21	Content	Metals, HCl/Cl2, PM, HC/CO
22		
23	**476C1**	
24		
25	Report Name/Date	Stationary Source Sampling Report Reference No. 11438, Solite Corporation, Arvonia, Virginia, Prepared by Entropy, February 1993; COC Forms attached, dated January 28, 1994
26	Report Prepare	Entropy
27	Testing Firm	Entropy
28	Cond Descr	?
29	Testing Dates	February 23, 1993
30	Cond Dates	Feb-93

	B	C	D	E	F	G	H	I	J	K	L	M
1	**Stack Gas Emissions 1**											
2												
3	**476C10**	Trial Burn				R1		R2		R3		Cond Avg
4												
5	PM	E1	gr/dscf	y		0.0114		0.0157		0.011		0.0127
6	HC (RA)	E1	ppmv	y		0.6		0.5		0.5		0.5
7	CO (RA)	E1	ppmv	y		3.98		8.26		2.65		5.0
8	CO (MHRA)	E1	ppmv	y		9.25		11.18		5.42		8.6
9	HCl	E1	ppmv	y		1219		3125		2892		2412
10	Cl2	E1	ppmv	y		0.583		0.92		13.3		4.93
11	Total Chlorine	E1	ppmv	y		1220.2		3126.8		2918.6		2421.9
12												
13	POHC DRE	Perchloroethylene										
14	POHC Feedrate		lb/hr			36.28		36.28		36.28		36.28
15	Emission Rate	E2	lb/hr			0.000513		0.000433		0.000551		0.000499
16	DRE	E2	%			99.99859		99.99881		99.99848		
17												
18	POHC DRE	1,2,4 Trichlorobenzene										
19	POHC Feedrate		lb/hr			36.25		36.25		36.25		36.25
20	Emission Rate	E2	lb/hr			0.00061		0.000634		0.000482		0.000575
21	DRE	E2	%			99.99832		99.99825		99.99867		
22												
23	Sampling Train	PM, HCl/Cl2	E1									
24	Stack Gas Flowrate		dscfm			25681		25535		24099		25105
25	O2		%			16.2		16.5		16		16.2
26	Moisture		%			7.1		7.6		7.8		7.5
27	Temperature		°F			285		295		296		292
28												
29	Sampling Train	D/F	E2									
30	Stack Gas Flowrate		dscfm			26792		25376		24598		25589
31	O2		%			16.5		16.3		16		16.3
32	Moisture		%			4.3		4.4		5.1		4.6
33	Temperature		°F			281		295		305		294
34												
35	**476C11**	CoC				R1		R2		R3		Cond Avg
36												
37	PM	E1	gr/dscf	y		0.0347		0.00964		0.0269		0.0237
38	HC (RA)	E1	ppmv	y		0.2		0.2		0.2		0.2
39	HC (MHRA)	E1	ppmv	y		1		0.5		0.3		0.6
40	CO (RA)	E1	ppmv	y		10.06		0.58		0.03		3.6
41	CO (MHRA)	E1	ppmv	y		28.3		1.54		0.08		10.0
42	HCl	E1	ppmv	y		1196		1012		1036		1081.3
43	Cl2	E1	ppmv	y		2.81		0.144		1.33		1.4
44	Total Chlorine	E1	ppmv	y		1201.6		1012.3		1038.7		1084.2
45												
46	Antimony		lb/hr			8.50E-04		4.79E-04		3.70E-04		
47	Arsenic		lb/hr			2.06E-03		1.57E-03		5.14E-04		
48	Barium		lb/hr			2.46E-03		8.14E-04		1.73E-03		
49	Beryllium		lb/hr			7.66E-05		6.80E-05		1.32E-04		
50	Cadmium		lb/hr			0.00154		0.00192		0.00278		
51	Chromium		lb/hr			7.04E-04		1.17E-03		9.68E-04		
52	Chromium (Hex)		lb/hr			4.92E-04		4.72E-04		6.00E-04		
53	Cobalt		lb/hr		nd	2.08E-04	nd	2.40E-04	nd	2.53E-04		
54	Copper		lb/hr			0.00169		0.00104		0.0014		
55	Lead		lb/hr			0.0112		0.0138		0.0191		
56	Mercury		lb/hr			7.08E-05	nd	1.77E-04		1.14E-04		
57	Nickel		lb/hr			2.29E-04		8.62E-04		3.33E-04		
58	Selenium		lb/hr		nd	5.41E-05	nd	6.23E-05	nd	5.89E-05		
59	Silver		lb/hr		nd	1.25E-04	nd	1.44E-04	nd	1.68E-04		
