

Council Bluffs Energy Center  
 Title V Actual Emissions  
 For the Year

2003

CEMS Values

Tons lbs/mmBtu  
 SOx NOx YR mmBtu  
 1001.80 0.479 3497172  
 837.57 Tons

Emission Point	001	Natural Gas				001	Total			
	Coal					Pollutant	Tons/Yr			
Actual Throughput	188,645.00 Tons	14.55 MMcf								
	8539 Ave Btu/lb									
Pollutant	Emission Factor	Units	Control Eff	Tons/Yr	Emission Factor	Units	Control Eff	Tons/Yr	Pollutant	Tons/Yr
PM10	4.6900E-02	lb/mmBtu	0.00	75.55	7.60E+00	lb/MMcf	0.00	0.06	PM10	75.61
PM	7.0000E-02	lb/mmBtu	0.00	112.76	7.60E+00	lb/MMcf	0.00	0.06	PM	112.82
SOx		CEM Value		1,001.80	CEM	CEM			SOx	1,001.80
NOx		CEM Value		837.57	CEM	CEM			NOx	837.57
VOC	6.0000E-02	lb/ton		5.66	5.50E+00	lb/MMcf		0.04	VOC	5.70
CO	5.0000E-01	lb/ton		47.16	8.40E+01	lb/MMcf		0.61	CO	47.77
Lead	NA								Lead	0.00
Antimony	1.8000E-05	lb/ton		0.00					7440360 Antimony	0.00
Arsenic compounds	4.1000E-04	lb/ton		0.04					7440382 Arsenic cor	0.04
Beryllium compounds	2.1000E-05	lb/ton		0.00					7440417 Beryllium c	0.00
Cadmium compounds	5.1000E-05	lb/ton		0.00					7440439 Cadmium c	0.00
Chromium compounds	3.3900E-04	lb/ton		0.03					7440473 Chromium	0.03
Cobalt	1.0000E-04	lb/ton		0.01					7440484 Cobalt	0.01
Cyanide	2.5000E-03	lb/ton		0.24					Cyanide	0.24
Hydrochloric acid	1.2997E-01	lb/ton		12.26					7647010 Hydrochlori	12.26
Hydrogen fluoride	6.9112E-02	lb/ton		6.52					7664393 Hydrogen f	6.52
Lead compounds	4.2000E-04	lb/ton		0.04					Lead comp	0.04
Manganese compounds	4.9000E-04	lb/ton		0.05					7439965 Manganese	0.05
Mercury compounds	1.0663E-04	lb/ton		0.01					7439976 Mercury co	0.01
Nickel compounds	2.8000E-04	lb/ton		0.03					7440020 Nickel com	0.03
POM	2.0800E-06	lb/mmBtu		0.00					POM	0.00
Radionuclides	9.5000E-02	lb/ton PM		0.01					Radionuclid	0.01
Selenium compounds	1.3000E-03	lb/ton		0.12					7782492 Selenium c	0.12
Acetaldehyde	5.7000E-04	lb/ton		0.05					75070 Acetaldehy	0.05
Acetophenone	1.5000E-05	lb/ton		0.00					98862 Acetopheni	0.00
Acrolein	2.9000E-04	lb/ton		0.03					107028 Acrolein	0.03
Benzene	1.3000E-03	lb/ton		0.12					71432 Benzene	0.12
Benzyl Chloride	7.0000E-04	lb/ton		0.07					100447 Benzyl Chk	0.07
Di(2-ethylhexyl)phthalate	7.3000E-05	lb/ton		0.01					117817 Di(2-ethylh	0.01
Bromoform	3.9000E-05	lb/ton		0.00					75252 Bromoform	0.00
Carbon Disulfide	1.3000E-04	lb/ton		0.01					75150 Carbon Dis	0.01
2-Chloroacetophenone	7.0000E-06	lb/ton		0.00					532574 2-Chloroac	0.00
Chlorobenzene	2.2000E-05	lb/ton		0.00					108907 Chlorobenz	0.00
Chloroform	5.9000E-05	lb/ton		0.01					67663 Chloroform	0.01
Cumene	5.3000E-06	lb/ton		0.00					98828 Cumene	0.00
Dimethyl Sulfate	4.8000E-05	lb/ton		0.00					77781 Dimethyl S	0.00
Ethylbenzene	9.4000E-05	lb/ton		0.01					100414 Ethylbenze	0.01
Chloroethane	4.2000E-05	lb/ton		0.00					75003 Chloroetha	0.00

