

US EPA ARCHIVE DOCUMENT

SECTION 7: EMISSIONS ANALYSES

1. COMPANY: ROLLINS ENVIRONMENTAL SERVICES  
 2. STATE: NJ  
 3. CITY: BRIDGEPORT  
 4. EP ID: 216 DEVICE NAME:

EPA ID: NJD053288239  
 SYSTEM TYPE: COMMERCIAL INCINERATOR APC SYSTEM: HES/WS

REGION: 2

5. Type: CONTROLLED

6. Description: EMISSIONS Process Group: ROTARY KILN Location: STACK Phase: GAS

7. Category: Dioxin & Furan

Analysis:

8. Substance	9. Run ID	Concentration	Mass Rate	Calc
4D 2378	216C3R1	ND 1.87e+0 ng/dscm 7%O2	1.98e-7 lbs/hr	CE7%O2
4D 2378	216C3R2	ND 9.07e-1 ng/dscm 7%O2	9.01e-8 lbs/hr	CE7%O2
4D 2378	216C3R3	ND 1.91e-1 ng/dscm 7%O2	1.80e-8 lbs/hr	CE7%O2
4D 2378	216C7R1	ND 3.42e-2 ng/dscm 7%O2	3.90e-9 lbs/hr	CE7%O2
4D 2378	216C7R2	ND 3.31e-2 ng/dscm 7%O2	3.60e-9 lbs/hr	CE7%O2
4D 2378	216C7R3	ND 5.21e-2 ng/dscm 7%O2	6.63e-9 lbs/hr	CE7%O2
4D Other	216C3R1	3.52e-1 ng/dscm 7%O2	3.73e-8 lbs/hr	OCE
4D Other	216C3R2	1.56e+0 ng/dscm 7%O2	1.55e-7 lbs/hr	OCE
4D Other	216C3R3	2.27e+0 ng/dscm 7%O2	2.14e-7 lbs/hr	OCE
4D Other	216C7R1	6.31e-3 ng/dscm 7%O2	7.20e-10 lbs/hr	OCE
4D Other	216C7R2	6.18e-5 ng/dscm 7%O2	6.71e-12 lbs/hr	OCE
4D Other	216C7R3	1.24e-4 ng/dscm 7%O2	1.57e-11 lbs/hr	OCE
4D Total	216C3R1	ND 2.22e+0 ng/dscm 7%O2	2.36e-7 lbs/hr	CE7%O2
4D Total	216C3R2	ND 2.47e+0 ng/dscm 7%O2	2.45e-7 lbs/hr	CE7%O2
4D Total	216C3R3	ND 2.46e+0 ng/dscm 7%O2	2.32e-7 lbs/hr	CE7%O2
4D Total	216C7R1	ND 4.05e-2 ng/dscm 7%O2	4.62e-9 lbs/hr	CE7%O2
4D Total	216C7R2	ND 3.32e-2 ng/dscm 7%O2	3.61e-9 lbs/hr	CE7%O2
4D Total	216C7R3	ND 5.22e-2 ng/dscm 7%O2	6.65e-9 lbs/hr	CE7%O2
4F 2378	216C3R1	ND 1.45e+0 ng/dscm 7%O2	1.54e-7 lbs/hr	CE7%O2
4F 2378	216C3R2	ND 6.90e-1 ng/dscm 7%O2	6.85e-8 lbs/hr	CE7%O2
4F 2378	216C3R3	ND 1.81e-1 ng/dscm 7%O2	1.71e-8 lbs/hr	CE7%O2
4F 2378	216C7R1	2.71e-1 ng/dscm 7%O2	3.09e-8 lbs/hr	CE7%O2
4F 2378	216C7R2	ND 4.32e-1 ng/dscm 7%O2	4.69e-8 lbs/hr	CE7%O2
4F 2378	216C7R3	ND 9.22e-2 ng/dscm 7%O2	1.17e-8 lbs/hr	CE7%O2
4F Other	216C3R1	1.33e-1 ng/dscm 7%O2	1.41e-8 lbs/hr	OCE
4F Other	216C3R2	1.07e+0 ng/dscm 7%O2	1.06e-7 lbs/hr	OCE
4F Other	216C3R3	1.57e+0 ng/dscm 7%O2	1.49e-7 lbs/hr	OCE
4F Other	216C7R1	3.51e-1 ng/dscm 7%O2	4.01e-8 lbs/hr	OCE
4F Other	216C7R2	0.00e+0	0.00e+0	OCE
4F Other	216C7R3	0.00e+0	0.00e+0	OCE
4F Total	216C3R1	ND 1.59e+0 ng/dscm 7%O2	1.68e-7 lbs/hr	CE7%O2
4F Total	216C3R2	ND 1.76e+0 ng/dscm 7%O2	1.75e-7 lbs/hr	CE7%O2
4F Total	216C3R3	ND 1.76e+0 ng/dscm 7%O2	1.66e-7 lbs/hr	CE7%O2
4F Total	216C7R1	6.22e-1 ng/dscm 7%O2	7.11e-8 lbs/hr	CE7%O2
4F Total	216C7R2	ND 4.32e-1 ng/dscm 7%O2	4.69e-8 lbs/hr	CE7%O2
4F Total	216C7R3	ND 9.22e-2 ng/dscm 7%O2	1.17e-8 lbs/hr	CE7%O2
5D Total	216C3R1	ND 1.27e+0 ng/dscm 7%O2	1.35e-7 lbs/hr	CE7%O2
5D Total	216C3R2	ND 1.41e+0 ng/dscm 7%O2	1.40e-7 lbs/hr	CE7%O2
5D Total	216C3R3	ND 1.40e+0 ng/dscm 7%O2	1.33e-7 lbs/hr	CE7%O2
5D Total	216C7R1	ND 2.49e-2 ng/dscm 7%O2	2.84e-9 lbs/hr	CE7%O2
5D Total	216C7R2	ND 9.63e-2 ng/dscm 7%O2	1.05e-8 lbs/hr	CE7%O2
5D Total	216C7R3	ND 1.17e-1 ng/dscm 7%O2	1.49e-8 lbs/hr	CE7%O2
5F Total	216C3R1	ND 9.52e-1 ng/dscm 7%O2	1.01e-7 lbs/hr	CE7%O2
5F Total	216C3R2	ND 1.06e+0 ng/dscm 7%O2	1.05e-7 lbs/hr	CE7%O2
5F Total	216C3R3	ND 1.05e+0 ng/dscm 7%O2	9.96e-8 lbs/hr	CE7%O2
5F Total	216C7R1	1.34e-1 ng/dscm 7%O2	1.53e-8 lbs/hr	CE7%O2
5F Total	216C7R2	ND 6.64e-2 ng/dscm 7%O2	7.21e-9 lbs/hr	CE7%O2
5F Total	216C7R3	ND 1.04e-1 ng/dscm 7%O2	1.33e-8 lbs/hr	CE7%O2
6D Total	216C3R1	ND 1.90e+0 ng/dscm 7%O2	2.02e-7 lbs/hr	CE7%O2
6D Total	216C3R2	ND 2.11e+0 ng/dscm 7%O2	2.10e-7 lbs/hr	CE7%O2
6D Total	216C3R3	ND 2.11e+0 ng/dscm 7%O2	1.99e-7 lbs/hr	CE7%O2
6D Total	216C7R1	ND 4.67e-2 ng/dscm 7%O2	5.33e-9 lbs/hr	CE7%O2
6D Total	216C7R2	ND 6.64e-2 ng/dscm 7%O2	7.21e-9 lbs/hr	CE7%O2
6D Total	216C7R3	ND 4.61e-2 ng/dscm 7%O2	5.86e-9 lbs/hr	CE7%O2
6F Total	216C3R1	ND 1.59e+0 ng/dscm 7%O2	1.68e-7 lbs/hr	CE7%O2

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EPA ID: NJD053288239  
 SYSTEM TYPE: COMMERCIAL INCINERATOR  
 APC SYSTEM: HES/W5

REGION: 2

6F Total	216C3R2	ND	1.76e+0	ng/dscm	7%O2	1.75e-7	lbs/hr	CE7%O2
6F Total	216C3R3	ND	1.76e+0	ng/dscm	7%O2	1.66e-7	lbs/hr	CE7%O2
6F Total	216C7R1	ND	1.56e-2	ng/dscm	7%O2	1.78e-9	lbs/hr	CE7%O2
6F Total	216C7R2	ND	2.66e-2	ng/dscm	7%O2	2.88e-9	lbs/hr	CE7%O2
6F Total	216C7R3	ND	2.77e-2	ng/dscm	7%O2	3.52e-9	lbs/hr	CE7%O2
7D Total	216C3R1	ND	6.35e-1	ng/dscm	7%O2	6.73e-8	lbs/hr	CE7%O2
7D Total	216C3R2	ND	7.05e-1	ng/dscm	7%O2	7.00e-8	lbs/hr	CE7%O2
7D Total	216C3R3	ND	7.02e-1	ng/dscm	7%O2	6.64e-8	lbs/hr	CE7%O2
7D Total	216C7R1	ND	2.49e-2	ng/dscm	7%O2	2.84e-9	lbs/hr	CE7%O2
7D Total	216C7R2	ND	3.65e-2	ng/dscm	7%O2	3.97e-9	lbs/hr	CE7%O2
7D Total	216C7R3	ND	4.61e-2	ng/dscm	7%O2	5.86e-9	lbs/hr	CE7%O2
7F Total	216C3R1	ND	6.35e-1	ng/dscm	7%O2	6.73e-8	lbs/hr	CE7%O2
7F Total	216C3R2	ND	7.05e-1	ng/dscm	7%O2	7.00e-8	lbs/hr	CE7%O2
7F Total	216C3R3	ND	7.02e-1	ng/dscm	7%O2	6.64e-8	lbs/hr	CE7%O2
7F Total	216C7R1	ND	6.22e-2	ng/dscm	7%O2	7.11e-9	lbs/hr	CE7%O2
7F Total	216C7R2	ND	5.98e-2	ng/dscm	7%O2	6.49e-9	lbs/hr	CE7%O2
7F Total	216C7R3	ND	1.23e-1	ng/dscm	7%O2	1.56e-8	lbs/hr	CE7%O2
8D	216C3R1	ND	9.52e-1	ng/dscm	7%O2	1.01e-7	lbs/hr	CE7%O2
8D	216C3R2	ND	1.06e+0	ng/dscm	7%O2	1.05e-7	lbs/hr	CE7%O2
8D	216C3R3	ND	1.05e+0	ng/dscm	7%O2	9.96e-8	lbs/hr	CE7%O2
8D	216C7R1	ND	9.34e-2	ng/dscm	7%O2	1.07e-8	lbs/hr	CE7%O2
8D	216C7R2	ND	7.97e-2	ng/dscm	7%O2	8.65e-9	lbs/hr	CE7%O2
8D	216C7R3	ND	5.53e-2	ng/dscm	7%O2	7.04e-9	lbs/hr	CE7%O2
8F	216C3R1	ND	6.35e-1	ng/dscm	7%O2	6.73e-8	lbs/hr	CE7%O2
8F	216C3R2	ND	7.05e-1	ng/dscm	7%O2	7.00e-8	lbs/hr	CE7%O2
8F	216C3R3	ND	7.02e-1	ng/dscm	7%O2	6.64e-8	lbs/hr	CE7%O2
8F	216C7R1	ND	6.22e-2	ng/dscm	7%O2	7.11e-9	lbs/hr	CE7%O2
8F	216C7R2	ND	3.98e-2	ng/dscm	7%O2	4.33e-9	lbs/hr	CE7%O2
8F	216C7R3	ND	3.38e-2	ng/dscm	7%O2	4.30e-9	lbs/hr	CE7%O2
Total PCDD/PCDF	216C3R1		1.24e+1	ng/dscm	7%O2	1.31e-6	lbs/hr	CCET
Total PCDD/PCDF	216C3R2		1.37e+1	ng/dscm	7%O2	1.36e-6	lbs/hr	CCET
Total PCDD/PCDF	216C3R3		1.37e+1	ng/dscm	7%O2	1.29e-6	lbs/hr	CCET
Total PCDD/PCDF	216C7R1		1.13e+0	ng/dscm	7%O2	1.29e-7	lbs/hr	CCET
Total PCDD/PCDF	216C7R2		9.36e-1	ng/dscm	7%O2	1.02e-7	lbs/hr	CCET
Total PCDD/PCDF	216C7R3		6.98e-1	ng/dscm	7%O2	8.88e-8	lbs/hr	CCET

7. Category: Halogens

Analysis:

8. Substance	9. Run ID	Concentration	Mass Rate	Calc
HCl	216C2R1	7.99e+0 ppmv 7%O2	1.27e+0 lbs/hr	7%O2
HCl	216C2R2	1.03e+1 ppmv 7%O2	1.45e+0 lbs/hr	7%O2
HCl	216C2R3	1.08e+1 ppmv 7%O2	1.52e+0 lbs/hr	7%O2
HCl	216C7R1	8.56e+0 ppmv 7%O2	1.48e+0 lbs/hr	CE7%O2
HCl	216C7R2	1.07e+1 ppmv 7%O2	1.75e+0 lbs/hr	CE7%O2
HCl	216C7R3	7.84e+0 ppmv 7%O2	1.51e+0 lbs/hr	CE7%O2

7. Category: Metals

Analysis:

8. Substance	9. Run ID	Concentration	Mass Rate	Calc
Antimony	216C3R1	3.38e+0 ug/dscm 7%O2	3.59e-4 lbs/hr	CE7%O2
Antimony	216C3R2	1.68e+0 ug/dscm 7%O2	1.67e-4 lbs/hr	CE7%O2
Antimony	216C3R3	ND 1.77e+0 ug/dscm 7%O2	1.67e-4 lbs/hr	CE7%O2
Antimony	216C5R1	ND 6.94e+0 ug/dscm 7%O2	7.43e-4 lbs/hr	CE7%O2
Antimony	216C5R2	ND 6.56e+0 ug/dscm 7%O2	6.89e-4 lbs/hr	CE7%O2
Antimony	216C5R3	ND 6.94e+0 ug/dscm 7%O2	7.09e-4 lbs/hr	CE7%O2
Antimony	216C6R1	8.04e+0 ug/dscm 7%O2	7.69e-4 lbs/hr	CE7%O2
Antimony	216C6R2	ND 7.24e+0 ug/dscm 7%O2	6.93e-4 lbs/hr	CE7%O2
Antimony	216C6R3	1.30e+1 ug/dscm 7%O2	1.33e-3 lbs/hr	CE7%O2
Antimony	216C7R1	ND 7.80e+1 ug/dscm 7%O2	8.90e-3 lbs/hr	CE7%O2
Antimony	216C7R2	ND 7.91e+1 ug/dscm 7%O2	8.59e-3 lbs/hr	CE7%O2
Antimony	216C7R3	ND 6.46e+1 ug/dscm 7%O2	8.22e-3 lbs/hr	CE7%O2

SECTION 7: EMISSIONS ANALYSES

1. COMPANY: ROLLINS ENVIRONMENTAL SERVICES  
 2. STATE: NJ  
 3. CITY: BRIDGEPORT  
 4. EP ID: 216 DEVICE NAME:

EPA ID: NJD053288239  
 SYSTEM TYPE: COMMERCIAL INCINERATOR  
 APC SYSTEM: HES/WS

REGION: 2

Arsenic	216C3R1	2.59e+0	ug/dscm 7%O2	2.75e-4	lbs/hr	CE7%O2	
Arsenic	216C3R2	1.68e+0	ug/dscm 7%O2	1.67e-4	lbs/hr	CE7%O2	
Arsenic	216C3R3	2.13e+0	ug/dscm 7%O2	2.01e-4	lbs/hr	CE7%O2	
Arsenic	216C5R1	ND	1.74e+0	ug/dscm 7%O2	1.86e-4	lbs/hr	CE7%O2
Arsenic	216C5R2	ND	1.64e+0	ug/dscm 7%O2	1.73e-4	lbs/hr	CE7%O2
Arsenic	216C5R3	ND	1.74e+0	ug/dscm 7%O2	1.77e-4	lbs/hr	CE7%O2
Arsenic	216C6R1		5.42e+0	ug/dscm 7%O2	5.18e-4	lbs/hr	CE7%O2
Arsenic	216C6R2		2.10e+0	ug/dscm 7%O2	2.01e-4	lbs/hr	CE7%O2
Arsenic	216C6R3	ND	1.75e+0	ug/dscm 7%O2	1.79e-4	lbs/hr	CE7%O2
Arsenic	216C7R1		1.30e+0	ug/dscm 7%O2	1.48e-4	lbs/hr	CE7%O2
Arsenic	216C7R2		1.20e+0	ug/dscm 7%O2	1.30e-4	lbs/hr	CE7%O2
Arsenic	216C7R3	ND	1.96e+0	ug/dscm 7%O2	2.49e-4	lbs/hr	CE7%O2
Barium	216C3R1		5.54e+1	ug/dscm 7%O2	5.87e-3	lbs/hr	CE7%O2
Barium	216C3R2		4.05e+1	ug/dscm 7%O2	4.02e-3	lbs/hr	CE7%O2
Barium	216C3R3		3.46e+1	ug/dscm 7%O2	3.27e-3	lbs/hr	CE7%O2
Barium	216C5R1	ND	3.47e+1	ug/dscm 7%O2	3.72e-3	lbs/hr	CE7%O2
Barium	216C5R2	ND	3.28e+1	ug/dscm 7%O2	3.45e-3	lbs/hr	CE7%O2
Barium	216C5R3	ND	3.47e+1	ug/dscm 7%O2	3.54e-3	lbs/hr	CE7%O2
Barium	216C6R1		3.74e+1	ug/dscm 7%O2	3.58e-3	lbs/hr	CE7%O2
Barium	216C6R2	ND	3.61e+1	ug/dscm 7%O2	3.45e-3	lbs/hr	CE7%O2
Barium	216C6R3		3.89e+1	ug/dscm 7%O2	3.97e-3	lbs/hr	CE7%O2
Barium	216C7R1	ND	2.60e+2	ug/dscm 7%O2	2.97e-2	lbs/hr	CE7%O2
Barium	216C7R2	ND	2.64e+2	ug/dscm 7%O2	2.87e-2	lbs/hr	CE7%O2
Barium	216C7R3	ND	2.16e+2	ug/dscm 7%O2	2.74e-2	lbs/hr	CE7%O2
Beryllium	216C3R1	ND	3.79e-1	ug/dscm 7%O2	4.02e-5	lbs/hr	CE7%O2
Beryllium	216C3R2	ND	4.36e-1	ug/dscm 7%O2	4.33e-5	lbs/hr	CE7%O2
Beryllium	216C3R3	ND	4.58e-1	ug/dscm 7%O2	4.33e-5	lbs/hr	CE7%O2
Beryllium	216C5R1	ND	8.33e-1	ug/dscm 7%O2	8.93e-5	lbs/hr	CE7%O2
Beryllium	216C5R2	ND	7.90e-1	ug/dscm 7%O2	8.29e-5	lbs/hr	CE7%O2
Beryllium	216C5R3	ND	8.34e-1	ug/dscm 7%O2	8.52e-5	lbs/hr	CE7%O2
Beryllium	216C6R1	ND	8.55e-1	ug/dscm 7%O2	8.17e-5	lbs/hr	CE7%O2
Beryllium	216C6R2	ND	8.68e-1	ug/dscm 7%O2	8.31e-5	lbs/hr	CE7%O2
Beryllium	216C6R3	ND	8.41e-1	ug/dscm 7%O2	8.59e-5	lbs/hr	CE7%O2
Beryllium	216C7R1	ND	6.50e+0	ug/dscm 7%O2	7.42e-4	lbs/hr	CE7%O2
Beryllium	216C7R2	ND	6.62e+0	ug/dscm 7%O2	7.19e-4	lbs/hr	CE7%O2
Beryllium	216C7R3	ND	5.40e+0	ug/dscm 7%O2	6.87e-4	lbs/hr	CE7%O2
Cadmium	216C3R1		6.76e+0	ug/dscm 7%O2	7.17e-4	lbs/hr	CE7%O2
Cadmium	216C3R2		4.73e+0	ug/dscm 7%O2	4.70e-4	lbs/hr	CE7%O2
Cadmium	216C3R3		3.01e+0	ug/dscm 7%O2	2.84e-4	lbs/hr	CE7%O2
Cadmium	216C5R1		4.18e+2	ug/dscm 7%O2	4.48e-2	lbs/hr	CE7%O2
Cadmium	216C5R2		6.72e+2	ug/dscm 7%O2	7.05e-2	lbs/hr	CE7%O2
Cadmium	216C5R3		9.38e+2	ug/dscm 7%O2	9.57e-2	lbs/hr	CE7%O2
Cadmium	216C6R1		2.36e+2	ug/dscm 7%O2	2.26e-2	lbs/hr	CE7%O2
Cadmium	216C6R2		4.01e+2	ug/dscm 7%O2	3.84e-2	lbs/hr	CE7%O2
Cadmium	216C6R3		2.71e+2	ug/dscm 7%O2	2.77e-2	lbs/hr	CE7%O2
Cadmium	216C7R1		8.32e+1	ug/dscm 7%O2	9.49e-3	lbs/hr	CE7%O2
Cadmium	216C7R2		5.88e+1	ug/dscm 7%O2	6.39e-3	lbs/hr	CE7%O2
Cadmium	216C7R3		2.08e+1	ug/dscm 7%O2	2.64e-3	lbs/hr	CE7%O2
Chromium	216C3R1		1.51e+2	ug/dscm 7%O2	1.60e-2	lbs/hr	CE7%O2
Chromium	216C3R2		3.58e+2	ug/dscm 7%O2	3.55e-2	lbs/hr	CE7%O2
Chromium	216C3R3		2.83e+2	ug/dscm 7%O2	2.67e-2	lbs/hr	CE7%O2
Chromium	216C5R1		2.84e+1	ug/dscm 7%O2	3.04e-3	lbs/hr	CE7%O2
Chromium	216C5R2		5.03e+1	ug/dscm 7%O2	5.28e-3	lbs/hr	CE7%O2
Chromium	216C5R3		4.61e+1	ug/dscm 7%O2	4.71e-3	lbs/hr	CE7%O2
Chromium	216C6R1		3.87e+1	ug/dscm 7%O2	3.70e-3	lbs/hr	CE7%O2
Chromium	216C6R2		2.62e+1	ug/dscm 7%O2	2.51e-3	lbs/hr	CE7%O2
Chromium	216C6R3		3.51e+1	ug/dscm 7%O2	3.58e-3	lbs/hr	CE7%O2
Chromium	216C7R1		4.36e+1	ug/dscm 7%O2	4.98e-3	lbs/hr	CE7%O2
Chromium	216C7R2		4.85e+1	ug/dscm 7%O2	5.27e-3	lbs/hr	CE7%O2
Chromium	216C7R3		2.55e+1	ug/dscm 7%O2	3.24e-3	lbs/hr	CE7%O2
Lead	216C3R1		1.71e+2	ug/dscm 7%O2	1.82e-2	lbs/hr	CE7%O2
Lead	216C3R2		6.64e+1	ug/dscm 7%O2	6.60e-3	lbs/hr	CE7%O2
Lead	216C3R3		5.54e+1	ug/dscm 7%O2	5.23e-3	lbs/hr	CE7%O2

US EPA ARCHIVE DOCUMENT

SECTION 7: EMISSIONS ANALYSES

1. COMPANY: ROLLINS ENVIRONMENTAL SERVICES  
 2. STATE: NJ  
 3. CITY: BRIDGEPORT  
 4. EP ID: 216 DEVICE NAME:

EPA ID: NJD053288239  
 SYSTEM TYPE: COMMERCIAL INCINERATOR  
 APC SYSTEM: HES/W5

REGION: 2

Lead	216C5R1	3.60e+2	ug/dscm 7%O2	3.86e-2	lbs/hr	CE7%O2	
Lead	216C5R2	3.33e+2	ug/dscm 7%O2	3.50e-2	lbs/hr	CE7%O2	
Lead	216C5R3	3.42e+2	ug/dscm 7%O2	3.49e-2	lbs/hr	CE7%O2	
Lead	216C6R1	5.34e+2	ug/dscm 7%O2	5.11e-2	lbs/hr	CE7%O2	
Lead	216C6R2	6.84e+2	ug/dscm 7%O2	6.55e-2	lbs/hr	CE7%O2	
Lead	216C6R3	1.01e+3	ug/dscm 7%O2	1.03e-1	lbs/hr	CE7%O2	
Lead	216C7R1	9.15e+2	ug/dscm 7%O2	1.05e-1	lbs/hr	CE7%O2	
Lead	216C7R2	1.02e+3	ug/dscm 7%O2	1.11e-1	lbs/hr	CE7%O2	
Lead	216C7R3	3.84e+2	ug/dscm 7%O2	4.88e-2	lbs/hr	CE7%O2	
Mercury	216C3R1	6.80e+2	ug/dscm 7%O2	7.21e-2	lbs/hr	CE7%O2	
Mercury	216C3R2	6.57e+1	ug/dscm 7%O2	6.52e-3	lbs/hr	CE7%O2	
Mercury	216C3R3	3.75e+1	ug/dscm 7%O2	3.54e-3	lbs/hr	CE7%O2	
Mercury	216C5R1	7.43e-2	ug/dscm 7%O2	7.97e-6	lbs/hr	CE7%O2	
Mercury	216C5R2	1.72e+0	ug/dscm 7%O2	1.80e-4	lbs/hr	CE7%O2	
Mercury	216C5R3	1.15e+0	ug/dscm 7%O2	1.18e-4	lbs/hr	CE7%O2	
Mercury	216C6R1	ND	1.57e+1	ug/dscm 7%O2	1.50e-3	lbs/hr	CE7%O2
Mercury	216C6R2	ND	1.19e+1	ug/dscm 7%O2	1.14e-3	lbs/hr	CE7%O2
Mercury	216C6R3		1.06e+2	ug/dscm 7%O2	1.09e-2	lbs/hr	CE7%O2
Mercury	216C7R1	ND	3.06e-1	ug/dscm 7%O2	3.49e-5	lbs/hr	CE7%O2
Mercury	216C7R2	ND	2.16e-1	ug/dscm 7%O2	2.35e-5	lbs/hr	CE7%O2
Mercury	216C7R3		2.55e-1	ug/dscm 7%O2	3.24e-5	lbs/hr	CE7%O2
Nickel	216C3R1	1.66e+1	ug/dscm 7%O2	1.76e-3	lbs/hr	CE7%O2	
Nickel	216C3R2	2.80e+2	ug/dscm 7%O2	2.78e-2	lbs/hr	CE7%O2	
Nickel	216C3R3	1.87e+2	ug/dscm 7%O2	1.77e-2	lbs/hr	CE7%O2	
Nickel	216C5R1	2.78e+1	ug/dscm 7%O2	2.98e-3	lbs/hr	CE7%O2	
Nickel	216C5R2	4.44e+1	ug/dscm 7%O2	4.66e-3	lbs/hr	CE7%O2	
Nickel	216C5R3	5.38e+1	ug/dscm 7%O2	5.49e-3	lbs/hr	CE7%O2	
Nickel	216C6R1	3.79e+1	ug/dscm 7%O2	3.63e-3	lbs/hr	CE7%O2	
Nickel	216C6R2	2.32e+1	ug/dscm 7%O2	2.22e-3	lbs/hr	CE7%O2	
Nickel	216C6R3	4.88e+1	ug/dscm 7%O2	4.98e-3	lbs/hr	CE7%O2	
Nickel	216C7R1	9.27e+1	ug/dscm 7%O2	1.06e-2	lbs/hr	CE7%O2	
Nickel	216C7R2	9.44e+1	ug/dscm 7%O2	1.03e-2	lbs/hr	CE7%O2	
Nickel	216C7R3	ND	4.32e+1	ug/dscm 7%O2	5.49e-3	lbs/hr	CE7%O2
Selenium	216C3R1	2.21e+0	ug/dscm 7%O2	2.35e-4	lbs/hr	CE7%O2	
Selenium	216C3R2	4.98e-1	ug/dscm 7%O2	4.95e-5	lbs/hr	CE7%O2	
Selenium	216C3R3	5.23e-1	ug/dscm 7%O2	4.95e-5	lbs/hr	CE7%O2	
Selenium	216C5R1	2.71e+0	ug/dscm 7%O2	2.90e-4	lbs/hr	CE7%O2	
Selenium	216C5R2	2.50e+0	ug/dscm 7%O2	2.62e-4	lbs/hr	CE7%O2	
Selenium	216C5R3	ND	8.34e-1	ug/dscm 7%O2	8.52e-5	lbs/hr	CE7%O2
Selenium	216C6R1	2.56e+0	ug/dscm 7%O2	2.45e-4	lbs/hr	CE7%O2	
Selenium	216C6R2	1.08e+0	ug/dscm 7%O2	1.04e-4	lbs/hr	CE7%O2	
Selenium	216C6R3	8.41e-1	ug/dscm 7%O2	8.59e-5	lbs/hr	CE7%O2	
Selenium	216C7R1	ND	1.18e+0	ug/dscm 7%O2	1.35e-4	lbs/hr	CE7%O2
Selenium	216C7R2	ND	1.20e+0	ug/dscm 7%O2	1.30e-4	lbs/hr	CE7%O2
Selenium	216C7R3	ND	9.79e-1	ug/dscm 7%O2	1.25e-4	lbs/hr	CE7%O2
Silver	216C3R1	1.60e+0	ug/dscm 7%O2	1.70e-4	lbs/hr	CE7%O2	
Silver	216C3R2	1.68e+0	ug/dscm 7%O2	1.67e-4	lbs/hr	CE7%O2	
Silver	216C3R3	2.49e+0	ug/dscm 7%O2	2.35e-4	lbs/hr	CE7%O2	
Silver	216C5R1	ND	1.74e+0	ug/dscm 7%O2	1.86e-4	lbs/hr	CE7%O2
Silver	216C5R2	1.97e+0	ug/dscm 7%O2	2.07e-4	lbs/hr	CE7%O2	
Silver	216C5R3	3.55e+0	ug/dscm 7%O2	3.62e-4	lbs/hr	CE7%O2	
Silver	216C6R1	ND	1.78e+0	ug/dscm 7%O2	1.70e-4	lbs/hr	CE7%O2
Silver	216C6R2	2.32e+0	ug/dscm 7%O2	2.22e-4	lbs/hr	CE7%O2	
Silver	216C6R3	1.96e+0	ug/dscm 7%O2	2.01e-4	lbs/hr	CE7%O2	
Silver	216C7R1	ND	1.30e+1	ug/dscm 7%O2	1.48e-3	lbs/hr	CE7%O2
Silver	216C7R2	ND	1.32e+1	ug/dscm 7%O2	1.43e-3	lbs/hr	CE7%O2
Silver	216C7R3	ND	1.08e+1	ug/dscm 7%O2	1.37e-3	lbs/hr	CE7%O2
Thallium	216C3R1	ND	7.58e-1	ug/dscm 7%O2	8.04e-5	lbs/hr	CE7%O2
Thallium	216C3R2	ND	8.40e-1	ug/dscm 7%O2	8.34e-5	lbs/hr	CE7%O2
Thallium	216C3R3	ND	8.83e-1	ug/dscm 7%O2	8.34e-5	lbs/hr	CE7%O2
Thallium	216C5R1	ND	1.74e+1	ug/dscm 7%O2	1.86e-3	lbs/hr	CE7%O2
Thallium	216C5R2	ND	1.64e+1	ug/dscm 7%O2	1.73e-3	lbs/hr	CE7%O2
Thallium	216C5R3	ND	1.74e+1	ug/dscm 7%O2	1.77e-3	lbs/hr	CE7%O2

US EPA ARCHIVE DOCUMENT

SECTION 7: EMISSIONS ANALYSES

1. COMPANY: ROLLINS ENVIRONMENTAL SERVICES  
 2. STATE: NJ  
 3. CITY: BRIDGEPORT  
 4. EP ID: 216 DEVICE NAME:

EPA ID: NJD053288239  
 SYSTEM TYPE: COMMERCIAL INCINERATOR  
 APC SYSTEM: HES/W5

REGION: 2

Thallium	216C6R1	ND	1.78e+0	ug/dscm	7%O2	1.70e-4	lbs/hr	CE7%O2
Thallium	216C6R2	ND	1.81e+0	ug/dscm	7%O2	1.73e-4	lbs/hr	CE7%O2
Thallium	216C6R3	ND	1.75e+0	ug/dscm	7%O2	1.79e-4	lbs/hr	CE7%O2
Thallium	216C7R1	ND	2.36e+0	ug/dscm	7%O2	2.70e-4	lbs/hr	CE7%O2
Thallium	216C7R2	ND	2.40e+0	ug/dscm	7%O2	2.61e-4	lbs/hr	CE7%O2
Thallium	216C7R3	ND	1.96e+0	ug/dscm	7%O2	2.49e-4	lbs/hr	CE7%O2

7. Category: PAH

Analysis:

8. Substance	9. Run ID	Concentration	Mass Rate	Calc
Naphthalene	216C7R1	2.36e+4 ng/dscm 7%O2	2.70e-3 lbs/hr	CE7%O2
Naphthalene	216C7R2	3.65e+4 ng/dscm 7%O2	3.97e-3 lbs/hr	CE7%O2
Naphthalene	216C7R3	3.07e+4 ng/dscm 7%O2	3.91e-3 lbs/hr	CE7%O2

7. Category: Particulate

Analysis:

8. Substance	9. Run ID	Concentration	Mass Rate	Calc
Particulate	216C1R1	2.95e-2 gr/dscf 7%O2	6.13e+0 lbs/hr	7%O2
Particulate	216C1R2	2.63e-2 gr/dscf 7%O2	5.74e+0 lbs/hr	7%O2
Particulate	216C1R3	2.73e-2 gr/dscf 7%O2	6.17e+0 lbs/hr	7%O2
Particulate	216C4R1	5.10e-2 gr/dscf	1.36e+1 lbs/hr	
Particulate	216C4R2	3.20e-2 gr/dscf	7.92e+0 lbs/hr	
Particulate	216C4R3	5.00e-2 gr/dscf	1.30e+1 lbs/hr	
Particulate	216C5R1	3.18e-2 gr/dscf 7%O2	7.98e+0 lbs/hr	7%O2
Particulate	216C5R2	2.65e-2 gr/dscf 7%O2	6.40e+0 lbs/hr	7%O2
Particulate	216C5R3	4.08e-2 gr/dscf 7%O2	9.97e+0 lbs/hr	7%O2
Particulate	216C6R1	2.18e-2 gr/dscf 7%O2	4.86e+0 lbs/hr	7%O2
Particulate	216C6R2	3.35e-2 gr/dscf 7%O2	7.20e+0 lbs/hr	7%O2
Particulate	216C6R3	2.51e-2 gr/dscf 7%O2	5.92e+0 lbs/hr	7%O2
Particulate	216C7R1	2.86e-2 gr/dscf 7%O2	7.48e+0 lbs/hr	CE7%O2
Particulate	216C7R2	1.62e-2 gr/dscf 7%O2	4.02e+0 lbs/hr	CE7%O2
Particulate	216C7R3	1.62e-2 gr/dscf 7%O2	4.72e+0 lbs/hr	CE7%O2