60	Thallium		lb/hr			3.33E-05		7.66E-05		6.74E-05		
61	Zinc		lb/hr			0.0332		0.0401		0.0397		
62												
63	Sampling Train	PM, HCl/Cl2	E1									
64	Stack Gas Flowrate		dscfm			24948		23017		23025		23663
65	O2		%			15.9		15.2		15.2		15.4
66	Moisture		%			5.5		7.1		7.1		6.6
67	Temperature		°F			278		292		304		291
68												
69	Sampling Train	Metals	E2									
70	Stack Gas Flowrate		dscfm			23983		23402		23507		23630.7
71	O2		%			15.9		15.2		15.2		15.4

	B	C	D	E	F	G	H	I	J	K	L	M
72	Moisture		%			6.5		8.4		8.3		7.7
73	Temperature		°F			280		298		300		292.7
74												
75	Antimony	E2	ug/dscm	y		26.0		13.2		10.2		16.46
76	Arsenic	E2	ug/dscm	y		63.0		43.3		14.1		40.15
77	Barium	E2	ug/dscm	y		75.3		22.4		47.5		48.41
78	Beryllium	E2	ug/dscm	y		2.3		1.9		3.6		2.61
79	Cadmium	E2	ug/dscm	y		47.1		53.0		76.3		58.80
80	Chromium	E2	ug/dscm	y		21.5		32.3		26.6		26.80
81	Chromium (Hex)	E2	ug/dscm	y		15.1		13.0		16.5		14.85
82	Cobalt	E2	ug/dscm	y	nd	6.4	nd	6.6	nd	6.9		6.64
83	Copper	E2	ug/dscm	y		51.7		28.7		38.4		39.61
84	Lead	E2	ug/dscm	y		342.8		380.6		524.4		415.91
85	Mercury	E2	ug/dscm	y		2.2	nd	4.9		3.1		3.39
86	Nickel	E2	ug/dscm	y		7.0		23.8		9.1		13.31
87	Selenium	E2	ug/dscm	y	nd	1.7	nd	1.7	nd	1.6		1.66
88	Silver	E2	ug/dscm	y	nd	3.8	nd	4.0	nd	4.6		4.14
89	Thallium	E2	ug/dscm	y		1.0		2.1		1.9		1.66
90	Zinc	E2	ug/dscm	y		1016.0		1105.9		1090.0		1070.63
91												
92	LVM	E2	ug/dscm	y		86.9		77.4		44.3		69.6
93	SVM	E2	ug/dscm	y		389.9		433.5		600.7		474.7

	B	C	D	E	F	G	H	I	J	K	L	M
1	**Stack Gas Emissions 2**											
2												
3	**476C1**					R1		R2		R3		Cond Avg
4												
5	PM	E1	gr/dscf			0.01080		0.01960		0.02970		0.02003
6	CO (MHRA)	E1	ppmv			10.20		7.20		11.90		9.8
7	CO (RA)	E1	ppmv			7.50		6.80		8.70		7.7
8	HCl	E1	ppmv			1617.00		1619.00		1618.00		1618.0
9	Cl2	E1	ppmv			1.25		0.29		0.40		0.6
10	Total Chlorine	E1	ppmv			1619.50		1619.58		1618.80		1619.3
11	Antimony	E2	ug/dscm			26.96		20.14		23.09		23.4
12	Arsenic	E2	ug/dscm			42.88		51.28		52.08		48.7
13	Barium	E2	ug/dscm			47.17		56.08		54.41		52.6
14	Beryllium	E2	ug/dscm			15.79		4.14		5.21		8.4
15	Cadmium	E2	ug/dscm			467.10		172.89		132.94		257.6
16	Chromium	E2	ug/dscm			50.35		53.42		56.95		53.6
17	Chromium (Hex)	E3	ug/dscm			30.21		17.84		24.39		24.1
18	Lead	E2	ug/dscm			263.11		666.95		842.89		591.0
19	Mercury	E2	ug/dscm			18.19		100.37		21.93		46.83
20	Silver	E2	ug/dscm		nd	2.92	nd	2.72		3.29		3.0
21	Thallium	E2	ug/dscm			9.16		4.60		2.67		5.5
22	SVM	E2	ug/dscm			730.21		839.84		975.84		848.63
23	LVM	E2	ug/dscm			109.01		108.85		114.24		110.70
24												
25	Sampling Train	Halogens	E1									
26	Stack Gas Flowrate		dscfm			22681		23342		23666		
27	O2		%			15.5		15.6		15.8		
28	Moisture		%			6.6		6.1		5.9		
29	Temperature		°F			323		329		329		
30												
31	Sampling Train	Metals	E2									
32	Stack Gas Flowrate		dscfm			22649		23565		22687		
33	O2		%			15.4		15.6		15.7		
34	Moisture		%			6.5		5.1		6.7		