1,2-Dichloroethane	4.0000E-05 lb/ton	0.00			107062 1,2-Dichloro	0.00
Formaldehyde	2.4000E-04 lb/ton	0.02	7.5000E-02 lb/MMcf	0.00	50000 Formaldehy	0.02
Hexane	6.7000E-05 lb/ton	0.01	1.8000E+00 lb/MMcf	0.01	110543 Hexane	0.02
Isophorone	5.8000E-04 lb/ton	0.05			78591 Isophorone	0.05
Methyl Tert Butyl Ether	3.5000E-05 lb/ton	0.00			1634044 Methyl Tert	0.00
Bromomethane	1.6000E-04 lb/ton	0.02			74839 Bromomet	0.02
Methyl Chloride	5.3000E-04 lb/ton	0.05			74873 Methyl Chl	0.05
Methyl Ethyl Ketone	3.9000E-04 lb/ton	0.04			78933 Methyl Eth	0.04
methyl Hydrazine	1.7000E-04 lb/ton	0.02			60344 methyl Hyd	0.02
Methyl Methacrylate	2.0000E-05 lb/ton	0.00			80626 Methyl Met	0.00
Dichloromethane	2.9000E-04 lb/ton	0.03			75092 Dichlorome	0.03
Phenol	1.6000E-05 lb/ton	0.00			108952 Phenol	0.00
Propionaldehyde	3.8000E-04 lb/ton	0.04			123386 Propionaldi	0.04
Styrene	2.5000E-05 lb/ton	0.00			100425 Styrene	0.00
Tetrachloroethaylene	4.3000E-05 lb/ton	0.00			127184 Tetrachlor	0.00
Toluene	2.4000E-04 lb/ton	0.02			108883 Toluene	0.02
1,1,1 Trichloroethane	2.0000E-05 lb/ton	0.00			71556 1,1,1 Trichl	0.00
Vinyl Acetate	7.6000E-06 lb/ton	0.00			108054 Vinyl Aceta	0.00
Xylene	3.7000E-05 lb/ton	0.00			1330207 Xylene	0.00

Oil

Actual Throughput 0.00 1000 gal

Pollutant	Emission Factor	Units	Control Eff	Tons/Yr
PM10	1.0000E+00	lb/1000 gal	0.00	0.00
PM	2.0000E+00	lb/1000 gal	0.00	0.00
SOx	CEM	CEM		
NOx	CEM	CEM		
VOC	2.0000E-01	lb/1000 gal		0.00
CO	5.0000E+00	lb/1000 gal		0.00
Lead compounds	1.2400E-03	lb/1000 gal		0.00

