

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Numbers 18838 and PSD-TX-843

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**
EH-31	Heater B-301	NO _x	0.79	3.45
		SO _x	<0.01	0.02
		CO	0.16	0.69
		VOC	0.04	0.18
		PM ₁₀	0.04	0.17
EH-9201	Reboiler B-9201	NO _x	7.23	17.34
		SO _x	0.09	0.23
		CO	2.89	7.71
		VOC	0.20	0.54
		PM ₁₀	0.72	1.93
EH-9301	Heater B-9301	NO _x	4.48	12.42
		SO _x	0.05	0.16
		CO	1.79	5.52
		VOC	0.25	0.77
		PM ₁₀	0.45	1.38
EH-9400	Reboiler B-9400	NO _x	2.75	7.75
		SO _x	0.03	0.10
		CO	1.10	3.44
		VOC	0.15	0.48
		PM ₁₀	0.28	0.86
EH-9401	Reboiler B-9401	NO _x	15.32	46.43
		SO _x	0.18	0.69
		CO	6.13	23.21
		VOC	0.43	1.64
		PM ₁₀	1.53	5.80

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
TPY**			lb/hr	
EH-9402	Reboiler B-9402	NO _x	2.79	5.91
		SO _x	0.03	0.08
		CO	1.12	2.63
		VOC	0.16	0.37
		PM ₁₀	0.28	0.66
EH-9601	Flare Paraxylene Unit	VOC	17.11	8.76
		NO _x	10.64	3.81
		CO	54.22	19.40
		SO ₂	1.10	0.34
EH-9602	Wharf Loading VCS	VOC	14.78	4.05
		NO _x	7.40	16.21
		CO	2.30	5.04
ET-34	Reformate Storage Tank	VOC	1.04	2.19
EH-9603	Wharf Tank Farm Thermal Oxidizer	VOC	0.86	3.48
		NO _x	0.20	0.88
		CO	0.08	0.36
		SO ₂	0.01	<0.01
		PM ₁₀	0.26	1.14
EM-9601	Cooling Tower M-9601	VOC	0.50	2.21
EM-2	Cooling Tower No. 2	VOC	0.63	2.76
EM-37***	Carbon Adsorption System	VOC	0.41****	0.12
EM-38	Carbon Adsorption System	VOC		-----
EF-3	Fugitives (4)	VOC	8.83	38.60
EF-4	Fugitives (4)	VOC	1.39	6.10

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<u>TPY**</u>			lb/hr	
EF-6	Fugitives (4)	VOC	0.46	2.00
EF-9	Fugitives (4)	VOC	8.06	35.30
EF-10	Fugitives (4)	VOC	2.44	10.70
EF-11	Fugitives (4)	VOC	2.21	9.70
EF-17	Fugitives (4)	VOC	0.28	1.24
EH-9604	Refinery Tank Farm Thermal Oxidizer	VOC	0.35	1.41
		NO _x	0.20	0.88
		CO	0.03	0.12
		PM ₁₀	0.10	0.44
		SO ₂	0.01	<0.01

- (1) Emission point identification - either specific equipment designated or emission point number from plot plan.
- (2) Specific point source name. For fugitive sources use area name or fugitive source name.
- (3) PM₁₀ - particulate matter (PM) equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no PM greater than 10 microns is emitted.
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
NO_x - total oxides of nitrogen
SO_x - sulfur oxides
SO₂ - sulfur dioxide
CO - carbon monoxide
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

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

Hrs/day_____Days/week_____Weeks/year_____ or Hrs/year 8,760

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<u>TPY**</u>			

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

*** Emission allowables shown for EPN EM-37 are actually the sum of emissions from EM-37 and EM-38.

**** For a frequency of four hours per year, an emission rate of 4.3 lb/hr is authorized for EM-37 and EM-38.

Dated November 6, 2003