7. Category: SVOC

Analysis:

8. Substance	9. Run ID	Concentration	Mass Rate	Calc
1,2-Dichlorobenzene	216C3R1	ND 4.86e+3 ng/dscm 7%O2	5.15e-4 lbs/hr	CE7%O2
1,2-Dichlorobenzene	216C3R2	ND 4.61e+3 ng/dscm 7%O2	4.58e-4 lbs/hr	CE7%O2
1,2-Dichlorobenzene	216C3R3	ND 3.81e+3 ng/dscm 7%O2	3.60e-4 lbs/hr	CE7%O2
1,2-Dichlorobenzene	216C7R1	ND 6.22e+3 ng/dscm 7%O2	7.11e-4 lbs/hr	CE7%O2
1,2-Dichlorobenzene	216C7R2	ND 6.64e+3 ng/dscm 7%O2	7.21e-4 lbs/hr	CE7%O2
1,2-Dichlorobenzene	216C7R3	ND 5.22e+3 ng/dscm 7%O2	6.65e-4 lbs/hr	CE7%O2
1,3-Dichlorobenzene	216C3R1	ND 4.89e+3 ng/dscm 7%O2	5.18e-4 lbs/hr	CE7%O2
1,3-Dichlorobenzene	216C3R2	ND 4.64e+3 ng/dscm 7%O2	4.61e-4 lbs/hr	CE7%O2
1,3-Dichlorobenzene	216C3R3	ND 3.83e+3 ng/dscm 7%O2	3.62e-4 lbs/hr	CE7%O2
1,3-Dichlorobenzene	216C7R1	ND 6.22e+3 ng/dscm 7%O2	7.11e-4 lbs/hr	CE7%O2
1,3-Dichlorobenzene	216C7R2	ND 6.64e+3 ng/dscm 7%O2	7.21e-4 lbs/hr	CE7%O2
1,3-Dichlorobenzene	216C7R3	ND 6.15e+3 ng/dscm 7%O2	7.82e-4 lbs/hr	CE7%O2
1,4-Dichlorobenzene	216C3R1	ND 4.89e+3 ng/dscm 7%O2	5.18e-4 lbs/hr	CE7%O2
1,4-Dichlorobenzene	216C3R2	ND 4.64e+3 ng/dscm 7%O2	4.61e-4 lbs/hr	CE7%O2
1,4-Dichlorobenzene	216C3R3	ND 3.83e+3 ng/dscm 7%O2	3.62e-4 lbs/hr	CE7%O2
1,4-Dichlorobenzene	216C7R1	ND 6.22e+3 ng/dscm 7%O2	7.11e-4 lbs/hr	CE7%O2
1,4-Dichlorobenzene	216C7R2	ND 6.64e+3 ng/dscm 7%O2	7.21e-4 lbs/hr	CE7%O2
1,4-Dichlorobenzene	216C7R3	ND 6.15e+3 ng/dscm 7%O2	7.82e-4 lbs/hr	CE7%O2
2-Methylnaphthalene	216C7R1	6.22e+2 ng/dscm 7%O2	7.11e-5 lbs/hr	CE7%O2
2-Methylnaphthalene	216C7R2	ND 6.64e+3 ng/dscm 7%O2	7.21e-4 lbs/hr	CE7%O2
2-Methylnaphthalene	216C7R3	ND 6.15e+3 ng/dscm 7%O2	7.82e-4 lbs/hr	CE7%O2
Benzaldehyde	216C3R1	ND 4.91e+3 ng/dscm 7%O2	5.20e-4 lbs/hr	CC7%O2
Benzaldehyde	216C3R2	ND 4.74e+3 ng/dscm 7%O2	4.70e-4 lbs/hr	CC7%O2
Benzaldehyde	216C3R3	ND 3.92e+3 ng/dscm 7%O2	3.70e-4 lbs/hr	CC7%O2



SECTION 7: EMISSIONS ANALYSES

1. COMPANY: ROLLINS ENVIRONMENTAL SERVICES  
 2. STATE: NJ  
 3. CITY: BRIDGEPORT  
 4. EP ID: 216 DEVICE NAME:

EPA ID: NJD053288239  
 SYSTEM TYPE: COMMERCIAL INCINERATOR  
 APC SYSTEM: HES/WS

REGION: 2

Benzoic acid	216C3R1	1.34e+5	ng/dscm	7%O2	1.42e-2	lbs/hr	CE7%O2	
Benzoic acid	216C3R2	2.26e+5	ng/dscm	7%O2	2.25e-2	lbs/hr	CE7%O2	
Benzoic acid	216C3R3	1.81e+5	ng/dscm	7%O2	1.71e-2	lbs/hr	CE7%O2	
Benzoic acid	216C7R1	6.01e+4	ng/dscm	7%O2	6.87e-3	lbs/hr	CE7%O2	
Benzoic acid	216C7R2	1.66e+5	ng/dscm	7%O2	1.80e-2	lbs/hr	CE7%O2	
Benzoic acid	216C7R3	7.99e+4	ng/dscm	7%O2	1.02e-2	lbs/hr	CE7%O2	
Benzyl alcohol	216C7R1	ND	6.22e+3	ng/dscm	7%O2	7.11e-4	lbs/hr	CE7%O2
Benzyl alcohol	216C7R2	ND	6.64e+3	ng/dscm	7%O2	7.21e-4	lbs/hr	CE7%O2
Benzyl alcohol	216C7R3	ND	9.22e+2	ng/dscm	7%O2	1.17e-4	lbs/hr	CE7%O2
bis(2-ethylexyl) Phthalate	216C3R1	8.65e+4	ng/dscm	7%O2	9.17e-3	lbs/hr	CE7%O2	
bis(2-ethylexyl) Phthalate	216C3R2	2.29e+4	ng/dscm	7%O2	2.27e-3	lbs/hr	CE7%O2	
bis(2-ethylexyl) Phthalate	216C3R3	1.75e+5	ng/dscm	7%O2	1.65e-2	lbs/hr	CE7%O2	
bis(2-ethylexyl) Phthalate	216C7R1	ND	6.22e+3	ng/dscm	7%O2	7.11e-4	lbs/hr	CE7%O2
bis(2-ethylexyl) Phthalate	216C7R2	ND	3.65e+4	ng/dscm	7%O2	3.97e-3	lbs/hr	CE7%O2
bis(2-ethylexyl) Phthalate	216C7R3	ND	6.15e+3	ng/dscm	7%O2	7.82e-4	lbs/hr	CE7%O2
Butylbenzylphthalate	216C7R1	ND	6.22e+2	ng/dscm	7%O2	7.11e-5	lbs/hr	CE7%O2
Butylbenzylphthalate	216C7R2	ND	9.96e+2	ng/dscm	7%O2	1.08e-4	lbs/hr	CE7%O2
Butylbenzylphthalate	216C7R3	ND	9.22e+2	ng/dscm	7%O2	1.17e-4	lbs/hr	CE7%O2
Chlorotoluene	216C3R1	ND	4.91e+3	ng/dscm	7%O2	5.20e-4	lbs/hr	CC7%O2
Chlorotoluene	216C3R2	ND	4.74e+3	ng/dscm	7%O2	4.70e-4	lbs/hr	CC7%O2
Chlorotoluene	216C3R3	ND	3.92e+3	ng/dscm	7%O2	3.70e-4	lbs/hr	CC7%O2
di-n-Butyl Phthalate	216C3R1	ND	6.32e+3	ng/dscm	7%O2	6.70e-4	lbs/hr	CE7%O2
di-n-Butyl Phthalate	216C3R2	ND	2.24e+4	ng/dscm	7%O2	2.23e-3	lbs/hr	CE7%O2
di-n-Butyl Phthalate	216C3R3	ND	7.09e+3	ng/dscm	7%O2	6.70e-4	lbs/hr	CE7%O2
di-n-Butyl Phthalate	216C7R1	ND	3.74e+3	ng/dscm	7%O2	4.26e-4	lbs/hr	CE7%O2
di-n-Butyl Phthalate	216C7R2	ND	2.99e+3	ng/dscm	7%O2	3.25e-4	lbs/hr	CE7%O2
di-n-Butyl Phthalate	216C7R3	ND	4.92e+3	ng/dscm	7%O2	6.26e-4	lbs/hr	CE7%O2
di-n-Octyl Phthalate	216C7R1	ND	6.22e+3	ng/dscm	7%O2	7.11e-4	lbs/hr	CE7%O2
di-n-Octyl Phthalate	216C7R2	ND	1.59e+4	ng/dscm	7%O2	1.73e-3	lbs/hr	CE7%O2
di-n-Octyl Phthalate	216C7R3	ND	6.15e+3	ng/dscm	7%O2	7.82e-4	lbs/hr	CE7%O2
Diethylphthalate	216C3R1	ND	6.33e+3	ng/dscm	7%O2	6.71e-4	lbs/hr	CE7%O2
Diethylphthalate	216C3R2	ND	1.36e+4	ng/dscm	7%O2	1.36e-3	lbs/hr	CE7%O2
Diethylphthalate	216C3R3	ND	1.20e+4	ng/dscm	7%O2	1.13e-3	lbs/hr	CE7%O2
Diethylphthalate	216C7R1	ND	1.28e+4	ng/dscm	7%O2	1.46e-3	lbs/hr	CE7%O2
Diethylphthalate	216C7R2	ND	5.64e+3	ng/dscm	7%O2	6.13e-4	lbs/hr	CE7%O2
Diethylphthalate	216C7R3	ND	3.01e+5	ng/dscm	7%O2	3.83e-2	lbs/hr	CE7%O2
Dimethylphthalate	216C7R1	ND	1.24e+3	ng/dscm	7%O2	1.42e-4	lbs/hr	CE7%O2
Dimethylphthalate	216C7R2	ND	6.64e+3	ng/dscm	7%O2	7.21e-4	lbs/hr	CE7%O2
Dimethylphthalate	216C7R3	ND	2.46e+3	ng/dscm	7%O2	3.13e-4	lbs/hr	CE7%O2
Ethylbenzene	216C7R1	ND	1.37e+3	ng/dscm	7%O2	1.56e-4	lbs/hr	CE7%O2
Ethylbenzene	216C7R2	ND	1.59e+3	ng/dscm	7%O2	1.72e-4	lbs/hr	CE7%O2
Ethylbenzene	216C7R3	ND	1.36e+3	ng/dscm	7%O2	1.73e-4	lbs/hr	CE7%O2
Phenol	216C7R1	ND	1.56e+3	ng/dscm	7%O2	1.78e-4	lbs/hr	CE7%O2
Phenol	216C7R2	ND	6.64e+3	ng/dscm	7%O2	7.21e-4	lbs/hr	CE7%O2
Phenol	216C7R3	ND	6.15e+3	ng/dscm	7%O2	7.82e-4	lbs/hr	CE7%O2

7. Category: THC & CO

Analysis:

8. Substance	9. Run ID	Concentration	Mass Rate	Calc
CO	216C5R1	1.38e+0 ppmv 7%O2	1.71e-1 lbs/hr	CE7%O2
CO	216C5R2	1.23e+0 ppmv 7%O2	1.50e-1 lbs/hr	CE7%O2
CO	216C5R3	1.50e+0 ppmv 7%O2	1.78e-1 lbs/hr	CE7%O2
CO	216C6R1	2.57e+0 ppmv 7%O2	2.85e-1 lbs/hr	CE7%O2
CO	216C6R2	2.77e+1 ppmv 7%O2	3.08e+0 lbs/hr	CE7%O2
CO	216C6R3	ND 1.20e+0 ppmv 7%O2	1.42e-1 lbs/hr	CE7%O2
CO	216C7R1	8.58e+1 ppmv 7%O2	1.14e+1 lbs/hr	CE7%O2
CO	216C7R2	2.70e+1 ppmv 7%O2	3.40e+0 lbs/hr	CE7%O2
CO	216C7R3	1.99e+1 ppmv 7%O2	2.93e+0 lbs/hr	CE7%O2

US EPA ARCHIVE DOCUMENT

SECTION 7: EMISSIONS ANALYSES

1. COMPANY: ROLLINS ENVIRONMENTAL SERVICES  
 2. STATE: NJ  
 3. CITY: BRIDGEPORT  
 4. EP ID: 216 DEVICE NAME:

EPA ID: NJD053288239  
 SYSTEM TYPE: COMMERCIAL INCINERATOR APC SYSTEM: HES/WS

REGION: 2

7. Category: VOC

Analysis:

8. Substance	9. Run ID	Concentration	Mass Rate	Calc
1,1,1-Trichloroethane	216C7R1	ND 4.35e+3 ng/dscm 7%O2	4.96e-4 lbs/hr	CE7%O2
1,1,1-Trichloroethane	216C7R2	1.43e+4 ng/dscm 7%O2	1.56e-3 lbs/hr	CE7%O2
1,1,1-Trichloroethane	216C7R3	ND 1.15e+3 ng/dscm 7%O2	1.46e-4 lbs/hr	CE7%O2
1,1-Dichloroethene	216C7R1	ND 1.30e+3 ng/dscm 7%O2	1.49e-4 lbs/hr	CE7%O2
1,1-Dichloroethene	216C7R2	ND 1.20e+3 ng/dscm 7%O2	1.31e-4 lbs/hr	CE7%O2
1,1-Dichloroethene	216C7R3	ND 1.36e+3 ng/dscm 7%O2	1.73e-4 lbs/hr	CE7%O2
1,2-Dichloroethane	216C7R1	ND 1.40e+3 ng/dscm 7%O2	1.60e-4 lbs/hr	CE7%O2
1,2-Dichloroethane	216C7R2	1.32e+3 ng/dscm 7%O2	1.43e-4 lbs/hr	CE7%O2
1,2-Dichloroethane	216C7R3	ND 1.12e+3 ng/dscm 7%O2	1.42e-4 lbs/hr	CE7%O2
2-Hexanone	216C7R1	ND 3.17e+3 ng/dscm 7%O2	3.62e-4 lbs/hr	CE7%O2
2-Hexanone	216C7R2	ND 3.17e+3 ng/dscm 7%O2	3.44e-4 lbs/hr	CE7%O2
2-Hexanone	216C7R3	ND 2.10e+3 ng/dscm 7%O2	2.67e-4 lbs/hr	CE7%O2
Acetone	216C7R1	6.33e+5 ng/dscm 7%O2	7.22e-2 lbs/hr	CE7%O2
Acetone	216C7R2	2.20e+5 ng/dscm 7%O2	2.39e-2 lbs/hr	CE7%O2
Acetone	216C7R3	1.87e+5 ng/dscm 7%O2	2.38e-2 lbs/hr	CE7%O2
Benzene	216C7R1	ND 2.97e+3 ng/dscm 7%O2	3.39e-4 lbs/hr	CE7%O2
Benzene	216C7R2	ND 2.12e+3 ng/dscm 7%O2	2.30e-4 lbs/hr	CE7%O2
Benzene	216C7R3	ND 1.25e+3 ng/dscm 7%O2	1.59e-4 lbs/hr	CE7%O2
Bromodichloromethane	216C7R1	ND 1.26e+3 ng/dscm 7%O2	1.44e-4 lbs/hr	CE7%O2
Bromodichloromethane	216C7R2	2.53e+3 ng/dscm 7%O2	2.75e-4 lbs/hr	CE7%O2
Bromodichloromethane	216C7R3	8.90e+2 ng/dscm 7%O2	1.13e-4 lbs/hr	CE7%O2
Bromoform	216C3R1	1.27e+6 ng/dscm 7%O2	1.35e-1 lbs/hr	CE7%O2
Bromoform	216C3R2	3.28e+5 ng/dscm 7%O2	3.26e-2 lbs/hr	CE7%O2
Bromoform	216C3R3	7.71e+5 ng/dscm 7%O2	7.29e-2 lbs/hr	CE7%O2
Bromoform	216C7R1	1.35e+5 ng/dscm 7%O2	1.54e-2 lbs/hr	CE7%O2
Bromoform	216C7R2	2.72e+5 ng/dscm 7%O2	2.95e-2 lbs/hr	CE7%O2
Bromoform	216C7R3	1.70e+5 ng/dscm 7%O2	2.16e-2 lbs/hr	CE7%O2
Bromomethane	216C3R1	6.51e+4 ng/dscm 7%O2	6.90e-3 lbs/hr	CC7%O2
Bromomethane	216C3R2	1.15e+5 ng/dscm 7%O2	1.14e-2 lbs/hr	CC7%O2
Bromomethane	216C3R3	1.06e+4 ng/dscm 7%O2	1.00e-3 lbs/hr	CC7%O2
Bromomethane	216C7R1	ND 2.49e+3 ng/dscm 7%O2	2.84e-4 lbs/hr	CE7%O2
Bromomethane	216C7R2	ND 2.00e+3 ng/dscm 7%O2	2.17e-4 lbs/hr	CE7%O2
Bromomethane	216C7R3	ND 1.64e+3 ng/dscm 7%O2	2.09e-4 lbs/hr	CE7%O2
Carbon disulfide	216C3R1	1.48e+4 ng/dscm 7%O2	1.57e-3 lbs/hr	CE7%O2
Carbon disulfide	216C3R2	7.71e+3 ng/dscm 7%O2	7.66e-4 lbs/hr	CE7%O2
Carbon disulfide	216C3R3	3.83e+4 ng/dscm 7%O2	3.62e-3 lbs/hr	CE7%O2
Carbon disulfide	216C7R1	ND 1.59e+3 ng/dscm 7%O2	1.82e-4 lbs/hr	CE7%O2
Carbon disulfide	216C7R2	ND 1.27e+3 ng/dscm 7%O2	1.38e-4 lbs/hr	CE7%O2
Carbon disulfide	216C7R3	ND 1.36e+3 ng/dscm 7%O2	1.73e-4 lbs/hr	CE7%O2
Carbon Tetrachloride	216C3R1	1.79e+3 ng/dscm 7%O2	1.90e-4 lbs/hr	CE7%O2
Carbon Tetrachloride	216C3R2	4.77e+3 ng/dscm 7%O2	4.74e-4 lbs/hr	CE7%O2
Carbon Tetrachloride	216C3R3	4.28e+3 ng/dscm 7%O2	4.05e-4 lbs/hr	CE7%O2
Carbon Tetrachloride	216C7R1	2.39e+4 ng/dscm 7%O2	2.72e-3 lbs/hr	CE7%O2
Carbon Tetrachloride	216C7R2	1.61e+3 ng/dscm 7%O2	1.75e-4 lbs/hr	CE7%O2
Carbon Tetrachloride	216C7R3	8.43e+3 ng/dscm 7%O2	1.07e-3 lbs/hr	CE7%O2
Chlorobenzene	216C7R1	ND 1.59e+3 ng/dscm 7%O2	1.82e-4 lbs/hr	CE7%O2
Chlorobenzene	216C7R2	ND 1.37e+3 ng/dscm 7%O2	1.49e-4 lbs/hr	CE7%O2
Chlorobenzene	216C7R3	ND 1.36e+3 ng/dscm 7%O2	1.73e-4 lbs/hr	CE7%O2
Chlorodifluoromethane	216C7R1	ND 3.17e+3 ng/dscm 7%O2	3.62e-4 lbs/hr	CE7%O2
Chlorodifluoromethane	216C7R2	ND 4.67e+3 ng/dscm 7%O2	5.07e-4 lbs/hr	CE7%O2
Chlorodifluoromethane	216C7R3	5.46e+3 ng/dscm 7%O2	6.95e-4 lbs/hr	CE7%O2
Chloroform	216C3R1	6.28e+3 ng/dscm 7%O2	6.66e-4 lbs/hr	CE7%O2
Chloroform	216C3R2	6.04e+3 ng/dscm 7%O2	6.00e-4 lbs/hr	CE7%O2
Chloroform	216C3R3	3.76e+5 ng/dscm 7%O2	3.55e-2 lbs/hr	CE7%O2
Chloroform	216C7R1	2.87e+4 ng/dscm 7%O2	3.28e-3 lbs/hr	CE7%O2
Chloroform	216C7R2	6.36e+3 ng/dscm 7%O2	6.91e-4 lbs/hr	CE7%O2

US EPA ARCHIVE DOCUMENT



SECTION 7: EMISSIONS ANALYSES

1. COMPANY: ROLLINS ENVIRONMENTAL SERVICES  
 2. STATE: NJ  
 3. CITY: BRIDGEPORT  
 4. EP ID: 216 DEVICE NAME:

EPA NJD053288239  
 SYSTEM TYPE: COMMERCIAL INCINERATOR APC SYSTEM: HES/WS

REGION: 2

Chloroform	216C7R3		4.81e+3	ng/dscm	7%O2	6.11e-4	lbs/hr	CE7%O2
Chloromethane	216C3R1		1.17e+4	ng/dscm	7%O2	1.24e-3	lbs/hr	CE7%O2
Chloromethane	216C3R2		5.24e+4	ng/dscm	7%O2	5.20e-3	lbs/hr	CE7%O2
Chloromethane	216C3R3		5.28e+5	ng/dscm	7%O2	4.99e-2	lbs/hr	CE7%O2
Chloromethane	216C7R1	ND	3.17e+3	ng/dscm	7%O2	3.62e-4	lbs/hr	CE7%O2
Chloromethane	216C7R2	ND	4.32e+3	ng/dscm	7%O2	4.69e-4	lbs/hr	CE7%O2
Chloromethane	216C7R3	ND	4.65e+3	ng/dscm	7%O2	5.91e-4	lbs/hr	CE7%O2
Dibromochloromethane	216C3R1		5.05e+4	ng/dscm	7%O2	5.36e-3	lbs/hr	CE7%O2
Dibromochloromethane	216C3R2		2.81e+4	ng/dscm	7%O2	2.80e-3	lbs/hr	CE7%O2
Dibromochloromethane	216C3R3		4.68e+4	ng/dscm	7%O2	4.43e-3	lbs/hr	CE7%O2
Dibromochloromethane	216C7R1		5.82e+3	ng/dscm	7%O2	6.65e-4	lbs/hr	CE7%O2
Dibromochloromethane	216C7R2		1.56e+4	ng/dscm	7%O2	1.69e-3	lbs/hr	CE7%O2
Dibromochloromethane	216C7R3		7.63e+3	ng/dscm	7%O2	9.71e-4	lbs/hr	CE7%O2
Freon 22	216C3R1	ND	4.91e+3	ng/dscm	7%O2	5.20e-4	lbs/hr	CC7%O2
Freon 22	216C3R2	ND	4.74e+3	ng/dscm	7%O2	4.70e-4	lbs/hr	CC7%O2
Freon 22	216C3R3	ND	3.92e+3	ng/dscm	7%O2	3.70e-4	lbs/hr	CC7%O2
Methyl Ethyl Ketone	216C7R1	ND	9.52e+3	ng/dscm	7%O2	1.09e-3	lbs/hr	CE7%O2
Methyl Ethyl Ketone	216C7R2	ND	3.17e+3	ng/dscm	7%O2	3.44e-4	lbs/hr	CE7%O2
Methyl Ethyl Ketone	216C7R3	ND	2.72e+3	ng/dscm	7%O2	3.46e-4	lbs/hr	CE7%O2
Methylene Chloride	216C3R1		5.92e+4	ng/dscm	7%O2	6.28e-3	lbs/hr	CE7%O2
Methylene Chloride	216C3R2		4.21e+4	ng/dscm	7%O2	4.18e-3	lbs/hr	CE7%O2
Methylene Chloride	216C3R3		2.52e+4	ng/dscm	7%O2	2.38e-3	lbs/hr	CE7%O2
Methylene Chloride	216C7R1		2.85e+5	ng/dscm	7%O2	3.25e-2	lbs/hr	CE7%O2
Methylene Chloride	216C7R2		1.04e+5	ng/dscm	7%O2	1.12e-2	lbs/hr	CE7%O2
Methylene Chloride	216C7R3		9.52e+4	ng/dscm	7%O2	1.21e-2	lbs/hr	CE7%O2
Styrene	216C7R1	ND	1.07e+3	ng/dscm	7%O2	1.22e-4	lbs/hr	CE7%O2
Styrene	216C7R2	ND	1.59e+3	ng/dscm	7%O2	1.72e-4	lbs/hr	CE7%O2
Styrene	216C7R3	ND	1.36e+3	ng/dscm	7%O2	1.73e-4	lbs/hr	CE7%O2
Tetrachloroethane	216C7R1		1.51e+4	ng/dscm	7%O2	1.72e-3	lbs/hr	CE7%O2
Tetrachloroethane	216C7R2		1.28e+4	ng/dscm	7%O2	1.39e-3	lbs/hr	CE7%O2
Tetrachloroethane	216C7R3		1.91e+3	ng/dscm	7%O2	2.43e-4	lbs/hr	CE7%O2
Toluene	216C3R1		9.23e+3	ng/dscm	7%O2	9.79e-4	lbs/hr	CE7%O2
Toluene	216C3R2		4.67e+3	ng/dscm	7%O2	4.64e-4	lbs/hr	CE7%O2
Toluene	216C3R3	ND	3.82e+3	ng/dscm	7%O2	3.61e-4	lbs/hr	CE7%O2
Toluene	216C7R1		2.81e+4	ng/dscm	7%O2	3.21e-3	lbs/hr	CE7%O2
Toluene	216C7R2		2.45e+3	ng/dscm	7%O2	2.66e-4	lbs/hr	CE7%O2
Toluene	216C7R3		1.98e+3	ng/dscm	7%O2	2.52e-4	lbs/hr	CE7%O2
Total Xylene	216C7R1		4.20e+3	ng/dscm	7%O2	4.80e-4	lbs/hr	CE7%O2
Total Xylene	216C7R2	ND	1.59e+3	ng/dscm	7%O2	1.72e-4	lbs/hr	CE7%O2
Total Xylene	216C7R3	ND	1.36e+3	ng/dscm	7%O2	1.73e-4	lbs/hr	CE7%O2
Trichloroethene	216C7R1	ND	3.98e+3	ng/dscm	7%O2	4.55e-4	lbs/hr	CE7%O2
Trichloroethene	216C7R2		1.44e+4	ng/dscm	7%O2	1.56e-3	lbs/hr	CE7%O2
Trichloroethene	216C7R3		9.20e+3	ng/dscm	7%O2	1.17e-3	lbs/hr	CE7%O2
Trichlorofluoromethane	216C3R1		1.74e+4	ng/dscm	7%O2	1.85e-3	lbs/hr	CE7%O2
Trichlorofluoromethane	216C3R2		1.47e+4	ng/dscm	7%O2	1.46e-3	lbs/hr	CE7%O2
Trichlorofluoromethane	216C3R3		1.18e+5	ng/dscm	7%O2	1.12e-2	lbs/hr	CE7%O2
Vinyl Acetate	216C7R1	ND	2.51e+3	ng/dscm	7%O2	2.86e-4	lbs/hr	CE7%O2
Vinyl Acetate	216C7R2	ND	3.17e+3	ng/dscm	7%O2	3.44e-4	lbs/hr	CE7%O2
Vinyl Acetate	216C7R3	ND	2.72e+3	ng/dscm	7%O2	3.46e-4	lbs/hr	CE7%O2

US EPA ARCHIVE DOCUMENT

SECTION 7: EMISSIONS ANALYSES

1. COMPANY: ROLLINS ENVIRONMENTAL SERVICES

2. STATE: TX

3. CITY: DEER PARK

EPA ID: TX0055141378

REGION: 6

4. EP ID: 221 DEVICE NAME: RES (TX) INCINERATOR

SYSTEM TYPE: COMMERCIAL INCINERATOR

APC SYSTEM: PT

5. Type: CONTROLLED

6. Description: EMISSIONS

Process Group: ROTARY KILN

Location: STACK

Phase: GAS

7. Category: Dioxin & Furan

Analysis:

8. Substance	9. Run ID	Concentration	Mass Rate	Calc
4D 2378	221C1	2.97e-1 ng/dscm 7%O2	2.83e-8 lbs/hr	CE7%O2
4D 2378	221C2	1.53e-1 ng/dscm 7%O2	1.69e-8 lbs/hr	CE7%O2
4D 2378	221C3	5.36e-1 ng/dscm 7%O2	8.09e-8 lbs/hr	CE7%O2
4D 2378	221C4	5.51e-2 ng/dscm 7%O2	8.82e-9 lbs/hr	CE7%O2
4D 2378	221C5	7.37e-1 ng/dscm 7%O2	1.11e-7 lbs/hr	CE7%O2
4D Other	221C1	-2.10e-1 ng/dscm 7%O2	-2.00e-8 lbs/hr	OCE
4D Other	221C2	-1.44e-1 ng/dscm 7%O2	-1.60e-8 lbs/hr	OCE
4D Other	221C3	-4.50e-1 ng/dscm 7%O2	-6.79e-8 lbs/hr	OCE
4D Other	221C4	7.29e-2 ng/dscm 7%O2	1.17e-8 lbs/hr	OCE
4D Other	221C5	-5.84e-1 ng/dscm 7%O2	-8.76e-8 lbs/hr	OCE
4D Total	221C1	8.76e-2 ng/dscm 7%O2	8.35e-9 lbs/hr	CE7%O2
4D Total	221C2	ND 8.27e-3 ng/dscm 7%O2	9.18e-10 lbs/hr	CE7%O2
4D Total	221C3	8.67e-2 ng/dscm 7%O2	1.31e-8 lbs/hr	CE7%O2
4D Total	221C4	1.28e-1 ng/dscm 7%O2	2.05e-8 lbs/hr	CE7%O2
4D Total	221C5	ND 1.53e-1 ng/dscm 7%O2	2.29e-8 lbs/hr	CE7%O2
4F 2378	221C1	2.94e-1 ng/dscm 7%O2	2.80e-8 lbs/hr	CE7%O2
4F 2378	221C2	1.66e-1 ng/dscm 7%O2	1.84e-8 lbs/hr	CE7%O2
4F 2378	221C3	4.42e-1 ng/dscm 7%O2	6.67e-8 lbs/hr	CE7%O2
4F 2378	221C4	1.62e-1 ng/dscm 7%O2	2.60e-8 lbs/hr	CE7%O2
4F 2378	221C5	1.28e-1 ng/dscm 7%O2	1.93e-8 lbs/hr	CE7%O2
4F Other	221C1	1.34e+0 ng/dscm 7%O2	1.27e-7 lbs/hr	OCE
4F Other	221C2	1.41e+0 ng/dscm 7%O2	1.56e-7 lbs/hr	OCE
4F Other	221C3	1.54e+0 ng/dscm 7%O2	2.33e-7 lbs/hr	OCE
4F Other	221C4	8.54e-1 ng/dscm 7%O2	1.37e-7 lbs/hr	OCE
4F Other	221C5	1.41e+0 ng/dscm 7%O2	2.12e-7 lbs/hr	OCE
4F Total	221C1	1.63e+0 ng/dscm 7%O2	1.55e-7 lbs/hr	CE7%O2
4F Total	221C2	1.57e+0 ng/dscm 7%O2	1.74e-7 lbs/hr	CE7%O2
4F Total	221C3	1.99e+0 ng/dscm 7%O2	3.00e-7 lbs/hr	CE7%O2
4F Total	221C4	1.02e+0 ng/dscm 7%O2	1.63e-7 lbs/hr	CE7%O2
4F Total	221C5	1.54e+0 ng/dscm 7%O2	2.31e-7 lbs/hr	CE7%O2
5D 12378	221C1	ND 1.86e-2 ng/dscm 7%O2	1.78e-9 lbs/hr	CE7%O2
5D 12378	221C2	ND 7.42e-3 ng/dscm 7%O2	8.23e-10 lbs/hr	CE7%O2
5D 12378	221C3	ND 1.06e-2 ng/dscm 7%O2	1.60e-9 lbs/hr	CE7%O2
5D 12378	221C4	ND 5.22e-3 ng/dscm 7%O2	8.36e-10 lbs/hr	CE7%O2
5D 12378	221C5	ND 4.01e-3 ng/dscm 7%O2	6.03e-10 lbs/hr	CE7%O2
5D Other	221C1	-1.86e-6 ng/dscm 7%O2	-1.77e-13 lbs/hr	OCE
5D Other	221C2	1.94e-1 ng/dscm 7%O2	2.15e-8 lbs/hr	OCE
5D Other	221C3	1.02e-1 ng/dscm 7%O2	1.53e-8 lbs/hr	OCE
5D Other	221C4	1.54e+0 ng/dscm 7%O2	2.47e-7 lbs/hr	OCE
5D Other	221C5	2.54e-1 ng/dscm 7%O2	3.82e-8 lbs/hr	OCE
5D Total	221C1	ND 1.86e-2 ng/dscm 7%O2	1.78e-9 lbs/hr	CE7%O2
5D Total	221C2	ND 2.01e-1 ng/dscm 7%O2	2.23e-8 lbs/hr	CE7%O2
5D Total	221C3	ND 1.12e-1 ng/dscm 7%O2	1.69e-8 lbs/hr	CE7%O2
5D Total	221C4	ND 1.55e+0 ng/dscm 7%O2	2.48e-7 lbs/hr	CE7%O2
5D Total	221C5	ND 2.58e-1 ng/dscm 7%O2	3.88e-8 lbs/hr	CE7%O2
5F 12378	221C1	3 3.87e-2 ng/dscm 7%O2	3.69e-9 lbs/hr	CE7%O2
5F 12378	221C2	ND 6.19e-3 ng/dscm 7%O2	6.86e-10 lbs/hr	CE7%O2
5F 12378	221C3	3 2.12e-2 ng/dscm 7%O2	3.20e-9 lbs/hr	CE7%O2
5F 12378	221C4	3 2.93e-2 ng/dscm 7%O2	4.69e-9 lbs/hr	CE7%O2
5F 12378	221C5	1.17e-2 ng/dscm 7%O2	1.76e-9 lbs/hr	CE7%O2
5F 23478	221C1	3 6.29e-2 ng/dscm 7%O2	6.00e-9 lbs/hr	CE7%O2
5F 23478	221C2	3.26e-2 ng/dscm 7%O2	3.61e-9 lbs/hr	CE7%O2
5F 23478	221C3	6.61e-2 ng/dscm 7%O2	9.97e-9 lbs/hr	CE7%O2
5F 23478	221C4	3.02e-2 ng/dscm 7%O2	4.83e-9 lbs/hr	CE7%O2
5F 23478	221C5	3.06e-2 ng/dscm 7%O2	4.59e-9 lbs/hr	CE7%O2