CEMS Values

Tons	lbs/mmBtu
SOx	NOx YR mmBtu
1898.80	0.376 6368914
	1,197.36 Tons

Emission Point	002	Natural Gas				002	Total			
	Coal									
Actual Throughput	355,637.00 Tons	33.21 MMcf								
	8556 Ave Btu/lb									
Pollutant	Emission Factor	Units	Control Eff	Tons/Yr	Emission Factor	Units	Control Eff	Tons/Yr	Pollutant	Tons/Yr
PM10	2.9500E-02	lb/mmBtu	0.00	89.76	7.60E+00	lb/MMcf	0.00	0.13	PM10	89.89
PM	4.4000E-02	lb/mmBtu	0.00	133.88	7.60E+00	lb/MMcf	0.00	0.13	PM	134.01
SOx		CEM Value		1,898.80	CEM	CEM			SOx	1,898.80
NOx		CEM Value		1,197.36	CEM	CEM			NOx	1,197.36
VOC	6.0000E-02	lb/ton		10.67	5.50E+00	lb/MMcf		0.09	VOC	10.76
CO	5.0000E-01	lb/ton		88.91	2.40E+01	lb/MMcf		0.40	CO	89.31
Lead	NA								Lead	0.00
Antimony	1.8000E-05	lb/ton		0.00					7440360 Antimony	0.00
Arsenic compounds	4.1000E-04	lb/ton		0.07					7440382 Arsenic cor	0.07
Beryllium compounds	2.1000E-05	lb/ton		0.00					7440417 Beryllium c	0.00
Cadmium compounds	5.1000E-05	lb/ton		0.01					7440439 Cadmium c	0.01
Chromium compounds	3.3900E-04	lb/ton		0.06					7440473 Chromium	0.06
Cobalt	1.0000E-04	lb/ton		0.02					7440484 Cobalt	0.02
Cyanide	2.5000E-03	lb/ton		0.44					Cyanide	0.44
Hydrochloric acid	1.2997E-01	lb/ton		23.11					7647010 Hydrochlori	23.11
Hydrogen fluoride	6.9112E-02	lb/ton		12.29					7664393 Hydrogen f	12.29
Lead compounds	4.2000E-04	lb/ton		0.07					Lead comp	0.07
Manganese compounds	4.9000E-04	lb/ton		0.09					7439965 Manganese	0.09
Mercury compounds	1.0663E-04	lb/ton		0.02					7439976 Mercury co	0.02
Nickel compounds	2.8000E-04	lb/ton		0.05					7440020 Nickel com	0.05
POM	2.4000E-06	lb/mmBtu		0.01					POM	0.01
Radionuclides	9.5000E-02	lb/ton PM		0.01					Radionuclid	0.01
Selenium compounds	1.3000E-03	lb/ton		0.23					7782492 Selenium c	0.23
Acetaldehyde	5.7000E-04	lb/ton		0.10					75070 Acetaldehy	0.10
Acetophenone	1.5000E-05	lb/ton		0.00					98862 Acetopheni	0.00
Acrolein	2.9000E-04	lb/ton		0.05					107028 Acrolein	0.05
Benzene	1.3000E-03	lb/ton		0.23					71432 Benzene	0.23
Benzyl Chloride	7.0000E-04	lb/ton		0.12					100447 Benzyl Chk	0.12
Di(2-ethylhexyl)phthalate	7.3000E-05	lb/ton		0.01					117817 Di(2-ethylh	0.01
Bromoform	3.9000E-05	lb/ton		0.01					75252 Bromoform	0.01
Carbon Disulfide	1.3000E-04	lb/ton		0.02					75150 Carbon Dis	0.02
2-Chloroacetophenone	7.0000E-06	lb/ton		0.00					532574 2-Chloroac	0.00
Chlorobenzene	2.2000E-05	lb/ton		0.00					108907 Chlorobenz	0.00
Chloroform	5.9000E-05	lb/ton		0.01					67663 Chloroform	0.01
Cumene	5.3000E-06	lb/ton		0.00					98828 Cumene	0.00
Dimethyl Sulfate	4.8000E-05	lb/ton		0.01					77781 Dimethyl S	0.01
Ethylbenzene	9.4000E-05	lb/ton		0.02					100414 Ethylbenze	0.02
Chloroethane	4.2000E-05	lb/ton		0.01					75003 Chloroetha	0.01

1,2-Dichloroethane	4.0000E-05 lb/ton	0.01			107062 1,2-Dichloro	0.01
Formaldehyde	2.4000E-04 lb/ton	0.04	7.5000E-02 lb/MMcf	0.00	50000 Formaldehy	0.04
Hexane	6.7000E-05 lb/ton	0.01	1.8000E+00 lb/MMcf	0.03	110543 Hexane	0.04
Isophorone	5.8000E-04 lb/ton	0.10			78591 Isophorone	0.10
Methyl Tert Butyl Ether	3.5000E-05 lb/ton	0.01			1634044 Methyl Tert	0.01
Bromomethane	1.6000E-04 lb/ton	0.03			74839 Bromomet	0.03
Methyl Chloride	5.3000E-04 lb/ton	0.09			74873 Methyl Chl	0.09
Methyl Ethyl Ketone	3.9000E-04 lb/ton	0.07			78933 Methyl Eth	0.07
methyl Hydrazine	1.7000E-04 lb/ton	0.03			60344 methyl Hyd	0.03
Methyl Methacrylate	2.0000E-05 lb/ton	0.00			80626 Methyl Met	0.00
Dichloromethane	2.9000E-04 lb/ton	0.05			75092 Dichlorome	0.05
Phenol	1.6000E-05 lb/ton	0.00			108952 Phenol	0.00
Propionaldehyde	3.8000E-04 lb/ton	0.07			123386 Propionaldi	0.07
Styrene	2.5000E-05 lb/ton	0.00			100425 Styrene	0.00
Tetrachloroethaylene	4.3000E-05 lb/ton	0.01			127184 Tetrachlor	0.01
Toluene	2.4000E-04 lb/ton	0.04			108883 Toluene	0.04
1,1,1 Trichloroethane	2.0000E-05 lb/ton	0.00			71556 1,1,1 Trichl	0.00
Vinyl Acetate	7.6000E-06 lb/ton	0.00			108054 Vinyl Aceta	0.00
Xylene	3.7000E-05 lb/ton	0.01			1330207 Xylene	0.01

