

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 3149

This table lists the maximum allowable emission rates and all sources of air contaminants on the applicant's property covered by this permit. The emission rates shown are those derived from information submitted as part of the application for permit and are the maximum rates allowed for these facilities. Any proposed increase in emission rates may require an application for a modification of the facilities covered by this permit.

## AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY**
1	Scrubber Stack	CO	18.40	80.50
		H <sub>2</sub> SO <sub>4</sub>	3.54	15.51
		NO <sub>x</sub>	18.00	65.70
		Pb	0.18	0.79
		PM <sub>10</sub>	3.60	15.90
		SO <sub>2</sub> (6)	275.00	
		SO <sub>2</sub>	400.00	1005.00
		VOC	1.02	4.48
		VOC (5)	60.14	17.14
2	No. 1 Sulfite Storage Tank	NaHSO <sub>3</sub> /Na <sub>2</sub> SO <sub>3</sub> /SO <sub>2</sub>	2.20	
3	No. 2 Sulfite Storage Tank	NaHSO <sub>3</sub> /Na <sub>2</sub> SO <sub>3</sub> /SO <sub>2</sub>	2.20	
4	No. 3 Sulfite Storage Tank	NaHSO <sub>3</sub> /Na <sub>2</sub> SO <sub>3</sub> /SO <sub>2</sub>	2.20	
5	No. 19 Sulfite Storage Tank	NaHSO <sub>3</sub> /Na <sub>2</sub> SO <sub>3</sub> /SO <sub>2</sub>	2.20	
	Annual Tank Emission Cap	NaHSO <sub>3</sub> /Na <sub>2</sub> SO <sub>3</sub> /SO <sub>2</sub>		0.81
FUG	Process Piping Fugitives (4)	VOC	1.31	5.73
6	SBS (Sodium Bisulfite) Scrubber	NaHSO <sub>3</sub> /Na <sub>2</sub> SO <sub>3</sub> /SO <sub>2</sub>	0.44	0.08
6MSS	SBS Scrubber MSS Emissions	NaHSO <sub>3</sub> /Na <sub>2</sub> SO <sub>3</sub> /SO <sub>2</sub>	4.40	0.37
MSSFUG	Miscellaneous Maintenance Activities	PM <sub>10</sub>	0.13	0.01
		VOC	74.5	0.23

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0.1  
0.01

7	MSS Tank Vent Scrubber	SO <sub>2</sub>	0.30	0.85
		VOC	0.10	0.28

- (1) Emission point identification - either specific equipment designation or emission point number from a plot plan.
- (2) Specific point source names. For fugitive sources, use an area name or fugitive source name.
- (3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
- NO<sub>x</sub> - total oxides of nitrogen
- SO<sub>2</sub> - sulfur dioxide
- Pb - lead
- PM - particulate matter, suspended in the atmosphere, including PM<sub>10</sub> and PM<sub>2.5</sub>
- PM<sub>10</sub> - particulate matter equal to or less than 10 microns in diameter
- PM<sub>2.5</sub> - particulate matter equal to or less than 2.5 microns in diameter
- CO - carbon monoxide
- H<sub>2</sub>SO<sub>4</sub> - sulfuric acid mist
- NaHSO<sub>3</sub> - sodium bisulfite
- Na<sub>2</sub>SO<sub>3</sub> - sodium sulfite
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) 6,760 hours per year of VOC emitting from Storage Tank Nos. 7, 8, 11, and 14 without furnace combustion.
- (6) Monthly average SO<sub>2</sub> emissions from this emission point number.

\* Emission rates are based on and the facilities are limited by the following maximum operating schedule:

24 Hrs/day 7 Days/week 52 Weeks/year or 8,760 Hrs/year

\*\* Compliance with annual emission limits is based on a rolling 12-month period.

Dated August 23, 2011