35	Temperature		°F			325		322		329		
36												
37	Sampling Train	Cr Hex	E3									
38	Stack Gas Flowrate		dscfm			21446		22049		24887		
39	O2		%			15.4		15.6		16		
40	Moisture		%			11.3		8.3		7.3		
41	Temperature		°F			324		325		335		

	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
1	**Feedstream 1**																												
2																													
3																													
4	**476C10**	Trial burn			R1		R2		R3		R1		R2		R3		R1		R2		R3		R1		R2		R3		Cond Avg
5																													
6	Feedstream Number																						F1		F1		F1		F1
7	Feed Class																						Total		Total		Total		Total
8	Feed Class 2				RM		RM		RM		HW		HW		HW		Spike		Spike		Spike		Total		Total		Total		Total
9	Feedstream Description				Raw Matl		Raw Matl		Raw Matl		LBM		LBM		LBM		Spike		Spike		Spike		Total		Total		Total		Total
10	Feed Rate		lb/min								44.47		46.4		44.55														
11	Density		g/cc																										
12	Heating Value		Btu/lb								10418		10418		10418														
13	Chlorine		%																										
14																													
15	Chlorine		g/hr																										29585
16																													
17	Stack Gas Flowrate		dscfm		25681		25535		24099		25681		25535		24099		25681		25535		24099		25681		25535		24099		25105
18	Oxygen		%		16.2		16.5		16.0		16.2		16.5		16		16.2		16.5		16		16.2		16.5		16		16
19																													
20	Thermal Feedrate		MMBtu/hr								27.8		29.0		27.8								27.8		29.0		27.8		28
21	Estimated Firing Rate		MMBtu/hr																				39.13		36.48		38.25		38
22																													
23	*Feedrate MTEC Calculations*																												
24	Chlorine		ug/dscm																										2038388
25																													
26	**476C11**	CoC			R1		R2		R3		R1		R2		R3		R1		R2		R3		R1		R2		R3		Cond Avg
27																													
28	Feedstream Number				F1		F1		F1		F2		F2		F2		F3		F3		F3		F4		F4		F4		F4
29	Feed Class				Raw Material		Raw Material		Raw Material		Liq HW		Liq HW		Liq HW		Spike		Spike		Spike		Total		Total		Total		Total
30	Feed Class 2				RM		RM		RM		HW		HW		HW		Spike		Spike		Spike		Total		Total		Total		Total
31	Feedstream Description				Raw Matl		Raw Matl		Raw Matl		LBM		LBM		LBM		Spike		Spike		Spike		Total		Total		Total		Total
32	Feed Rate		lb/hr		23100		23500		23700		3117		3217.2		3221.4		210.5		226.3		240.7		26428		26944		27162		26844
33	Density		g/cc								0.936		0.901		0.901														
34	Heating Value		Btu/lb								11156		11765		11661														
35																													
36	Ash		%								0.78		0.73		1.06														
37	Chlorine		g/hr	nd	3667.4	nd	3944.1	nd	3655.1		5688.63		5837.3		4231.3		21798.5		21814		21802.4		31154		31595		29689		
38																													
39	Antimony		g/hr	nd	3.143	nd	3.198	nd	3.225	nd	2.0	nd	2.0	nd	2.2								5.1		5.2		5.4		
40	Arsenic		g/hr		175.0		165.190		162.330	nd	0.7	nd	0.9	nd	0.9		467.4		721.51		991.07		643.1		887.6		1154.3		