Actual Throughput		Oil		
Pollutant	Emission Factor	Units	Control Eff	Tons/Yr
	0.00	1000 gal		
PM10	1.0000E+00	lb/1000 gal	0.00	0.00
PM	2.0000E+00	lb/1000 gal	0.00	0.00
SOx	CEM	CEM		
NOx	CEM	CEM		
VOC	2.0000E-01	lb/1000 gal		0.00
CO	5.0000E+00	lb/1000 gal		0.00
Lead compounds	1.2400E-03	lb/1000 gal		0.00

CEMS Values

Tons	lbs/mmBtu
SOx	NOx YR mmBtu
16107.00	0.398 54710494
	10,887.39 Tons

Emission Point	003												
	Coal				Oil								
Actual Throughput	3,117,727.00 Tons				217.90 1000 gal								
	8570 Ave Btu/lb												
Pollutant	Emission Factor	Units	Control Eff	Tons/Yr	Emission Factor	Units	Control Eff	Tons/Yr		003	Total		
										Pollutant	Tons/Yr		
PM10	1.7200E-02	lb/mmBtu	0.00	459.57	1.0000E+00	lb/1000 gal	0.00	0.11		PM10	459.68		
PM	2.5700E-02	lb/mmBtu	0.00	686.68	2.0000E+00	lb/1000 gal	0.00	0.22		PM	686.90		
SOx		CEM Value		16,107.00	CEM	CEM				SOx	16,107.00		
NOx		CEM Value		10,887.39	CEM	CEM				NOx	10,887.39		
VOC	6.0000E-02	lb/ton		93.53	2.0000E-01	lb/1000 gal		0.02		VOC	93.55		
CO	5.0000E-01	lb/ton		779.43	5.0000E+00	lb/1000 gal		0.54		CO	779.98		
Lead	NA									Lead	0.00		
Antimony	1.8000E-05	lb/ton		0.03						7440360 Antimony	0.03		
Arsenic compounds	4.1000E-04	lb/ton		0.64						7440382 Arsenic cor	0.64		
Beryllium compounds	2.1000E-05	lb/ton		0.03						7440417 Beryllium c	0.03		
Cadmium compounds	5.1000E-05	lb/ton		0.08						7440439 Cadmium c	0.08		
Chromium compounds	3.3900E-04	lb/ton		0.53						7440473 Chromium	0.53		
Cobalt	1.0000E-04	lb/ton		0.16						7440484 Cobalt	0.16		
Cyanide	2.5000E-03	lb/ton		3.90						Cyanide	3.90		
Hydrochloric acid	1.2997E-01	lb/ton		202.61						7647010 Hydrochlori	202.61		
Hydrogen fluoride	6.9112E-02	lb/ton		107.74						7664393 Hydrogen f	107.74		
Lead compounds	4.2000E-04	lb/ton		0.65	1.2400E-03	lb/1000 gal		0.00		Lead comp	0.65		
Manganese compounds	4.9000E-04	lb/ton		0.76						7439965 Manganese	0.76		
Mercury compounds	1.0663E-04	lb/ton		0.17						7439976 Mercury co	0.17		
Nickel compounds	2.8000E-04	lb/ton		0.44						7440020 Nickel com	0.44		
POM	2.0800E-06	lb/mmBtu		0.06						POM	0.06		
Radionuclides	9.5000E-02	lb/ton PM		0.03						Radionuclid	0.03		
Selenium compounds	1.3000E-03	lb/ton		2.03						7782492 Selenium c	2.03		
Acetaldehyde	5.7000E-04	lb/ton		0.89						75070 Acetaldehy	0.89		
Acetophenone	1.5000E-05	lb/ton		0.02						98862 Acetopheni	0.02		
Acrolein	2.9000E-04	lb/ton		0.45						107028 Acrolein	0.45		
Benzene	1.3000E-03	lb/ton		2.03						71432 Benzene	2.03		
Benzyl Chloride	7.0000E-04	lb/ton		1.09						100447 Benzyl Chk	1.09		
Di(2-ethylhexyl)phthalate	7.3000E-05	lb/ton		0.11						117817 Di(2-ethylh	0.11		
Bromoform	3.9000E-05	lb/ton		0.06						75252 Bromoform	0.06		
Carbon Disulfide	1.3000E-04	lb/ton		0.20						75150 Carbon Dis	0.20		
2-Chloroacetophenone	7.0000E-06	lb/ton		0.01						532574 2-Chloroac	0.01		
Chlorobenzene	2.2000E-05	lb/ton		0.03						108907 Chlorobenz	0.03		
Chloroform	5.9000E-05	lb/ton		0.09						67663 Chloroform	0.09		
Cumene	5.3000E-06	lb/ton		0.01						98828 Cumene	0.01		
Dimethyl Sulfate	4.8000E-05	lb/ton		0.07						77781 Dimethyl S	0.07		
Ethylbenzene	9.4000E-05	lb/ton		0.15						100414 Ethylbenze	0.15		
Chloroethane	4.2000E-05	lb/ton		0.07						75003 Chloroetha	0.07		