US EPA ARCHIVE DOCUMENT

SECTION 7: EMISSIONS ANALYSES

1. COMPANY: ROLLINS ENVIRONMENTAL SERVICES

2. STATE: TX

3. CITY: DEER PARK

EPA ID: TX0055141378

REGION: 6

4. EP ID: 221 DEVICE NAME: RES (TX) INCINERATOR

SYSTEM TYPE: COMMERCIAL INCINERATOR

APC SYSTEM: PT

5F Other	221C1		1.23e-1	ng/dscm	7%O2	1.17e-8	lbs/hr	OCE
5F Other	221C2		1.81e-1	ng/dscm	7%O2	2.01e-8	lbs/hr	OCE
5F Other	221C3		3.00e-1	ng/dscm	7%O2	4.52e-8	lbs/hr	OCE
5F Other	221C4		2.19e-1	ng/dscm	7%O2	3.50e-8	lbs/hr	OCE
5F Other	221C5		2.80e-1	ng/dscm	7%O2	4.20e-8	lbs/hr	OCE
5F Total	221C1		2.25e-1	ng/dscm	7%O2	2.14e-8	lbs/hr	CE7%O2
5F Total	221C2		2.20e-1	ng/dscm	7%O2	2.44e-8	lbs/hr	CE7%O2
5F Total	221C3		3.87e-1	ng/dscm	7%O2	5.84e-8	lbs/hr	CE7%O2
5F Total	221C4		2.78e-1	ng/dscm	7%O2	4.45e-8	lbs/hr	CE7%O2
5F Total	221C5		3.22e-1	ng/dscm	7%O2	4.84e-8	lbs/hr	CE7%O2
6D 123478	221C1	ND	1.63e-2	ng/dscm	7%O2	1.55e-9	lbs/hr	CE7%O2
6D 123478	221C2	ND	1.03e-2	ng/dscm	7%O2	1.14e-9	lbs/hr	CE7%O2
6D 123478	221C3	ND	1.00e-2	ng/dscm	7%O2	1.51e-9	lbs/hr	CE7%O2
6D 123478	221C4	ND	8.70e-3	ng/dscm	7%O2	1.39e-9	lbs/hr	CE7%O2
6D 123478	221C5	ND	4.01e-3	ng/dscm	7%O2	6.03e-10	lbs/hr	CE7%O2
6D 123678	221C1	ND	1.54e-2	ng/dscm	7%O2	1.47e-9	lbs/hr	CE7%O2
6D 123678	221C2	ND	9.07e-3	ng/dscm	7%O2	1.01e-9	lbs/hr	CE7%O2
6D 123678	221C3	ND	9.09e-3	ng/dscm	7%O2	1.37e-9	lbs/hr	CE7%O2
6D 123678	221C4	ND	7.25e-3	ng/dscm	7%O2	1.16e-9	lbs/hr	CE7%O2
6D 123678	221C5	ND	4.01e-3	ng/dscm	7%O2	6.03e-10	lbs/hr	CE7%O2
6D 123789	221C1	ND	2.10e-2	ng/dscm	7%O2	2.00e-9	lbs/hr	CE7%O2
6D 123789	221C2	ND	1.24e-2	ng/dscm	7%O2	1.37e-9	lbs/hr	CE7%O2
6D 123789	221C3	ND	1.12e-2	ng/dscm	7%O2	1.69e-9	lbs/hr	CE7%O2
6D 123789	221C4	ND	1.02e-2	ng/dscm	7%O2	1.63e-9	lbs/hr	CE7%O2
6D 123789	221C5	ND	4.63e-3	ng/dscm	7%O2	6.95e-10	lbs/hr	CE7%O2
6D Other	221C1		4.06e-2	ng/dscm	7%O2	3.87e-9	lbs/hr	OCE
6D Other	221C2		1.39e-1	ng/dscm	7%O2	1.54e-8	lbs/hr	OCE
6D Other	221C3		2.04e-1	ng/dscm	7%O2	3.08e-8	lbs/hr	OCE
6D Other	221C4		2.90e-1	ng/dscm	7%O2	4.64e-8	lbs/hr	OCE
6D Other	221C5		3.65e-1	ng/dscm	7%O2	5.48e-8	lbs/hr	OCE
6D Total	221C1	ND	9.32e-2	ng/dscm	7%O2	8.89e-9	lbs/hr	CE7%O2
6D Total	221C2	ND	1.71e-1	ng/dscm	7%O2	1.89e-8	lbs/hr	CE7%O2
6D Total	221C3	ND	2.34e-1	ng/dscm	7%O2	3.54e-8	lbs/hr	CE7%O2
6D Total	221C4	ND	3.16e-1	ng/dscm	7%O2	5.06e-8	lbs/hr	CE7%O2
6D Total	221C5	ND	3.78e-1	ng/dscm	7%O2	5.67e-8	lbs/hr	CE7%O2
6F 123478	221C1		4.57e-2	ng/dscm	7%O2	4.35e-9	lbs/hr	CE7%O2
6F 123478	221C2	3	2.76e-2	ng/dscm	7%O2	3.06e-9	lbs/hr	CE7%O2
6F 123478	221C3		5.42e-2	ng/dscm	7%O2	8.19e-9	lbs/hr	CE7%O2
6F 123478	221C4		3.80e-2	ng/dscm	7%O2	6.08e-9	lbs/hr	CE7%O2
6F 123478	221C5		3.09e-2	ng/dscm	7%O2	4.63e-9	lbs/hr	CE7%O2
6F 123678	221C1	3	3.45e-2	ng/dscm	7%O2	3.29e-9	lbs/hr	CE7%O2
6F 123678	221C2	ND	5.36e-3	ng/dscm	7%O2	5.95e-10	lbs/hr	CE7%O2
6F 123678	221C3	ND	4.55e-3	ng/dscm	7%O2	6.86e-10	lbs/hr	CE7%O2
6F 123678	221C4	3	2.00e-2	ng/dscm	7%O2	3.20e-9	lbs/hr	CE7%O2
6F 123678	221C5	3	1.91e-2	ng/dscm	7%O2	2.87e-9	lbs/hr	CE7%O2
6F 123789	221C1	ND	1.40e-2	ng/dscm	7%O2	1.33e-9	lbs/hr	CE7%O2
6F 123789	221C2	ND	9.07e-3	ng/dscm	7%O2	1.01e-9	lbs/hr	CE7%O2
6F 123789	221C3	ND	9.09e-3	ng/dscm	7%O2	1.37e-9	lbs/hr	CE7%O2
6F 123789	221C4	ND	6.38e-3	ng/dscm	7%O2	1.02e-9	lbs/hr	CE7%O2
6F 123789	221C5	ND	3.09e-3	ng/dscm	7%O2	4.63e-10	lbs/hr	CE7%O2
6F 234678	221C1	ND	1.03e-2	ng/dscm	7%O2	9.77e-10	lbs/hr	CE7%O2
6F 234678	221C2	ND	7.42e-3	ng/dscm	7%O2	8.23e-10	lbs/hr	CE7%O2
6F 234678	221C3	3	3.09e-2	ng/dscm	7%O2	4.66e-9	lbs/hr	CE7%O2
6F 234678	221C4	ND	5.22e-3	ng/dscm	7%O2	8.36e-10	lbs/hr	CE7%O2
6F 234678	221C5		1.61e-2	ng/dscm	7%O2	2.41e-9	lbs/hr	CE7%O2
6F Other	221C1		3.17e-2	ng/dscm	7%O2	3.02e-9	lbs/hr	OCE
6F Other	221C2		5.28e-2	ng/dscm	7%O2	5.86e-9	lbs/hr	OCE
6F Other	221C3		6.55e-2	ng/dscm	7%O2	9.89e-9	lbs/hr	OCE
6F Other	221C4		2.58e-2	ng/dscm	7%O2	4.14e-9	lbs/hr	OCE
6F Other	221C5		4.26e-2	ng/dscm	7%O2	6.40e-9	lbs/hr	OCE
6F Total	221C1		1.36e-1	ng/dscm	7%O2	1.30e-8	lbs/hr	CE7%O2

US EPA ARCHIVE DOCUMENT

SECTION 7: EMISSIONS ANALYSES

1. COMPANY: ROLLINS ENVIRONMENTAL SERVICES

2. STATE: TX

3. CITY: DEER PARK

EPA ID: TX0055141378

REGION: 6

4. EP ID: 221 DEVICE NAME: RES (TX) INCINERATOR

SYSTEM TYPE: COMMERCIAL INCINERATOR

APC SYSTEM: PT

6F Total	221C2	ND	1.02e-1	ng/dscm	7%O2	1.13e-8	lbs/hr	CE7%O2
6F Total	221C3		1.64e-1	ng/dscm	7%O2	2.48e-8	lbs/hr	CE7%O2
6F Total	221C4		9.55e-2	ng/dscm	7%O2	1.53e-8	lbs/hr	CE7%O2
6F Total	221C5		1.12e-1	ng/dscm	7%O2	1.68e-8	lbs/hr	CE7%O2
7D 1234678	221C1	ND	2.80e-2	ng/dscm	7%O2	2.66e-9	lbs/hr	CE7%O2
7D 1234678	221C2	ND	1.86e-2	ng/dscm	7%O2	2.06e-9	lbs/hr	CE7%O2
7D 1234678	221C3		6.30e-2	ng/dscm	7%O2	9.51e-9	lbs/hr	CE7%O2
7D 1234678	221C4	ND	2.90e-2	ng/dscm	7%O2	4.64e-9	lbs/hr	CE7%O2
7D 1234678	221C5	3	2.01e-2	ng/dscm	7%O2	3.01e-9	lbs/hr	CE7%O2
7D Other	221C1		-2.79e-6	ng/dscm	7%O2	-2.66e-13	lbs/hr	OCE
7D Other	221C2		2.95e-5	ng/dscm	7%O2	3.27e-12	lbs/hr	OCE
7D Other	221C3		1.44e-5	ng/dscm	7%O2	2.18e-12	lbs/hr	OCE
7D Other	221C4		5.25e-6	ng/dscm	7%O2	8.40e-13	lbs/hr	OCE
7D Other	221C5		4.60e-2	ng/dscm	7%O2	6.91e-9	lbs/hr	OCE
7D Total	221C1	ND	2.80e-2	ng/dscm	7%O2	2.66e-9	lbs/hr	CE7%O2
7D Total	221C2	ND	1.86e-2	ng/dscm	7%O2	2.06e-9	lbs/hr	CE7%O2
7D Total	221C3		6.30e-2	ng/dscm	7%O2	9.51e-9	lbs/hr	CE7%O2
7D Total	221C4	ND	2.90e-2	ng/dscm	7%O2	4.64e-9	lbs/hr	CE7%O2
7D Total	221C5	ND	6.61e-2	ng/dscm	7%O2	9.92e-9	lbs/hr	CE7%O2
7F 1234678	221C1	3	7.32e-2	ng/dscm	7%O2	6.97e-9	lbs/hr	CE7%O2
7F 1234678	221C2		7.05e-2	ng/dscm	7%O2	7.82e-9	lbs/hr	CE7%O2
7F 1234678	221C3		9.09e-2	ng/dscm	7%O2	1.37e-8	lbs/hr	CE7%O2
7F 1234678	221C4		7.46e-2	ng/dscm	7%O2	1.19e-8	lbs/hr	CE7%O2
7F 1234678	221C5		5.22e-2	ng/dscm	7%O2	7.83e-9	lbs/hr	CE7%O2
7F 1234789	221C1	ND	1.86e-2	ng/dscm	7%O2	1.78e-9	lbs/hr	CE7%O2
7F 1234789	221C2	ND	1.44e-2	ng/dscm	7%O2	1.60e-9	lbs/hr	CE7%O2
7F 1234789	221C3	ND	1.12e-2	ng/dscm	7%O2	1.69e-9	lbs/hr	CE7%O2
7F 1234789	221C4	ND	1.74e-2	ng/dscm	7%O2	2.79e-9	lbs/hr	CE7%O2
7F 1234789	221C5	ND	6.17e-3	ng/dscm	7%O2	9.27e-10	lbs/hr	CE7%O2
7F Other	221C1		1.08e-2	ng/dscm	7%O2	1.03e-9	lbs/hr	OCE
7F Other	221C2		-4.53e-3	ng/dscm	7%O2	-5.03e-10	lbs/hr	OCE
7F Other	221C3		1.25e-3	ng/dscm	7%O2	1.89e-10	lbs/hr	OCE
7F Other	221C4		-7.22e-3	ng/dscm	7%O2	-1.16e-9	lbs/hr	OCE
7F Other	221C5		9.38e-4	ng/dscm	7%O2	1.41e-10	lbs/hr	OCE
7F Total	221C1	ND	1.03e-1	ng/dscm	7%O2	9.78e-9	lbs/hr	CE7%O2
7F Total	221C2		8.04e-2	ng/dscm	7%O2	8.92e-9	lbs/hr	CE7%O2
7F Total	221C3		1.03e-1	ng/dscm	7%O2	1.56e-8	lbs/hr	CE7%O2
7F Total	221C4		8.48e-2	ng/dscm	7%O2	1.36e-8	lbs/hr	CE7%O2
7F Total	221C5		5.93e-2	ng/dscm	7%O2	8.90e-9	lbs/hr	CE7%O2
8D	221C1	ND	8.16e-2	ng/dscm	7%O2	7.78e-9	lbs/hr	CE7%O2
8D	221C2	ND	5.57e-2	ng/dscm	7%O2	6.18e-9	lbs/hr	CE7%O2
8D	221C3		1.64e-1	ng/dscm	7%O2	2.47e-8	lbs/hr	CE7%O2
8D	221C4	ND	1.84e-1	ng/dscm	7%O2	2.95e-8	lbs/hr	CE7%O2
8D	221C5	ND	4.11e-2	ng/dscm	7%O2	6.17e-9	lbs/hr	CE7%O2
8F	221C1	ND	4.99e-2	ng/dscm	7%O2	4.76e-9	lbs/hr	CE7%O2
8F	221C2	ND	3.42e-2	ng/dscm	7%O2	3.80e-9	lbs/hr	CE7%O2
8F	221C3		6.64e-2	ng/dscm	7%O2	1.00e-8	lbs/hr	CE7%O2
8F	221C4	ND	1.12e-1	ng/dscm	7%O2	1.79e-8	lbs/hr	CE7%O2
8F	221C5	ND	2.47e-2	ng/dscm	7%O2	3.71e-9	lbs/hr	CE7%O2
TEQ	221C1		3.86e-1	ng/dscm	7%O2	3.68e-8	lbs/hr	CCET
TEQ	221C2		1.99e-1	ng/dscm	7%O2	2.20e-8	lbs/hr	CCET
TEQ	221C3		6.35e-1	ng/dscm	7%O2	9.58e-8	lbs/hr	CCET
TEQ	221C4		1.02e-1	ng/dscm	7%O2	1.63e-8	lbs/hr	CCET
TEQ	221C5		7.76e-1	ng/dscm	7%O2	1.17e-7	lbs/hr	CCET
Total PCDD/PCDF	221C1		2.45e+0	ng/dscm	7%O2	2.34e-7	lbs/hr	CCET
Total PCDD/PCDF	221C2		2.46e+0	ng/dscm	7%O2	2.73e-7	lbs/hr	CCET
Total PCDD/PCDF	221C3		3.37e+0	ng/dscm	7%O2	5.08e-7	lbs/hr	CCET
Total PCDD/PCDF	221C4		3.79e+0	ng/dscm	7%O2	6.07e-7	lbs/hr	CCET
Total PCDD/PCDF	221C5		2.95e+0	ng/dscm	7%O2	4.43e-7	lbs/hr	CCET

US EPA ARCHIVE DOCUMENT

SECTION 7: EMISSIONS ANALYSES

1. COMPANY: ROLLINS ENVIRONMENTAL SERVICES

2. STATE: TX

3. CITY: DEER PARK

EPA ID: TX0055141378

REGION: 6

4. EP ID: 221 DEVICE NAME: RES (TX) INCINERATOR

SYSTEM TYPE: COMMERCIAL INCINERATOR

APC SYSTEM: PT

7. Category: Halogens

Analysis:

8. Substance	9. Run ID	Concentration		Mass Rate	Calc
Chlorine	221C1R1	2.73e+0	ppmv 7%O2	8.14e-1 lbs/hr	CC7%O2
Chlorine	221C1R2	4.69e+0	ppmv 7%O2	1.29e+0 lbs/hr	CC7%O2
Chlorine	221C1R3	4.95e+0	ppmv 7%O2	1.51e+0 lbs/hr	CC7%O2
Chlorine	221C2R1	3.37e+0	ppmv 7%O2	1.06e+0 lbs/hr	CC7%O2
Chlorine	221C2R2	4.17e+0	ppmv 7%O2	1.33e+0 lbs/hr	CC7%O2
Chlorine	221C2R3	3.46e+0	ppmv 7%O2	1.19e+0 lbs/hr	CC7%O2
Chlorine	221C3R1	3.25e+0	ppmv 7%O2	1.46e+0 lbs/hr	CC7%O2
Chlorine	221C3R2	3.24e+0	ppmv 7%O2	1.44e+0 lbs/hr	CC7%O2
Chlorine	221C3R3	2.10e+0	ppmv 7%O2	8.83e-1 lbs/hr	CC7%O2
Chlorine	221C4R1	9.57e+0	ppmv 7%O2	4.30e+0 lbs/hr	CC7%O2
Chlorine	221C4R2	6.13e+0	ppmv 7%O2	2.88e+0 lbs/hr	CC7%O2
Chlorine	221C4R3	9.94e+0	ppmv 7%O2	4.58e+0 lbs/hr	CC7%O2
Chlorine	221C5R1	9.53e+0	ppmv 7%O2	4.05e+0 lbs/hr	CC7%O2
Chlorine	221C5R2	1.07e+1	ppmv 7%O2	4.48e+0 lbs/hr	CC7%O2
Chlorine	221C5R3	9.57e+0	ppmv 7%O2	4.37e+0 lbs/hr	CC7%O2
HCl	221C1R1	ND	5.47e+0 ppmv 7%O2	8.37e-1 lbs/hr	CC7%O2
HCl	221C1R2	ND	9.38e+0 ppmv 7%O2	1.33e+0 lbs/hr	CC7%O2
HCl	221C1R3	ND	9.90e+0 ppmv 7%O2	1.55e+0 lbs/hr	CC7%O2
HCl	221C2R1	ND	6.74e+0 ppmv 7%O2	1.09e+0 lbs/hr	CC7%O2
HCl	221C2R2	ND	8.34e+0 ppmv 7%O2	1.36e+0 lbs/hr	CC7%O2
HCl	221C2R3	ND	6.92e+0 ppmv 7%O2	1.22e+0 lbs/hr	CC7%O2
HCl	221C3R1	ND	6.49e+0 ppmv 7%O2	1.50e+0 lbs/hr	CC7%O2
HCl	221C3R2	ND	6.49e+0 ppmv 7%O2	1.48e+0 lbs/hr	CC7%O2
HCl	221C3R3	ND	4.19e+0 ppmv 7%O2	9.08e-1 lbs/hr	CC7%O2
HCl	221C4R1	ND	1.91e+1 ppmv 7%O2	4.42e+0 lbs/hr	CC7%O2
HCl	221C4R2	ND	1.23e+1 ppmv 7%O2	2.96e+0 lbs/hr	CC7%O2
HCl	221C4R3	ND	1.99e+1 ppmv 7%O2	4.70e+0 lbs/hr	CC7%O2
HCl	221C5R1	ND	1.91e+1 ppmv 7%O2	4.17e+0 lbs/hr	CC7%O2
HCl	221C5R2	ND	2.14e+1 ppmv 7%O2	4.61e+0 lbs/hr	CC7%O2
HCl	221C5R3	ND	1.91e+1 ppmv 7%O2	4.49e+0 lbs/hr	CC7%O2

7. Category: Metals

Analysis:

8. Substance	9. Run ID	Concentration		Mass Rate	Calc
Arsenic	221C1R1	ND	2.60e+0 ug/dscm 7%O2	3.00e-4 lbs/hr	7%O2
Arsenic	221C1R2	ND	2.91e+0 ug/dscm 7%O2	3.00e-4 lbs/hr	7%O2
Arsenic	221C1R3	ND	2.41e+0 ug/dscm 7%O2	3.00e-4 lbs/hr	7%O2
Arsenic	221C2R1	ND	2.22e+0 ug/dscm 7%O2	3.00e-4 lbs/hr	7%O2
Arsenic	221C2R2	ND	2.15e+0 ug/dscm 7%O2	3.00e-4 lbs/hr	7%O2
Arsenic	221C2R3	ND	2.10e+0 ug/dscm 7%O2	3.00e-4 lbs/hr	7%O2
Arsenic	221C3R1	ND	1.18e+1 ug/dscm 7%O2	1.80e-3 lbs/hr	7%O2
Arsenic	221C3R2	ND	1.16e+1 ug/dscm 7%O2	1.50e-3 lbs/hr	7%O2
Arsenic	221C3R3	ND	1.77e+0 ug/dscm 7%O2	3.00e-4 lbs/hr	7%O2
Arsenic	221C4R1	ND	1.66e+0 ug/dscm 7%O2	3.00e-4 lbs/hr	7%O2
Arsenic	221C4R2	ND	1.57e+0 ug/dscm 7%O2	3.00e-4 lbs/hr	7%O2
Arsenic	221C4R3	ND	1.62e+0 ug/dscm 7%O2	3.00e-4 lbs/hr	7%O2
Arsenic	221C5R1	ND	4.12e+0 ug/dscm 7%O2	5.00e-4 lbs/hr	7%O2
Arsenic	221C5R2	ND	8.38e+0 ug/dscm 7%O2	1.10e-3 lbs/hr	7%O2
Arsenic	221C5R3	ND	1.51e+1 ug/dscm 7%O2	2.60e-3 lbs/hr	7%O2
Beryllium	221C1R1	ND	1.04e-1 ug/dscm 7%O2	1.05e-5 lbs/hr	CE7%O2
Beryllium	221C1R2	ND	1.16e-1 ug/dscm 7%O2	1.09e-5 lbs/hr	CE7%O2
Beryllium	221C1R3	ND	1.21e-1 ug/dscm 7%O2	1.25e-5 lbs/hr	CE7%O2
Beryllium	221C2R1	ND	1.11e-1 ug/dscm 7%O2	1.19e-5 lbs/hr	CE7%O2
Beryllium	221C2R2	ND	1.07e-1 ug/dscm 7%O2	1.16e-5 lbs/hr	CE7%O2
Beryllium	221C2R3	ND	1.05e-1 ug/dscm 7%O2	1.23e-5 lbs/hr	CE7%O2
Beryllium	221C3R1	ND	7.84e-2 ug/dscm 7%O2	1.20e-5 lbs/hr	CE7%O2
Beryllium	221C3R2	ND	7.72e-2 ug/dscm 7%O2	1.16e-5 lbs/hr	CE7%O2
Beryllium	221C3R3	ND	8.04e-2 ug/dscm 7%O2	1.15e-5 lbs/hr	CE7%O2



SECTION 7: EMISSIONS ANALYSES

1. COMPANY: ROLLINS ENVIRONMENTAL SERVICES

2. STATE: TX

3. CITY: DEER PARK

EPA TX0055141378

REGION: 6

4. EP ID: 221 DEVICE NAME: RES (TX) INCINERATOR

SYSTEM TYPE: COMMERCIAL INCINERATOR

APC SYSTEM: PT

Beryllium	221C4R1	ND	7.72e-2	ug/dscm	7%O2	1.18e-5	lbs/hr	CE7%O2
Beryllium	221C4R2	ND	7.32e-2	ug/dscm	7%O2	1.17e-5	lbs/hr	CE7%O2
Beryllium	221C4R3	ND	7.72e-2	ug/dscm	7%O2	1.21e-5	lbs/hr	CE7%O2
Beryllium	221C5R1	ND	8.24e-2	ug/dscm	7%O2	1.19e-5	lbs/hr	CE7%O2
Beryllium	221C5R2	ND	8.38e-2	ug/dscm	7%O2	1.19e-5	lbs/hr	CE7%O2
Beryllium	221C5R3	ND	7.55e-2	ug/dscm	7%O2	1.17e-5	lbs/hr	CE7%O2
Cadmium	221C1R1		5.20e+0	ug/dscm	7%O2	7.00e-4	lbs/hr	7%O2
Cadmium	221C1R2		1.16e+1	ug/dscm	7%O2	1.00e-3	lbs/hr	7%O2
Cadmium	221C1R3		6.03e+0	ug/dscm	7%O2	6.00e-4	lbs/hr	7%O2
Cadmium	221C2R1		2.05e+0	ug/dscm	7%O2	2.00e-4	lbs/hr	7%O2
Cadmium	221C2R2		1.72e+0	ug/dscm	7%O2	2.00e-4	lbs/hr	7%O2
Cadmium	221C2R3		1.84e+0	ug/dscm	7%O2	2.00e-4	lbs/hr	7%O2
Cadmium	221C3R1		3.92e+0	ug/dscm	7%O2	8.00e-4	lbs/hr	7%O2
Cadmium	221C3R2		3.86e+0	ug/dscm	7%O2	5.00e-4	lbs/hr	7%O2
Cadmium	221C3R3		1.00e+0	ug/dscm	7%O2	1.00e-4	lbs/hr	7%O2
Cadmium	221C4R1		1.31e+0	ug/dscm	7%O2	2.00e-4	lbs/hr	7%O2
Cadmium	221C4R2		3.66e+0	ug/dscm	7%O2	5.00e-4	lbs/hr	7%O2
Cadmium	221C4R3		3.86e+0	ug/dscm	7%O2	3.00e-4	lbs/hr	7%O2
Cadmium	221C5R1		1.98e+0	ug/dscm	7%O2	3.00e-4	lbs/hr	7%O2
Cadmium	221C5R2		4.19e+0	ug/dscm	7%O2	3.00e-4	lbs/hr	7%O2
Cadmium	221C5R3		3.77e+0	ug/dscm	7%O2	6.00e-4	lbs/hr	7%O2
Chromium	221C1R1		6.76e+1	ug/dscm	7%O2	6.90e-3	lbs/hr	7%O2
Chromium	221C1R2		3.49e+1	ug/dscm	7%O2	3.00e-3	lbs/hr	7%O2
Chromium	221C1R3		3.01e+1	ug/dscm	7%O2	3.40e-3	lbs/hr	7%O2
Chromium	221C2R1		2.22e+1	ug/dscm	7%O2	2.60e-3	lbs/hr	7%O2
Chromium	221C2R2		1.07e+1	ug/dscm	7%O2	1.10e-3	lbs/hr	7%O2
Chromium	221C2R3		5.26e+0	ug/dscm	7%O2	6.00e-4	lbs/hr	7%O2
Chromium	221C3R1		1.96e+1	ug/dscm	7%O2	3.10e-3	lbs/hr	7%O2
Chromium	221C3R2		2.32e+1	ug/dscm	7%O2	3.20e-3	lbs/hr	7%O2
Chromium	221C3R3		4.02e+0	ug/dscm	7%O2	8.00e-4	lbs/hr	7%O2
Chromium	221C4R1		3.86e+1	ug/dscm	7%O2	6.00e-3	lbs/hr	7%O2
Chromium	221C4R2		3.26e+2	ug/dscm	7%O2	5.20e-2	lbs/hr	7%O2
Chromium	221C4R3		5.02e+1	ug/dscm	7%O2	7.70e-3	lbs/hr	7%O2
Chromium	221C5R1		8.24e+1	ug/dscm	7%O2	1.17e-2	lbs/hr	7%O2
Chromium	221C5R2		1.42e+2	ug/dscm	7%O2	2.01e-2	lbs/hr	7%O2
Chromium	221C5R3		1.24e+2	ug/dscm	7%O2	1.94e-2	lbs/hr	7%O2
Lead	221C1R1		7.28e+1	ug/dscm	7%O2	7.50e-3	lbs/hr	7%O2
Lead	221C1R2		1.10e+2	ug/dscm	7%O2	1.06e-2	lbs/hr	7%O2
Lead	221C1R3		9.64e+1	ug/dscm	7%O2	1.02e-2	lbs/hr	7%O2
Lead	221C2R1		1.11e+1	ug/dscm	7%O2	1.10e-3	lbs/hr	7%O2
Lead	221C2R2	ND	1.72e+0	ug/dscm	7%O2	2.00e-4	lbs/hr	7%O2
Lead	221C2R3		2.10e+1	ug/dscm	7%O2	2.60e-3	lbs/hr	7%O2
Lead	221C3R1		2.35e+1	ug/dscm	7%O2	3.80e-3	lbs/hr	7%O2
Lead	221C3R2		2.70e+1	ug/dscm	7%O2	4.10e-3	lbs/hr	7%O2
Lead	221C3R3		8.04e+0	ug/dscm	7%O2	1.10e-3	lbs/hr	7%O2
Lead	221C4R1		6.95e+1	ug/dscm	7%O2	1.08e-2	lbs/hr	7%O2
Lead	221C4R2		3.29e+1	ug/dscm	7%O2	5.10e-3	lbs/hr	7%O2
Lead	221C4R3		1.93e+1	ug/dscm	7%O2	3.00e-3	lbs/hr	7%O2
Lead	221C5R1		3.71e+1	ug/dscm	7%O2	5.40e-3	lbs/hr	7%O2
Lead	221C5R2		2.09e+1	ug/dscm	7%O2	2.80e-3	lbs/hr	7%O2
Lead	221C5R3		1.89e+1	ug/dscm	7%O2	3.20e-3	lbs/hr	7%O2
Mercury	221C1R1		5.20e+0	ug/dscm	7%O2	7.00e-4	lbs/hr	7%O2
Mercury	221C1R2		5.81e+0	ug/dscm	7%O2	5.00e-4	lbs/hr	7%O2
Mercury	221C1R3		1.93e+0	ug/dscm	7%O2	2.00e-4	lbs/hr	CC7%O2
Mercury	221C2R1		5.00e+1	ug/dscm	7%O2	5.20e-3	lbs/hr	7%O2
Mercury	221C2R2		1.07e+1	ug/dscm	7%O2	1.20e-3	lbs/hr	7%O2
Mercury	221C2R3		2.10e+1	ug/dscm	7%O2	2.40e-3	lbs/hr	7%O2
Mercury	221C3R1		1.57e-1	ug/dscm	7%O2	2.40e-5	lbs/hr	CE7%O2
Mercury	221C3R2		1.16e-1	ug/dscm	7%O2	1.75e-5	lbs/hr	CE7%O2
Mercury	221C3R3		4.02e-2	ug/dscm	7%O2	5.76e-6	lbs/hr	CE7%O2
Mercury	221C4R1		3.47e+1	ug/dscm	7%O2	5.10e-3	lbs/hr	7%O2
Mercury	221C4R2		7.32e+0	ug/dscm	7%O2	1.00e-3	lbs/hr	7%O2
Mercury	221C4R3		1.54e+1	ug/dscm	7%O2	2.10e-3	lbs/hr	7%O2

US EPA ARCHIVE DOCUMENT



SECTION 7: EMISSIONS ANALYSES

1. COMPANY: ROLLINS ENVIRONMENTAL SERVICES

2. STATE: TX

3. CITY: DEER PARK

EPA ID: TX0055141378

REGION: 6

4. EP ID: 221 DEVICE NAME: RES (TX) INCINERATOR

SYSTEM TYPE: COMMERCIAL INCINERATOR

APC SYSTEM: PT

Mercury	221C5R1	4.12e-2 ug/dscm 7%O2	5.96e-6 lbs/hr	CE7%O2
Mercury	221C5R2	4.19e-2 ug/dscm 7%O2	5.97e-6 lbs/hr	CE7%O2
Mercury	221C5R3	7.55e-2 ug/dscm 7%O2	1.17e-5 lbs/hr	CE7%O2
Nickel	221C1R1	1.56e+2 ug/dscm 7%O2	1.60e-2 lbs/hr	7%O2
Nickel	221C1R2	9.88e+1 ug/dscm 7%O2	9.20e-3 lbs/hr	7%O2
Nickel	221C1R3	1.33e+2 ug/dscm 7%O2	1.37e-2 lbs/hr	7%O2
Nickel	221C2R1	4.61e+2 ug/dscm 7%O2	4.90e-2 lbs/hr	7%O2
Nickel	221C2R2	1.56e+3 ug/dscm 7%O2	1.68e-1 lbs/hr	7%O2
Nickel	221C2R3	1.38e+3 ug/dscm 7%O2	1.61e-1 lbs/hr	7%O2
Nickel	221C3R1	2.05e+3 ug/dscm 7%O2	3.13e-1 lbs/hr	7%O2
Nickel	221C3R2	2.51e+2 ug/dscm 7%O2	3.76e-2 lbs/hr	7%O2
Nickel	221C3R3	3.62e+1 ug/dscm 7%O2	5.10e-3 lbs/hr	7%O2
Nickel	221C4R1	1.47e+2 ug/dscm 7%O2	2.26e-2 lbs/hr	7%O2
Nickel	221C4R2	4.39e+2 ug/dscm 7%O2	7.02e-2 lbs/hr	7%O2
Nickel	221C4R3	2.20e+2 ug/dscm 7%O2	3.41e-2 lbs/hr	7%O2
Nickel	221C5R1	2.35e+2 ug/dscm 7%O2	3.38e-2 lbs/hr	7%O2
Nickel	221C5R2	3.31e+2 ug/dscm 7%O2	4.72e-2 lbs/hr	7%O2
Nickel	221C5R3	3.47e+2 ug/dscm 7%O2	5.40e-2 lbs/hr	7%O2

7. Category: Particulate

Analysis:

8. Substance	9. Run ID	Concentration	Mass Rate	Calc
Particulate	221C1R1	1.16e-2 gr/dscf 7%O2	2.69e+0 lbs/hr	7%O2
Particulate	221C1R2	1.50e-2 gr/dscf 7%O2	3.23e+0 lbs/hr	7%O2
Particulate	221C1R3	1.60e-2 gr/dscf 7%O2	3.81e+0 lbs/hr	7%O2
Particulate	221C2R1	1.26e-2 gr/dscf 7%O2	3.06e+0 lbs/hr	7%O2
Particulate	221C2R2	1.38e-2 gr/dscf 7%O2	3.42e+0 lbs/hr	7%O2
Particulate	221C2R3	1.77e-2 gr/dscf 7%O2	4.73e+0 lbs/hr	7%O2
Particulate	221C3R1	1.67e-2 gr/dscf 7%O2	5.82e+0 lbs/hr	7%O2
Particulate	221C3R2	1.93e-2 gr/dscf 7%O2	6.67e+0 lbs/hr	7%O2
Particulate	221C3R3	3.19e-3 gr/dscf 7%O2	1.05e+0 lbs/hr	7%O2
Particulate	221C4R1	2.05e-2 gr/dscf 7%O2	7.14e+0 lbs/hr	7%O2
Particulate	221C4R2	1.33e-2 gr/dscf 7%O2	4.85e+0 lbs/hr	7%O2
Particulate	221C4R3	1.05e-2 gr/dscf 7%O2	3.76e+0 lbs/hr	7%O2
Particulate	221C5R1	1.24e-2 gr/dscf 7%O2	4.09e+0 lbs/hr	7%O2
Particulate	221C5R2	1.31e-2 gr/dscf 7%O2	4.24e+0 lbs/hr	7%O2
Particulate	221C5R3	1.22e-2 gr/dscf 7%O2	4.33e+0 lbs/hr	7%O2

7. Category: THC & CO

Analysis:

8. Substance	9. Run ID	Concentration	Mass Rate	Calc
CO	221C1R1	7.96e+0 ppmv 7%O2	9.00e-1 lbs/hr	7%O2
CO	221C1R2	7.91e+0 ppmv 7%O2	9.00e-1 lbs/hr	7%O2
CO	221C1R3	1.13e+1 ppmv 7%O2	1.40e+0 lbs/hr	7%O2
CO	221C2R1	1.65e+1 ppmv 7%O2	2.10e+0 lbs/hr	7%O2
CO	221C2R2	1.71e+1 ppmv 7%O2	2.10e+0 lbs/hr	7%O2
CO	221C2R3	1.89e+1 ppmv 7%O2	2.60e+0 lbs/hr	7%O2
CO	221C3R1	1.96e+1 ppmv 7%O2	3.50e+0 lbs/hr	7%O2
CO	221C3R2	2.00e+1 ppmv 7%O2	3.50e+0 lbs/hr	7%O2
CO	221C3R3	1.96e+1 ppmv 7%O2	3.30e+0 lbs/hr	7%O2
CO	221C4R1	1.56e+1 ppmv 7%O2	2.80e+0 lbs/hr	7%O2
CO	221C4R2	1.41e+1 ppmv 7%O2	2.60e+0 lbs/hr	7%O2
CO	221C4R3	1.41e+1 ppmv 7%O2	2.60e+0 lbs/hr	7%O2
CO	221C5R1	1.83e+1 ppmv 7%O2	3.10e+0 lbs/hr	7%O2
CO	221C5R2	1.79e+1 ppmv 7%O2	3.00e+0 lbs/hr	7%O2
CO	221C5R3	1.69e+1 ppmv 7%O2	3.10e+0 lbs/hr	7%O2
THC	221C1R1	3.24e+0 ppmv 7%O2	6.00e-1 lbs/hr	CE
THC	221C1R2	4.77e+0 ppmv 7%O2	8.19e-1 lbs/hr	CE
THC	221C1R3	3.24e+0 ppmv 7%O2	6.13e-1 lbs/hr	CE
THC	221C2R1	4.56e+0 ppmv 7%O2	8.90e-1 lbs/hr	CE
THC	221C2R2	4.72e+0 ppmv 7%O2	9.31e-1 lbs/hr	CE

SECTION 7: EMISSIONS ANALYSES

1. COMPANY: ROLLINS ENVIRONMENTAL SERVICES

2. STATE: TX

3. CITY: DEER PARK

EPA ID: TX0055141378

REGION: 6

4. EP ID: 221 DEVICE NAME: RES (TX) INCINERATOR

SYSTEM TYPE: COMMERCIAL INCINERATOR

APC SYSTEM: PT

THC	221C2R3	3.28e+0	ppmv 7%O2	6.98e-1	lbs/hr	CE
THC	221C3R1	3.78e+0	ppmv 7%O2	1.05e+0	lbs/hr	CE
THC	221C3R2	3.61e+0	ppmv 7%O2	9.94e-1	lbs/hr	CE
THC	221C3R3	2.50e+0	ppmv 7%O2	6.55e-1	lbs/hr	CE
THC	221C4R1	3.28e+0	ppmv 7%O2	9.16e-1	lbs/hr	CE
THC	221C4R2	3.11e+0	ppmv 7%O2	9.08e-1	lbs/hr	CE
THC	221C4R3	2.62e+0	ppmv 7%O2	7.51e-1	lbs/hr	CE
THC	221C5R1	3.03e+0	ppmv 7%O2	8.01e-1	lbs/hr	CE
THC	221C5R2	3.56e+0	ppmv 7%O2	9.25e-1	lbs/hr	CE
THC	221C5R3	3.21e+0	ppmv 7%O2	9.10e-1	lbs/hr	CE

7. Category: VOC

Analysis:

8. Substance	9. Run ID	Concentration	Mass Rate	Calc
1,1,1-Trichloroethane	221C1	4.54e+2 ng/dscm 7%O2	4.33e-5 lbs/hr	CE7%O2
1,1,1-Trichloroethane	221C2	1.04e+3 ng/dscm 7%O2	1.15e-4 lbs/hr	CE7%O2
1,1,1-Trichloroethane	221C3	1.63e+3 ng/dscm 7%O2	2.46e-4 lbs/hr	CE7%O2
1,1,1-Trichloroethane	221C4	7.34e+3 ng/dscm 7%O2	1.17e-3 lbs/hr	CE7%O2
1,1,1-Trichloroethane	221C5	7.22e+3 ng/dscm 7%O2	1.08e-3 lbs/hr	CE7%O2
1,1,2,2-Tetrachloroethane	221C1	ND 1.13e+3 ng/dscm 7%O2	1.08e-4 lbs/hr	CE7%O2
1,1,2,2-Tetrachloroethane	221C2	ND 1.04e+3 ng/dscm 7%O2	1.15e-4 lbs/hr	CE7%O2
1,1,2,2-Tetrachloroethane	221C3	ND 7.76e+2 ng/dscm 7%O2	1.17e-4 lbs/hr	CE7%O2
1,1,2,2-Tetrachloroethane	221C4	ND 7.73e+2 ng/dscm 7%O2	1.24e-4 lbs/hr	CE7%O2
1,1,2,2-Tetrachloroethane	221C5	1.63e+2 ng/dscm 7%O2	2.44e-5 lbs/hr	CE7%O2
1,1,2-Trichloroethane	221C1	ND 1.13e+3 ng/dscm 7%O2	1.08e-4 lbs/hr	CE7%O2
1,1,2-Trichloroethane	221C2	1.03e+2 ng/dscm 7%O2	1.15e-5 lbs/hr	CE7%O2
1,1,2-Trichloroethane	221C3	7.78e+1 ng/dscm 7%O2	1.17e-5 lbs/hr	CE7%O2
1,1,2-Trichloroethane	221C4	ND 7.73e+2 ng/dscm 7%O2	1.24e-4 lbs/hr	CE7%O2
1,1,2-Trichloroethane	221C5	ND 8.12e+2 ng/dscm 7%O2	1.22e-4 lbs/hr	CE7%O2
1,1-Dichloroethene	221C1	ND 1.13e+3 ng/dscm 7%O2	1.08e-4 lbs/hr	CE7%O2
1,1-Dichloroethene	221C2	ND 1.04e+3 ng/dscm 7%O2	1.15e-4 lbs/hr	CE7%O2
1,1-Dichloroethene	221C3	7.78e+1 ng/dscm 7%O2	1.17e-5 lbs/hr	CE7%O2
1,1-Dichloroethene	221C4	2.32e+2 ng/dscm 7%O2	3.71e-5 lbs/hr	CE7%O2
1,1-Dichloroethene	221C5	8.12e+2 ng/dscm 7%O2	1.22e-4 lbs/hr	CE7%O2
1,2-Dichloroethane	221C1	ND 1.13e+3 ng/dscm 7%O2	1.08e-4 lbs/hr	CE7%O2
1,2-Dichloroethane	221C2	8.72e+3 ng/dscm 7%O2	9.67e-4 lbs/hr	CE7%O2
1,2-Dichloroethane	221C3	8.30e+3 ng/dscm 7%O2	1.25e-3 lbs/hr	CE7%O2
1,2-Dichloroethane	221C4	4.17e+3 ng/dscm 7%O2	6.68e-4 lbs/hr	CE7%O2
1,2-Dichloroethane	221C5	ND 8.12e+2 ng/dscm 7%O2	1.22e-4 lbs/hr	CE7%O2
1,2-Dichloropropane	221C1	ND 1.13e+3 ng/dscm 7%O2	1.08e-4 lbs/hr	CE7%O2
1,2-Dichloropropane	221C2	2.07e+2 ng/dscm 7%O2	2.29e-5 lbs/hr	CE7%O2
1,2-Dichloropropane	221C3	7.78e+1 ng/dscm 7%O2	1.17e-5 lbs/hr	CE7%O2
1,2-Dichloropropane	221C4	ND 7.73e+2 ng/dscm 7%O2	1.24e-4 lbs/hr	CE7%O2
1,2-Dichloropropane	221C5	ND 8.12e+2 ng/dscm 7%O2	1.22e-4 lbs/hr	CE7%O2
Bromodichloromethane	221C1	6.29e+4 ng/dscm 7%O2	5.99e-3 lbs/hr	CE7%O2
Bromodichloromethane	221C2	ND 1.04e+3 ng/dscm 7%O2	1.15e-4 lbs/hr	CE7%O2
Bromodichloromethane	221C3	4.75e+4 ng/dscm 7%O2	7.17e-3 lbs/hr	CE7%O2
Bromodichloromethane	221C4	2.16e+3 ng/dscm 7%O2	3.46e-4 lbs/hr	CE7%O2
Bromodichloromethane	221C5	6.75e+4 ng/dscm 7%O2	1.01e-2 lbs/hr	CE7%O2
Carbon Tetrachloride	221C1	3.52e+3 ng/dscm 7%O2	3.35e-4 lbs/hr	CE7%O2
Carbon Tetrachloride	221C2	1.01e+4 ng/dscm 7%O2	1.12e-3 lbs/hr	CE7%O2
Carbon Tetrachloride	221C3	1.17e+4 ng/dscm 7%O2	1.77e-3 lbs/hr	CE7%O2
Carbon Tetrachloride	221C4	1.64e+4 ng/dscm 7%O2	2.62e-3 lbs/hr	CE7%O2
Carbon Tetrachloride	221C5	5.52e+4 ng/dscm 7%O2	8.28e-3 lbs/hr	CE7%O2
Chlorobenzene	221C1	4.31e+3 ng/dscm 7%O2	4.11e-4 lbs/hr	CE7%O2
Chlorobenzene	221C2	8.31e+2 ng/dscm 7%O2	9.21e-5 lbs/hr	CE7%O2
Chlorobenzene	221C3	7.76e+2 ng/dscm 7%O2	1.17e-4 lbs/hr	CE7%O2
Chlorobenzene	221C4	1.22e+4 ng/dscm 7%O2	1.95e-3 lbs/hr	CE7%O2
Chlorobenzene	221C5	9.81e+3 ng/dscm 7%O2	1.47e-3 lbs/hr	CE7%O2
Chloroethane	221C1	ND 1.13e+3 ng/dscm 7%O2	1.08e-4 lbs/hr	CE7%O2
Chloroethane	221C2	ND 1.04e+3 ng/dscm 7%O2	1.15e-4 lbs/hr	CE7%O2

SECTION 7: EMISSIONS ANALYSES

1. COMPANY: ROLLINS ENVIRONMENTAL SERVICES

2. STATE: TX

3. CITY: DEER PARK

EPA TX0055141378

REGION: 6

4. EP ID: 221 DEVICE NAME: RES (TX) INCINERATOR

SYSTEM TYPE: COMMERCIAL INCINERATOR

APC SYSTEM: PT

Chloroethane	221C3	ND	7.76e+2	ng/dscm	7%O2	1.17e-4	lbs/hr	CE7%O2
Chloroethane	221C4		7.69e+1	ng/dscm	7%O2	1.23e-5	lbs/hr	CE7%O2
Chloroethane	221C5		2.27e+3	ng/dscm	7%O2	3.41e-4	lbs/hr	CE7%O2
Chloroform	221C1		5.58e+4	ng/dscm	7%O2	5.32e-3	lbs/hr	CE
Chloroform	221C2		3.84e+3	ng/dscm	7%O2	4.26e-4	lbs/hr	CE7%O2
Chloroform	221C3		4.02e+4	ng/dscm	7%O2	6.06e-3	lbs/hr	CE7%O2
Chloroform	221C4		6.72e+3	ng/dscm	7%O2	1.08e-3	lbs/hr	CE7%O2
Chloroform	221C5		6.65e+4	ng/dscm	7%O2	9.98e-3	lbs/hr	CE7%O2
Chloromethane	221C1	ND	1.13e+3	ng/dscm	7%O2	1.08e-4	lbs/hr	CE7%O2
Chloromethane	221C2	ND	1.04e+3	ng/dscm	7%O2	1.15e-4	lbs/hr	CE7%O2
Chloromethane	221C3		1.77e+4	ng/dscm	7%O2	2.67e-3	lbs/hr	CE7%O2
Chloromethane	221C4		5.77e+4	ng/dscm	7%O2	9.24e-3	lbs/hr	CE7%O2
Chloromethane	221C5		2.24e+6	ng/dscm	7%O2	3.36e-1	lbs/hr	CE7%O2
cis-1,3-Dichloropropene	221C1	ND	1.13e+3	ng/dscm	7%O2	1.08e-4	lbs/hr	CE7%O2
cis-1,3-Dichloropropene	221C2		1.03e+2	ng/dscm	7%O2	1.15e-5	lbs/hr	CE7%O2
cis-1,3-Dichloropropene	221C3		7.78e+1	ng/dscm	7%O2	1.17e-5	lbs/hr	CE7%O2
cis-1,3-Dichloropropene	221C4	ND	7.73e+2	ng/dscm	7%O2	1.24e-4	lbs/hr	CE7%O2
cis-1,3-Dichloropropene	221C5		3.24e+2	ng/dscm	7%O2	4.87e-5	lbs/hr	CE7%O2
Dibromochloromethane	221C1		4.98e+4	ng/dscm	7%O2	4.75e-3	lbs/hr	CE7%O2
Dibromochloromethane	221C2	ND	1.04e+3	ng/dscm	7%O2	1.15e-4	lbs/hr	CE7%O2
Dibromochloromethane	221C3		5.00e+4	ng/dscm	7%O2	7.55e-3	lbs/hr	CE7%O2
Dibromochloromethane	221C4		1.04e+4	ng/dscm	7%O2	1.67e-3	lbs/hr	CE7%O2
Dibromochloromethane	221C5		1.74e+4	ng/dscm	7%O2	2.62e-3	lbs/hr	CE7%O2
Methylene Chloride	221C1		9.35e+4	ng/dscm	7%O2	8.91e-3	lbs/hr	CE7%O2
Methylene Chloride	221C2		2.39e+4	ng/dscm	7%O2	2.65e-3	lbs/hr	CE7%O2
Methylene Chloride	221C3		2.84e+4	ng/dscm	7%O2	4.28e-3	lbs/hr	CE7%O2
Methylene Chloride	221C4		3.25e+4	ng/dscm	7%O2	5.21e-3	lbs/hr	CE7%O2
Methylene Chloride	221C5		5.70e+4	ng/dscm	7%O2	8.56e-3	lbs/hr	CE7%O2
Tetrachloroethene	221C1		1.02e+3	ng/dscm	7%O2	9.74e-5	lbs/hr	CE7%O2
Tetrachloroethene	221C2		3.53e+3	ng/dscm	7%O2	3.91e-4	lbs/hr	CE7%O2
Tetrachloroethene	221C3		5.20e+3	ng/dscm	7%O2	7.84e-4	lbs/hr	CE7%O2
Tetrachloroethene	221C4		4.02e+3	ng/dscm	7%O2	6.43e-4	lbs/hr	CE7%O2
Tetrachloroethene	221C5		8.60e+3	ng/dscm	7%O2	1.29e-3	lbs/hr	CE7%O2
Trichlorofluoromethane	221C1		2.94e+4	ng/dscm	7%O2	2.80e-3	lbs/hr	CE7%O2
Trichlorofluoromethane	221C2		1.18e+4	ng/dscm	7%O2	1.31e-3	lbs/hr	CE7%O2
Trichlorofluoromethane	221C3		6.98e+3	ng/dscm	7%O2	1.05e-3	lbs/hr	CE7%O2
Trichlorofluoromethane	221C4		2.01e+4	ng/dscm	7%O2	3.21e-3	lbs/hr	CE7%O2
Trichlorofluoromethane	221C5		2.98e+4	ng/dscm	7%O2	4.48e-3	lbs/hr	CE7%O2

US EPA ARCHIVE DOCUMENT

SECTION 7: EMISSIONS ANALYSES

1. COMPANY: ROSS INCINERATION SERVICES  
 2. STATE: OH  
 3. CITY: GRAFTON  
 4. EP ID: 331 DEVICE NAME:

EPA ID: OH048415665  
 SYSTEM TYPE: COMMERCIAL INCINERATOR  
 APC SYSTEM: PT/IWS

REGION: 5

5. Type: CONTROLLED

6. Description: EMISSIONS Process Group: ROTARY KILN Location: STACK Phase: GAS

7. Category: Dioxin & Furan

Analysis:

8. Substance	9. Run ID	Concentration			Mass Rate	Calc	
4D 2378	331C1R1	ND	6.56e-3	ng/dscm	7%O2	6.15e-10 lbs/hr	CE7%O2
4D 2378	331C1R2	ND	4.45e-3	ng/dscm	7%O2	4.12e-10 lbs/hr	CE7%O2
4D 2378	331C1R3	ND	4.71e-3	ng/dscm	7%O2	4.56e-10 lbs/hr	CE7%O2
4D Other	331C1R1		5.37e-2	ng/dscm	7%O2	5.03e-9 lbs/hr	OCE
4D Other	331C1R2		3.00e-2	ng/dscm	7%O2	2.78e-9 lbs/hr	OCE
4D Other	331C1R3		3.39e-2	ng/dscm	7%O2	3.28e-9 lbs/hr	OCE
4D Total	331C1R1		6.02e-2	ng/dscm	7%O2	5.65e-9 lbs/hr	CE7%O2
4D Total	331C1R2		3.45e-2	ng/dscm	7%O2	3.20e-9 lbs/hr	CE7%O2
4D Total	331C1R3		3.86e-2	ng/dscm	7%O2	3.73e-9 lbs/hr	CE7%O2
4F 2378	331C1R1		7.37e-2	ng/dscm	7%O2	6.91e-9 lbs/hr	CE7%O2
4F 2378	331C1R2	2	1.08e-2	ng/dscm	7%O2	1.01e-9 lbs/hr	CE7%O2
4F 2378	331C1R3		1.30e-1	ng/dscm	7%O2	1.26e-8 lbs/hr	CE7%O2
4F Other	331C1R1		5.83e-1	ng/dscm	7%O2	5.46e-8 lbs/hr	OCE
4F Other	331C1R2		2.03e-1	ng/dscm	7%O2	1.88e-8 lbs/hr	OCE
4F Other	331C1R3		4.98e-1	ng/dscm	7%O2	4.82e-8 lbs/hr	OCE
4F Total	331C1R1		6.56e-1	ng/dscm	7%O2	6.16e-8 lbs/hr	CE7%O2
4F Total	331C1R2	2	2.14e-1	ng/dscm	7%O2	1.98e-8 lbs/hr	CE7%O2
4F Total	331C1R3		6.28e-1	ng/dscm	7%O2	6.08e-8 lbs/hr	CE7%O2
5D 12378	331C1R1	ND	7.24e-3	ng/dscm	7%O2	6.79e-10 lbs/hr	CE7%O2
5D 12378	331C1R2	ND	2.50e-3	ng/dscm	7%O2	2.32e-10 lbs/hr	CE7%O2
5D 12378	331C1R3	ND	5.11e-3	ng/dscm	7%O2	4.94e-10 lbs/hr	CE7%O2
5D Other	331C1R1		7.92e-3	ng/dscm	7%O2	7.43e-10 lbs/hr	OCE
5D Other	331C1R2		5.29e-3	ng/dscm	7%O2	4.90e-10 lbs/hr	OCE
5D Other	331C1R3		3.53e-3	ng/dscm	7%O2	3.42e-10 lbs/hr	OCE
5D Total	331C1R1	ND	1.52e-2	ng/dscm	7%O2	1.42e-9 lbs/hr	CE7%O2
5D Total	331C1R2	ND	7.79e-3	ng/dscm	7%O2	7.22e-10 lbs/hr	CE7%O2
5D Total	331C1R3	ND	8.64e-3	ng/dscm	7%O2	8.35e-10 lbs/hr	CE7%O2
5F 12378	331C1R1	2	3.52e-2	ng/dscm	7%O2	3.31e-9 lbs/hr	CE7%O2
5F 12378	331C1R2	ND	1.22e-2	ng/dscm	7%O2	1.13e-9 lbs/hr	CE7%O2
5F 12378	331C1R3	2	5.63e-2	ng/dscm	7%O2	5.44e-9 lbs/hr	CE7%O2
5F 23478	331C1R1		7.18e-2	ng/dscm	7%O2	6.74e-9 lbs/hr	CE7%O2
5F 23478	331C1R2	ND	6.68e-3	ng/dscm	7%O2	6.19e-10 lbs/hr	CE7%O2
5F 23478	331C1R3		1.39e-1	ng/dscm	7%O2	1.34e-8 lbs/hr	CE7%O2
5F Other	331C1R1		3.83e-1	ng/dscm	7%O2	3.59e-8 lbs/hr	OCE
5F Other	331C1R2		3.07e-2	ng/dscm	7%O2	2.85e-9 lbs/hr	OCE
5F Other	331C1R3		3.67e-1	ng/dscm	7%O2	3.54e-8 lbs/hr	OCE
5F Total	331C1R1		4.90e-1	ng/dscm	7%O2	4.59e-8 lbs/hr	CE7%O2
5F Total	331C1R2	2	4.97e-2	ng/dscm	7%O2	4.60e-9 lbs/hr	CE7%O2
5F Total	331C1R3		5.62e-1	ng/dscm	7%O2	5.43e-8 lbs/hr	CE7%O2
6D 123478	331C1R1	ND	1.45e-2	ng/dscm	7%O2	1.36e-9 lbs/hr	CE7%O2
6D 123478	331C1R2	ND	1.56e-2	ng/dscm	7%O2	1.44e-9 lbs/hr	CE7%O2
6D 123478	331C1R3	ND	1.36e-2	ng/dscm	7%O2	1.32e-9 lbs/hr	CE7%O2
6D 123678	331C1R1	ND	1.32e-2	ng/dscm	7%O2	1.24e-9 lbs/hr	CE7%O2
6D 123678	331C1R2	ND	1.42e-2	ng/dscm	7%O2	1.31e-9 lbs/hr	CE7%O2
6D 123678	331C1R3	ND	1.24e-2	ng/dscm	7%O2	1.20e-9 lbs/hr	CE7%O2
6D 123789	331C1R1	ND	1.35e-2	ng/dscm	7%O2	1.26e-9 lbs/hr	CE7%O2
6D 123789	331C1R2	ND	8.34e-3	ng/dscm	7%O2	7.73e-10 lbs/hr	CE7%O2
6D 123789	331C1R3	ND	1.26e-2	ng/dscm	7%O2	1.22e-9 lbs/hr	CE7%O2
6D Other	331C1R1		-2.08e-2	ng/dscm	7%O2	-1.95e-9 lbs/hr	OCE
6D Other	331C1R2		-2.34e-2	ng/dscm	7%O2	-2.17e-9 lbs/hr	OCE
6D Other	331C1R3		-2.47e-2	ng/dscm	7%O2	-2.39e-9 lbs/hr	OCE
6D Total	331C1R1	ND	2.04e-2	ng/dscm	7%O2	1.91e-9 lbs/hr	CE7%O2
6D Total	331C1R2	ND	1.47e-2	ng/dscm	7%O2	1.37e-9 lbs/hr	CE7%O2

US EPA ARCHIVE DOCUMENT

SECTION 7: EMISSIONS ANALYSES

1. COMPANY: ROSS INCINERATION SERVICES  
 2. STATE: OH  
 3. CITY: GRAFTON  
 4. EP ID: 331 DEVICE NAME:

EPA ID: OHD048415665  
 SYSTEM TYPE: COMMERCIAL INCINERATOR  
 APC SYSTEM: PT/IWS

REGION: 5

6D Total	331C1R3	ND	1.39e-2	ng/dscm	7%O2	1.34e-9	lbs/hr	CE7%O2
6F 123478	331C1R1	2	4.81e-2	ng/dscm	7%O2	4.52e-9	lbs/hr	CE7%O2
6F 123478	331C1R2	ND	1.95e-3	ng/dscm	7%O2	1.80e-10	lbs/hr	CE7%O2
6F 123478	331C1R3	2	5.35e-2	ng/dscm	7%O2	5.18e-9	lbs/hr	CE7%O2
6F 123678	331C1R1	2	1.82e-2	ng/dscm	7%O2	1.70e-9	lbs/hr	CE7%O2
6F 123678	331C1R2	ND	1.67e-3	ng/dscm	7%O2	1.55e-10	lbs/hr	CE7%O2
6F 123678	331C1R3	2	1.74e-2	ng/dscm	7%O2	1.68e-9	lbs/hr	CE7%O2
6F 123789	331C1R1	2	2.32e-3	ng/dscm	7%O2	2.18e-10	lbs/hr	CE7%O2
6F 123789	331C1R2	ND	1.32e-3	ng/dscm	7%O2	1.22e-10	lbs/hr	CE7%O2
6F 123789	331C1R3	ND	2.23e-3	ng/dscm	7%O2	2.15e-10	lbs/hr	CE7%O2
6F 234678	331C1R1	2	1.69e-2	ng/dscm	7%O2	1.59e-9	lbs/hr	CE7%O2
6F 234678	331C1R2	2	2.92e-3	ng/dscm	7%O2	2.71e-10	lbs/hr	CE7%O2
6F 234678	331C1R3	2	1.78e-2	ng/dscm	7%O2	1.72e-9	lbs/hr	CE7%O2
6F Other	331C1R1		8.79e-2	ng/dscm	7%O2	8.24e-9	lbs/hr	OCE
6F Other	331C1R2		1.77e-2	ng/dscm	7%O2	1.64e-9	lbs/hr	OCE
6F Other	331C1R3		9.23e-2	ng/dscm	7%O2	8.92e-9	lbs/hr	OCE
6F Total	331C1R1		1.73e-1	ng/dscm	7%O2	1.63e-8	lbs/hr	CE7%O2
6F Total	331C1R2	2	2.56e-2	ng/dscm	7%O2	2.37e-9	lbs/hr	CE7%O2
6F Total	331C1R3	2	1.83e-1	ng/dscm	7%O2	1.77e-8	lbs/hr	CE7%O2
7D 1234678	331C1R1	2	2.42e-2	ng/dscm	7%O2	2.27e-9	lbs/hr	CE7%O2
7D 1234678	331C1R2	2	6.86e-2	ng/dscm	7%O2	6.35e-9	lbs/hr	CE7%O2
7D 1234678	331C1R3	2	1.61e-2	ng/dscm	7%O2	1.56e-9	lbs/hr	CE7%O2
7D Other	331C1R1		1.31e-2	ng/dscm	7%O2	1.23e-9	lbs/hr	OCE
7D Other	331C1R2		3.32e-2	ng/dscm	7%O2	3.08e-9	lbs/hr	OCE
7D Other	331C1R3		1.44e-2	ng/dscm	7%O2	1.39e-9	lbs/hr	OCE
7D Total	331C1R1	2	3.73e-2	ng/dscm	7%O2	3.50e-9	lbs/hr	CE7%O2
7D Total	331C1R2		1.02e-1	ng/dscm	7%O2	9.43e-9	lbs/hr	CE7%O2
7D Total	331C1R3	2	3.05e-2	ng/dscm	7%O2	2.95e-9	lbs/hr	CE7%O2
7F 1234678	331C1R1	2	1.63e-2	ng/dscm	7%O2	1.53e-9	lbs/hr	CE7%O2
7F 1234678	331C1R2	2	1.70e-2	ng/dscm	7%O2	1.57e-9	lbs/hr	CE7%O2
7F 1234678	331C1R3	2	2.42e-2	ng/dscm	7%O2	2.34e-9	lbs/hr	CE7%O2
7F 1234789	331C1R1	ND	7.51e-3	ng/dscm	7%O2	7.05e-10	lbs/hr	CE7%O2
7F 1234789	331C1R2	ND	7.79e-3	ng/dscm	7%O2	7.22e-10	lbs/hr	CE7%O2
7F 1234789	331C1R3	ND	4.84e-3	ng/dscm	7%O2	4.68e-10	lbs/hr	CE7%O2
7F Other	331C1R1		2.25e-3	ng/dscm	7%O2	2.11e-10	lbs/hr	OCE
7F Other	331C1R2		4.01e-2	ng/dscm	7%O2	3.71e-9	lbs/hr	OCE
7F Other	331C1R3		3.67e-2	ng/dscm	7%O2	3.54e-9	lbs/hr	OCE
7F Total	331C1R1	2	2.61e-2	ng/dscm	7%O2	2.45e-9	lbs/hr	CE7%O2
7F Total	331C1R2	2	6.48e-2	ng/dscm	7%O2	6.01e-9	lbs/hr	CE7%O2
7F Total	331C1R3	2	6.57e-2	ng/dscm	7%O2	6.35e-9	lbs/hr	CE7%O2
8D	331C1R1	2	9.23e-2	ng/dscm	7%O2	8.65e-9	lbs/hr	CE7%O2
8D	331C1R2		3.34e-1	ng/dscm	7%O2	3.09e-8	lbs/hr	CE7%O2
8D	331C1R3		1.79e-1	ng/dscm	7%O2	1.73e-8	lbs/hr	CE7%O2
8F	331C1R1	2	9.56e-3	ng/dscm	7%O2	8.97e-10	lbs/hr	CE7%O2
8F	331C1R2	2	1.24e-1	ng/dscm	7%O2	1.15e-8	lbs/hr	CE7%O2
8F	331C1R3	2	1.24e-1	ng/dscm	7%O2	1.19e-8	lbs/hr	CE7%O2
TEQ	331C1R1		6.85e-2	ng/dscm	7%O2	6.42e-9	lbs/hr	CCET
TEQ	331C1R2		1.67e-2	ng/dscm	7%O2	1.55e-9	lbs/hr	CCET
TEQ	331C1R3		1.06e-1	ng/dscm	7%O2	1.03e-8	lbs/hr	CCET
Total PCDD/PCDF	331C1R1		1.58e+0	ng/dscm	7%O2	1.48e-7	lbs/hr	CCET
Total PCDD/PCDF	331C1R2		9.71e-1	ng/dscm	7%O2	9.00e-8	lbs/hr	CCET
Total PCDD/PCDF	331C1R3		1.83e+0	ng/dscm	7%O2	1.77e-7	lbs/hr	CCET

7. Category: Metals

Analysis:

8. Substance	9. Run ID	Concentration	Mass Rate	Calc
Arsenic	331C1R1	1.39e+1 ug/dscm 7%O2	1.30e-3 lbs/hr	CC7%O2
Arsenic	331C1R2	1.73e+1 ug/dscm 7%O2	1.60e-3 lbs/hr	CC7%O2

SECTION 7: EMISSIONS ANALYSES

1. COMPANY: ROSS INCINERATION SERVICES  
 2. STATE: OH  
 3. CITY: GRAFTON  
 4. EP ID: 331 DEVICE NAME:

EPA ID: OHD048415665  
 SYSTEM TYPE: COMMERCIAL INCINERATOR

REGION: 5  
 APC SYSTEM: PT/IWS

Arsenic	331C1R3	2.38e+1	ug/dscm 7%O2	2.30e-3	lbs/hr	CC7%O2
Beryllium	331C1R1	ND	3.63e-1 ug/dscm 7%O2	3.40e-5	lbs/hr	CC7%O2
Beryllium	331C1R2	ND	3.57e-1 ug/dscm 7%O2	3.30e-5	lbs/hr	CC7%O2
Beryllium	331C1R3	ND	3.52e-1 ug/dscm 7%O2	3.40e-5	lbs/hr	CC7%O2
Cadmium	331C1R1	8.75e+0	ug/dscm 7%O2	8.20e-4	lbs/hr	CC7%O2
Cadmium	331C1R2	2.59e+1	ug/dscm 7%O2	2.40e-3	lbs/hr	CC7%O2
Cadmium	331C1R3	2.48e+1	ug/dscm 7%O2	2.40e-3	lbs/hr	CC7%O2
Chromium	331C1R1	9.18e+0	ug/dscm 7%O2	8.60e-4	lbs/hr	CC7%O2
Chromium	331C1R2	2.38e+1	ug/dscm 7%O2	2.20e-3	lbs/hr	CC7%O2
Chromium	331C1R3	2.38e+1	ug/dscm 7%O2	2.30e-3	lbs/hr	CC7%O2
Lead	331C1R1	4.70e+3	ug/dscm 7%O2	4.40e-1	lbs/hr	CC7%O2
Lead	331C1R2	3.67e+3	ug/dscm 7%O2	3.40e-1	lbs/hr	CC7%O2
Lead	331C1R3	1.97e+3	ug/dscm 7%O2	1.90e-1	lbs/hr	CC7%O2
Mercury	331C1R1	5.23e+1	ug/dscm 7%O2	4.90e-3	lbs/hr	CC7%O2
Mercury	331C1R2	4.54e+1	ug/dscm 7%O2	4.20e-3	lbs/hr	CC7%O2
Mercury	331C1R3	1.86e+1	ug/dscm 7%O2	1.80e-3	lbs/hr	CC7%O2
Nickel	331C1R1	ND	4.70e+0 ug/dscm 7%O2	4.40e-4	lbs/hr	CC7%O2
Nickel	331C1R2	ND	4.65e+0 ug/dscm 7%O2	4.30e-4	lbs/hr	CC7%O2
Nickel	331C1R3	4.56e+1	ug/dscm 7%O2	4.40e-3	lbs/hr	CC7%O2