41	Barium		g/hr		178.1		174.4		161.3		58.27		55.45		58.36								236		230		220		
42	Beryllium		g/hr		4.400		5.540		4.190	nd	0.03	nd	0.03	nd	0.03		113.64		116.45		108.5		118.1		122.0		112.7		
43	Cadmium		g/hr		0.460		0.630		0.510		0.36		0.36		0.38		637.58		657.76		658.15		638.4		658.8		659.0		
44	Chromium		g/hr		275.6		282.16		252.63		4.58		4.67		4.67		1566.85		1611.75		1536.28		1847		1899		1794		
45	Lead		g/hr		186.51		177.51		250.48		4.99		5.69		5.98		4962		5317		5302		5154		5500		5558		
46	Mercury		g/hr	nd	1.048	nd	1.066	nd	1.075	nd	0.14	nd	0.15	nd	0.15								1.189		1.212		1.221		
47	Nickel		g/hr		482.0		479.682		494.515		4.95		4.38		4.53								486.9		484.1		499.0		
48	Silver		g/hr	nd	10.478	nd	10.660	nd	10.750	nd	1.42		2.04	nd	1.46								11.89		12.70		12.21		
49	Thallium		g/hr	nd	10.478	nd	10.660	nd	10.750	nd	1.42	nd	1.46	nd	1.46								11.89		12.12		12.21		
50																													
51	Stack Gas Flowrate		dscfm		23983		23402		23507		23983		23402		23507		23983		23402		23507		23983		23402		23507		23631
52	Oxygen		%		15.9		15.2		15.2		15.9		15.2		15.2		15.9		15.2		15.2		15.9		15.2		15.2		15
53																													
54	Thermal Feedrate		MMBtu/hr								34.8		37.9		37.6								34.8		37.9		37.6		37
55	Estimated Firing Rate		MMBtu/hr																				38.83		43.09		43.28		42
56																													
57	*Feedrate MTEC Calculations*																												
58	Ash		mg/dscm								744		648		938														

	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
9	Chlorine		ug/dscm	100	247212	100	239581	100	221037		383464		354586		255882		1469411		1325088		1318468	12	2100087	12	1919255	12	1795386	12	1938243
0																													
1	Antimony		ug/dscm	100	212	100	194	100	195	100	134	100	124	100	133		0		0		0	100	345	100	318	100	328	100	331
2	Arsenic		ug/dscm		11796		10034		9817	100	48	100	53	100	53		31507		43828		59933		43350		53916		69803		55690
3	Barium		ug/dscm		12008		10596		9751		3928		3368		3529		0		0		0		15935		13964		13281		14393
4	Beryllium		ug/dscm		297		337		253	100	2	100	2	100	2		7660		7074		6561		7959		7412		6817		7396
5	Cadmium		ug/dscm		31		38		31		24		22		23		42979		39956		39801		43034		40016		39854		40968
6	Chromium		ug/dscm		18577		17140		15277		309		284		282		105619		97905		92904		124505		115329		108464		116099
7	Lead		ug/dscm		12572		10783		15147		336		346		362		334483		322980		320631		347391		334109		336140		339213
8	Mercury		ug/dscm	100	71	100	65	100	65	100	10	100	9	100	9		0		0		0	100	80.2	100	73.6	100	73.9	100	76
9	Nickel		ug/dscm		32491		29138		29905		334		266		274		0		0		0		32825		29404		30179		30803
0	Silver		ug/dscm	100	706	100	648	100	650	100	95	100	124	100	88		0		0		0	100	802	100	771	100	739	100	771
1	Thallium		ug/dscm	100	706	100	648	100	650	100	95	100	89	100	88		0		0		0	100	802	100	736	100	739	100	759
2																													
3	SVM		ug/dscm		12603		10821		15178		361		368		385		377461		362936		360431		390425		374124		375994		380181