1,2-Dichloroethane	4.0000E-05 lb/ton	0.06
Formaldehyde	2.4000E-04 lb/ton	0.37
Hexane	6.7000E-05 lb/ton	0.10
Isophorone	5.8000E-04 lb/ton	0.90
Methyl Tert Butyl Ether	3.5000E-05 lb/ton	0.05
Bromomethane	1.6000E-04 lb/ton	0.25
Methyl Chloride	5.3000E-04 lb/ton	0.83
Methyl Ethyl Ketone	3.9000E-04 lb/ton	0.61
methyl Hydrazine	1.7000E-04 lb/ton	0.27
Methyl Methacrylate	2.0000E-05 lb/ton	0.03
Dichloromethane	2.9000E-04 lb/ton	0.45
Phenol	1.6000E-05 lb/ton	0.02
Propionaldehyde	3.8000E-04 lb/ton	0.59
Styrene	2.5000E-05 lb/ton	0.04
Tetrachloroethaylene	4.3000E-05 lb/ton	0.07
Toluene	2.4000E-04 lb/ton	0.37
1,1,1 Trichloroethane	2.0000E-05 lb/ton	0.03
Vinyl Acetate	7.6000E-06 lb/ton	0.01
Xylene	3.7000E-05 lb/ton	0.06

107062 1,2-Dichloro	0.06
50000 Formaldehy	0.37
110543 Hexane	0.10
78591 Isophorone	0.90
1634044 Methyl Tert	0.05
74839 Bromomet	0.25
74873 Methyl Chl	0.83
78933 Methyl Eth	0.61
60344 methyl Hyd	0.27
80626 Methyl Met	0.03
75092 Dichlorome	0.45
108952 Phenol	0.02
123386 Propionaldi	0.59
100425 Styrene	0.04
127184 Tetrachlor	0.07
108883 Toluene	0.37
71556 1,1,1 Trichl	0.03
108054 Vinyl Aceta	0.01
1330207 Xylene	0.06

Actual Throughput      Used Oil      0.12 1000 gal      % ash      3.0

Pollutant	Emission Factor	Units	Control Eff	Tons/Yr
PM10	5.1000E+01	lb/1000 gal	95.0	0.00
PM	6.1000E+01	lb/1000 gal	95.0	0.00
SOx	CEM			
NOx	CEM			
VOC	1.0000E+00	lb/1000 gal		0.00
CO	5.0000E+00	lb/1000 gal		0.00
Lead compounds	1.6800E+00	lb/1000 gal		0.00

Emission Point 004  
 Oil  
 Actual Throughput 0.00 1000 gal % sulfur 0.5

Pollutant	Emission Factor	Units	Control Eff	Tons/Yr
PM10	1.00E+00	lb/1000 gal		0.00
PM	2.00E+00	lb/1000 gal		0.00
SOx	1.42E+02	lb/1000 gal		0.00
NOx	2.40E+01	lb/1000 gal		0.00
VOC	2.00E-01	lb/1000 gal		0.00
CO	5.00E+00	lb/1000 gal		0.00

004 Pollutant	Total Tons/Yr
PM10	0.00
PM	0.00
SOx	0.00
NOx	0.00
VOC	0.00
CO	0.00

Emission Point 005  
 bulldozing wind erosion  
 Actual Throughput 10,739.00 hours 23.81 Acres

Pollutant	Emission Factor	Units	Control Eff	Tons/Yr	Emission Factor	Units	Control Eff	Tons/Yr
PM10	1.3258E+01	lb/hr		71.19	1.7060E+04	lb/acre	75	50.77
PM	4.9400E+01	lb/hr		265.25	3.4120E+04	lb/acre	75	101.55

005 Pollutant	Tons/Yr
PM10	121.96
PM	366.80

Emission Point 006  
 Dumper building dust collector 1  
 Actual Throughput 3,609,183.00 tons

Pollutant	Emission Factor	Units	Control Eff	Tons/Yr
PM10	4.5571E-03	lb/ton	0.00	8.22
PM	4.5571E-03	lb/ton	0.00	8.22

