

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, sources, and related activities. 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)	Emission Rates	
			lbs/hour	TPY (4)
1	Scrubber Stack	CO	14.40	63.07
		H ₂ SO ₄	3.16	13.84
		NO _x	18.00	65.70
		Pb	0.19	0.83
		PM	0.03	0.13
		PM ₁₀	0.03	0.13
		PM _{2.5}	0.03	0.13
		SO ₂	86.90	380.00
		VOC (furnace firing only)	0.43	1.89
		VOC(5) (storage tanks 7,8,14, venting 6,760 hours per year)	1.67	5.64
6	SBS (Sodium Bisulfite) Scrubber	SO ₂ (6)	0.01	0.01
6MSS	SBS Scrubber MSS Emissions	SO ₂ (6)	0.10	0.01
MSSFUG	Miscellaneous Maintenance Activities	PM	0.13	0.01
		PM ₁₀	0.13	0.01
		PM _{2.5}	0.13	0.01
		VOC	74.5	0.23
7	MSS Tank Vent Scrubber	SO ₂	0.30	0.85
		VOC	0.10	0.28

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9	Soda Ash Unloading	PM	0.01	0.01
		PM ₁₀ (as Na ₂ CO ₃)	0.01	0.01
		PM _{2.5} (as Na ₂ CO ₃)	0.01	0.01
10	Sulfur Storage Pit	H ₂ S	0.44	0.09
11	Sulfur Storage Tank	H ₂ S	0.02	0.08

- (1) Emission point identification - either specific equipment designation or emission point number from plot plan.
- (2) Specific point source name. For fugitive sources, use area name or fugitive source name.
- (3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
- NO_x - total oxides of nitrogen
- SO₂ - sulfur dioxide
- PM - total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}, as represented
- PM₁₀ - total particulate matter equal to or less than 10 microns in diameter, including PM_{2.5}, as represented
- PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter
- CO - carbon monoxide
- H₂S - hydrogen sulfide
- H₂SO₄ - sulfuric acid
- Na₂CO₃ - sodium carbonate
- (4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
- (5) 6,760 hours per year of VOC emitting from Storage Tank Nos. 7, 8, and 14 without furnace combustion.
- (6) Includes emissions from SBS Tanks 701, 702, 704, 706, and 707.

Date: September 26, 2017