4	LVM		ug/dscm		30669		27511		25347		358		339		337		144787		148807		159399		175814		176657		185084		179185

	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	**Feedstream 2**																								
2																									
3																									
4	**476C1**				R1		R2		R3		R1		R2		R3		R1		R2		R3		R1		R2
5																									
6	Feedstream Number				F1		F1		F1		F2		F2		F2		F3		F3		F3		F4		F4
7	Feed Class				Raw Material		Raw Material		Raw Material		Spike		Spike		Spike		Liq HW		Liq HW		Liq HW		Total		Total
8	Feed Class 2				RM		RM		RM		Spike		Spike		Spike		HW		HW		HW		Total		Total
9	Feedstream Description				Raw Material		Raw Material		Raw Material		Spike		Spike		Spike		Waste		Waste		Waste		Total		Total
10	Feedrate		lb/hr		20502		19442		19886		25.6		30.4		30.1		3274.9		3272.6		3265.8				
11	Heating value		Btu/lb								0		0		0		10504		19098		10441				
12	Thermal Feedrate		MMBtu/hr														34.4		62.5		34.1		34.4		62.5
13	Chlorine		lb/hr		5.3462		5.1601		5.0640								73.5805		69.4167		68.7875				
14	Antimony		lb/hr		0		0		0								0.0820		0.0134		0.0066				
15	Arsenic		lb/hr		0.4707		0.5564		0.4026		0.5690		0.5650		0.5597		0.0152	1	0.0053	1	0.0053				
16	Barium		lb/hr		0.3937		0.2835		0.1755								0.7573		0.0661		0.1105				
17	Beryllium		lb/hr		0.0293		0.0276		0.0262		0.0619		0.1199		0.1140	1	0.0031	1	0.0033	1	0.0031				
18	Cadmium		lb/hr		0.2105		0.3142		0.2101		1.7240		1.7500		1.7249		0.0659		0.0439		0.0439				
19	Chromium		lb/hr		0.3177		0.4777		0.1188		1.0628		1.1294		1.1541		0.5179		0.0582		0.0882				
20	Chromium (Hex)		lb/hr								1.0628		1.1294		1.1541										
21	Lead		lb/hr		0.4217		0.4808		0.5004		22.1787		26.8225		26.5745		0.6162		0.0540		0.1131				
22	Mercury		lb/hr	1	0.0016	1	0.0016	1	0.0018							1	0.0002	1	0.0002	1	0.0002				
23	Silver		lb/hr		0		0		0								0.0168	1	0.0108		0.0108				
24	Thallium		lb/hr		0		0		0							1	0.0022	1	0.0022	1	0.0022				
25																									
26	Gas flowrate				22649		23565		22687		22649		23565		22687		22649		23565		22687		22649		23565
27	Oxygen				15.4		15.6		15.7		15.4		15.6		15.7		15.4		15.6		15.7		15.4		15.6
28																									
29	Estimated Firing Rate		MMBtu/hr																				40.26		40.40
30																									
31	Feedrate MTECs																								
32	Chlorine		ug/dscm		157780		151790		157646		0		0		0		2171560		2041968		2141424		2329340		2193757
33	Antimony		ug/dscm		0		0		0		0		0		0		2420		396		206		2420		396
34	Arsenic		ug/dscm		13891		16368		12532		16793		16621		17426		449	100	156	100	165		31133	0.5	33145
35	Barium		ug/dscm		11620		8340		5463		0		0		0		22349		1946		3438		33970		10285
36	Beryllium		ug/dscm		865		811		817		1828		3528		3548	100	91	100	97	100	96	3.3	2785	2.2	4436
37	Cadmium		ug/dscm		6214		9241		6541		50880		51479		53697		1945		1291		1366		59039		62010
38	Chromium		ug/dscm		9376		14053		3699		31367		33223		35929		15283		1712		2745		56026		48988