006 Pollutant	Tons/Yr
PM10	8.22
PM	8.22



Emission Point	011					
	Transfer house 3 - conveyor 4ab					
Actual Throughput	3,662,008.00 tons					
Pollutant	Emission Factor	Units	Control Eff	Tons/Yr	011	
PM10	4.0667E-04	lb/ton	0.00	0.74	Pollutant	Tons/Yr
PM	4.0667E-04	lb/ton	0.00	0.74	PM10	0.74
					PM	0.74
Emission Point	013					
	Transfer house 4 - conveyor 5ab					
Actual Throughput	3,117,727.00 tons					
Pollutant	Emission Factor	Units	Control Eff	Tons/Yr	013	
PM10	1.4947E-03	lb/ton	0.00	2.33	Pollutant	Tons/Yr
PM	1.4947E-03	lb/ton	0.00	2.33	PM10	2.33
					PM	2.33
Emission Point	014					
	#3 East coal silos					
Actual Throughput	1,558,864.00 tons					
Pollutant	Emission Factor	Units	Control Eff	Tons/Yr	014	
PM10	6.9111E-03	lb/ton	0.00	5.39	Pollutant	Tons/Yr
PM	6.9111E-03	lb/ton	0.00	5.39	PM10	5.39
					PM	5.39
Emission Point	015					
	#3 West coal silos					
Actual Throughput	1,558,864.00 tons					
Pollutant	Emission Factor	Units	Control Eff	Tons/Yr	015	
PM10	5.7556E-03	lb/ton	0.00	4.49	Pollutant	Tons/Yr
PM	5.7556E-03	lb/ton	0.00	4.49	PM10	4.49
					PM	4.49
Emission Point	016					
	1 & 2 Crusher house - conveyor 9					
Actual Throughput	544,281.00 tons					
Pollutant	Emission Factor	Units	Control Eff	Tons/Yr	016	
PM10	1.0400E-03	lb/ton	0.00	0.28	Pollutant	Tons/Yr
PM	1.0400E-03	lb/ton	0.00	0.28	PM10	0.28
					PM	0.28

Emission Point	017								017	
	1 & 2 Tripper								Pollutant	
Actual Throughput	544,281.00 tons								Tons/Yr	
Pollutant	Emission Factor	Units	Control Eff	Tons/Yr						
PM10	1.6800E-03	lb/ton	0.00	0.46				PM10		
PM	1.6800E-03	lb/ton	0.00	0.46				PM		
Emission Point	018								018	
	Ash Haul Road								Pollutant	
Actual Throughput	3460.00 miles								Tons/Yr	
Pollutant	Emission Factor	Units	Control Eff	Tons/Yr						
PM10	6.2000E+00	lb/mile	50.00	5.36				PM10		
PM	1.2400E+01	lb/mile	50.00	10.73				PM		
Emission Point	019	EU19a							019	
	Ash Pond Dumping		EF from Fire 30500707				Ash pond wind erosion		EU19c	
Actual Throughput	70,655.00 Tons						162.00 acres (Max)			
Pollutant	Emission Factor	Units	Control Eff	Tons/Yr		Emission Factor	Units	Control Eff	Tons/Yr	
PM10	1.0000E-01	lb/ton	0.00	3.53		3.8000E+02	lb/acre	50.00	15.39	
PM	2.0000E-01	lb/ton	0.00	7.07		7.6000E+02	lb/acre	50.00	30.78	
	Ash Grading	EU19b							019	
Actual Throughput	500.00 miles								Pollutant	
Pollutant	Emission Factor	Units	Control Eff	Tons/Yr				Tons/Yr		
PM10	3.3000E+00	lb/mile	50.00	0.41				PM10		
PM	5.3700E+00	lb/mile	50.00	0.67				PM		
Emission Point	020								020	
	Flyash Truck loading #3								Pollutant	
Actual Throughput	131121.00 Tons		EF from Fire 30501107						Tons/Yr	
Pollutant	Emission Factor	Units	Control Eff	Tons/Yr						
PM10	1.4000E-01	lb/ton	74.30	2.36				PM10		
PM	2.4000E-01	lb/ton	74.30	4.04				PM		

Emission Point	021			
	Flyash Truck loading 1 & 2			
Actual Throughput	22815.00	Tons	EF from Fire 30501107	
Pollutant	Emission Factor	Units	Control Eff	Tons/Yr
PM10	1.4000E-01	lb/ton	74.30	0.41
PM	2.4000E-01	lb/ton	74.30	0.70