7. Category: Particulate

Analysis:

8. Substance	9. Run ID	Concentration	Mass Rate	Calc
Particulate	331C1R1	7.00e-3 gr/dscf 7%O2	1.41e+0 lbs/hr	
Particulate	331C1R2	8.00e-3 gr/dscf 7%O2	1.65e+0 lbs/hr	
Particulate	331C1R3	1.00e-2 gr/dscf 7%O2	2.34e+0 lbs/hr	

US EPA ARCHIVE DOCUMENT



SECTION 7: EMISSIONS ANALYSES

1. COMPANY: SHELL OIL CO.  
 2. STATE: CA  
 3. CITY: MARTINEZ EPA CAD009164021 REGION: 9  
 4. EP ID: 726 DEVICE NAME: RM-17 INCINERATOR SYSTEM TYPE: ONSITE INCINERATOR APC SYSTEM: QC/CS/DM/VS

5. Type: CONTROLLED

6. Description: EMISSIONS Process Group: LIQUID INJECTION Location: STACK Phase: GAS

7. Category: Particulate

Analysis:

8. Substance	9. Run ID	Concentration	Mass Rate	Calc
Particulate	726C1R1	4.00e-3 gr/dscf 7%O2	6.77e-2 lbs/hr	CE
Particulate	726C1R2	3.00e-3 gr/dscf 7%O2	4.72e-2 lbs/hr	CE
Particulate	726C1R3	4.00e-3 gr/dscf 7%O2	6.50e-2 lbs/hr	CE
Particulate	726C2R1	2.00e-3 gr/dscf 7%O2	4.35e-2 lbs/hr	CE
Particulate	726C2R2	1.00e-3 gr/dscf 7%O2	2.10e-2 lbs/hr	CE
Particulate	726C2R3	1.00e-3 gr/dscf 7%O2	2.07e-2 lbs/hr	CE

7. Category: THC & CO

Analysis:

8. Substance	9. Run ID	Concentration	Mass Rate	Calc
CO	726C1R1	2.28e+1 ppmv 7%O2	1.96e-1 lbs/hr	CE7%O2
CO	726C1R2	2.47e+1 ppmv 7%O2	1.97e-1 lbs/hr	CE7%O2
CO	726C1R3	2.03e+1 ppmv 7%O2	1.67e-1 lbs/hr	CE7%O2
CO	726C2R1	1.77e+1 ppmv 7%O2	1.95e-1 lbs/hr	CE7%O2
CO	726C2R2	1.83e+1 ppmv 7%O2	1.95e-1 lbs/hr	CE7%O2
CO	726C2R3	1.60e+1 ppmv 7%O2	1.68e-1 lbs/hr	CE7%O2
THC	726C1R1	3.74e+1 ppmv 7%O2	5.05e-1 lbs/hr	CE7%O2
THC	726C1R2	2.80e+1 ppmv 7%O2	3.51e-1 lbs/hr	CE7%O2
THC	726C1R3	ND 1.69e+0 ppmv 7%O2	2.19e-2 lbs/hr	CE7%O2
THC	726C2R1	ND 1.18e+0 ppmv 7%O2	2.04e-2 lbs/hr	CE7%O2
THC	726C2R2	ND 1.22e+0 ppmv 7%O2	2.04e-2 lbs/hr	CE7%O2
THC	726C2R3	ND 1.23e+0 ppmv 7%O2	2.03e-2 lbs/hr	CE7%O2

7. Category: VOC

Analysis:

8. Substance	9. Run ID	Concentration	Mass Rate	Calc
Benzene	726C1R1	ND 1.38e+3 ng/dscm 7%O2	1.02e-5 lbs/hr	CC7%O2
Benzene	726C1R2	ND 1.40e+3 ng/dscm 7%O2	9.60e-6 lbs/hr	CC7%O2
Benzene	726C1R3	ND 1.44e+3 ng/dscm 7%O2	1.02e-5 lbs/hr	CC7%O2
Benzene	726C2R1	ND 1.01e+3 ng/dscm 7%O2	9.60e-6 lbs/hr	CC7%O2
Benzene	726C2R2	ND 1.05e+3 ng/dscm 7%O2	9.60e-6 lbs/hr	CC7%O2
Benzene	726C2R3	ND 1.06e+3 ng/dscm 7%O2	9.60e-6 lbs/hr	CC7%O2
Toluene	726C1R1	ND 6.58e+4 ng/dscm 7%O2	4.86e-4 lbs/hr	CC7%O2
Toluene	726C1R2	ND 6.72e+4 ng/dscm 7%O2	4.62e-4 lbs/hr	CC7%O2
Toluene	726C1R3	ND 6.85e+4 ng/dscm 7%O2	4.86e-4 lbs/hr	CC7%O2
Toluene	726C2R1	ND 4.81e+4 ng/dscm 7%O2	4.56e-4 lbs/hr	CC7%O2
Toluene	726C2R2	ND 4.98e+4 ng/dscm 7%O2	4.56e-4 lbs/hr	CC7%O2
Toluene	726C2R3	ND 4.98e+4 ng/dscm 7%O2	4.50e-4 lbs/hr	CC7%O2

US EPA ARCHIVE DOCUMENT

SECTION 7: EMISSIONS ANALYSES

1. COMPANY: TENNESSEE EASTMAN CO.

2. STATE: TN

3. CITY: KINGSPORT

EPA ID: TND003376928

REGION: 4

4. EP ID: 809 DEVICE NAME: NO. 1 ROTARY KILN

SYSTEM TYPE: ONSITE INCINERATOR

APC SYSTEM: VS

5. Type: CONTROLLED

6. Description: EMISSIONS

Process Group: ROTARY KILN

Location: STACK

Phase: GAS

7. Category: Metals

Analysis:

8. Substance	9. Run ID	Concentration	Mass Rate	Calc
Antimony	809C1R1	3.46e+2 ug/dscm 7%O2	1.95e-2 lbs/hr	CC7%O2
Antimony	809C1R2	2.11e+2 ug/dscm 7%O2	1.17e-2 lbs/hr	CC7%O2
Antimony	809C1R3	1.93e+2 ug/dscm 7%O2	1.02e-2 lbs/hr	CC7%O2
Antimony	809C2R1	7.21e+3 ug/dscm 7%O2	3.85e-1 lbs/hr	CC7%O2
Antimony	809C2R2	5.85e+3 ug/dscm 7%O2	3.64e-1 lbs/hr	CC7%O2
Antimony	809C2R3	6.35e+3 ug/dscm 7%O2	3.28e-1 lbs/hr	CC7%O2
Arsenic	809C1R1	5.65e+0 ug/dscm 7%O2	3.18e-4 lbs/hr	CC7%O2
Arsenic	809C1R2	4.38e+0 ug/dscm 7%O2	2.43e-4 lbs/hr	CC7%O2
Arsenic	809C1R3	4.44e+0 ug/dscm 7%O2	2.35e-4 lbs/hr	CC7%O2
Arsenic	809C2R1	2.86e+2 ug/dscm 7%O2	1.53e-2 lbs/hr	CC7%O2
Arsenic	809C2R2	2.51e+2 ug/dscm 7%O2	1.56e-2 lbs/hr	CC7%O2
Arsenic	809C2R3	2.59e+2 ug/dscm 7%O2	1.34e-2 lbs/hr	CC7%O2
Cadmium	809C1R1	1.08e+2 ug/dscm 7%O2	6.07e-3 lbs/hr	CC7%O2
Cadmium	809C1R2	8.71e+1 ug/dscm 7%O2	4.83e-3 lbs/hr	CC7%O2
Cadmium	809C1R3	7.07e+1 ug/dscm 7%O2	3.74e-3 lbs/hr	CC7%O2
Cadmium	809C2R1	1.89e+3 ug/dscm 7%O2	1.01e-1 lbs/hr	CC7%O2
Cadmium	809C2R2	1.47e+3 ug/dscm 7%O2	9.17e-2 lbs/hr	CC7%O2
Cadmium	809C2R3	1.73e+3 ug/dscm 7%O2	8.94e-2 lbs/hr	CC7%O2
Chromium	809C1R1	1.15e+2 ug/dscm 7%O2	6.50e-3 lbs/hr	CC7%O2
Chromium	809C1R2	1.52e+2 ug/dscm 7%O2	8.43e-3 lbs/hr	CC7%O2
Chromium	809C1R3	1.55e+2 ug/dscm 7%O2	8.20e-3 lbs/hr	CC7%O2
Chromium	809C2R1	4.44e+2 ug/dscm 7%O2	2.37e-2 lbs/hr	CC7%O2
Chromium	809C2R2	4.12e+2 ug/dscm 7%O2	2.56e-2 lbs/hr	CC7%O2
Chromium	809C2R3	5.01e+2 ug/dscm 7%O2	2.59e-2 lbs/hr	CC7%O2
Chromium (Hex)	809C1R1	5.93e+0 ug/dscm 7%O2	3.34e-4 lbs/hr	CC7%O2
Chromium (Hex)	809C1R2	3.01e+0 ug/dscm 7%O2	1.67e-4 lbs/hr	CC7%O2
Chromium (Hex)	809C1R3	2.25e+0 ug/dscm 7%O2	1.19e-4 lbs/hr	CC7%O2
Chromium (Hex)	809C2R1	ND 2.28e+0 ug/dscm 7%O2	1.22e-4 lbs/hr	CC7%O2
Chromium (Hex)	809C2R2	ND 1.87e+0 ug/dscm 7%O2	1.16e-4 lbs/hr	CC7%O2
Chromium (Hex)	809C2R3	1.54e+1 ug/dscm 7%O2	7.98e-4 lbs/hr	CC7%O2
Lead	809C1R1	8.83e+2 ug/dscm 7%O2	4.97e-2 lbs/hr	CC7%O2
Lead	809C1R2	7.50e+2 ug/dscm 7%O2	4.16e-2 lbs/hr	CC7%O2
Lead	809C1R3	6.95e+2 ug/dscm 7%O2	3.68e-2 lbs/hr	CC7%O2
Lead	809C2R1	2.12e+4 ug/dscm 7%O2	1.13e+0 lbs/hr	CC7%O2
Lead	809C2R2	1.53e+4 ug/dscm 7%O2	9.53e-1 lbs/hr	CC7%O2
Lead	809C2R3	1.77e+4 ug/dscm 7%O2	9.16e-1 lbs/hr	CC7%O2

7. Category: THC & CO

Analysis:

8. Substance	9. Run ID	Concentration	Mass Rate	Calc
CO	809C1R1	1.30e+3 ppmv 7%O2	8.52e+1 lbs/hr	CE7%O2
CO	809C1R2	1.22e+3 ppmv 7%O2	7.86e+1 lbs/hr	CE7%O2
CO	809C1R3	1.23e+3 ppmv 7%O2	7.55e+1 lbs/hr	CE7%O2
CO	809C2R1	1.41e+3 ppmv 7%O2	8.74e+1 lbs/hr	CE7%O2
CO	809C2R2	1.23e+3 ppmv 7%O2	8.91e+1 lbs/hr	CE7%O2
CO	809C2R3	1.16e+3 ppmv 7%O2	6.96e+1 lbs/hr	CE7%O2
THC	809C1R1	4.84e+0 ppmv 7%O2	4.98e-1 lbs/hr	CE7%O2
THC	809C1R2	4.10e+0 ppmv 7%O2	4.15e-1 lbs/hr	CE7%O2
THC	809C1R3	4.20e+0 ppmv 7%O2	4.06e-1 lbs/hr	CE7%O2
THC	809C2R1	4.60e+0 ppmv 7%O2	4.49e-1 lbs/hr	CE7%O2
THC	809C2R2	5.44e+0 ppmv 7%O2	6.18e-1 lbs/hr	CE7%O2
THC	809C2R3	2.78e+0 ppmv 7%O2	2.63e-1 lbs/hr	CE7%O2

SECTION 7: EMISSIONS ANALYSES

1. COMPANY: TENNESSEE EASTMAN CO.

2. STATE: TN

3. CITY: KINGSPORT

EPA TND003376928

REGION: 4

4. EP ID: 810 DEVICE NAME: LIQUID CHEMICAL DEST

SYSTEM TYPE: ONSITE INCINERATOR

APC SYSTEM: Q/V/S/PBS

5. Type: CONTROLLED

6. Description: EMISSIONS

Process Group: LIQUID INJECTION

Location: STACK

Phase: GAS

7. Category: Metals

Analysis:

8. Substance	9. Run ID	Concentration	Mass Rate	Calc
Antimony	810C1R1	2.46e+2 ug/dscm 7%O2	1.06e-2 lbs/hr	CC7%O2
Antimony	810C1R2	1.07e+2 ug/dscm 7%O2	4.43e-3 lbs/hr	CC7%O2
Antimony	810C1R3	3.29e+2 ug/dscm 7%O2	1.40e-2 lbs/hr	CC7%O2
Antimony	810C2R1	7.38e+2 ug/dscm 7%O2	3.00e-2 lbs/hr	CC7%O2
Antimony	810C2R2	6.60e+2 ug/dscm 7%O2	2.63e-2 lbs/hr	CC7%O2
Antimony	810C2R3	5.80e+2 ug/dscm 7%O2	2.32e-2 lbs/hr	CC7%O2
Arsenic	810C1R1	2.57e+1 ug/dscm 7%O2	1.11e-3 lbs/hr	CC7%O2
Arsenic	810C1R2	1.04e+1 ug/dscm 7%O2	4.30e-4 lbs/hr	CC7%O2
Arsenic	810C1R3	2.51e+1 ug/dscm 7%O2	1.07e-3 lbs/hr	CC7%O2
Arsenic	810C2R1	7.08e+1 ug/dscm 7%O2	2.88e-3 lbs/hr	CC7%O2
Arsenic	810C2R2	7.40e+1 ug/dscm 7%O2	2.95e-3 lbs/hr	CC7%O2
Arsenic	810C2R3	6.85e+1 ug/dscm 7%O2	2.74e-3 lbs/hr	CC7%O2
Cadmium	810C1R1	1.02e+2 ug/dscm 7%O2	4.42e-3 lbs/hr	CC7%O2
Cadmium	810C1R2	4.83e+1 ug/dscm 7%O2	2.00e-3 lbs/hr	CC7%O2
Cadmium	810C1R3	1.00e+2 ug/dscm 7%O2	4.26e-3 lbs/hr	CC7%O2
Cadmium	810C2R1	1.86e+2 ug/dscm 7%O2	7.56e-3 lbs/hr	CC7%O2
Cadmium	810C2R2	1.77e+2 ug/dscm 7%O2	7.05e-3 lbs/hr	CC7%O2
Cadmium	810C2R3	1.37e+2 ug/dscm 7%O2	5.49e-3 lbs/hr	CC7%O2
Chromium	810C1R1	8.71e+1 ug/dscm 7%O2	3.76e-3 lbs/hr	CC7%O2
Chromium	810C1R2	2.80e+1 ug/dscm 7%O2	1.16e-3 lbs/hr	CC7%O2
Chromium	810C1R3	1.00e+2 ug/dscm 7%O2	4.26e-3 lbs/hr	CC7%O2
Chromium	810C2R1	1.07e+2 ug/dscm 7%O2	4.33e-3 lbs/hr	CC7%O2
Chromium	810C2R2	8.98e+1 ug/dscm 7%O2	3.58e-3 lbs/hr	CC7%O2
Chromium	810C2R3	1.05e+2 ug/dscm 7%O2	4.22e-3 lbs/hr	CC7%O2
Chromium (Hex)	810C1R1	1.98e+1 ug/dscm 7%O2	8.55e-4 lbs/hr	CC7%O2
Chromium (Hex)	810C1R2	3.82e+1 ug/dscm 7%O2	1.58e-3 lbs/hr	CC7%O2
Chromium (Hex)	810C1R3	4.11e+1 ug/dscm 7%O2	1.75e-3 lbs/hr	CC7%O2
Chromium (Hex)	810C2R1	1.19e+1 ug/dscm 7%O2	4.82e-4 lbs/hr	CC7%O2
Chromium (Hex)	810C2R2	1.23e+1 ug/dscm 7%O2	4.92e-4 lbs/hr	CC7%O2
Chromium (Hex)	810C2R3	1.78e+1 ug/dscm 7%O2	7.12e-4 lbs/hr	CC7%O2
Lead	810C1R1	9.26e+2 ug/dscm 7%O2	4.00e-2 lbs/hr	CC7%O2
Lead	810C1R2	4.73e+2 ug/dscm 7%O2	1.96e-2 lbs/hr	CC7%O2
Lead	810C1R3	9.95e+2 ug/dscm 7%O2	4.24e-2 lbs/hr	CC7%O2
Lead	810C2R1	1.85e+3 ug/dscm 7%O2	7.54e-2 lbs/hr	CC7%O2
Lead	810C2R2	1.71e+3 ug/dscm 7%O2	6.83e-2 lbs/hr	CC7%O2
Lead	810C2R3	1.26e+3 ug/dscm 7%O2	5.05e-2 lbs/hr	CC7%O2

7. Category: THC & CO

Analysis:

8. Substance	9. Run ID	Concentration	Mass Rate	Calc
CO	810C1R1	1.21e+1 ppmv 7%O2	6.07e-1 lbs/hr	CE7%O2
CO	810C1R2	1.21e+1 ppmv 7%O2	5.85e-1 lbs/hr	CE7%O2
CO	810C1R3	2.37e+1 ppmv 7%O2	1.17e+0 lbs/hr	CE7%O2
CO	810C2R1	1.89e+1 ppmv 7%O2	8.94e-1 lbs/hr	CE7%O2
CO	810C2R2	3.74e+1 ppmv 7%O2	1.73e+0 lbs/hr	CE7%O2
CO	810C2R3	1.86e+1 ppmv 7%O2	8.66e-1 lbs/hr	CE7%O2

US EPA ARCHIVE DOCUMENT

SECTION 7: EMISSIONS ANALYSES

1. COMPANY: THERMALKEM  
 2. STATE: SC  
 3. CITY: ROCK HILL  
 4. EP ID: 332 DEVICE NAME:

EPA ID: SCD04442333  
 SYSTEM TYPE: COMMERCIAL INCINERATOR APC SYSTEM: WS

REGION: 4

5. Type: CONTROLLED

6. Description: EMISSIONS Process Group: FIXED HEARTH Location: STACK Phase: GAS

7. Category: Halogens

Analysis:

8. Substance	9. Run ID	Concentration	Mass Rate	Calc
Chlorine	332C1R1	9.07e+0 ppmv 7%O2	7.08e-1 lbs/hr	CC7%O2
Chlorine	332C1R2	1.20e+1 ppmv 7%O2	8.37e-1 lbs/hr	CC7%O2
Chlorine	332C1R3	1.91e+1 ppmv 7%O2	1.17e+0 lbs/hr	CC7%O2
Chlorine	332C1R4	2.15e+1 ppmv 7%O2	1.11e+0 lbs/hr	CC7%O2
Chlorine	332C1R5	1.92e+1 ppmv 7%O2	9.61e-1 lbs/hr	CC7%O2
HCl	332C1R1	1.81e+1 ppmv 7%O2	7.28e-1 lbs/hr	CC7%O2
HCl	332C1R2	2.39e+1 ppmv 7%O2	8.61e-1 lbs/hr	CC7%O2
HCl	332C1R3	3.84e+1 ppmv 7%O2	1.20e+0 lbs/hr	CC7%O2
HCl	332C1R4	4.31e+1 ppmv 7%O2	1.15e+0 lbs/hr	CC7%O2
HCl	332C1R5	3.85e+1 ppmv 7%O2	9.90e-1 lbs/hr	CC7%O2

7. Category: PAH

Analysis:

8. Substance	9. Run ID	Concentration	Mass Rate	Calc
Acenaphthene	332C1R1	ND 5.30e+2 ng/dscm 7%O2	1.41e-5 lbs/hr	CE7%O2
Acenaphthene	332C1R2	ND 6.10e+2 ng/dscm 7%O2	1.45e-5 lbs/hr	CE7%O2
Acenaphthene	332C1R3	ND 7.47e+2 ng/dscm 7%O2	1.55e-5 lbs/hr	CE7%O2
Acenaphthylene	332C1R1	ND 3.98e+2 ng/dscm 7%O2	1.06e-5 lbs/hr	CE7%O2
Acenaphthylene	332C1R2	ND 4.57e+2 ng/dscm 7%O2	1.09e-5 lbs/hr	CE7%O2
Acenaphthylene	332C1R3	ND 5.60e+2 ng/dscm 7%O2	1.16e-5 lbs/hr	CE7%O2
Anthracene	332C1R1	ND 2.65e+2 ng/dscm 7%O2	7.05e-6 lbs/hr	CE7%O2
Anthracene	332C1R2	ND 3.05e+2 ng/dscm 7%O2	7.26e-6 lbs/hr	CE7%O2
Anthracene	332C1R3	ND 3.73e+2 ng/dscm 7%O2	7.73e-6 lbs/hr	CE7%O2
Benzo(a)anthracene	332C1R1	ND 3.98e+2 ng/dscm 7%O2	1.06e-5 lbs/hr	CE7%O2
Benzo(a)anthracene	332C1R2	ND 4.57e+2 ng/dscm 7%O2	1.09e-5 lbs/hr	CE7%O2
Benzo(a)anthracene	332C1R3	ND 5.60e+2 ng/dscm 7%O2	1.16e-5 lbs/hr	CE7%O2
Benzo(a)pyrene	332C1R1	ND 5.30e+3 ng/dscm 7%O2	1.41e-4 lbs/hr	CE7%O2
Benzo(a)pyrene	332C1R2	ND 6.10e+3 ng/dscm 7%O2	1.45e-4 lbs/hr	CE7%O2
Benzo(a)pyrene	332C1R3	ND 7.47e+3 ng/dscm 7%O2	1.55e-4 lbs/hr	CE7%O2
Benzo(b)fluoranthene	332C1R1	ND 3.31e+3 ng/dscm 7%O2	8.81e-5 lbs/hr	CE7%O2
Benzo(b)fluoranthene	332C1R2	ND 3.81e+3 ng/dscm 7%O2	9.07e-5 lbs/hr	CE7%O2
Benzo(b)fluoranthene	332C1R3	ND 4.67e+3 ng/dscm 7%O2	9.67e-5 lbs/hr	CE7%O2
Benzo(g,h,i)perylene	332C1R1	ND 1.72e+3 ng/dscm 7%O2	4.58e-5 lbs/hr	CE7%O2
Benzo(g,h,i)perylene	332C1R2	ND 1.98e+3 ng/dscm 7%O2	4.72e-5 lbs/hr	CE7%O2
Benzo(g,h,i)perylene	332C1R3	ND 2.43e+3 ng/dscm 7%O2	5.03e-5 lbs/hr	CE7%O2
Benzo(k)fluoranthene	332C1R1	ND 5.30e+3 ng/dscm 7%O2	1.41e-4 lbs/hr	CE7%O2
Benzo(k)fluoranthene	332C1R2	ND 6.10e+3 ng/dscm 7%O2	1.45e-4 lbs/hr	CE7%O2
Benzo(k)fluoranthene	332C1R3	ND 7.47e+3 ng/dscm 7%O2	1.55e-4 lbs/hr	CE7%O2
Dibenz(a,h)anthracene	332C1R1	ND 3.05e+3 ng/dscm 7%O2	8.10e-5 lbs/hr	CE7%O2
Dibenz(a,h)anthracene	332C1R2	ND 3.50e+3 ng/dscm 7%O2	8.34e-5 lbs/hr	CE7%O2
Dibenz(a,h)anthracene	332C1R3	ND 4.29e+3 ng/dscm 7%O2	8.89e-5 lbs/hr	CE7%O2
Fluoranthene	332C1R1	ND 1.33e+3 ng/dscm 7%O2	3.52e-5 lbs/hr	CE7%O2
Fluoranthene	332C1R2	ND 1.52e+3 ng/dscm 7%O2	3.63e-5 lbs/hr	CE7%O2
Fluoranthene	332C1R3	ND 1.87e+3 ng/dscm 7%O2	3.87e-5 lbs/hr	CE7%O2
Fluorene	332C1R1	ND 1.59e+3 ng/dscm 7%O2	4.23e-5 lbs/hr	CE7%O2
Fluorene	332C1R2	ND 1.83e+3 ng/dscm 7%O2	4.35e-5 lbs/hr	CE7%O2
Fluorene	332C1R3	ND 2.24e+3 ng/dscm 7%O2	4.64e-5 lbs/hr	CE7%O2
Indeno(1,2,3-cd)pyrene	332C1R1	ND 7.82e+3 ng/dscm 7%O2	2.08e-4 lbs/hr	CE7%O2
Indeno(1,2,3-cd)pyrene	332C1R2	ND 8.99e+3 ng/dscm 7%O2	2.14e-4 lbs/hr	CE7%O2
Indeno(1,2,3-cd)pyrene	332C1R3	ND 1.10e+4 ng/dscm 7%O2	2.28e-4 lbs/hr	CE7%O2
Naphthalene	332C1R1	ND 6.63e+2 ng/dscm 7%O2	1.76e-5 lbs/hr	CE7%O2
Naphthalene	332C1R2	ND 4.88e+3 ng/dscm 7%O2	1.16e-4 lbs/hr	CE7%O2
Naphthalene	332C1R3	ND 5.97e+3 ng/dscm 7%O2	1.24e-4 lbs/hr	CE7%O2

SECTION 7: EMISSIONS ANALYSES

1. COMPANY: THERMALKEM

2. STATE: SC

3. CITY: ROCK HILL

EPA SCD04442333

REGION: 4

4. EP ID: 332 DEVICE NAME:

SYSTEM TYPE: COMMERCIAL INCINERATOR

APC SYSTEM: WS

Phenanthrene	332C1R1	ND	1.59e+3	ng/dscm	7%O2	4.23e-5	lbs/hr	CE7%O2
Phenanthrene	332C1R2	ND	1.83e+3	ng/dscm	7%O2	4.35e-5	lbs/hr	CE7%O2
Phenanthrene	332C1R3	ND	2.24e+3	ng/dscm	7%O2	4.64e-5	lbs/hr	CE7%O2
Pyrene	332C1R1	ND	2.39e+3	ng/dscm	7%O2	6.34e-5	lbs/hr	CE7%O2
Pyrene	332C1R2	ND	2.74e+3	ng/dscm	7%O2	6.53e-5	lbs/hr	CE7%O2
Pyrene	332C1R3	ND	3.36e+3	ng/dscm	7%O2	6.96e-5	lbs/hr	CE7%O2

7. Category: Particulate

Analysis:

8. Substance	9. Run ID	Concentration			Mass Rate	Calc
Particulate	332C1R1	9.70e-2	gr/dscf	7%O2	6.12e+0	lbs/hr
Particulate	332C1R2	9.87e-2	gr/dscf	7%O2	5.85e+0	lbs/hr
Particulate	332C1R3	1.33e-1	gr/dscf	7%O2	7.48e+0	lbs/hr
Particulate	332C1R4	1.18e-1	gr/dscf	7%O2	5.91e+0	lbs/hr
Particulate	332C1R5	1.21e-1	gr/dscf	7%O2	5.89e+0	lbs/hr

7. Category: THC & CO

Analysis:

8. Substance	9. Run ID	Concentration			Mass Rate	Calc
CO	332C1R1	7.02e+2	ppmv	7%O2	2.16e+1	lbs/hr
CO	332C1R2	6.86e+2	ppmv	7%O2	1.90e+1	lbs/hr
CO	332C1R3	4.98e+2	ppmv	7%O2	1.20e+1	lbs/hr
CO	332C1R4	3.62e+2	ppmv	7%O2	7.43e+0	lbs/hr
CO	332C1R5	5.00e+2	ppmv	7%O2	9.87e+0	lbs/hr

7. Category: VOC

Analysis:

8. Substance	9. Run ID	Concentration			Mass Rate	Calc
1,4-Dioxane	332C1R1	ND	5.10e+4	ng/dscm	1.36e-3	lbs/hr
1,4-Dioxane	332C1R2	ND	9.62e+3	ng/dscm	2.29e-4	lbs/hr
1,4-Dioxane	332C1R3	ND	1.07e+4	ng/dscm	2.21e-4	lbs/hr
1,4-Dioxane	332C1R4	ND	1.43e+4	ng/dscm	2.53e-4	lbs/hr
1,4-Dioxane	332C1R5	ND	1.41e+4	ng/dscm	2.40e-4	lbs/hr
Acrylonitrile	332C1R1	ND	9.34e+2	ng/dscm	2.48e-5	lbs/hr
Acrylonitrile	332C1R2	ND	9.63e+2	ng/dscm	2.29e-5	lbs/hr
Acrylonitrile	332C1R3	ND	1.07e+3	ng/dscm	2.21e-5	lbs/hr
Acrylonitrile	332C1R4	ND	1.43e+3	ng/dscm	2.53e-5	lbs/hr
Acrylonitrile	332C1R5	ND	1.41e+3	ng/dscm	2.40e-5	lbs/hr
Benzene	332C1R1		4.89e+4	ng/dscm	1.30e-3	lbs/hr
Benzene	332C1R2		4.15e+5	ng/dscm	9.89e-3	lbs/hr
Benzene	332C1R3		6.90e+5	ng/dscm	1.43e-2	lbs/hr
Benzene	332C1R4		1.51e+4	ng/dscm	2.66e-4	lbs/hr
Benzene	332C1R5		7.70e+3	ng/dscm	1.31e-4	lbs/hr
Carbon Tetrachloride	332C1R1		4.25e+5	ng/dscm	1.13e-2	lbs/hr
Carbon Tetrachloride	332C1R2		3.71e+5	ng/dscm	8.83e-3	lbs/hr
Carbon Tetrachloride	332C1R3		4.80e+5	ng/dscm	9.93e-3	lbs/hr
Carbon Tetrachloride	332C1R4		5.62e+5	ng/dscm	9.89e-3	lbs/hr
Carbon Tetrachloride	332C1R5		7.69e+5	ng/dscm	1.31e-2	lbs/hr
Chloroform	332C1R1		2.96e+4	ng/dscm	7.86e-4	lbs/hr
Chloroform	332C1R2		3.75e+4	ng/dscm	8.94e-4	lbs/hr
Chloroform	332C1R3		3.38e+4	ng/dscm	7.01e-4	lbs/hr
Chloroform	332C1R4		3.11e+4	ng/dscm	5.49e-4	lbs/hr
Chloroform	332C1R5		4.64e+4	ng/dscm	7.89e-4	lbs/hr
Styrene	332C1R1		4.36e+3	ng/dscm	1.16e-4	lbs/hr
Styrene	332C1R2		3.46e+3	ng/dscm	8.25e-5	lbs/hr
Styrene	332C1R3		3.04e+3	ng/dscm	6.29e-5	lbs/hr
Styrene	332C1R4		5.34e+3	ng/dscm	9.43e-5	lbs/hr
Styrene	332C1R5		5.54e+3	ng/dscm	9.42e-5	lbs/hr
Tetrachloroethene	332C1R1		4.88e+5	ng/dscm	1.30e-2	lbs/hr

US EPA ARCHIVE DOCUMENT

SECTION 7: EMISSIONS ANALYSES

1. COMPANY: THERMALKEM  
 2. STATE: SC  
 3. CITY: ROCK HILL  
 4. EP ID: 332 DEVICE NAME:

EPA SCD044442333  
 SYSTEM TYPE: COMMERCIAL INCINERATOR APC SYSTEM: WS

REGION: 4

Tetrachloroethene	332C1R2		5.33e+5	ng/dscm	7%O2	1.27e-2	lbs/hr	7%O2
Tetrachloroethene	332C1R3		5.47e+5	ng/dscm	7%O2	1.13e-2	lbs/hr	7%O2
Tetrachloroethene	332C1R4		5.44e+5	ng/dscm	7%O2	9.60e-3	lbs/hr	7%O2
Tetrachloroethene	332C1R5		7.76e+5	ng/dscm	7%O2	1.32e-2	lbs/hr	7%O2
Trichloroethene	332C1R1		5.33e+5	ng/dscm	7%O2	1.41e-2	lbs/hr	7%O2
Trichloroethene	332C1R2		5.08e+5	ng/dscm	7%O2	1.21e-2	lbs/hr	7%O2
Trichloroethene	332C1R3		5.37e+5	ng/dscm	7%O2	1.11e-2	lbs/hr	7%O2
Trichloroethene	332C1R4		5.34e+5	ng/dscm	7%O2	9.43e-3	lbs/hr	7%O2
Trichloroethene	332C1R5		9.11e+5	ng/dscm	7%O2	1.55e-2	lbs/hr	7%O2
Trichlorofluoromethane	332C1R1	ND	9.34e+2	ng/dscm	7%O2	2.48e-5	lbs/hr	CE7%O2
Trichlorofluoromethane	332C1R2	ND	9.63e+2	ng/dscm	7%O2	2.29e-5	lbs/hr	CE7%O2
Trichlorofluoromethane	332C1R3	ND	1.07e+3	ng/dscm	7%O2	2.21e-5	lbs/hr	CE7%O2
Trichlorofluoromethane	332C1R4	ND	1.43e+3	ng/dscm	7%O2	2.53e-5	lbs/hr	CE7%O2
Trichlorofluoromethane	332C1R5		1.59e+3	ng/dscm	7%O2	2.71e-5	lbs/hr	CE7%O2
Vinyl Chloride	332C1R1		2.43e+5	ng/dscm	7%O2	6.46e-3	lbs/hr	CE7%O2
Vinyl Chloride	332C1R2		1.99e+5	ng/dscm	7%O2	4.74e-3	lbs/hr	CE7%O2
Vinyl Chloride	332C1R3		3.04e+5	ng/dscm	7%O2	6.30e-3	lbs/hr	CE7%O2
Vinyl Chloride	332C1R4		2.87e+5	ng/dscm	7%O2	5.06e-3	lbs/hr	CE7%O2
Vinyl Chloride	332C1R5		2.26e+5	ng/dscm	7%O2	3.84e-3	lbs/hr	CE7%O2

US EPA ARCHIVE DOCUMENT



SECTION 7: EMISSIONS ANALYSES

1. COMPANY: TRADE WASTE INCINERATION

2. STATE: IL

3. CITY: SAUGET

EPA ID: ILD098642424

REGION: 5

4. EP ID: 333 DEVICE NAME: UNIT NO. 4

SYSTEM TYPE: COMMERCIAL INCINERATOR

APC SYSTEM: SD/FF

5. Type: CONTROLLED

6. Description: EMISSIONS Process Group: ROTARY KILN Location: STACK Phase: GAS

7. Category: Halogens

Analysis:

8. Substance	9. Run ID	Concentration	Mass Rate	Calc
Chlorine	333C1R1	7.56e-1 ppmv 7%O2	8.60e-2 lbs/hr	CC7%O2
Chlorine	333C1R2	8.78e-1 ppmv 7%O2	1.01e-1 lbs/hr	CC7%O2
Chlorine	333C1R3	9.87e-1 ppmv 7%O2	1.16e-1 lbs/hr	CC7%O2
Chlorine	333C1R4	2.70e-1 ppmv 7%O2	3.04e-2 lbs/hr	CC7%O2
Chlorine	333C2R1	3.37e-1 ppmv 7%O2	3.84e-2 lbs/hr	CC7%O2
Chlorine	333C2R2	2.94e-1 ppmv 7%O2	3.44e-2 lbs/hr	CC7%O2
Chlorine	333C2R3	ND 4.48e-2 ppmv 7%O2	5.29e-3 lbs/hr	CC7%O2
Chlorine	333C2R4	6.80e-1 ppmv 7%O2	8.07e-2 lbs/hr	CC7%O2
HCl	333C1R1	5.14e+1 ppmv 7%O2	3.00e+0 lbs/hr	CC7%O2
HCl	333C1R2	3.19e+1 ppmv 7%O2	1.88e+0 lbs/hr	CC7%O2
HCl	333C1R3	5.72e+1 ppmv 7%O2	3.47e+0 lbs/hr	CC7%O2
HCl	333C1R4	4.81e+1 ppmv 7%O2	2.79e+0 lbs/hr	CC7%O2
HCl	333C2R1	6.25e+1 ppmv 7%O2	3.66e+0 lbs/hr	CC7%O2
HCl	333C2R2	8.24e+1 ppmv 7%O2	4.96e+0 lbs/hr	CC7%O2
HCl	333C2R3	6.94e+1 ppmv 7%O2	4.22e+0 lbs/hr	CC7%O2
HCl	333C2R4	1.87e+1 ppmv 7%O2	1.14e+0 lbs/hr	CC7%O2

7. Category: Particulate

Analysis:

8. Substance	9. Run ID	Concentration	Mass Rate	Calc
Particulate	333C1R1	4.60e-3 gr/dscf 7%O2	4.08e-1 lbs/hr	CE
Particulate	333C1R2	1.20e-3 gr/dscf 7%O2	1.07e-1 lbs/hr	CE
Particulate	333C1R3	4.00e-4 gr/dscf 7%O2	3.68e-2 lbs/hr	CE
Particulate	333C1R4	1.50e-3 gr/dscf 7%O2	1.32e-1 lbs/hr	CE
Particulate	333C2R1	1.70e-3 gr/dscf 7%O2	1.51e-1 lbs/hr	CE
Particulate	333C2R2	2.70e-3 gr/dscf 7%O2	2.46e-1 lbs/hr	CE
Particulate	333C2R3	5.00e-4 gr/dscf 7%O2	4.61e-2 lbs/hr	CE
Particulate	333C2R4	8.00e-4 gr/dscf 7%O2	7.40e-2 lbs/hr	CE

7. Category: SVOC

Analysis:

8. Substance	9. Run ID	Concentration	Mass Rate	Calc
Hexachloroethane	333C1R1	5.00e+3 ng/dscm 7%O2	1.93e-4 lbs/hr	CC7%O2
Hexachloroethane	333C1R2	9.51e+1 ng/dscm 7%O2	3.70e-6 lbs/hr	CC7%O2
Hexachloroethane	333C1R3	8.28e+2 ng/dscm 7%O2	3.32e-5 lbs/hr	CC7%O2
Hexachloroethane	333C1R4	1.00e+2 ng/dscm 7%O2	3.84e-6 lbs/hr	CC7%O2
Hexachloroethane	333C2R1	1.23e+3 ng/dscm 7%O2	4.76e-5 lbs/hr	CC7%O2
Hexachloroethane	333C2R2	6.88e+3 ng/dscm 7%O2	2.74e-4 lbs/hr	CC7%O2
Hexachloroethane	333C2R3	2.30e+1 ng/dscm 7%O2	9.26e-7 lbs/hr	CC7%O2
Hexachloroethane	333C2R4	4.26e+1 ng/dscm 7%O2	1.72e-6 lbs/hr	CC7%O2
Trichlorobenzene	333C1R1	1.03e+3 ng/dscm 7%O2	3.98e-5 lbs/hr	CC7%O2
Trichlorobenzene	333C1R2	5.37e+2 ng/dscm 7%O2	2.09e-5 lbs/hr	CC7%O2
Trichlorobenzene	333C1R3	3.46e+2 ng/dscm 7%O2	1.39e-5 lbs/hr	CC7%O2
Trichlorobenzene	333C1R4	2.55e+2 ng/dscm 7%O2	9.79e-6 lbs/hr	CC7%O2
Trichlorobenzene	333C2R1	4.37e+2 ng/dscm 7%O2	1.69e-5 lbs/hr	CC7%O2
Trichlorobenzene	333C2R2	4.55e+2 ng/dscm 7%O2	1.81e-5 lbs/hr	CC7%O2
Trichlorobenzene	333C2R3	2.53e+2 ng/dscm 7%O2	1.02e-5 lbs/hr	CC7%O2
Trichlorobenzene	333C2R4	3.28e+2 ng/dscm 7%O2	1.32e-5 lbs/hr	CC7%O2

7. Category: THC & CO

Analysis:

8. Substance	9. Run ID	Concentration	Mass Rate	Calc
CO	333C1R2	7.45e+0 ppmv 7%O2	3.37e-1 lbs/hr	CE7%O2
CO	333C1R3	7.45e+0 ppmv 7%O2	3.47e-1 lbs/hr	CE7%O2

SECTION 7: EMISSIONS ANALYSES

1. COMPANY: TRADE WASTE INCINERATION

2. STATE: IL

3. CITY: SAUGET

EPA ID: ILD098642424

REGION: 5

4. EP ID: 333 DEVICE NAME: UNIT NO. 4

SYSTEM TYPE: COMMERCIAL INCINERATOR

APC SYSTEM: SD/FF

CO	333C1R4	8.94e+0	ppmv 7%O2	3.98e-1	lbs/hr	CE7%O2
CO	333C2R1	1.05e+1	ppmv 7%O2	4.75e-1	lbs/hr	CE7%O2
CO	333C2R3	1.49e+0	ppmv 7%O2	6.96e-2	lbs/hr	CE7%O2
CO	333C2R4	1.49e+0	ppmv 7%O2	6.99e-2	lbs/hr	CE7%O2

7. Category: VOC

Analysis:

8. Substance	9. Run ID	Concentration	Mass Rate	Calc
Carbon Tetrachloride	333C1R1	8.83e+3 ng/dscm 7%O2	3.41e-4 lbs/hr	CC7%O2
Carbon Tetrachloride	333C1R2	5.74e+3 ng/dscm 7%O2	2.24e-4 lbs/hr	CC7%O2
Carbon Tetrachloride	333C1R3	1.00e+4 ng/dscm 7%O2	4.02e-4 lbs/hr	CC7%O2
Carbon Tetrachloride	333C1R4	5.24e+3 ng/dscm 7%O2	2.01e-4 lbs/hr	CC7%O2
Carbon Tetrachloride	333C2R1	7.03e+3 ng/dscm 7%O2	2.73e-4 lbs/hr	CC7%O2
Carbon Tetrachloride	333C2R2	5.35e+3 ng/dscm 7%O2	2.13e-4 lbs/hr	CC7%O2
Carbon Tetrachloride	333C2R3	5.00e+3 ng/dscm 7%O2	2.01e-4 lbs/hr	CC7%O2
Carbon Tetrachloride	333C2R4	5.11e+3 ng/dscm 7%O2	2.06e-4 lbs/hr	CC7%O2
Chlorobenzene	333C1R1	ND 6.40e+3 ng/dscm 7%O2	2.47e-4 lbs/hr	CC7%O2
Chlorobenzene	333C1R2	ND 4.93e+3 ng/dscm 7%O2	1.92e-4 lbs/hr	CC7%O2
Chlorobenzene	333C1R3	ND 4.91e+3 ng/dscm 7%O2	1.97e-4 lbs/hr	CC7%O2
Chlorobenzene	333C1R4	ND 4.90e+3 ng/dscm 7%O2	1.88e-4 lbs/hr	CC7%O2
Chlorobenzene	333C2R1	ND 8.06e+3 ng/dscm 7%O2	3.12e-4 lbs/hr	CC7%O2
Chlorobenzene	333C2R2	ND 6.08e+3 ng/dscm 7%O2	2.42e-4 lbs/hr	CC7%O2
Chlorobenzene	333C2R3	ND 4.84e+3 ng/dscm 7%O2	1.94e-4 lbs/hr	CC7%O2
Chlorobenzene	333C2R4	ND 4.85e+3 ng/dscm 7%O2	1.96e-4 lbs/hr	CC7%O2

US EPA ARCHIVE DOCUMENT

SECTION 7: EMISSIONS ANALYSES

1. COMPANY: UPJOHN CO.  
 2. STATE: MI  
 3. CITY: KALAMAZOO EPA MID000820381 REGION: 5  
 4. EP ID: 342 DEVICE NAME: SYSTEM TYPE: ONSITE INCINERATOR APC SYSTEM: WHB/QC/S/V/S/DM

5. Type: CONTROLLED

6. Description: EMISSIONS Process Group: ROTARY KILN Location: STACK Phase: GAS

7. Category: Halogens

Analysis:

8. Substance	9. Run ID	Concentration	Mass Rate	Calc
HCl	342C2R1	2.09e-1 ppmv 7%O2	4.00e-3 lbs/hr	CC7%O2
HCl	342C2R2	2.07e-1 ppmv 7%O2	4.00e-3 lbs/hr	CC7%O2
HCl	342C2R3	2.52e-1 ppmv 7%O2	4.00e-3 lbs/hr	CC7%O2

7. Category: Metals

Analysis:

8. Substance	9. Run ID	Concentration	Mass Rate	Calc
Arsenic	342C1R1	5.38e-1 ug/dscm 7%O2	4.57e-6 lbs/hr	CC7%O2
Arsenic	342C1R2	3.04e-1 ug/dscm 7%O2	3.83e-6 lbs/hr	CC7%O2
Arsenic	342C1R3	3.71e-1 ug/dscm 7%O2	3.71e-6 lbs/hr	CC7%O2
Cadmium	342C1R1	1.02e+0 ug/dscm 7%O2	8.70e-6 lbs/hr	CC7%O2
Cadmium	342C1R2	5.76e-1 ug/dscm 7%O2	7.24e-6 lbs/hr	CC7%O2
Cadmium	342C1R3	8.22e-1 ug/dscm 7%O2	8.21e-6 lbs/hr	CC7%O2
Chromium	342C1R1	5.87e+0 ug/dscm 7%O2	4.99e-5 lbs/hr	CC7%O2
Chromium	342C1R2	1.22e+0 ug/dscm 7%O2	1.54e-5 lbs/hr	CC7%O2
Chromium	342C1R3	1.39e+0 ug/dscm 7%O2	1.39e-5 lbs/hr	CC7%O2
Lead	342C1R1	2.91e+1 ug/dscm 7%O2	2.47e-4 lbs/hr	CC7%O2
Lead	342C1R2	1.88e+1 ug/dscm 7%O2	2.36e-4 lbs/hr	CC7%O2
Lead	342C1R3	1.18e+1 ug/dscm 7%O2	1.18e-4 lbs/hr	CC7%O2
Mercury	342C1R1	6.70e+0 ug/dscm 7%O2	5.70e-5 lbs/hr	CC7%O2
Mercury	342C1R2	4.37e+0 ug/dscm 7%O2	5.50e-5 lbs/hr	CC7%O2
Mercury	342C1R3	7.67e+0 ug/dscm 7%O2	7.66e-5 lbs/hr	CC7%O2

7. Category: Particulate

Analysis:

8. Substance	9. Run ID	Concentration	Mass Rate	Calc
Particulate	342C1R1	3.60e-3 gr/dscf 7%O2	7.00e-2 lbs/hr	CC7%O2
Particulate	342C1R2	5.56e-3 gr/dscf 7%O2	1.60e-1 lbs/hr	CC7%O2
Particulate	342C1R3	2.19e-3 gr/dscf 7%O2	5.00e-2 lbs/hr	CC7%O2

7. Category: VOC

Analysis:

8. Substance	9. Run ID	Concentration	Mass Rate	Calc
Carbon Tetrachloride	342C2R1	1.58e+4 ng/dscm 7%O2	2.00e-4 lbs/hr	CC7%O2
Carbon Tetrachloride	342C2R2	7.83e+3 ng/dscm 7%O2	1.00e-4 lbs/hr	CC7%O2
Carbon Tetrachloride	342C2R3	9.52e+3 ng/dscm 7%O2	1.00e-4 lbs/hr	CC7%O2
Toluene	342C2R1	1.18e+4 ng/dscm 7%O2	1.50e-4 lbs/hr	CC7%O2
Toluene	342C2R2	3.60e+4 ng/dscm 7%O2	4.60e-4 lbs/hr	CC7%O2
Toluene	342C2R3	8.57e+3 ng/dscm 7%O2	9.00e-5 lbs/hr	CC7%O2

US EPA ARCHIVE DOCUMENT

SECTION 7: EMISSIONS ANALYSES

1. COMPANY: VELVICOL CHEMICAL CORPORATION  
 2. STATE: TN  
 3. CITY: MEMPHIS  
 4. EP ID: 905 DEVICE NAME:

EPA ID: TND007024664  
 SYSTEM TYPE: ONSITE INCINERATOR

REGION: 4  
 APC SYSTEM: QT/VS/AS/CS

5. Type: CONTROLLED

6. Description: EMISSIONS Process Group: LIQUID INJECTION Location: STACK Phase: GAS

7. Category: Metals

Analysis:

8. Substance	9. Run ID	Concentration	Mass Rate	Calc
Arsenic	905C1R1	8.93e+1 ug/dscm 7%O2	4.60e-4 lbs/hr	CE7%O2
Arsenic	905C1R2	7.64e+1 ug/dscm 7%O2	3.91e-4 lbs/hr	CE7%O2
Arsenic	905C1R3	7.22e+1 ug/dscm 7%O2	3.65e-4 lbs/hr	CE7%O2
Beryllium	905C1R1	1.78e+0 ug/dscm 7%O2	9.17e-6 lbs/hr	CE7%O2
Beryllium	905C1R2	1.75e+0 ug/dscm 7%O2	8.95e-6 lbs/hr	CE7%O2
Beryllium	905C1R3	1.90e+0 ug/dscm 7%O2	9.62e-6 lbs/hr	CE7%O2
Cadmium	905C1R1	1.48e+3 ug/dscm 7%O2	7.64e-3 lbs/hr	CE7%O2
Cadmium	905C1R2	1.71e+3 ug/dscm 7%O2	8.74e-3 lbs/hr	CE7%O2
Cadmium	905C1R3	1.85e+3 ug/dscm 7%O2	9.33e-3 lbs/hr	CE7%O2
Chromium	905C1R1	1.76e+1 ug/dscm 7%O2	9.05e-5 lbs/hr	CE7%O2
Chromium	905C1R2	1.87e+1 ug/dscm 7%O2	9.57e-5 lbs/hr	CE7%O2
Chromium	905C1R3	1.55e+1 ug/dscm 7%O2	7.83e-5 lbs/hr	CE7%O2

7. Category: THC & CO

Analysis:

8. Substance	9. Run ID	Concentration	Mass Rate	Calc
CO	905C1R1	3.66e+1 ppmv 7%O2	2.19e-1 lbs/hr	CE7%O2
CO	905C1R2	2.69e+1 ppmv 7%O2	1.60e-1 lbs/hr	CE7%O2
CO	905C1R3	4.09e+1 ppmv 7%O2	2.40e-1 lbs/hr	CE7%O2

US EPA ARCHIVE DOCUMENT

SECTION 7: EMISSIONS ANALYSES

1. COMPANY: VERTAC SUPERFUND SITE  
 2. STATE: AR  
 3. CITY: JACKSONVILLE  
 4. EP ID: 914 DEVICE NAME:

EPA ID: ?  
 SYSTEM TYPE: ONSITE INCINERATOR

REGION: 6  
 APC SYSTEM: ?

5. Type: CONTROLLED

6. Description: EMISSIONS Process Group: ? Location: STACK Phase: GAS

7. Category: Dioxin & Furan

Analysis:

8. Substance	9. Run ID	Concentration	Mass Rate	Calc
4D 2378	914C1R4	2.46e-1 ng/dscm 7%O2	7.54e-9 lbs/hr	CE7%O2
4D Other	914C1R4	2.37e+0 ng/dscm 7%O2	7.25e-8 lbs/hr	CE7%O2
4D Total	914C1R4	2.62e+0 ng/dscm 7%O2	8.00e-8 lbs/hr	CE7%O2
4F 2378	914C1R4	1.14e+0 ng/dscm 7%O2	3.48e-8 lbs/hr	CE7%O2
4F Other	914C1R4	1.77e+1 ng/dscm 7%O2	5.41e-7 lbs/hr	CE7%O2
4F Total	914C1R4	1.88e+1 ng/dscm 7%O2	5.76e-7 lbs/hr	OCE
4F Total	914C1R4	1.88e+1 ng/dscm 7%O2	5.76e-7 lbs/hr	CE7%O2
5D 12378	914C1R4	8.34e-1 ng/dscm 7%O2	2.55e-8 lbs/hr	CE7%O2
5D Other	914C1R4	4.09e+0 ng/dscm 7%O2	1.25e-7 lbs/hr	CE7%O2
5D Total	914C1R4	4.93e+0 ng/dscm 7%O2	1.51e-7 lbs/hr	OCE
5D Total	914C1R4	4.93e+0 ng/dscm 7%O2	1.51e-7 lbs/hr	CE7%O2
5F 12378	914C1R4	3.79e+0 ng/dscm 7%O2	1.16e-7 lbs/hr	CE7%O2
5F 23478	914C1R4	2.39e+0 ng/dscm 7%O2	7.30e-8 lbs/hr	CE7%O2
5F Other	914C1R4	2.24e+1 ng/dscm 7%O2	6.86e-7 lbs/hr	CE7%O2
5F Total	914C1R4	2.86e+1 ng/dscm 7%O2	8.75e-7 lbs/hr	OCE
5F Total	914C1R4	2.86e+1 ng/dscm 7%O2	8.75e-7 lbs/hr	CE7%O2
6D 123478	914C1R4	8.72e-1 ng/dscm 7%O2	2.67e-8 lbs/hr	CE7%O2
6D 123678	914C1R4	1.44e+0 ng/dscm 7%O2	4.41e-8 lbs/hr	CE7%O2
6D 123789	914C1R4	1.10e+0 ng/dscm 7%O2	3.36e-8 lbs/hr	CE7%O2
6D Other	914C1R4	4.78e+0 ng/dscm 7%O2	1.46e-7 lbs/hr	CE7%O2
6D Total	914C1R4	8.19e+0 ng/dscm 7%O2	2.50e-7 lbs/hr	OCE
6D Total	914C1R4	8.19e+0 ng/dscm 7%O2	2.50e-7 lbs/hr	CE7%O2
6F 123478	914C1R4	1.15e+1 ng/dscm 7%O2	3.51e-7 lbs/hr	CE7%O2
6F 123678	914C1R4	3.11e+0 ng/dscm 7%O2	9.51e-8 lbs/hr	CE7%O2
6F 123789	914C1R4	7.20e-1 ng/dscm 7%O2	2.20e-8 lbs/hr	CE7%O2
6F 234678	914C1R4	1.18e+0 ng/dscm 7%O2	3.59e-8 lbs/hr	CE7%O2
6F Other	914C1R4	1.61e+1 ng/dscm 7%O2	4.92e-7 lbs/hr	CE7%O2
6F Total	914C1R4	3.26e+1 ng/dscm 7%O2	9.96e-7 lbs/hr	OCE
6F Total	914C1R4	3.26e+1 ng/dscm 7%O2	9.96e-7 lbs/hr	CE7%O2
7D 1234678	914C1R4	6.03e+0 ng/dscm 7%O2	1.84e-7 lbs/hr	CE7%O2
7D Other	914C1R4	2.58e+0 ng/dscm 7%O2	7.88e-8 lbs/hr	CE7%O2
7D Total	914C1R4	8.60e+0 ng/dscm 7%O2	2.63e-7 lbs/hr	OCE
7D Total	914C1R4	8.60e+0 ng/dscm 7%O2	2.63e-7 lbs/hr	CE7%O2
7F 1234678	914C1R4	9.70e+0 ng/dscm 7%O2	2.97e-7 lbs/hr	CE7%O2
7F 1234789	914C1R4	5.65e+0 ng/dscm 7%O2	1.73e-7 lbs/hr	CE7%O2
7F Other	914C1R4	8.83e+0 ng/dscm 7%O2	2.70e-7 lbs/hr	CE7%O2
7F Total	914C1R4	2.42e+1 ng/dscm 7%O2	7.40e-7 lbs/hr	OCE
7F Total	914C1R4	2.42e+1 ng/dscm 7%O2	7.40e-7 lbs/hr	CE7%O2
8D	914C1R4	6.22e+0 ng/dscm 7%O2	1.90e-7 lbs/hr	CE7%O2
8F	914C1R4	1.92e+1 ng/dscm 7%O2	5.88e-7 lbs/hr	CE7%O2
TEQ	914C1R4	4.39e+0 ng/dscm 7%O2	1.34e-7 lbs/hr	COET
Total PCDD/PCDF	914C1R4	1.54e+2 ng/dscm 7%O2	4.71e-6 lbs/hr	COET

7. Category: Halogens

Analysis:

8. Substance	9. Run ID	Concentration	Mass Rate	Calc
Chlorine	914C1R1	1.61e+1 ppmv 7%O2	1.54e+0 lbs/hr	CE7%O2

SECTION 7: EMISSIONS ANALYSES

1. COMPANY: VERTAC SUPERFUND SITE

2. STATE: AR

3. CITY: JACKSONVILLE

EPA ID: ?

REGION: 6

4. EP ID: 914 DEVICE NAME:

SYSTEM TYPE: ONSITE INCINERATOR

APC SYSTEM: ?

Chlorine	914C1R2	1.59e+1	ppmv 7%O2	1.53e+0	lbs/hr	CE7%O2
Chlorine	914C1R3	2.42e+1	ppmv 7%O2	2.22e+0	lbs/hr	CE7%O2

7. Category: Particulate

Analysis:

8. Substance	9. Run ID	Concentration		Mass Rate		Calc
Particulate	914C1R1	4.20e-3	gr/dscf 7%O2	3.14e-1	lbs/hr	CE
Particulate	914C1R2	4.20e-3	gr/dscf 7%O2	3.14e-1	lbs/hr	CE
Particulate	914C1R3	3.80e-3	gr/dscf 7%O2	2.72e-1	lbs/hr	CE

7. Category: SVOC

Analysis:

8. Substance	9. Run ID	Concentration		Mass Rate		Calc
Hexachlorobenzene	914C1R1	1.32e+3	ng/dscm 7%O2	4.30e-5	lbs/hr	CE7%O2
Hexachlorobenzene	914C1R2	1.29e+3	ng/dscm 7%O2	4.21e-5	lbs/hr	CE7%O2
Hexachlorobenzene	914C1R3	1.54e+3	ng/dscm 7%O2	4.81e-5	lbs/hr	CE7%O2

7. Category: THC & CO

Analysis:

8. Substance	9. Run ID	Concentration		Mass Rate		Calc
CO	914C1R1	5.80e+0	ppmv 7%O2	2.20e-1	lbs/hr	CE
CO	914C1R2	1.50e+0	ppmv 7%O2	5.69e-2	lbs/hr	CE
CO	914C1R3	3.60e+0	ppmv 7%O2	1.31e-1	lbs/hr	CE

US EPA ARCHIVE DOCUMENT



SECTION 7: EMISSIONS ANALYSES

1. COMPANY: VULCAN MATERIALS CO.  
 2. STATE: KS  
 3. CITY: WICHITA  
 4. EP ID: 229 DEVICE NAME:

EPA KSD007482029  
 SYSTEM TYPE: ONSITE INCINERATOR

REGION: 7  
 APC SYSTEM: WHB/ACS/HCS/CS

5. Type: CONTROLLED

6. Description: EMISSIONS Process Group: LIQUID INJECTION Location: STACK Phase: GAS

7. Category: Dioxin & Furan

Analysis:

8. Substance	9. Run ID	Concentration	Mass Rate	Calc
4D 2378	229C1R2	ND 7.54e-3 ng/dscm 7%O2	2.26e-11 lbs/hr	CC7%O2
4D 2378	229C1R3	ND 1.57e-2 ng/dscm 7%O2	5.22e-11 lbs/hr	CC7%O2
4D 2378	229C1R4	1.41e-2 ng/dscm 7%O2	4.58e-11 lbs/hr	CC7%O2
4D 2378	229C2R1	ND 6.50e-4 ng/dscm 7%O2	2.11e-12 lbs/hr	CC7%O2
4D 2378	229C2R2	ND 7.33e-3 ng/dscm 7%O2	2.50e-11 lbs/hr	CC7%O2
4D 2378	229C2R4	ND 4.06e-3 ng/dscm 7%O2	1.42e-11 lbs/hr	CC7%O2
4D Other	229C1R2	8.01e-3 ng/dscm 7%O2	2.40e-11 lbs/hr	CC7%O2
4D Other	229C1R3	ND 1.31e-2 ng/dscm 7%O2	4.36e-11 lbs/hr	CC7%O2
4D Other	229C1R4	2.25e-2 ng/dscm 7%O2	7.30e-11 lbs/hr	CC7%O2
4D Other	229C2R1	1.37e-3 ng/dscm 7%O2	4.46e-12 lbs/hr	CC7%O2
4D Other	229C2R2	3.20e-2 ng/dscm 7%O2	1.09e-10 lbs/hr	CC7%O2
4D Other	229C2R4	ND 4.06e-3 ng/dscm 7%O2	1.42e-11 lbs/hr	CC7%O2
4D Total	229C1R2	1.56e-2 ng/dscm 7%O2	4.66e-11 lbs/hr	OCE
4D Total	229C1R3	2.88e-2 ng/dscm 7%O2	9.58e-11 lbs/hr	OCE
4D Total	229C1R4	3.67e-2 ng/dscm 7%O2	1.19e-10 lbs/hr	OCE
4D Total	229C2R1	2.02e-3 ng/dscm 7%O2	6.57e-12 lbs/hr	OCE
4D Total	229C2R2	3.93e-2 ng/dscm 7%O2	1.34e-10 lbs/hr	OCE
4D Total	229C2R4	8.12e-3 ng/dscm 7%O2	2.84e-11 lbs/hr	OCE
4F 2378	229C1R2	5.07e-1 ng/dscm 7%O2	1.52e-9 lbs/hr	CC7%O2
4F 2378	229C1R3	4.48e-1 ng/dscm 7%O2	1.49e-9 lbs/hr	CC7%O2
4F 2378	229C1R4	5.65e+0 ng/dscm 7%O2	1.83e-8 lbs/hr	CC7%O2
4F 2378	229C2R1	2.22e+0 ng/dscm 7%O2	7.20e-9 lbs/hr	CC7%O2
4F 2378	229C2R2	6.48e+0 ng/dscm 7%O2	2.21e-8 lbs/hr	CC7%O2
4F 2378	229C2R4	4.18e+0 ng/dscm 7%O2	1.46e-8 lbs/hr	CC7%O2
4F Other	229C1R2	5.01e+0 ng/dscm 7%O2	1.50e-8 lbs/hr	CC7%O2
4F Other	229C1R3	2.89e+1 ng/dscm 7%O2	9.62e-8 lbs/hr	CC7%O2
4F Other	229C1R4	2.98e+1 ng/dscm 7%O2	9.64e-8 lbs/hr	CC7%O2
4F Other	229C2R1	1.99e+1 ng/dscm 7%O2	6.47e-8 lbs/hr	CC7%O2
4F Other	229C2R2	4.25e+1 ng/dscm 7%O2	1.45e-7 lbs/hr	CC7%O2
4F Other	229C2R4	3.17e+1 ng/dscm 7%O2	1.11e-7 lbs/hr	CC7%O2
4F Total	229C1R2	5.51e+0 ng/dscm 7%O2	1.65e-8 lbs/hr	OCE
4F Total	229C1R3	2.93e+1 ng/dscm 7%O2	9.77e-8 lbs/hr	OCE
4F Total	229C1R4	3.54e+1 ng/dscm 7%O2	1.15e-7 lbs/hr	OCE
4F Total	229C2R1	2.22e+1 ng/dscm 7%O2	7.19e-8 lbs/hr	OCE
4F Total	229C2R2	4.90e+1 ng/dscm 7%O2	1.67e-7 lbs/hr	OCE
4F Total	229C2R4	3.59e+1 ng/dscm 7%O2	1.26e-7 lbs/hr	OCE
5D 12378	229C1R2	ND 9.98e-3 ng/dscm 7%O2	2.99e-11 lbs/hr	CC7%O2
5D 12378	229C1R3	ND 2.25e-2 ng/dscm 7%O2	7.50e-11 lbs/hr	CC7%O2
5D 12378	229C1R4	ND 3.18e-2 ng/dscm 7%O2	1.03e-10 lbs/hr	CC7%O2
5D 12378	229C2R1	ND 7.89e-3 ng/dscm 7%O2	2.56e-11 lbs/hr	CC7%O2
5D 12378	229C2R2	1.15e-2 ng/dscm 7%O2	3.91e-11 lbs/hr	CC7%O2
5D 12378	229C2R4	ND 5.63e-3 ng/dscm 7%O2	1.97e-11 lbs/hr	CC7%O2
5D Other	229C1R2	ND 5.51e-2 ng/dscm 7%O2	1.65e-10 lbs/hr	CC7%O2
5D Other	229C1R3	ND 4.84e-2 ng/dscm 7%O2	1.61e-10 lbs/hr	CC7%O2
5D Other	229C1R4	6.36e-2 ng/dscm 7%O2	2.06e-10 lbs/hr	CC7%O2
5D Other	229C2R1	1.72e-3 ng/dscm 7%O2	5.58e-12 lbs/hr	CC7%O2
5D Other	229C2R2	3.22e-2 ng/dscm 7%O2	1.10e-10 lbs/hr	CC7%O2
5D Other	229C2R4	ND 1.97e-2 ng/dscm 7%O2	6.90e-11 lbs/hr	CC7%O2
5D Total	229C1R2	6.50e-2 ng/dscm 7%O2	1.95e-10 lbs/hr	OCE
5D Total	229C1R3	7.09e-2 ng/dscm 7%O2	2.36e-10 lbs/hr	OCE
5D Total	229C1R4	9.54e-2 ng/dscm 7%O2	3.09e-10 lbs/hr	OCE
5D Total	229C2R1	9.61e-3 ng/dscm 7%O2	3.12e-11 lbs/hr	OCE
5D Total	229C2R2	4.37e-2 ng/dscm 7%O2	1.49e-10 lbs/hr	OCE
5D Total	229C2R4	2.54e-2 ng/dscm 7%O2	8.87e-11 lbs/hr	OCE
5F 12378	229C1R2	1.37e+0 ng/dscm 7%O2	4.12e-9 lbs/hr	CC7%O2