39	Chromium (Hex)		ug/dscm		0		0		0		31367		33223		35929		0		0		0		31367		33223
40	Lead		ug/dscm		12447		14144		15579		654554		789013		827290		18185		1589		3521		685186		804746
41	Mercury		ug/dscm	100	48	100	48	100	57		0		0		0	100	7	100	6	100	7	100	55	100	55
42	Silver		ug/dscm		0		0		0		0		0		0		494	100	318		336		494	100	318
43	Thallium		ug/dscm		0		0		0		0		0		0	100	65	100	65	100	69	100	65	100	65
44	SVM		ug/dscm		18660		23385		22120		705434		840491		880987		20131		2879		4887		744225		866756
45	LVM		ug/dscm		24132		31232		17048		49988		53372		56902	0.6	15823	13	1965	8.7	3006	0.1	89944	0.3	86569

	B	AA	AB	AC	AD
1	**Feedstream 2**				
2					
3					
4	**476C1**		R3		Cond Avg
5					
6	Feedstream Number		F4		F4
7	Feed Class		Total		Total
8	Feed Class 2		Total		Total
9	Feedstream Descript		Total		Total
10	Feedrate				
11	Heating value				
12	Thermal Feedrate		34.1		43.67
13	Chlorine				
14	Antimony				
15	Arsenic				
16	Barium				
17	Beryllium				
18	Cadmium				
19	Chromium				
20	Chromium (Hex)				
21	Lead				
22	Mercury				
23	Silver				
24	Thallium				
25					
26	Gas flowrate		22687		22967
27	Oxygen		15.7		15.6
28					
29	Estimated Firing Rat		38.17		39.62
30					
31	Feedrate MTECs				
32	Chlorine		2299071		2274056
33	Antimony		206		1007
34	Arsenic	0.55	30122	0.3	31467
35	Barium		8901		17719
36	Beryllium	2.15	4461	2.4	3894
37	Cadmium		61604		60884
38	Chromium		42373		49129
39	Chromium (Hex)		35929		33506
40	Lead		846390		778774
41	Mercury	100	64	100	58
42	Silver		336	28	383
43	Thallium	100	69	100	66
44	SVM		907994		839658
45	LVM	0.34	76956	0.2	84490

	B	C	D	E	F	G	H	I
1	**Process Information**							
2		Units		R1	R2	R3	Cond Avg	
3								
4	**476C10**	Trial burn						
5								
6	Min mid kiln temp	°F		1085	1085	1054	1074.7	
7	Max kiln exit temp	°F		816	807	800	807.7	
8	Max baghouse inlet temp	°F		434	436	446	438.7	
9								
10	**476C11**	CoC						
11								
12	Max comb zone temperature	°F		2269	2527	2459	2418.3	
13	Max baghouse inlet temperature	°F		410	437	444	430.3	
14	Min. baghouse pressure drop	in. w.c.		2.45	3.09	3	2.8	
15	Kiln maximum negative pressure	in. w.c.		0.04	0.03	0.03	0.03	?

	C	D	E	F	G
1	**Process Information**				
2					
3	**476C1**		R1	R2	R3
4					
5	Combustion Temperature	F	2261.8	2252.6	2245.7
6	FF Temperature	F	430.7	430.7	430.7
7	FF Pressure Drop	in H2O	6.783	6.297	5.129

	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:		Solite Corp, Arvonia, VA, Lightweight Aggregate Kiln # 6															
4	Condition ID:		476C10 Trial Burn															
5	Condition/Test Date:		Dec-99															
6																		
7			I-TEF			Run 1					Run 2					Run 3		
8			Wght Fact		Total	TEQ	Total	TEQ		Total	TEQ	Total	TEQ		Total	TEQ	Total	TEQ
9					Full ND	Full ND	1/2 ND	1/2 ND		Full ND	Full ND	1/2 ND	1/2 ND		Full ND	Full ND	1/2 ND	1/2 ND
10	Detected in sample volume (ng)																	
11		2,3,7,8-TCDD	1		0.032	0.032	0.032	0.032		0.0478	0.048	0.048	0.048		0.0408	0.041	0.041	0.041