021	
Pollutant	Tons/Yr
PM10	0.41
PM	0.70

Emission Point	024			
	Unleaded gasoline UST - working loss			
Actual Throughput	3.50	1000 gal		
Pollutant	Emission Factor	Units	Control Eff	Tons/Yr
VOC	1.4900E+01	lb/1000 gal		0.03
Methyl Tert Butyl Ether	2.3840E+00	lb/1000 gal		0.00
Benzene	7.3010E-01	lb/1000 gal		0.00
Ethylbenzene	4.4700E-01	lb/1000 gal		0.00
Hexane	4.4700E-01	lb/1000 gal		0.00
Toluene	2.9800E+00	lb/1000 gal		0.01
Xylenes (mixed isomers)	1.4900E+00	lb/1000 gal		0.00
Naphthalene	1.4900E-01	lb/1000 gal		0.00
Cumene	1.4900E-01	lb/1000 gal		0.00

024	
Pollutant	Tons/Yr
VOC	0.03
1634044 Methyl Tert	0.00
71432 Benzene	0.00
100414 Ethylbenze	0.00
110543 Hexane	0.00
108883 Toluene	0.01
1330207 Xylenes (m	0.00
91203 Naphthaler	0.00
98828 Cumene	0.00

Emission Point	025			
	Glycol storage tank			
Actual Throughput	0.22	1000 gal		
Pollutant	Emission Factor	Units	Control Eff	Tons/Yr
VOC	9.1630E+03	lb/1000 gal		1.01
Ethylene glycol	9.1630E+03	lb/1000 gal		1.01

025	
Pollutant	Tons/Yr
VOC	1.01
107211 Ethylene gl	1.01

Emission Point 026  
 Solvent parts cleaning - 3 washers fugitive  
 Actual Throughput 862.00 gal

Pollutant	Emission Factor	Units	Control Eff	Tons/Yr
VOC	1.6650E+00	lb/gal		0.72
1,1,1 Trichloroethane	8.3300E-03	lb/gal		0.00
Ethylbenzene	8.3300E-03	lb/gal		0.00
Tetrachlorethylene	8.3300E-03	lb/gal		0.00
Toluene	8.3300E-03	lb/gal		0.00
Xylenes (mixed isomers)	1.6650E-02	lb/gal		0.01

026		
Pollutant		Tons/Yr
VOC		0.72
71556 1,1,1 Trichl		0.00
100414 Ethylbenze		0.00
127184 Tetrachlore		0.00
108883 Toluene		0.00
1330207 Xylenes (m		0.01

Emission Point 027  
 Diesel fire pump stack  
 Actual Throughput 0.20 1000 gal

Pollutant	Emission Factor	Units	Control Eff	Tons/Yr
PM10	4.2500E+01	lb/1000 gal		0.00
PM	4.2500E+01	lb/1000 gal		0.00
SOx	3.9700E+01	lb/1000 gal		0.00
NOx	6.0400E+02	lb/1000 gal		0.06
VOC	4.9300E+01	lb/1000 gal		0.00
CO	1.3000E+02	lb/1000 gal		0.01
Lead	NA			

027		
Pollutant		Tons/Yr
PM10		0.00
PM		0.00
SOx		0.00
NOx		0.06
VOC		0.00
CO		0.01

Emission Point 30  
 EU028 Stockout Conveyor 7  
 Actual Throughput 523,175.00 tons

Pollutant	Emission Factor	Units	Control Eff	Tons/Yr
PM10	9.4000E-04	lb/ton	56.25	0.11
PM	2.0000E-03	lb/ton	56.25	0.23

