

Gaseous Pollutant Emissions

Year	Month	Max NOx (ppm)	Max SO2 (ppm)	Max Prod (m ton/day)
2003	Jan	0	0	0
2003	Feb	1489	360	1245
2003	Mar	1485	153	1175
2003	April	1879	172	1098
2003	May	1862	403	1203
2003	June	1870	241	1134
2003	July	1889	461	1236
2003	August	1834	405	1198
2003	Sept	1720	369	1170
2003	Oct	1844	495	1154
2003	Nov	1869	385	1240
2003	Dec	1974	121	1203
2004	Jan	1637	0	0
2004	Feb	1769	156	1127
2004	Mar	2082	313	1141
2004	April	2012	494	1207
2004	May	1901	339	1232
2004	June	1821	268	1202
2004	July	1980	386	1292
2004	August	1892	473	1139
2004	Sept	2254	511	1106
2004	Oct	2089	538	1157
2004	Nov	2087	493	1162
2004	Dec	1954	63	1244
2005	Jan	1902	0	0
2005	Feb	1097	88	853
2005	Mar	1872	102	1043
2005	April	1475	394	1036
2005	May	1650	251	1089
2005	June	2053	562	1084
2005	July	2100	215	1107
2005	August	1825	935	1042
2005	Sept	1913	363	1137
2005	Oct	1819	202	1010
2005	Nov	2005	185	1069
2005	Dec	1139	13	1017
Maximum		2254	935	1292
Second Max		2100	562	
Third Max		2089	538	
Average		1779	303	1043
Median			360	

Particulate Emissions

10/21/2003 Source test	
Airflow =	80726 dscf/min
Airflow =	123176 acfm
Velocity =	9.96 fps
Production =	1131 mton/day
Airflow/Ton =	102795 dscf/mton
Stack Temp =	348.7 degree F
Particulate =	0.013 gr/dscf
PM Mass Emissions =	9.00 lb/hr
PM Emission Factor =	0.190905 lb/mton
Back-half metals	0.005 lb/hr
Max Daily PM Mass Emiss =	9.901823 lb/hr
10/29/2004 Source test	
Airflow =	98710 dscf/min
Airflow =	151399 acfm
Velocity =	12.24 fps
Production =	945 mton/day
Airflow/Ton =	150464.2 dscf/mton
Stack Temp =	353 degree F
Particulate =	0.050 gr/dscf
PM Mass Emissions =	42.30 lb/hr
PM Emission Factor =	1.074744 lb/mton
Max Daily PM Mass Emiss =	57.84114 lb/hr
11/22/2005 Source test	
Airflow =	85395 dscf/min
Airflow =	124773 acfm
Velocity =	10.09 fps
Production =	767 mton/day
Airflow/Ton =	160280.8 dscf/mton
Stack Temp =	314 degree F
Particulate =	0.016 gr/dscf
PM Mass Emissions =	12.00 lb/hr
PM Emission Factor =	0.375515 lb/mton
Max Daily PM Mass Emiss =	17.78357 lb/hr
Stack Diameter =	16 ft
Stack Area =	206 ft2
Average Velocity =	10.76 ft/sec
Average Velocity =	3.28 m/sec
Average Temp =	338.67 F
Average Temp =	443.52 K

Gaseous Pollutant Emission Calculations

NOx =	2.69E-04 lb/scf	max daily ppm - 9/04
Assumed Flow =	5.92E+06 dscf/hr	2004 test
NOx Max Mass Emissions =	1595 lb/hr	
NOx Max Emission Factor =	35 lb/mton	
NOx =	2.12E-04 lb/scf	Average of all 3 years
Assumed Flow =	5.92E+06 dscf/hr	2004 test
NOx Max Mass Emissions =	1259 lb/hr	
NOx Max Emission Factor =	35 lb/mton	
SO2=	9.34E-05 lb/scf	2nd max daily ppm - 6/05
Assumed Flow =	5.12E+06 dscf/hr	2005 test
SO2 Max Mass Emissions =	479 lb/hr	
SO2 Max Emission Factor =	11 lb/mton	
SO2=	5.98E-05 lb/scf	Average of all 3 years
Assumed Flow =	5.12E+06 dscf/hr	2005 test
SO2 Max Mass Emissions =	307 lb/hr	
SO2 Max Emission Factor =	7 lb/mton	

Blue shaded calculations added by ARN

31.38 lb/ston

10.00 lb/ston