12		Other TCDD	0		0.348	0.000	0.348	0.000		0.4722	0.000	0.472	0.000		0.3392	0.000	0.339	0.000
13		1,2,3,7,8-PCDD	0.5		0.093	0.047	0.093	0.047		0.1137	0.057	0.114	0.057		0.0837	0.042	0.084	0.042
14		Other PCDD	0		0.807	0.000	0.807	0.000		0.8063	0.000	0.806	0.000		0.7363	0.000	0.736	0.000
15		1,2,3,4,7,8-HxCDD	0.1		0.05	0.005	0.050	0.005		0.0689	0.007	0.069	0.007		0.05	0.005	0.050	0.005
16		1,2,3,6,7,8-HxCDD	0.1		0.1455	0.015	0.146	0.015		0.1548	0.015	0.155	0.015		0.1196	0.012	0.120	0.012
17		1,2,3,7,8,9-HxCDD	0.1		0.0819	0.008	0.082	0.008		0.0896	0.009	0.090	0.009		0.0719	0.007	0.072	0.007
18		Other HxCDD	0		1.0205	0.000	1.021	0.000		1.2492	0.000	1.249	0.000		0.9585	0.000	0.959	0.000
19		1,2,3,4,6,7,8-HpCDD	0.01		0.6685	0.007	0.669	0.007		0.8462	0.008	0.846	0.008		0.5221	0.005	0.522	0.005
20		Other HpCDD	0		0.6065	0.000	0.607	0.000		0.6387	0.000	0.639	0.000		0.4556	0.000	0.456	0.000
21		OCDD	0.001		0.9762	0.001	0.976	0.001		1.0553	0.001	1.055	0.001		0.5151	0.001	0.515	0.001
22		2,3,7,8-TCDF	0.1		0.5626	0.056	0.563	0.056		0.9359	0.094	0.936	0.094		0.6747	0.067	0.675	0.067
23		Other TCDF	0		8.46	0.000	8.460	0.000		13.89	0.000	13.890	0.000		13.33	0.000	13.330	0.000
24		1,2,3,7,8-PCDF	0.05		0.664	0.033	0.664	0.033		0.767	0.038	0.767	0.038		0.736	0.037	0.736	0.037
25		2,3,4,7,8-PCDF	0.5		0.9822	0.491	0.982	0.491		1.219	0.610	1.219	0.610		1.3219	0.661	1.322	0.661
26		Other PCDF	0		5.5538	0.000	5.554	0.000		7.513	0.000	7.513	0.000		7.242	0.000	7.242	0.000
27		1,2,3,4,7,8-HxCDF	0.1		0.9493	0.095	0.949	0.095		0.9858	0.099	0.986	0.099		0.8258	0.083	0.826	0.083
28		1,2,3,6,7,8-HxCDF	0.1		0.4699	0.047	0.470	0.047		0.4718	0.047	0.472	0.047		0.4003	0.040	0.400	0.040
29		2,3,4,6,7,8-HxCDF	0.1		0.4579	0.046	0.458	0.046		0.4049	0.040	0.405	0.040		0.3561	0.036	0.356	0.036
30		1,2,3,7,8,9-HxCDF	0.1		0.0652	0.007	0.065	0.007		0.0571	0.006	0.057	0.006		0.0622	0.006	0.062	0.006
31		Other HxCDF	0		1.7166	0.000	1.717	0.000		1.6372	0.000	1.637	0.000		1.3924	0.000	1.392	0.000
32		1,2,3,4,6,7,8-HpCDF	0.01		0.7984	0.008	0.798	0.008		0.8573	0.009	0.857	0.009		0.518	0.005	0.518	0.005
33		1,2,3,4,7,8,9-HpCDF	0.01		0.1909	0.002	0.191	0.002		0.2154	0.002	0.215	0.002		0.1561	0.002	0.156	0.002
34		Other HpCDF	0		0.4144	0.000	0.414	0.000		0.4601	0.000	0.460	0.000		0.3145	0.000	0.315	0.000
35		OCDF	0.001		0.2818	0.000	0.282	0.000		0.3687	0.000	0.369	0.000		0.1914	0.000	0.191	0.000
36																		
37		Gas sample volume (dscf)				107.93	107.93	107.93			116.04	116.04	116.04			121.58	121.58	121.58
38		O2 (%)				16.50	16.50	16.50			16.3	16.3	16.3			16.00	16.00	16.00
39																		
40		PCDD/PCDF (ng in sample)				0.899	26.4	0.899			1.090	35.3	1.090			1.049	31.4	1.049
41		PCDD/PCDF (ng/dscm @ 7% O2)		0.0		0.916	26.89	0.916	0.0		0.989	32.04	0.989	0.0		0.854	25.56	0.854
42																		
43		TEQ Cond Avg	0.919															
44		Total Cond Avg	28.16															