US EPA ARCHIVE DOCUMENT

SECTION 7: EMISSIONS ANALYSES

1. COMPANY: VULCAN MATERIALS CO.  
 2. STATE: KS  
 3. CITY: WICHITA  
 4. EP ID: 229 DEVICE NAME:

EPA ID: KSD007482029  
 SYSTEM TYPE: ONSITE INCINERATOR

REGION: 7  
 APC SYSTEM: WHB/ACS/HCS/CS

5F 12378	229C1R3	7.03e-1	ng/dscm	7%O2	2.34e-9	lbs/hr	CC7%O2
5F 12378	229C1R4	7.90e+0	ng/dscm	7%O2	2.56e-8	lbs/hr	CC7%O2
5F 12378	229C2R1	3.05e+0	ng/dscm	7%O2	9.91e-9	lbs/hr	CC7%O2
5F 12378	229C2R2	1.19e+1	ng/dscm	7%O2	4.05e-8	lbs/hr	CC7%O2
5F 12378	229C2R4	8.98e+0	ng/dscm	7%O2	3.14e-8	lbs/hr	CC7%O2
5F 23478	229C1R2	8.01e-1	ng/dscm	7%O2	2.40e-9	lbs/hr	CC7%O2
5F 23478	229C1R3	4.48e-1	ng/dscm	7%O2	1.49e-9	lbs/hr	CC7%O2
5F 23478	229C1R4	6.26e+0	ng/dscm	7%O2	2.03e-8	lbs/hr	CC7%O2
5F 23478	229C2R1	1.75e+0	ng/dscm	7%O2	5.69e-9	lbs/hr	CC7%O2
5F 23478	229C2R2	6.74e+0	ng/dscm	7%O2	2.30e-8	lbs/hr	CC7%O2
5F 23478	229C2R4	4.69e+0	ng/dscm	7%O2	1.64e-8	lbs/hr	CC7%O2
5F Other	229C1R2	6.67e+0	ng/dscm	7%O2	2.00e-8	lbs/hr	CC7%O2
5F Other	229C1R3	2.56e+0	ng/dscm	7%O2	8.53e-9	lbs/hr	CC7%O2
5F Other	229C1R4	2.95e+1	ng/dscm	7%O2	9.56e-8	lbs/hr	CC7%O2
5F Other	229C2R1	1.78e+1	ng/dscm	7%O2	5.78e-8	lbs/hr	CC7%O2
5F Other	229C2R2	4.10e+1	ng/dscm	7%O2	1.40e-7	lbs/hr	CC7%O2
5F Other	229C2R4	3.63e+1	ng/dscm	7%O2	1.27e-7	lbs/hr	CC7%O2
5F Total	229C1R2	8.85e+0	ng/dscm	7%O2	2.65e-8	lbs/hr	OCE
5F Total	229C1R3	3.71e+0	ng/dscm	7%O2	1.24e-8	lbs/hr	OCE
5F Total	229C1R4	4.37e+1	ng/dscm	7%O2	1.41e-7	lbs/hr	OCE
5F Total	229C2R1	2.26e+1	ng/dscm	7%O2	7.34e-8	lbs/hr	OCE
5F Total	229C2R2	5.97e+1	ng/dscm	7%O2	2.03e-7	lbs/hr	OCE
5F Total	229C2R4	5.00e+1	ng/dscm	7%O2	1.75e-7	lbs/hr	OCE
6D 123478	229C1R2	ND	1.04e-2	ng/dscm	3.13e-11	lbs/hr	CC7%O2
6D 123478	229C1R3	ND	5.83e-2	ng/dscm	1.94e-10	lbs/hr	CC7%O2
6D 123478	229C1R4	ND	5.99e-2	ng/dscm	1.94e-10	lbs/hr	CC7%O2
6D 123478	229C2R1	ND	1.03e-2	ng/dscm	3.35e-11	lbs/hr	CC7%O2
6D 123478	229C2R2	ND	1.63e-2	ng/dscm	5.55e-11	lbs/hr	CC7%O2
6D 123478	229C2R4	ND	7.84e-3	ng/dscm	2.74e-11	lbs/hr	CC7%O2
6D 123678	229C1R2	ND	8.28e-3	ng/dscm	2.48e-11	lbs/hr	CC7%O2
6D 123678	229C1R3	ND	1.52e-2	ng/dscm	5.07e-11	lbs/hr	CC7%O2
6D 123678	229C1R4	ND	3.86e-2	ng/dscm	1.25e-10	lbs/hr	CC7%O2
6D 123678	229C2R1	ND	1.03e-2	ng/dscm	3.35e-11	lbs/hr	CC7%O2
6D 123678	229C2R2	ND	1.12e-2	ng/dscm	3.81e-11	lbs/hr	CC7%O2
6D 123678	229C2R4	ND	5.63e-3	ng/dscm	1.97e-11	lbs/hr	CC7%O2
6D 123789	229C1R2	ND	1.70e-2	ng/dscm	5.10e-11	lbs/hr	CC7%O2
6D 123789	229C1R3	ND	3.45e-2	ng/dscm	1.15e-10	lbs/hr	CC7%O2
6D 123789	229C1R4	ND	6.79e-2	ng/dscm	2.20e-10	lbs/hr	CC7%O2
6D 123789	229C2R1	ND	1.17e-2	ng/dscm	3.79e-11	lbs/hr	CC7%O2
6D 123789	229C2R2	ND	1.75e-2	ng/dscm	5.98e-11	lbs/hr	CC7%O2
6D 123789	229C2R4	ND	7.21e-3	ng/dscm	2.52e-11	lbs/hr	CC7%O2
6D Other	229C1R2	ND	5.34e-2	ng/dscm	1.60e-10	lbs/hr	CC7%O2
6D Other	229C1R3	ND	3.12e-2	ng/dscm	1.04e-10	lbs/hr	CC7%O2
6D Other	229C1R4	ND	3.39e-1	ng/dscm	1.10e-9	lbs/hr	CC7%O2
6D Other	229C2R1	ND	4.41e-2	ng/dscm	1.43e-10	lbs/hr	CC7%O2
6D Other	229C2R2	ND	1.14e-1	ng/dscm	3.89e-10	lbs/hr	CC7%O2
6D Other	229C2R4	ND	1.04e-2	ng/dscm	3.62e-11	lbs/hr	CC7%O2
6D Total	229C1R2	ND	8.91e-2	ng/dscm	2.67e-10	lbs/hr	OCE
6D Total	229C1R3	ND	1.39e-1	ng/dscm	4.64e-10	lbs/hr	OCE
6D Total	229C1R4	ND	5.06e-1	ng/dscm	1.64e-9	lbs/hr	OCE
6D Total	229C2R1	ND	7.64e-2	ng/dscm	2.48e-10	lbs/hr	OCE
6D Total	229C2R2	ND	1.59e-1	ng/dscm	5.42e-10	lbs/hr	OCE
6D Total	229C2R4	ND	3.10e-2	ng/dscm	1.09e-10	lbs/hr	OCE
6F 123478	229C1R2	3.67e+0	ng/dscm	7%O2	1.10e-8	lbs/hr	CC7%O2
6F 123478	229C1R3	3.24e+0	ng/dscm	7%O2	1.08e-8	lbs/hr	CC7%O2
6F 123478	229C1R4	3.61e+1	ng/dscm	7%O2	1.17e-7	lbs/hr	CC7%O2
6F 123478	229C2R1	1.01e+1	ng/dscm	7%O2	3.28e-8	lbs/hr	CC7%O2
6F 123478	229C2R2	3.64e+1	ng/dscm	7%O2	1.24e-7	lbs/hr	CC7%O2
6F 123478	229C2R4	3.60e+1	ng/dscm	7%O2	1.26e-7	lbs/hr	CC7%O2
6F 123678	229C1R2	1.76e+0	ng/dscm	7%O2	5.28e-9	lbs/hr	CC7%O2
6F 123678	229C1R3	1.22e+0	ng/dscm	7%O2	4.05e-9	lbs/hr	CC7%O2

US EPA ARCHIVE DOCUMENT

SECTION 7: EMISSIONS ANALYSES

1. COMPANY: VULCAN MATERIALS CO.  
 2. STATE: KS  
 3. CITY: WICHITA  
 4. EP ID: 229 DEVICE NAME:

EPA KSD007482029  
 SYSTEM TYPE: ONSITE INCINERATOR

REGION: 7  
 APC SYSTEM: WHB/ACS/HCS/CS

6F 123678	229C1R4	1.55e+1	ng/dscm 7%O2	5.03e-8	lbs/hr	CC7%O2
6F 123678	229C2R1	4.07e+0	ng/dscm 7%O2	1.32e-8	lbs/hr	CC7%O2
6F 123678	229C2R2	1.57e+1	ng/dscm 7%O2	5.35e-8	lbs/hr	CC7%O2
6F 123678	229C2R4	1.48e+1	ng/dscm 7%O2	5.17e-8	lbs/hr	CC7%O2
6F 123789	229C1R2	5.77e-2	ng/dscm 7%O2	1.73e-10	lbs/hr	CC7%O2
6F 123789	229C1R3	6.73e-2	ng/dscm 7%O2	2.24e-10	lbs/hr	CC7%O2
6F 123789	229C1R4	5.25e-1	ng/dscm 7%O2	1.70e-9	lbs/hr	CC7%O2
6F 123789	229C2R1	2.52e-1	ng/dscm 7%O2	8.19e-10	lbs/hr	CC7%O2
6F 123789	229C2R2	5.86e-1	ng/dscm 7%O2	2.00e-9	lbs/hr	CC7%O2
6F 123789	229C2R4	4.26e-1	ng/dscm 7%O2	1.49e-9	lbs/hr	CC7%O2
6F 234678	229C1R2	6.41e-1	ng/dscm 7%O2	1.92e-9	lbs/hr	CC7%O2
6F 234678	229C1R3	7.75e-1	ng/dscm 7%O2	2.58e-9	lbs/hr	CC7%O2
6F 234678	229C1R4	8.58e+0	ng/dscm 7%O2	2.78e-8	lbs/hr	CC7%O2
6F 234678	229C2R1	1.61e+0	ng/dscm 7%O2	5.21e-9	lbs/hr	CC7%O2
6F 234678	229C2R2	6.89e+0	ng/dscm 7%O2	2.35e-8	lbs/hr	CC7%O2
6F 234678	229C2R4	5.21e+0	ng/dscm 7%O2	1.82e-8	lbs/hr	CC7%O2
6F Other	229C1R2	7.81e+0	ng/dscm 7%O2	2.34e-8	lbs/hr	CC7%O2
6F Other	229C1R3	3.03e+0	ng/dscm 7%O2	1.01e-8	lbs/hr	CC7%O2
6F Other	229C1R4	2.83e+1	ng/dscm 7%O2	9.17e-8	lbs/hr	CC7%O2
6F Other	229C2R1	1.72e+1	ng/dscm 7%O2	5.57e-8	lbs/hr	CC7%O2
6F Other	229C2R2	4.08e+1	ng/dscm 7%O2	1.39e-7	lbs/hr	CC7%O2
6F Other	229C2R4	4.32e+1	ng/dscm 7%O2	1.51e-7	lbs/hr	CC7%O2
6F Total	229C1R2	1.39e+1	ng/dscm 7%O2	4.18e-8	lbs/hr	OCE
6F Total	229C1R3	8.34e+0	ng/dscm 7%O2	2.78e-8	lbs/hr	OCE
6F Total	229C1R4	8.90e+1	ng/dscm 7%O2	2.89e-7	lbs/hr	OCE
6F Total	229C2R1	3.32e+1	ng/dscm 7%O2	1.08e-7	lbs/hr	OCE
6F Total	229C2R2	1.00e+2	ng/dscm 7%O2	3.42e-7	lbs/hr	OCE
6F Total	229C2R4	9.96e+1	ng/dscm 7%O2	3.48e-7	lbs/hr	OCE
7D 1234678	229C1R2	1.01e-1	ng/dscm 7%O2	3.03e-10	lbs/hr	CC7%O2
7D 1234678	229C1R3	3.00e-1	ng/dscm 7%O2	9.99e-10	lbs/hr	CC7%O2
7D 1234678	229C1R4	5.25e-1	ng/dscm 7%O2	1.70e-9	lbs/hr	CC7%O2
7D 1234678	229C2R1	1.82e-1	ng/dscm 7%O2	5.92e-10	lbs/hr	CC7%O2
7D 1234678	229C2R2	1.28e-1	ng/dscm 7%O2	4.35e-10	lbs/hr	CC7%O2
7D 1234678	229C2R4	8.75e-2	ng/dscm 7%O2	3.06e-10	lbs/hr	CC7%O2
7D Other	229C1R2	3.70e-2	ng/dscm 7%O2	1.11e-10	lbs/hr	CC7%O2
7D Other	229C1R4	6.02e-1	ng/dscm 7%O2	1.95e-9	lbs/hr	CC7%O2
7D Other	229C2R1	1.43e-1	ng/dscm 7%O2	4.63e-10	lbs/hr	CC7%O2
7D Other	229C2R2	1.35e-1	ng/dscm 7%O2	4.62e-10	lbs/hr	CC7%O2
7D Other	229C2R4	8.52e-2	ng/dscm 7%O2	2.98e-10	lbs/hr	CC7%O2
7D Total	229C1R2	1.38e-1	ng/dscm 7%O2	4.14e-10	lbs/hr	OCE
7D Total	229C1R4	1.13e+0	ng/dscm 7%O2	3.65e-9	lbs/hr	OCE
7D Total	229C2R1	3.25e-1	ng/dscm 7%O2	1.05e-9	lbs/hr	OCE
7D Total	229C2R2	2.63e-1	ng/dscm 7%O2	8.97e-10	lbs/hr	OCE
7D Total	229C2R4	1.73e-1	ng/dscm 7%O2	6.04e-10	lbs/hr	OCE
7F 1234678	229C1R2	1.23e+1	ng/dscm 7%O2	3.68e-8	lbs/hr	CC7%O2
7F 1234678	229C1R3	1.08e+1	ng/dscm 7%O2	3.61e-8	lbs/hr	CC7%O2
7F 1234678	229C1R4	8.52e+1	ng/dscm 7%O2	2.76e-7	lbs/hr	CC7%O2
7F 1234678	229C2R1	2.22e+1	ng/dscm 7%O2	7.20e-8	lbs/hr	CC7%O2
7F 1234678	229C2R2	5.51e+1	ng/dscm 7%O2	1.88e-7	lbs/hr	CC7%O2
7F 1234678	229C2R4	7.46e+1	ng/dscm 7%O2	2.61e-7	lbs/hr	CC7%O2
7F 1234789	229C1R2	9.14e-1	ng/dscm 7%O2	2.74e-9	lbs/hr	CC7%O2
7F 1234789	229C1R3	8.08e-1	ng/dscm 7%O2	2.69e-9	lbs/hr	CC7%O2
7F 1234789	229C1R4	5.25e+0	ng/dscm 7%O2	1.70e-8	lbs/hr	CC7%O2
7F 1234789	229C2R1	1.86e+0	ng/dscm 7%O2	6.03e-9	lbs/hr	CC7%O2
7F 1234789	229C2R2	3.64e+0	ng/dscm 7%O2	1.24e-8	lbs/hr	CC7%O2
7F 1234789	229C2R4	4.92e+0	ng/dscm 7%O2	1.72e-8	lbs/hr	CC7%O2
7F Other	229C1R2	4.74e+0	ng/dscm 7%O2	1.42e-8	lbs/hr	CC7%O2
7F Other	229C1R3	4.20e+0	ng/dscm 7%O2	1.40e-8	lbs/hr	CC7%O2
7F Other	229C1R4	3.80e+1	ng/dscm 7%O2	1.23e-7	lbs/hr	CC7%O2
7F Other	229C2R1	1.00e+1	ng/dscm 7%O2	3.25e-8	lbs/hr	CC7%O2
7F Other	229C2R2	2.79e+1	ng/dscm 7%O2	9.53e-8	lbs/hr	CC7%O2

US EPA ARCHIVE DOCUMENT

SECTION 7: EMISSIONS ANALYSES

1. COMPANY: VULCAN MATERIALS CO.  
 2. STATE: KS  
 3. CITY: WICHITA  
 4. EP ID: 229 DEVICE NAME:

EPA ID: KSD007482029  
 SYSTEM TYPE: ONSITE INCINERATOR

REGION: 7  
 APC SYSTEM: WHB/ACS/HCS/CSS

7F Other	229C2R4	3.29e+1	ng/dscm 7%O2	1.15e-7	lbs/hr	CC7%O2
7F Total	229C1R2	1.79e+1	ng/dscm 7%O2	5.37e-8	lbs/hr	OCE
7F Total	229C1R3	1.59e+1	ng/dscm 7%O2	5.28e-8	lbs/hr	OCE
7F Total	229C1R4	1.28e+2	ng/dscm 7%O2	4.16e-7	lbs/hr	OCE
7F Total	229C2R1	3.41e+1	ng/dscm 7%O2	1.11e-7	lbs/hr	OCE
7F Total	229C2R2	8.67e+1	ng/dscm 7%O2	2.96e-7	lbs/hr	OCE
7F Total	229C2R4	1.12e+2	ng/dscm 7%O2	3.93e-7	lbs/hr	OCE
8D	229C1R2	5.44e-1	ng/dscm 7%O2	1.63e-9	lbs/hr	CC7%O2
8D	229C1R3	1.50e+0	ng/dscm 7%O2	4.98e-9	lbs/hr	CC7%O2
8D	229C1R4	2.01e+0	ng/dscm 7%O2	6.50e-9	lbs/hr	CC7%O2
8D	229C2R1	1.38e+0	ng/dscm 7%O2	4.47e-9	lbs/hr	CC7%O2
8D	229C2R2	5.92e-1	ng/dscm 7%O2	2.02e-9	lbs/hr	CC7%O2
8D	229C2R4	7.98e-1	ng/dscm 7%O2	2.79e-9	lbs/hr	CC7%O2
8F	229C1R2	2.54e+1	ng/dscm 7%O2	7.62e-8	lbs/hr	CC7%O2
8F	229C1R3	5.41e+1	ng/dscm 7%O2	1.80e-7	lbs/hr	CC7%O2
8F	229C1R4	6.02e+1	ng/dscm 7%O2	1.95e-7	lbs/hr	CC7%O2
8F	229C2R1	3.33e+1	ng/dscm 7%O2	1.08e-7	lbs/hr	CC7%O2
8F	229C2R2	2.22e+1	ng/dscm 7%O2	7.57e-8	lbs/hr	CC7%O2
8F	229C2R4	7.18e+1	ng/dscm 7%O2	2.51e-7	lbs/hr	CC7%O2
TEQ	229C1R2	1.31e+0	ng/dscm 7%O2	3.92e-9	lbs/hr	CCET
TEQ	229C1R3	1.05e+0	ng/dscm 7%O2	3.48e-9	lbs/hr	CCET
TEQ	229C1R4	1.12e+1	ng/dscm 7%O2	3.62e-8	lbs/hr	CCET
TEQ	229C2R1	3.14e+0	ng/dscm 7%O2	1.02e-8	lbs/hr	CCET
TEQ	229C2R2	1.12e+1	ng/dscm 7%O2	3.82e-8	lbs/hr	CCET
TEQ	229C2R4	9.74e+0	ng/dscm 7%O2	3.40e-8	lbs/hr	CCET
Total PCDD/PCDF	229C1R2	7.25e+1	ng/dscm 7%O2	2.17e-7	lbs/hr	CCET
Total PCDD/PCDF	229C1R3	1.13e+2	ng/dscm 7%O2	3.77e-7	lbs/hr	CCET
Total PCDD/PCDF	229C1R4	3.60e+2	ng/dscm 7%O2	1.17e-6	lbs/hr	CCET
Total PCDD/PCDF	229C2R1	1.47e+2	ng/dscm 7%O2	4.77e-7	lbs/hr	CCET
Total PCDD/PCDF	229C2R2	3.19e+2	ng/dscm 7%O2	1.09e-6	lbs/hr	CCET
Total PCDD/PCDF	229C2R4	3.71e+2	ng/dscm 7%O2	1.30e-6	lbs/hr	CCET

7. Category: Halogens

Analysis:

8. Substance	9. Run ID	Concentration		Mass Rate	Calc	
HCl	229C1R2	1.10e+2	ppmv 7%O2	4.99e-1	lbs/hr	CC7%O2
HCl	229C1R3	6.97e+1	ppmv 7%O2	3.51e-1	lbs/hr	CC7%O2
HCl	229C1R4	9.12e+1	ppmv 7%O2	4.47e-1	lbs/hr	CC7%O2
HCl	229C2R1	1.35e+2	ppmv 7%O2	6.64e-1	lbs/hr	CC7%O2
HCl	229C2R2	1.57e+2	ppmv 7%O2	8.08e-1	lbs/hr	CC7%O2
HCl	229C2R4	2.57e+2	ppmv 7%O2	1.36e+0	lbs/hr	CC7%O2
HCl	229C3R1	3.64e+0	ppmv 7%O2	1.41e-2	lbs/hr	CC7%O2
HCl	229C3R2	6.39e+0	ppmv 7%O2	2.84e-2	lbs/hr	CC7%O2
HCl	229C4R1	4.43e+1	ppmv 7%O2	1.90e-1	lbs/hr	CC7%O2
HCl	229C4R2	2.25e+2	ppmv 7%O2	9.81e-1	lbs/hr	CC7%O2
HCl	229C5R1	9.59e+1	ppmv 7%O2	5.21e-1	lbs/hr	CC7%O2
HCl	229C5R2	7.58e+1	ppmv 7%O2	3.80e-1	lbs/hr	CC7%O2
HCl	229C6R1	5.13e+1	ppmv 7%O2	2.88e-1	lbs/hr	CC7%O2
HCl	229C6R2	4.86e+1	ppmv 7%O2	2.47e-1	lbs/hr	CC7%O2

7. Category: Metals

Analysis:

8. Substance	9. Run ID	Concentration		Mass Rate	Calc	
Arsenic	229C1R2	ND	3.77e-1 ug/dscm 7%O2	1.13e-6	lbs/hr	CC7%O2
Arsenic	229C1R3	ND	3.42e-1 ug/dscm 7%O2	1.14e-6	lbs/hr	CC7%O2
Arsenic	229C1R4	ND	3.61e-1 ug/dscm 7%O2	1.17e-6	lbs/hr	CC7%O2
Arsenic	229C2R1	ND	3.61e-1 ug/dscm 7%O2	1.17e-6	lbs/hr	CC7%O2
Arsenic	229C2R2	ND	4.57e-1 ug/dscm 7%O2	1.56e-6	lbs/hr	CC7%O2
Arsenic	229C2R4	ND	4.43e-1 ug/dscm 7%O2	1.55e-6	lbs/hr	CC7%O2
Arsenic	229C3R1	ND	3.90e-1 ug/dscm 7%O2	1.00e-6	lbs/hr	CC7%O2
Arsenic	229C3R2	ND	3.54e-1 ug/dscm 7%O2	1.04e-6	lbs/hr	CC7%O2

SECTION 7: EMISSIONS ANALYSES

1. COMPANY: VULCAN MATERIALS CO.  
 2. STATE: KS  
 3. CITY: WICHITA  
 4. EP ID: 229 DEVICE NAME:

EPA ID: KSD007482029  
 SYSTEM TYPE: ONSITE INCINERATOR

REGION: 7  
 APC SYSTEM: WHB/ACS/HCS/CS

Arsenic	229C5R1	ND	5.79e-1	ug/dscm	7%O2	2.08e-6	lbs/hr	CC7%O2
Arsenic	229C5R2	ND	6.43e-1	ug/dscm	7%O2	2.13e-6	lbs/hr	CC7%O2
Arsenic	229C6R1	ND	6.25e-1	ug/dscm	7%O2	2.32e-6	lbs/hr	CC7%O2
Arsenic	229C6R2	ND	6.96e-1	ug/dscm	7%O2	2.34e-6	lbs/hr	CC7%O2
Cadmium	229C1R2	ND	3.77e+0	ug/dscm	7%O2	1.13e-5	lbs/hr	CC7%O2
Cadmium	229C1R3	ND	3.42e+0	ug/dscm	7%O2	1.14e-5	lbs/hr	CC7%O2
Cadmium	229C1R4	ND	3.61e+0	ug/dscm	7%O2	1.17e-5	lbs/hr	CC7%O2
Cadmium	229C2R1	ND	3.61e+0	ug/dscm	7%O2	1.17e-5	lbs/hr	CC7%O2
Cadmium	229C2R2	ND	4.57e+0	ug/dscm	7%O2	1.56e-5	lbs/hr	CC7%O2
Cadmium	229C2R4	ND	4.43e+0	ug/dscm	7%O2	1.55e-5	lbs/hr	CC7%O2
Cadmium	229C3R1	ND	3.90e+0	ug/dscm	7%O2	1.00e-5	lbs/hr	CC7%O2
Cadmium	229C3R2	ND	3.54e+0	ug/dscm	7%O2	1.04e-5	lbs/hr	CC7%O2
Cadmium	229C5R1	ND	5.79e+0	ug/dscm	7%O2	2.08e-5	lbs/hr	CC7%O2
Cadmium	229C5R2	ND	6.43e+0	ug/dscm	7%O2	2.13e-5	lbs/hr	CC7%O2
Cadmium	229C6R1	ND	6.25e+0	ug/dscm	7%O2	2.32e-5	lbs/hr	CC7%O2
Cadmium	229C6R2	ND	7.02e+0	ug/dscm	7%O2	2.36e-5	lbs/hr	CC7%O2
Chromium	229C1R2		4.30e+1	ug/dscm	7%O2	1.29e-4	lbs/hr	CC7%O2
Chromium	229C1R3		3.27e+1	ug/dscm	7%O2	1.09e-4	lbs/hr	CC7%O2
Chromium	229C1R4		3.24e+1	ug/dscm	7%O2	1.05e-4	lbs/hr	CC7%O2
Chromium	229C2R1		4.56e+1	ug/dscm	7%O2	1.48e-4	lbs/hr	CC7%O2
Chromium	229C2R2		7.24e+1	ug/dscm	7%O2	2.47e-4	lbs/hr	CC7%O2
Chromium	229C2R4		4.52e+1	ug/dscm	7%O2	1.58e-4	lbs/hr	CC7%O2
Chromium	229C3R1		6.59e+1	ug/dscm	7%O2	1.69e-4	lbs/hr	CC7%O2
Chromium	229C3R2		5.89e+1	ug/dscm	7%O2	1.73e-4	lbs/hr	CC7%O2
Chromium	229C5R1		6.85e+1	ug/dscm	7%O2	2.46e-4	lbs/hr	CC7%O2
Chromium	229C5R2		7.24e+1	ug/dscm	7%O2	2.40e-4	lbs/hr	CC7%O2
Chromium	229C6R1		4.50e+1	ug/dscm	7%O2	1.67e-4	lbs/hr	CC7%O2
Chromium	229C6R2		7.29e+1	ug/dscm	7%O2	2.45e-4	lbs/hr	CC7%O2

7. Category: Particulate

Analysis:

8. Substance	9. Run ID	Concentration	Mass Rate	Calc
Particulate	229C1R2	1.17e-2 gr/dscf 7%O2	8.04e-2 lbs/hr	CE
Particulate	229C1R3	1.03e-2 gr/dscf 7%O2	7.86e-2 lbs/hr	CE
Particulate	229C1R4	9.17e-3 gr/dscf 7%O2	6.81e-2 lbs/hr	CE
Particulate	229C2R1	1.21e-2 gr/dscf 7%O2	9.00e-2 lbs/hr	CE
Particulate	229C2R2	1.23e-2 gr/dscf 7%O2	9.62e-2 lbs/hr	CE
Particulate	229C2R4	1.26e-2 gr/dscf 7%O2	1.01e-1 lbs/hr	CE
Particulate	229C3R1	2.00e-2 gr/dscf 7%O2	1.18e-1 lbs/hr	CE
Particulate	229C3R2	1.49e-2 gr/dscf 7%O2	1.00e-1 lbs/hr	CE
Particulate	229C4R1	1.93e-2 gr/dscf 7%O2	1.26e-1 lbs/hr	CE
Particulate	229C4R2	1.57e-2 gr/dscf 7%O2	1.04e-1 lbs/hr	CE
Particulate	229C5R1	3.50e-2 gr/dscf 7%O2	2.88e-1 lbs/hr	CE
Particulate	229C5R2	2.75e-2 gr/dscf 7%O2	2.09e-1 lbs/hr	CE
Particulate	229C6R1	2.58e-2 gr/dscf 7%O2	2.19e-1 lbs/hr	CE
Particulate	229C6R2	2.52e-2 gr/dscf 7%O2	1.94e-1 lbs/hr	CE

7. Category: PCB

Analysis:

8. Substance	9. Run ID	Concentration	Mass Rate	Calc
PCBs	229C5R1	1.09e+4 ng/dscm 7%O2	3.92e-5 lbs/hr	CC7%O2
PCBs	229C5R2	5.91e+3 ng/dscm 7%O2	1.96e-5 lbs/hr	CC7%O2
PCBs	229C6R1	2.47e+3 ng/dscm 7%O2	9.18e-6 lbs/hr	CC7%O2
PCBs	229C6R2	6.16e+3 ng/dscm 7%O2	2.07e-5 lbs/hr	CC7%O2

7. Category: SVOC

Analysis:

8. Substance	9. Run ID	Concentration	Mass Rate	Calc
1,2,4-Trichlorobenzene	229C1R2	ND 4.61e+2 ng/dscm 7%O2	1.38e-6 lbs/hr	CC7%O2
1,2,4-Trichlorobenzene	229C1R3	ND 3.54e+2 ng/dscm 7%O2	1.18e-6 lbs/hr	CC7%O2



SECTION 7: EMISSIONS ANALYSES

1. COMPANY: VULCAN MATERIALS CO.  
 2. STATE: KS  
 3. CITY: WICHITA  
 4. EP ID: 229 DEVICE NAME:

EPA ID: KSD007482029  
 SYSTEM TYPE: ONSITE INCINERATOR

REGION: 7  
 APC SYSTEM: WHB/ACS/HCS/CS

1,2,4-Trichlorobenzene	229C1R4	ND	3.61e+2	ng/dscm	7%O2	1.17e-6	lbs/hr	CC7%O2
1,2,4-Trichlorobenzene	229C2R1	ND	5.30e+2	ng/dscm	7%O2	1.72e-6	lbs/hr	CC7%O2
1,2,4-Trichlorobenzene	229C2R2	ND	4.72e+2	ng/dscm	7%O2	1.61e-6	lbs/hr	CC7%O2
1,2,4-Trichlorobenzene	229C2R4	ND	4.80e+2	ng/dscm	7%O2	1.68e-6	lbs/hr	CC7%O2
1,2-Dichlorobenzene	229C1R2	ND	4.14e+2	ng/dscm	7%O2	1.24e-6	lbs/hr	CC7%O2
1,2-Dichlorobenzene	229C1R3	ND	3.09e+2	ng/dscm	7%O2	1.03e-6	lbs/hr	CC7%O2
1,2-Dichlorobenzene	229C1R4	ND	2.83e+2	ng/dscm	7%O2	9.16e-7	lbs/hr	CC7%O2
1,2-Dichlorobenzene	229C2R1	ND	4.38e+2	ng/dscm	7%O2	1.42e-6	lbs/hr	CC7%O2
1,2-Dichlorobenzene	229C2R2	ND	3.69e+2	ng/dscm	7%O2	1.26e-6	lbs/hr	CC7%O2
1,2-Dichlorobenzene	229C2R4	ND	3.55e+2	ng/dscm	7%O2	1.24e-6	lbs/hr	CC7%O2
1,3-Dichlorobenzene	229C1R2	ND	4.07e+2	ng/dscm	7%O2	1.22e-6	lbs/hr	CC7%O2
1,3-Dichlorobenzene	229C1R3	ND	3.03e+2	ng/dscm	7%O2	1.01e-6	lbs/hr	CC7%O2
1,3-Dichlorobenzene	229C1R4	ND	2.78e+2	ng/dscm	7%O2	9.02e-7	lbs/hr	CC7%O2
1,3-Dichlorobenzene	229C2R1	ND	4.35e+2	ng/dscm	7%O2	1.41e-6	lbs/hr	CC7%O2
1,3-Dichlorobenzene	229C2R2	ND	3.66e+2	ng/dscm	7%O2	1.25e-6	lbs/hr	CC7%O2
1,3-Dichlorobenzene	229C2R4	ND	3.49e+2	ng/dscm	7%O2	1.22e-6	lbs/hr	CC7%O2
1,4-Dichlorobenzene	229C1R2	ND	3.84e+2	ng/dscm	7%O2	1.15e-6	lbs/hr	CC7%O2
1,4-Dichlorobenzene	229C1R3	ND	2.87e+2	ng/dscm	7%O2	9.57e-7	lbs/hr	CC7%O2
1,4-Dichlorobenzene	229C1R4	ND	2.63e+2	ng/dscm	7%O2	8.52e-7	lbs/hr	CC7%O2
1,4-Dichlorobenzene	229C2R1	ND	4.10e+2	ng/dscm	7%O2	1.33e-6	lbs/hr	CC7%O2
1,4-Dichlorobenzene	229C2R2	ND	3.49e+2	ng/dscm	7%O2	1.19e-6	lbs/hr	CC7%O2
1,4-Dichlorobenzene	229C2R4	ND	3.29e+2	ng/dscm	7%O2	1.15e-6	lbs/hr	CC7%O2
2,4,5-Trichlorophenol	229C1R2	ND	6.27e+2	ng/dscm	7%O2	1.88e-6	lbs/hr	CC7%O2
2,4,5-Trichlorophenol	229C1R3	ND	4.33e+2	ng/dscm	7%O2	1.44e-6	lbs/hr	CC7%O2
2,4,5-Trichlorophenol	229C1R4	ND	4.07e+2	ng/dscm	7%O2	1.32e-6	lbs/hr	CC7%O2
2,4,5-Trichlorophenol	229C2R1	ND	7.06e+2	ng/dscm	7%O2	2.29e-6	lbs/hr	CC7%O2
2,4,5-Trichlorophenol	229C2R2	ND	5.54e+2	ng/dscm	7%O2	1.89e-6	lbs/hr	CC7%O2
2,4,5-Trichlorophenol	229C2R4	ND	5.52e+2	ng/dscm	7%O2	1.93e-6	lbs/hr	CC7%O2
2,4,6-Trichlorophenol	229C1R2	ND	7.44e+2	ng/dscm	7%O2	2.23e-6	lbs/hr	CC7%O2
2,4,6-Trichlorophenol	229C1R3	ND	5.11e+2	ng/dscm	7%O2	1.70e-6	lbs/hr	CC7%O2
2,4,6-Trichlorophenol	229C1R4	ND	4.85e+2	ng/dscm	7%O2	1.57e-6	lbs/hr	CC7%O2
2,4,6-Trichlorophenol	229C2R1	ND	8.32e+2	ng/dscm	7%O2	2.70e-6	lbs/hr	CC7%O2
2,4,6-Trichlorophenol	229C2R2	ND	6.57e+2	ng/dscm	7%O2	2.24e-6	lbs/hr	CC7%O2
2,4,6-Trichlorophenol	229C2R4	ND	6.55e+2	ng/dscm	7%O2	2.29e-6	lbs/hr	CC7%O2
2,4-Dichlorophenol	229C1R2	ND	4.91e+2	ng/dscm	7%O2	1.47e-6	lbs/hr	CC7%O2
2,4-Dichlorophenol	229C1R3	ND	3.78e+2	ng/dscm	7%O2	1.26e-6	lbs/hr	CC7%O2
2,4-Dichlorophenol	229C1R4	ND	3.86e+2	ng/dscm	7%O2	1.25e-6	lbs/hr	CC7%O2
2,4-Dichlorophenol	229C2R1	ND	5.67e+2	ng/dscm	7%O2	1.84e-6	lbs/hr	CC7%O2
2,4-Dichlorophenol	229C2R2	ND	5.04e+2	ng/dscm	7%O2	1.72e-6	lbs/hr	CC7%O2
2,4-Dichlorophenol	229C2R4	ND	5.15e+2	ng/dscm	7%O2	1.80e-6	lbs/hr	CC7%O2
2-Chloronaphthalene	229C1R2		7.48e+3	ng/dscm	7%O2	2.24e-5	lbs/hr	CC7%O2
2-Chloronaphthalene	229C1R3		1.18e+4	ng/dscm	7%O2	3.92e-5	lbs/hr	CC7%O2
2-Chloronaphthalene	229C1R4		7.87e+3	ng/dscm	7%O2	2.55e-5	lbs/hr	CC7%O2
2-Chloronaphthalene	229C2R1		2.89e+4	ng/dscm	7%O2	9.37e-5	lbs/hr	CC7%O2
2-Chloronaphthalene	229C2R2		1.70e+4	ng/dscm	7%O2	5.80e-5	lbs/hr	CC7%O2
2-Chloronaphthalene	229C2R4		2.29e+4	ng/dscm	7%O2	8.02e-5	lbs/hr	CC7%O2
2-Chlorophenol	229C1R2	ND	3.97e+2	ng/dscm	7%O2	1.19e-6	lbs/hr	CC7%O2
2-Chlorophenol	229C1R3	ND	2.98e+2	ng/dscm	7%O2	9.93e-7	lbs/hr	CC7%O2
2-Chlorophenol	229C1R4	ND	2.72e+2	ng/dscm	7%O2	8.81e-7	lbs/hr	CC7%O2
2-Chlorophenol	229C2R1	ND	4.22e+2	ng/dscm	7%O2	1.37e-6	lbs/hr	CC7%O2
2-Chlorophenol	229C2R2	ND	3.58e+2	ng/dscm	7%O2	1.22e-6	lbs/hr	CC7%O2
2-Chlorophenol	229C2R4	ND	3.40e+2	ng/dscm	7%O2	1.19e-6	lbs/hr	CC7%O2
3,3-Dichlorobenzidine	229C1R2	ND	2.67e+2	ng/dscm	7%O2	8.01e-7	lbs/hr	CC7%O2
3,3-Dichlorobenzidine	229C1R3	ND	2.12e+2	ng/dscm	7%O2	7.07e-7	lbs/hr	CC7%O2
3,3-Dichlorobenzidine	229C1R4	ND	2.03e+2	ng/dscm	7%O2	6.59e-7	lbs/hr	CC7%O2
3,3-Dichlorobenzidine	229C2R1	ND	3.27e+2	ng/dscm	7%O2	1.06e-6	lbs/hr	CC7%O2
3,3-Dichlorobenzidine	229C2R2	ND	2.81e+2	ng/dscm	7%O2	9.57e-7	lbs/hr	CC7%O2
3,3-Dichlorobenzidine	229C2R4	ND	2.63e+2	ng/dscm	7%O2	9.20e-7	lbs/hr	CC7%O2
4-Chloro-3-methylphenol	229C1R2	ND	3.70e+2	ng/dscm	7%O2	1.11e-6	lbs/hr	CC7%O2
4-Chloro-3-methylphenol	229C1R3	ND	2.83e+2	ng/dscm	7%O2	9.43e-7	lbs/hr	CC7%O2
4-Chloro-3-methylphenol	229C1R4	ND	2.89e+2	ng/dscm	7%O2	9.38e-7	lbs/hr	CC7%O2