30		
Pollutant		Tons/Yr
PM10		0.11
PM		0.23

75% control eff used for 9 months

Emission Point 31					Emission Point 31					
EU031a Stacker/Reclaimer - conveyor 3					EU031b Stacker/Reclaimer - Stackout					
Actual Throughput	3,086,008.00 tons				Actual Throughput	3,086,008.00 ton				
Pollutant	Emission Factor	Units	Control Eff	Tons/Yr	Emission Factor	Units	Control Eff	Tons/Yr	Pollutant	Tons/Yr
PM10	9.4000E-04	lb/ton	56.25	0.63	9.4000E-04	lb/ton	56.25	0.63	PM10	2.52
PM	2.0000E-03	lb/ton	56.25	1.35	2.0000E-03	lb/ton	56.25	1.35	PM	5.40
EU031c Stacker/Reclaimer - Reclaim in					EU031d Stacker/Reclaimer - Reclaim wheel					
Actual Throughput	3,086,008.00 tons				Actual Throughput	3,086,008.00 ton				
Pollutant	Emission Factor	Units	Control Eff	Tons/Yr	Emission Factor	Units	Control Eff	Tons/Yr		
PM10	9.4000E-04	lb/ton	56.25	0.63	9.4000E-04	lb/ton	56.25	0.63		
PM	2.0000E-03	lb/ton	56.25	1.35	2.0000E-03	lb/ton	56.25	1.35		
Emission Point 112					Emission Point 112					
Units 1 & 2 Aux Boiler					Units 1 & 2 Aux Boiler					
Actual Throughput	0.01 MMcf				Actual Throughput	0.01 MMcf				
Pollutant	Emission Factor	Units	Control Eff	Tons/Yr	Pollutant	Emission Factor	Units	Control Eff	Tons/Yr	
PM10	7.6000E+00	lb/MMcf		0.00	PM10	7.6000E+00	lb/MMcf		0.00	
PM	7.6000E+00	lb/MMcf		0.00	PM	7.6000E+00	lb/MMcf		0.00	
SOx	6.0000E-01	lb/MMcf		0.00	SOx	6.0000E-01	lb/MMcf		0.00	
NOx	1.4000E+02	lb/MMcf		0.00	NOx	1.4000E+02	lb/MMcf		0.00	
VOC	5.5000E+00	lb/MMcf		0.00	VOC	5.5000E+00	lb/MMcf		0.00	
CO	8.4000E+01	lb/MMcf		0.00	CO	8.4000E+01	lb/MMcf		0.00	
Emission Point 113					Emission Point 113					
Units 1 & 2 Emergency Generator					Units 1 & 2 Emergency Generator					
Actual Throughput	0.61 1000 gal				Actual Throughput	0.61 1000 gal				
Pollutant	Emission Factor	Units	Control Eff	Tons/Yr	Pollutant	Emission Factor	Units	Control Eff	Tons/Yr	
PM10	4.2500E+01	lb/1000 gal		0.01	PM10	4.2500E+01	lb/1000 gal		0.01	
PM	4.2500E+01	lb/1000 gal		0.01	PM	4.2500E+01	lb/1000 gal		0.01	
SOx	3.9700E+01	lb/1000 gal		0.01	SOx	3.9700E+01	lb/1000 gal		0.01	
NOx	6.0400E+02	lb/1000 gal		0.18	NOx	6.0400E+02	lb/1000 gal		0.18	
VOC	4.9300E+01	lb/1000 gal		0.02	VOC	4.9300E+01	lb/1000 gal		0.02	
CO	1.3000E+02	lb/1000 gal		0.04	CO	1.3000E+02	lb/1000 gal		0.04	

Emission Point 114  
 Units 3 Emergency Generator  
 Actual Throughput 0.59 1000 gal % sulfur 0.5

Pollutant	Emission Factor	Units	Control Eff	Tons/Yr
PM10	8.5400E+00	lb/1000 gal		0.00
PM	8.5400E+00	lb/1000 gal		0.00
SOx	1.4100E+02	lb/1000 gal x S		0.02
NOx	9.7700E+01	lb/1000 gal		0.03
VOC	2.3800E+00	lb/1000 gal		0.00
CO	6.7200E+00	lb/1000 gal		0.00

114	
Pollutant	Tons/Yr
PM10	0.00
PM	0.00
SOx	0.02
NOx	0.03
VOC	0.00
CO	0.00

Emission Point 119A  
 1 & 2 flyash silo bag filter  
 Actual Throughput 22,815.00 ton  
 EF from 30501107 - Table 11.12-2 Controlled  
 Concrete Unloading to Elevated Silo

Pollutant	Emission Factor	Units	Control Eff	Tons/Yr
PM10	3.4000E-04	lb/ton	0.00	0.00
PM	9.9000E-04	lb/ton	0.00	0.01

119A	
Pollutant	Tons/Yr
PM10	0.00
PM	0.01

Emission Point 119B  
 1 & 2 flyash silo bin vent filter  
 Actual Throughput 22,815.00 ton  
 EF from 30501107 - Table 11.12-2 Controlled  
 Concrete Unloading to Elevated Silo

Pollutant	Emission Factor	Units	Control Eff	Tons/Yr
PM10	3.4000E-04	lb/ton	0.00	0.00
PM	9.9000E-04	lb/ton	0.00	0.01

119B	
Pollutant	Tons/Yr
PM10	0.00
PM	0.01