

US EPA ARCHIVE DOCUMENT

	B	C
1	Source Description	
2		
3	Phase I ID No.	905
4	EPA ID No.	TND007024664
5	Facility Name	Velsicol Chemical Corporation
6	Facility Location	
7	City	Memphis
8	State	TN
9	Unit ID Name/No.	
10	Other Sister Facilities	None
11	Number of Sister Facilities	0
12	Combustor Class	Onsite incinerator
13	Combustor Type	Liquid injection
14	Combustor Characteristics	McGill Americas liquid inj incinerator
15	Capacity (MMBtu/hr)	
16	Soot Blowing	
17	APCS Detailed Acronym	QT/VS/AS/CS
18	APCS General Class	WQ, HEWS, LEWS
19	APCS Characteristics	quench, venturi scrubber, absorber scrubber, caustic scrubber
20	Hazardous Wastes	Sludge
21	Haz Waste Description	Sludge
22	Supplemental Fuel	
23		
24	Stack Characteristics	
25	Diameter (ft)	1.5
26	Height (ft)	25.0
27	Gas Velocity (ft/sec)	7.2
28	Gas Temperature (°F)	177.0
29		
30	Permitting Status	
31	HWC Burn Status (Date if Terminated)	

	B	C
1	Condition Description	
2		
3	905C1	
4		
5	Report Name/Date	Velsicol Trial Burn Report, Metals Emissions, Velsicol Chemical Corp, Memphis, Tennessee, DCN 90-274-018-04, prepared by Radian, February 20, 1990
6	Report Prepare	Radian Corp
7	Testing Firm	Radian Corp
8	Cond Descr	Metals trial burn, spiked As, Cd, Cr
9	Testing Dates	November 7, 1989
10	Cond Dates	Nov-89

	B	C	D	E	F	G	H	I	J	K	L	M	N
1	Stack Gas Emissions 2												
2													
3	Comments Units												
4													
5	905C1					R1	R2	R3		Cond Avg			
6													
7	CO (RA)	E1	ppmv	y		36.6	26.9	40.9		34.8			
8	Arsenic	E1	ug/dscm	y		89.3	76.4	72.2		79.3			
9	Beryllium	E1	ug/dscm	y		1.8	1.7	1.9		1.8			
10	Cadmium	E1	ug/dscm	y		1482.6	1706.9	1847.5		1679.0			
11	Chromium	E1	ug/dscm	y		17.6	18.7	15.5		17.3			
12	SVM	E1	ug/dscm	y		1482.6	1706.9	1847.5		1679.0	no Pb		
13	LVM	E1	ug/dscm	y		109	97	90		98.4			
14													
15	Sampling Train	Metals	E1										
16	Stack Gas Flowrate		dscfm			1480.0	1470.0	1450.0					
17	O2		%			8.0	8.0	8.0					
18	Moisture		%			28.8	30.3	30.3					
19	Temperature		°F										

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
1	Feedstream 2																									
2																										
3																										
4	905C1																									
5	Feedstream Number																									
6	Feed Class																									
7	Feed Class 2																									
8	Feedstream Description																									
9	Feed Rate	lb/hr																								
10	Heating value	Btu/lb																								
11	Ash	wt %																								
12	Chlorine	ppmw																								
13																										
14																										
15	Arsenic	ppmw	1	0.37																						
16	Beryllium	ppmw	1	0.19	1	0.17	1	0.19	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1
17	Cadmium	ppmw	1	1.3	1	1.2	1	1.3	1	183	159	85	27	22	22	22	22	22	22	22	22	22	22	22	22	22
18	Chromium	ppmw		6		4.9		7.4		25	27	27	22	22	22	22	22	22	22	22	22	22	22	22	22	22
19																										
20																										
21																										
22	Stack gas flowrate	scfm	1480		1470		1450		1450		1480		1470		1450		1470		1470		1450		1480		1470	
23	Oxygen	%	8.0		8.0		8.0		8.0		8.0		8.0		8.0		8.0		8.0		8.0		8.0		8.0	
24																										
25																										
26	Feedrate MTEC Calcs																									
27																										
28	Chlorine	ug/dscm	551566182	67742425	67742425	67742425	70757918	70757918	70757918	16669424	16669424	18647579	18647579	16942820	16942820	71825606	71825606	86390004	86390004	87700738	87700738	71825606	71825606	86390004	86390004	87700738
29																										
30	Arsenic	ug/dscm	100	37.8	164.2	100	39.5	100	39.5	5000.8	5000.8	3916.0	2447.3	2447.3	1	5039	1	4080	2	2487	1	5039	1	4080	2	2487
31	Beryllium	ug/dscm	100	19.4	100	17.4	100	19.8	100	9.3	100	9.3	100	9.4	100	29	100	29	100	29	100	29	100	29	100	29
32	Cadmium	ug/dscm	100	132.8	100	123.2	100	135.3	100	16947.2	16947.2	14824.8	8000.8	8000.8	1	17080	1	14948	2	8136	1	17080	1	14948	2	8136
33	Chromium	ug/dscm	100	612.8	502.9	502.9	770.0	770.0	770.0	2315.2	2315.2	2517.4	2070.8	2070.8	2928	2928	3020	3020	3020	2841	2841	2928	2928	3020	3020	2841
34																										
35	SVM	ug/dscm	132.8	123.2	123.2	135.3	135.3	135.3	135.3	16947.2	16947.2	14824.8	8000.8	8000.8	1	17080.0	1	14948.0	2	8136.0	1	17080.0	1	14948.0	2	8136.0
36	LVM	ug/dscm	670	685	685	829	829	829	829	7325	7325	6443	4527	4527	1	7995	0	7127	1	5357	1	7995	0	7127	1	5357

	B	AC	AD	AE
1	Feedstream 2			
2				
3				
4	905C1		Cond Avg	
5	Feedstream Number		F3	
6	Feed Class		Total	
7	Feed Class 2		Total	
8	Feedstream Description		Total	
9	Feed Rate		475	
10	Heating value			
11	Ash			
12	Chlorine			
13	Arsenic			
14	Beryllium			
15	Cadmium			
16	Chromium			
17				
18				
19				
20				
21				
22	Stack gas flowrate			
23	Oxygen			
24				
25				
26	Feedrate MTEC Calcs			
27			81972116	
28	Chlorine			
29				
30	Arsenic	1	3869	
31	Beryllium	100	28	
32	Cadmium	1	13388	
33	Chromium		2930	
34				
35	SVM	1	13388.0 No Pb	
36	LVM	1	6827	

	C	D	E	F	G
1	Process Information 2				
2					
3	905C1				
4					
5	Combustion Temperature	F	2216	2220	2219
6	WS Pressure Drop	in H2O	30.3	28.7	28.4
7	WS pH		8.7	8.7	8.8