

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 2507A

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)	Emission Rates*	
			lb/hr	TPY**

SOURCES NOT AFFECTED BY THE PROJECT PHASES:

45FUG	Amine Unit Fugitives (4)	VOC	0.32	1.39
		H ₂ S	0.15	0.66
45AFUG	SWS Unit Fugitives (4)	VOC	0.01	0.01
		H ₂ S	0.04	0.19
		NH ₃	0.03	0.14
45GG2062	Compressor Engine	VOC	0.25	1.08
		NO _x	4.63	20.26
		CO	6.94	30.39
		SO ₂	0.01	0.03
		PM ₁₀	0.16	0.71
91FB922	Sour Water Tank	VOC	0.45	0.43

PHASE ONE (5):

46CB6301A	Tail Gas Incinerator	VOC	0.16	0.35
		H ₂ S	0.47	2.06
		NH ₃	0.01	0.01
		NO _x	3.47	15.20
		CO	8.45	37.00
		SO ₂	60.59	263.09
		PM ₁₀	0.06	0.28
46FUG	SRU Unit Fugitives (4)	VOC	0.39	1.72
		H ₂ S	0.01	0.02
		NH ₃	0.01	0.01

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates*</u>	
			lb/hr	TPY**
45FB6001	Fresh Amine Storage	VOC	0.01	0.01
45FB6002	Process Amine Storage	VOC	0.01	0.01
90FB808	Process Amine Storage	VOC	0.01	0.01
46FB6360	Process MDEA Storage	VOC	0.01	0.01
<u>PHASE TWO (5):</u>				
46CB6301A	Tail Gas Incinerator	VOC	0.18	0.42
		H ₂ S	0.62	2.71
		NH ₃	0.01	0.01
		NO _x	4.57	20.03
		CO	11.10	48.63
		SO ₂	79.34	345.31
		PM ₁₀	0.09	0.37
46FUG	SRU Unit Fugitives (4)	VOC	0.78	3.43
		H ₂ S	0.01	0.04
		NH ₃	0.01	0.03
45FB6001	Fresh Amine Storage	VOC	0.01	0.01
45FB6002	Process Amine Storage	VOC	0.01	0.01
90FB808	Process Amine Storage	VOC	0.01	0.01
46FB6360	Process MDEA Storage	VOC	0.01	0.01

(1) Emission point identification - either specific equipment designation or emission point number

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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
- H₂S - hydrogen sulfide
- NH₃ - ammonia
- NO_x - total oxides of nitrogen
- CO - carbon monoxide
- SO₂ - sulfur dioxide
- PM₁₀ - particulate matter (PM) equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no particulate matter greater than 10 microns in emitted.
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) Prior to the conclusion of Phase One construction, Valero shall operate under the MAERT and Special Conditions of the previous version of this permit. Phase One emissions are the emissions at the conclusion of Phase One construction. Phase Two emissions are the emissions at the conclusion of Phase Two construction, and the final emission rates for the sources that are affected by the construction.
- * 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 Hrs/year

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

Date November 19, 2004