US EPA ARCHIVE DOCUMENT



SECTION 7: EMISSIONS ANALYSES

1. COMPANY: VULCAN MATERIALS CO.  
 2. STATE: KS  
 3. CITY: WICHITA  
 4. EP ID: 229 DEVICE NAME:

EPA ID: KSD007482029  
 SYSTEM TYPE: ONSITE INCINERATOR

REGION: 7  
 APC SYSTEM: WHB/ACS/HCS/CS

4-Chloro-3-methylphenol	229C2R1	ND	4.25e+2	ng/dscm	7%O2	1.38e-6	lbs/hr	CC7%O2
4-Chloro-3-methylphenol	229C2R2	ND	3.78e+2	ng/dscm	7%O2	1.29e-6	lbs/hr	CC7%O2
4-Chloro-3-methylphenol	229C2R4	ND	3.86e+1	ng/dscm	7%O2	1.35e-7	lbs/hr	CC7%O2
4-Chloroaniline	229C1R2	ND	2.60e+2	ng/dscm	7%O2	7.79e-7	lbs/hr	CC7%O2
4-Chloroaniline	229C1R3	ND	2.00e+2	ng/dscm	7%O2	6.65e-7	lbs/hr	CC7%O2
4-Chloroaniline	229C1R4	ND	2.03e+2	ng/dscm	7%O2	6.59e-7	lbs/hr	CC7%O2
4-Chloroaniline	229C2R1	ND	2.99e+2	ng/dscm	7%O2	9.70e-7	lbs/hr	CC7%O2
4-Chloroaniline	229C2R2	ND	2.65e+2	ng/dscm	7%O2	9.03e-7	lbs/hr	CC7%O2
4-Chloroaniline	229C2R4	ND	2.69e+2	ng/dscm	7%O2	9.42e-7	lbs/hr	CC7%O2
4-Chlorophenyl-phenylether	229C1R2	ND	4.24e+2	ng/dscm	7%O2	1.27e-6	lbs/hr	CC7%O2
4-Chlorophenyl-phenylether	229C1R3	ND	2.90e+2	ng/dscm	7%O2	9.65e-7	lbs/hr	CC7%O2
4-Chlorophenyl-phenylether	229C1R4	ND	2.74e+2	ng/dscm	7%O2	8.88e-7	lbs/hr	CC7%O2
4-Chlorophenyl-phenylether	229C2R1	ND	4.75e+2	ng/dscm	7%O2	1.54e-6	lbs/hr	CC7%O2
4-Chlorophenyl-phenylether	229C2R2	ND	3.72e+2	ng/dscm	7%O2	1.27e-6	lbs/hr	CC7%O2
4-Chlorophenyl-phenylether	229C2R4	ND	3.72e+2	ng/dscm	7%O2	1.30e-6	lbs/hr	CC7%O2
bis(2-chloroethoxy) Methane	229C1R2	ND	2.29e+2	ng/dscm	7%O2	6.85e-7	lbs/hr	CC7%O2
bis(2-chloroethoxy) Methane	229C1R3	ND	1.76e+2	ng/dscm	7%O2	5.86e-7	lbs/hr	CC7%O2
bis(2-chloroethoxy) Methane	229C1R4	ND	1.79e+2	ng/dscm	7%O2	5.80e-7	lbs/hr	CC7%O2
bis(2-chloroethoxy) Methane	229C2R1	ND	2.61e+2	ng/dscm	7%O2	8.48e-7	lbs/hr	CC7%O2
bis(2-chloroethoxy) Methane	229C2R2	ND	2.33e+2	ng/dscm	7%O2	7.94e-7	lbs/hr	CC7%O2
bis(2-chloroethoxy) Methane	229C2R4	ND	2.38e+2	ng/dscm	7%O2	8.33e-7	lbs/hr	CC7%O2
bis(2-chloroethyl) Ether	229C1R2	ND	2.46e+2	ng/dscm	7%O2	7.36e-7	lbs/hr	CC7%O2
bis(2-chloroethyl) Ether	229C1R3	ND	1.84e+2	ng/dscm	7%O2	6.14e-7	lbs/hr	CC7%O2
bis(2-chloroethyl) Ether	229C1R4	ND	1.68e+2	ng/dscm	7%O2	5.44e-7	lbs/hr	CC7%O2
bis(2-chloroethyl) Ether	229C2R1	ND	2.61e+2	ng/dscm	7%O2	8.48e-7	lbs/hr	CC7%O2
bis(2-chloroethyl) Ether	229C2R2	ND	2.20e+2	ng/dscm	7%O2	7.50e-7	lbs/hr	CC7%O2
bis(2-chloroethyl) Ether	229C2R4	ND	2.10e+2	ng/dscm	7%O2	7.34e-7	lbs/hr	CC7%O2
bis(2-chloroisopropyl) Ether	229C1R2	ND	2.19e+2	ng/dscm	7%O2	6.56e-7	lbs/hr	CC7%O2
bis(2-chloroisopropyl) Ether	229C1R3	ND	1.63e+2	ng/dscm	7%O2	5.43e-7	lbs/hr	CC7%O2
bis(2-chloroisopropyl) Ether	229C1R4	ND	1.50e+2	ng/dscm	7%O2	4.87e-7	lbs/hr	CC7%O2
bis(2-chloroisopropyl) Ether	229C2R1	ND	2.30e+2	ng/dscm	7%O2	7.47e-7	lbs/hr	CC7%O2
bis(2-chloroisopropyl) Ether	229C2R2	ND	1.98e+2	ng/dscm	7%O2	6.74e-7	lbs/hr	CC7%O2
bis(2-chloroisopropyl) Ether	229C2R4	ND	1.88e+2	ng/dscm	7%O2	6.57e-7	lbs/hr	CC7%O2
Hexachlorobenzene	229C1R2		1.88e+6	ng/dscm	7%O2	5.63e-3	lbs/hr	CC7%O2
Hexachlorobenzene	229C1R3		1.45e+6	ng/dscm	7%O2	4.84e-3	lbs/hr	CC7%O2
Hexachlorobenzene	229C1R4		1.56e+6	ng/dscm	7%O2	5.06e-3	lbs/hr	CC7%O2
Hexachlorobenzene	229C2R1		3.33e+6	ng/dscm	7%O2	1.08e-2	lbs/hr	CC7%O2
Hexachlorobenzene	229C2R2		1.86e+6	ng/dscm	7%O2	6.36e-3	lbs/hr	CC7%O2
Hexachlorobenzene	229C2R4		2.11e+6	ng/dscm	7%O2	7.36e-3	lbs/hr	CC7%O2
Hexachlorobenzene	229C3R1		2.58e+6	ng/dscm	7%O2	6.62e-3	lbs/hr	CC7%O2
Hexachlorobenzene	229C3R2		1.45e+6	ng/dscm	7%O2	4.26e-3	lbs/hr	CC7%O2
Hexachlorobenzene	229C5R1		2.04e+6	ng/dscm	7%O2	7.34e-3	lbs/hr	CC7%O2
Hexachlorobenzene	229C5R2		2.24e+6	ng/dscm	7%O2	7.43e-3	lbs/hr	CC7%O2
Hexachlorobenzene	229C6R1		1.51e+6	ng/dscm	7%O2	5.59e-3	lbs/hr	CC7%O2
Hexachlorobenzene	229C6R2		2.39e+6	ng/dscm	7%O2	8.04e-3	lbs/hr	CC7%O2
Hexachlorobutadiene	229C1R2		8.31e+4	ng/dscm	7%O2	2.49e-4	lbs/hr	CC7%O2
Hexachlorobutadiene	229C1R3		1.50e+5	ng/dscm	7%O2	5.00e-4	lbs/hr	CC7%O2
Hexachlorobutadiene	229C1R4		1.59e+5	ng/dscm	7%O2	5.14e-4	lbs/hr	CC7%O2
Hexachlorobutadiene	229C2R1		6.44e+5	ng/dscm	7%O2	2.09e-3	lbs/hr	CC7%O2
Hexachlorobutadiene	229C2R2		4.60e+5	ng/dscm	7%O2	1.57e-3	lbs/hr	CC7%O2
Hexachlorobutadiene	229C2R4		4.12e+5	ng/dscm	7%O2	1.44e-3	lbs/hr	CC7%O2
Hexachlorocyclopentadiene	229C1R2		8.61e+4	ng/dscm	7%O2	2.58e-4	lbs/hr	CC7%O2
Hexachlorocyclopentadiene	229C1R3		1.15e+5	ng/dscm	7%O2	3.83e-4	lbs/hr	CC7%O2
Hexachlorocyclopentadiene	229C1R4		1.06e+5	ng/dscm	7%O2	3.44e-4	lbs/hr	CC7%O2
Hexachlorocyclopentadiene	229C2R1		3.30e+5	ng/dscm	7%O2	1.07e-3	lbs/hr	CC7%O2
Hexachlorocyclopentadiene	229C2R2		2.16e+5	ng/dscm	7%O2	7.38e-4	lbs/hr	CC7%O2
Hexachlorocyclopentadiene	229C2R4		1.94e+5	ng/dscm	7%O2	6.79e-4	lbs/hr	CC7%O2
Hexachloroethane	229C1R2		2.07e+4	ng/dscm	7%O2	6.21e-5	lbs/hr	CC7%O2
Hexachloroethane	229C1R3	ND	6.22e+2	ng/dscm	7%O2	2.07e-6	lbs/hr	CC7%O2
Hexachloroethane	229C1R4	ND	5.71e+2	ng/dscm	7%O2	1.85e-6	lbs/hr	CC7%O2
Hexachloroethane	229C2R1		2.31e+5	ng/dscm	7%O2	7.50e-4	lbs/hr	CC7%O2
Hexachloroethane	229C2R2		1.20e+5	ng/dscm	7%O2	4.09e-4	lbs/hr	CC7%O2

US EPA ARCHIVE DOCUMENT

SECTION 7: EMISSIONS ANALYSES

1. COMPANY: VULCAN MATERIALS CO.  
 2. STATE: KS  
 3. CITY: WICHITA  
 4. EP ID: 229 DEVICE NAME:

EPA KSD007482029  
 SYSTEM TYPE: ONSITE INCINERATOR

REGION: 7  
 APC SYSTEM: WHB/ACS/HCS/CS

Hexachloroethane	229C2R4	9.92e+4	ng/dscm	7%O2	3.47e-4	lbs/hr	CC7%O2	
Pentachlorophenol	229C1R2	ND	7.61e+2	ng/dscm	7%O2	2.28e-6	lbs/hr	CC7%O2
Pentachlorophenol	229C1R3	ND	5.74e+2	ng/dscm	7%O2	1.91e-6	lbs/hr	CC7%O2
Pentachlorophenol	229C1R4	ND	5.43e+2	ng/dscm	7%O2	1.76e-6	lbs/hr	CC7%O2
Pentachlorophenol	229C2R1	ND	8.54e+2	ng/dscm	7%O2	2.77e-6	lbs/hr	CC7%O2
Pentachlorophenol	229C2R2	ND	7.42e+2	ng/dscm	7%O2	2.53e-6	lbs/hr	CC7%O2
Pentachlorophenol	229C2R4	ND	7.32e+2	ng/dscm	7%O2	2.56e-6	lbs/hr	CC7%O2

7. Category: VOC

Analysis:

8. Substance	9. Run ID	Concentration	Mass Rate	Calc
1,1,1-Trichloroethane	229C1R2	ND 6.84e+3 ng/dscm 7%O2	2.05e-5 lbs/hr	CC7%O2
1,1,1-Trichloroethane	229C1R3	ND 5.05e+4 ng/dscm 7%O2	1.68e-4 lbs/hr	CC7%O2
1,1,1-Trichloroethane	229C1R4	ND 1.12e+3 ng/dscm 7%O2	3.64e-6 lbs/hr	CC7%O2
1,1,1-Trichloroethane	229C2R1	ND 1.96e+3 ng/dscm 7%O2	6.35e-6 lbs/hr	CC7%O2
1,1,1-Trichloroethane	229C2R2	ND 5.13e+3 ng/dscm 7%O2	1.75e-5 lbs/hr	CC7%O2
1,1,1-Trichloroethane	229C2R4	ND 4.63e+2 ng/dscm 7%O2	1.62e-6 lbs/hr	CC7%O2
1,1,2,2-Tetrachloroethane	229C1R2	ND 7.78e+2 ng/dscm 7%O2	2.33e-6 lbs/hr	CC7%O2
1,1,2,2-Tetrachloroethane	229C1R3	ND 7.99e+2 ng/dscm 7%O2	2.66e-6 lbs/hr	CC7%O2
1,1,2,2-Tetrachloroethane	229C1R4	ND 7.07e+2 ng/dscm 7%O2	2.29e-6 lbs/hr	CC7%O2
1,1,2,2-Tetrachloroethane	229C2R1	ND 7.61e+2 ng/dscm 7%O2	2.47e-6 lbs/hr	CC7%O2
1,1,2,2-Tetrachloroethane	229C2R2	ND 5.89e+2 ng/dscm 7%O2	2.01e-6 lbs/hr	CC7%O2
1,1,2,2-Tetrachloroethane	229C2R4	ND 6.58e+2 ng/dscm 7%O2	2.30e-6 lbs/hr	CC7%O2
1,1,2-Trichloroethane	229C1R2	ND 5.34e+2 ng/dscm 7%O2	1.60e-6 lbs/hr	CC7%O2
1,1,2-Trichloroethane	229C1R3	ND 5.11e+2 ng/dscm 7%O2	1.70e-6 lbs/hr	CC7%O2
1,1,2-Trichloroethane	229C1R4	ND 5.25e+2 ng/dscm 7%O2	1.70e-6 lbs/hr	CC7%O2
1,1,2-Trichloroethane	229C2R1	ND 5.86e+2 ng/dscm 7%O2	1.90e-6 lbs/hr	CC7%O2
1,1,2-Trichloroethane	229C2R2	ND 5.28e+2 ng/dscm 7%O2	1.80e-6 lbs/hr	CC7%O2
1,1,2-Trichloroethane	229C2R4	ND 4.86e+2 ng/dscm 7%O2	1.70e-6 lbs/hr	CC7%O2
1,1-Dichloroethane	229C1R2	ND 6.34e+2 ng/dscm 7%O2	1.90e-6 lbs/hr	CC7%O2
1,1-Dichloroethane	229C1R3	ND 7.81e+2 ng/dscm 7%O2	2.60e-6 lbs/hr	CC7%O2
1,1-Dichloroethane	229C1R4	ND 1.39e+3 ng/dscm 7%O2	4.50e-6 lbs/hr	CC7%O2
1,1-Dichloroethane	229C2R1	ND 1.17e+3 ng/dscm 7%O2	3.80e-6 lbs/hr	CC7%O2
1,1-Dichloroethane	229C2R2	ND 1.47e+2 ng/dscm 7%O2	5.00e-7 lbs/hr	CC7%O2
1,1-Dichloroethane	229C2R4	ND 5.43e+2 ng/dscm 7%O2	1.90e-6 lbs/hr	CC7%O2
1,1-Dichloroethene	229C1R2	ND 4.74e+2 ng/dscm 7%O2	1.42e-6 lbs/hr	CC7%O2
1,1-Dichloroethene	229C1R3	ND 4.63e+2 ng/dscm 7%O2	1.54e-6 lbs/hr	CC7%O2
1,1-Dichloroethene	229C1R4	ND 3.49e+3 ng/dscm 7%O2	1.13e-5 lbs/hr	CC7%O2
1,1-Dichloroethene	229C2R1	ND 2.15e+3 ng/dscm 7%O2	6.98e-6 lbs/hr	CC7%O2
1,1-Dichloroethene	229C2R2	ND 1.10e+3 ng/dscm 7%O2	3.75e-6 lbs/hr	CC7%O2
1,1-Dichloroethene	229C2R4	ND 7.75e+2 ng/dscm 7%O2	2.71e-6 lbs/hr	CC7%O2
1,2-Dichloroethane	229C1R2	ND 3.47e+3 ng/dscm 7%O2	1.04e-5 lbs/hr	CC7%O2
1,2-Dichloroethane	229C1R3	ND 3.75e+3 ng/dscm 7%O2	1.25e-5 lbs/hr	CC7%O2
1,2-Dichloroethane	229C1R4	ND 2.35e+3 ng/dscm 7%O2	7.60e-6 lbs/hr	CC7%O2
1,2-Dichloroethane	229C2R1	ND 7.40e+2 ng/dscm 7%O2	2.40e-6 lbs/hr	CC7%O2
1,2-Dichloroethane	229C2R2	ND 9.38e+2 ng/dscm 7%O2	3.20e-6 lbs/hr	CC7%O2
1,2-Dichloroethane	229C2R4	ND 4.86e+2 ng/dscm 7%O2	1.70e-6 lbs/hr	CC7%O2
1,2-Dichloropropane	229C1R2	ND 4.34e+2 ng/dscm 7%O2	1.30e-6 lbs/hr	CC7%O2
1,2-Dichloropropane	229C1R3	ND 1.32e+3 ng/dscm 7%O2	4.40e-6 lbs/hr	CC7%O2
1,2-Dichloropropane	229C1R4	ND 7.10e+2 ng/dscm 7%O2	2.30e-6 lbs/hr	CC7%O2
1,2-Dichloropropane	229C2R1	ND 4.62e+2 ng/dscm 7%O2	1.50e-6 lbs/hr	CC7%O2
1,2-Dichloropropane	229C2R2	ND 5.28e+2 ng/dscm 7%O2	1.80e-6 lbs/hr	CC7%O2
1,2-Dichloropropane	229C2R4	ND 2.29e+2 ng/dscm 7%O2	8.00e-7 lbs/hr	CC7%O2
Bromodichloromethane	229C1R2	2.49e+5 ng/dscm 7%O2	7.47e-4 lbs/hr	CC7%O2
Bromodichloromethane	229C1R3	2.07e+5 ng/dscm 7%O2	6.90e-4 lbs/hr	CC7%O2
Bromodichloromethane	229C1R4	ND 3.83e+5 ng/dscm 7%O2	1.24e-3 lbs/hr	CC7%O2
Bromodichloromethane	229C2R1	2.39e+5 ng/dscm 7%O2	7.76e-4 lbs/hr	CC7%O2
Bromodichloromethane	229C2R2	1.96e+5 ng/dscm 7%O2	6.68e-4 lbs/hr	CC7%O2
Bromodichloromethane	229C2R4	2.55e+5 ng/dscm 7%O2	8.93e-4 lbs/hr	CC7%O2
Carbon Tetrachloride	229C1R2	1.49e+5 ng/dscm 7%O2	4.46e-4 lbs/hr	CC7%O2
Carbon Tetrachloride	229C1R3	2.23e+5 ng/dscm 7%O2	7.43e-4 lbs/hr	CC7%O2

US EPA ARCHIVE DOCUMENT

SECTION 7: EMISSIONS ANALYSES

1. COMPANY: VULCAN MATERIALS CO.  
 2. STATE: KS  
 3. CITY: WICHITA  
 4. EP ID: 229 DEVICE NAME:

EPA ID: KSD007482029  
 SYSTEM TYPE: ONSITE INCINERATOR

REGION: 7  
 APC SYSTEM: WHB/ACS/HCS/C5

Carbon Tetrachloride	229C1R4	ND	2.95e+5	ng/dscm	7%O2	9.55e-4	lbs/hr	CC7%O2
Carbon Tetrachloride	229C2R1		6.38e+5	ng/dscm	7%O2	2.07e-3	lbs/hr	CC7%O2
Carbon Tetrachloride	229C2R2		4.93e+5	ng/dscm	7%O2	1.68e-3	lbs/hr	CC7%O2
Carbon Tetrachloride	229C2R4		6.49e+5	ng/dscm	7%O2	2.27e-3	lbs/hr	CC7%O2
Carbon Tetrachloride	229C5R1		6.54e+5	ng/dscm	7%O2	2.35e-3	lbs/hr	CC7%O2
Carbon Tetrachloride	229C5R2		1.23e+6	ng/dscm	7%O2	4.09e-3	lbs/hr	CC7%O2
Carbon Tetrachloride	229C6R1		3.23e+5	ng/dscm	7%O2	1.20e-3	lbs/hr	CC7%O2
Carbon Tetrachloride	229C6R2		4.91e+5	ng/dscm	7%O2	1.65e-3	lbs/hr	CC7%O2
Chlorobenzene	229C1R2	ND	2.94e+4	ng/dscm	7%O2	8.80e-5	lbs/hr	CC7%O2
Chlorobenzene	229C1R3	ND	4.99e+4	ng/dscm	7%O2	1.66e-4	lbs/hr	CC7%O2
Chlorobenzene	229C1R4	ND	2.24e+4	ng/dscm	7%O2	7.26e-5	lbs/hr	CC7%O2
Chlorobenzene	229C2R1	ND	1.53e+4	ng/dscm	7%O2	4.97e-5	lbs/hr	CC7%O2
Chlorobenzene	229C2R2		1.15e+4	ng/dscm	7%O2	3.91e-5	lbs/hr	CC7%O2
Chlorobenzene	229C2R4	ND	1.26e+4	ng/dscm	7%O2	4.42e-5	lbs/hr	CC7%O2
Chloroethane	229C1R2	ND	7.54e+2	ng/dscm	7%O2	2.26e-6	lbs/hr	CC7%O2
Chloroethane	229C1R3	ND	8.14e+2	ng/dscm	7%O2	2.71e-6	lbs/hr	CC7%O2
Chloroethane	229C1R4	ND	1.67e+3	ng/dscm	7%O2	5.40e-6	lbs/hr	CC7%O2
Chloroethane	229C2R1	ND	1.72e+3	ng/dscm	7%O2	5.57e-6	lbs/hr	CC7%O2
Chloroethane	229C2R2	ND	8.33e+2	ng/dscm	7%O2	2.84e-6	lbs/hr	CC7%O2
Chloroethane	229C2R4	ND	6.98e+2	ng/dscm	7%O2	2.44e-6	lbs/hr	CC7%O2
Chloroform	229C1R2		2.45e+5	ng/dscm	7%O2	7.34e-4	lbs/hr	CC7%O2
Chloroform	229C1R3		3.75e+5	ng/dscm	7%O2	1.25e-3	lbs/hr	CC7%O2
Chloroform	229C1R4	ND	3.15e+5	ng/dscm	7%O2	1.02e-3	lbs/hr	CC7%O2
Chloroform	229C2R1		3.00e+5	ng/dscm	7%O2	9.73e-4	lbs/hr	CC7%O2
Chloroform	229C2R2		1.97e+5	ng/dscm	7%O2	6.73e-4	lbs/hr	CC7%O2
Chloroform	229C2R4		2.25e+5	ng/dscm	7%O2	7.85e-4	lbs/hr	CC7%O2
Chloromethane	229C1R2	ND	2.92e+6	ng/dscm	7%O2	8.76e-3	lbs/hr	CC7%O2
Chloromethane	229C1R3	ND	1.66e+6	ng/dscm	7%O2	5.52e-3	lbs/hr	CC7%O2
Chloromethane	229C1R4	ND	2.34e+6	ng/dscm	7%O2	7.57e-3	lbs/hr	CC7%O2
Chloromethane	229C2R1	ND	2.23e+5	ng/dscm	7%O2	7.24e-4	lbs/hr	CC7%O2
Chloromethane	229C2R2	ND	2.99e+6	ng/dscm	7%O2	1.02e-2	lbs/hr	CC7%O2
Chloromethane	229C2R4	ND	1.27e+6	ng/dscm	7%O2	4.43e-3	lbs/hr	CC7%O2
cis-1,2-Dichloroethene	229C1R2	ND	1.06e+3	ng/dscm	7%O2	3.19e-6	lbs/hr	CC7%O2
cis-1,2-Dichloroethene	229C1R3	ND	1.10e+3	ng/dscm	7%O2	3.66e-6	lbs/hr	CC7%O2
cis-1,2-Dichloroethene	229C1R4	ND	1.79e+3	ng/dscm	7%O2	5.79e-6	lbs/hr	CC7%O2
cis-1,2-Dichloroethene	229C2R1	ND	2.63e+3	ng/dscm	7%O2	8.55e-6	lbs/hr	CC7%O2
cis-1,2-Dichloroethene	229C2R2	ND	7.68e+3	ng/dscm	7%O2	2.62e-5	lbs/hr	CC7%O2
cis-1,2-Dichloroethene	229C2R4	ND	2.44e+3	ng/dscm	7%O2	8.53e-6	lbs/hr	CC7%O2
cis-1,3-Dichloropropene	229C1R2	ND	2.37e+2	ng/dscm	7%O2	7.10e-7	lbs/hr	CC7%O2
cis-1,3-Dichloropropene	229C1R3	ND	2.19e+2	ng/dscm	7%O2	7.30e-7	lbs/hr	CC7%O2
cis-1,3-Dichloropropene	229C1R4	ND	2.38e+2	ng/dscm	7%O2	7.70e-7	lbs/hr	CC7%O2
cis-1,3-Dichloropropene	229C2R1	ND	2.59e+2	ng/dscm	7%O2	8.40e-7	lbs/hr	CC7%O2
cis-1,3-Dichloropropene	229C2R2	ND	2.61e+2	ng/dscm	7%O2	8.90e-7	lbs/hr	CC7%O2
cis-1,3-Dichloropropene	229C2R4	ND	2.20e+2	ng/dscm	7%O2	7.70e-7	lbs/hr	CC7%O2
Dibromochloromethane	229C1R2	ND	3.37e+5	ng/dscm	7%O2	1.01e-3	lbs/hr	CC7%O2
Dibromochloromethane	229C1R3	ND	1.65e+5	ng/dscm	7%O2	5.50e-4	lbs/hr	CC7%O2
Dibromochloromethane	229C1R4	ND	3.67e+5	ng/dscm	7%O2	1.19e-3	lbs/hr	CC7%O2
Dibromochloromethane	229C2R1	ND	3.67e+5	ng/dscm	7%O2	1.19e-3	lbs/hr	CC7%O2
Dibromochloromethane	229C2R2	ND	3.75e+5	ng/dscm	7%O2	1.28e-3	lbs/hr	CC7%O2
Dibromochloromethane	229C2R4	ND	4.66e+5	ng/dscm	7%O2	1.63e-3	lbs/hr	CC7%O2
Methylene Chloride	229C1R2		6.91e+4	ng/dscm	7%O2	2.07e-4	lbs/hr	CC7%O2
Methylene Chloride	229C1R3	ND	9.94e+4	ng/dscm	7%O2	3.31e-4	lbs/hr	CC7%O2
Methylene Chloride	229C1R4		2.75e+5	ng/dscm	7%O2	8.90e-4	lbs/hr	CC7%O2
Methylene Chloride	229C2R1		1.82e+5	ng/dscm	7%O2	5.92e-4	lbs/hr	CC7%O2
Methylene Chloride	229C2R2		1.04e+5	ng/dscm	7%O2	3.56e-4	lbs/hr	CC7%O2
Methylene Chloride	229C2R4	ND	1.01e+5	ng/dscm	7%O2	3.52e-4	lbs/hr	CC7%O2
Tetrachloroethene	229C1R2	ND	7.58e+4	ng/dscm	7%O2	2.27e-4	lbs/hr	CC7%O2
Tetrachloroethene	229C1R3	ND	1.77e+5	ng/dscm	7%O2	5.88e-4	lbs/hr	CC7%O2
Tetrachloroethene	229C1R4	ND	1.24e+5	ng/dscm	7%O2	4.02e-4	lbs/hr	CC7%O2
Tetrachloroethene	229C2R1	ND	3.57e+5	ng/dscm	7%O2	1.16e-3	lbs/hr	CC7%O2
Tetrachloroethene	229C2R2	ND	2.23e+5	ng/dscm	7%O2	7.60e-4	lbs/hr	CC7%O2
Tetrachloroethene	229C2R4	ND	4.89e+5	ng/dscm	7%O2	1.71e-3	lbs/hr	CC7%O2

US EPA ARCHIVE DOCUMENT

SECTION 7: EMISSIONS ANALYSES

1. COMPANY: VULCAN MATERIALS CO.  
 2. STATE: KS  
 3. CITY: WICHITA  
 4. EP ID: 229 DEVICE NAME:

EPA KSD007482029  
 SYSTEM TYPE: ONSITE INCINERATOR

REGION: 7  
 APC SYSTEM: WHB/ACS/HCS/CS

trans-1,2-Dichloroethene	229C1R2	ND	1.50e+3	ng/dscm	7%O2	4.50e-6	lbs/hr	CC7%O2
trans-1,2-Dichloroethene	229C1R3	ND	1.86e+3	ng/dscm	7%O2	6.20e-6	lbs/hr	CC7%O2
trans-1,2-Dichloroethene	229C1R4	ND	2.78e+3	ng/dscm	7%O2	9.00e-6	lbs/hr	CC7%O2
trans-1,2-Dichloroethene	229C2R1	ND	3.85e+3	ng/dscm	7%O2	1.25e-5	lbs/hr	CC7%O2
trans-1,2-Dichloroethene	229C2R2	ND	2.81e+3	ng/dscm	7%O2	9.60e-6	lbs/hr	CC7%O2
trans-1,2-Dichloroethene	229C2R4	ND	2.63e+3	ng/dscm	7%O2	9.20e-6	lbs/hr	CC7%O2
trans-1,3-Dichloropropene	229C1R2	ND	3.97e+2	ng/dscm	7%O2	1.19e-6	lbs/hr	CC7%O2
trans-1,3-Dichloropropene	229C1R3	ND	3.66e+2	ng/dscm	7%O2	1.22e-6	lbs/hr	CC7%O2
trans-1,3-Dichloropropene	229C1R4	ND	3.89e+2	ng/dscm	7%O2	1.26e-6	lbs/hr	CC7%O2
trans-1,3-Dichloropropene	229C2R1	ND	4.35e+2	ng/dscm	7%O2	1.41e-6	lbs/hr	CC7%O2
trans-1,3-Dichloropropene	229C2R2	ND	4.19e+2	ng/dscm	7%O2	1.43e-6	lbs/hr	CC7%O2
trans-1,3-Dichloropropene	229C2R4	ND	3.66e+2	ng/dscm	7%O2	1.28e-6	lbs/hr	CC7%O2
Trichloroethene	229C1R2	ND	4.77e+4	ng/dscm	7%O2	1.43e-4	lbs/hr	CC7%O2
Trichloroethene	229C1R3		1.62e+5	ng/dscm	7%O2	5.41e-4	lbs/hr	CC7%O2
Trichloroethene	229C1R4		2.15e+4	ng/dscm	7%O2	6.98e-5	lbs/hr	CC7%O2
Trichloroethene	229C2R1		5.12e+4	ng/dscm	7%O2	1.66e-4	lbs/hr	CC7%O2
Trichloroethene	229C2R2		3.87e+4	ng/dscm	7%O2	1.32e-4	lbs/hr	CC7%O2
Trichloroethene	229C2R4		6.09e+4	ng/dscm	7%O2	2.13e-4	lbs/hr	CC7%O2
Trichlorofluoromethane	229C1R2	ND	3.06e+4	ng/dscm	7%O2	9.17e-5	lbs/hr	CC7%O2
Trichlorofluoromethane	229C1R3	ND	6.76e+3	ng/dscm	7%O2	2.25e-5	lbs/hr	CC7%O2
Trichlorofluoromethane	229C1R4	ND	1.28e+4	ng/dscm	7%O2	4.15e-5	lbs/hr	CC7%O2
Trichlorofluoromethane	229C2R1	ND	6.41e+3	ng/dscm	7%O2	2.08e-5	lbs/hr	CC7%O2
Trichlorofluoromethane	229C2R2	ND	1.24e+4	ng/dscm	7%O2	4.23e-5	lbs/hr	CC7%O2
Trichlorofluoromethane	229C2R4	ND	9.15e+2	ng/dscm	7%O2	3.20e-6	lbs/hr	CC7%O2
Vinyl Chloride	229C1R2	ND	5.34e+2	ng/dscm	7%O2	1.60e-6	lbs/hr	CC7%O2
Vinyl Chloride	229C1R3	ND	9.61e+2	ng/dscm	7%O2	3.20e-6	lbs/hr	CC7%O2
Vinyl Chloride	229C1R4	ND	4.94e+2	ng/dscm	7%O2	1.60e-6	lbs/hr	CC7%O2
Vinyl Chloride	229C2R1	ND	5.86e+2	ng/dscm	7%O2	1.90e-6	lbs/hr	CC7%O2
Vinyl Chloride	229C2R2	ND	4.98e+2	ng/dscm	7%O2	1.70e-6	lbs/hr	CC7%O2
Vinyl Chloride	229C2R4	ND	4.29e+2	ng/dscm	7%O2	1.50e-6	lbs/hr	CC7%O2

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