

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Numbers 18838 and PSDTX843

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**
AH-PXP-1N	Analyzer Vent	VOC	0.01	0.01
AH-PXP-1S	Analyzer Vent	VOC	0.01	0.01
DG-1	Aromatics Degreaser No. 1	VOC	0.15	0.65
DG-2	Aromatics Degreaser No. 2	VOC	0.15	0.65
DG-3	Aromatics Degreaser No. 3	VOC	0.15	0.65
DG-5	Aromatics Degreaser No. 5	VOC	0.15	0.65
EH-31	Heater B-301	CO	0.67	2.92
		NO _x	0.79	3.48
		PM ₁₀	0.06	0.26
		SO ₂	0.01	0.02
		VOC	0.04	0.19
EH-37	No. 2 Lift Station Middle (330 hours per year)	CO	1.15	0.19
		NO _x	1.75	0.29
		PM ₁₀	0.01	0.01
		SO ₂	0.01	0.01
		VOC	0.25	0.04
EH-37A	No. 2 Lift Station North (100 hours per year)	CO	1.26	0.06
		NO _x	1.92	0.10
		PM ₁₀	0.01	0.01
		SO ₂	0.01	0.01
		VOC	0.27	0.02

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EH-39	Emergency Fire Water Pump (26 hours per year)	CO	2.34	0.03
		NO _x	10.85	0.14
		PM ₁₀	0.77	0.01
		SO ₂	0.72	0.01
		VOC	0.88	0.01
EH-40	Emergency Fire Water Pump (26 hours per year)	CO	2.54	0.03
		NO _x	11.78	0.15
		PM ₁₀	0.84	0.01
		SO ₂	0.78	0.01
		VOC	0.95	0.01
EH-57	Emergency Fire Water Pump (26 hours per year)	CO	3.49	0.05
		NO _x	16.18	0.21
		PM ₁₀	1.15	0.01
		SO ₂	1.07	0.01
		VOC	1.31	0.02
EH-9201	Reboiler B-9201	CO	2.89	7.71
		NO _x (7)	7.23	17.34
		PM ₁₀	0.72	1.93
		SO ₂	0.09	0.23
		VOC	0.20	0.54
EH-9301	Heater B-9301	CO	1.79	5.52
		NO _x (7)	4.48	12.42
		PM ₁₀	0.45	1.38
		SO ₂	0.05	0.16
		VOC	0.25	0.77
EH-9400	Reboiler B-9400	CO	1.10	3.44
		NO _x (7)	2.75	7.75
		PM ₁₀	0.28	0.86
		SO ₂	0.03	0.10
		VOC	0.15	0.48

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EH-9401	Reboiler B-9401	CO	6.13	23.21
		NO _x (7)	15.32	46.43
		PM ₁₀	1.53	5.80
		SO ₂	0.18	0.69
		VOC	0.43	1.64
EH-9402	Reboiler B-9402	CO	1.12	2.63
		NO _x (7)	2.79	5.91
		PM ₁₀	0.28	0.66
		SO ₂	0.03	0.08
		VOC	0.16	0.37
EH-9601	Flare Paraxylene Unit (Normal Operation Only)	CO	1.57	6.86
		NO _x	0.31	1.35
		SO ₂	0.02	0.08
		VOC	1.12	4.92
	Wharf Tank Farm Control (460 hours per year) (11)	CO	52.68	12.10
		NO _x	10.34	2.37
		SO ₂	1.09	0.25
		VOC	15.99	3.67
	Wharf Loading Control (672 hours per year) (12)	CO	102.90	34.58
		NO _x	19.98	6.71
		SO ₂	0.16	0.05
		VOC	55.15	18.53
EH-9602	Wharf Loading VCS	CO	2.30	5.04
		NO _x	7.40	16.21
		VOC	13.79	11.75
EH-9603	Wharf Tank Farm Thermal Oxidizer	CO	0.35	1.55
		NO _x	0.20	0.88
		PM ₁₀	0.26	1.14
		SO ₂	0.01	0.01
		VOC	0.86	3.48

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EH-9604	Refinery Tank Farm Thermal Oxidizer	CO	0.12	0.53
		NO _x	0.20	0.88
		PM ₁₀	0.10	0.44
		SO ₂	0.01	0.01
		VOC	0.31	1.34
EH-9616	Emergency Fire Water Pump (876 hours per year)	CO	3.65	0.05
		NO _x	16.93	0.22
		PM ₁₀	1.20	0.02
		SO ₂	1.12	0.01
		VOC	1.37	0.02
EM-2	Cooling Tower No. 2	VOC	0.63	2.76
EM-37	Carbon Adsorption System	VOC (5)	4.30	0.01
		VOC (6) (8)	0.41	0.12
EM-38	Carbon Adsorption System	VOC (5)	4.30	0.01
		VOC (6) (8)	0.41	0.12
EM-9601	Cooling Tower M-9601	VOC	0.50	2.21
ET-4	Sulfuric Acid Storage Tank	H ₂ SO ₄	0.01	0.01
ET-34	Reformate Storage Tank	VOC	0.81	1.05
ET-79	Sulfuric Acid Storage Tank	H ₂ SO ₄	0.01	0.01
ET-1201	Diesel Storage Tank	VOC	0.26	0.01
ET-9621	Diesel Storage Tank	VOC	0.26	0.01
EF-3	Process Fugitives (4)	VOC	0.62	2.70
EF-4	Process Fugitives (4)	VOC	0.16	0.72
EF-6	Process Fugitives (4)	VOC	0.27	1.19
EF-9	Process Fugitives (4)	VOC	1.35	5.90

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EF-10	Process Fugitives (4)	VOC	0.26	1.12
EF-11	Process Fugitives (4)	VOC	0.08	0.33
EF-17	Process Fugitives (4)	VOC	0.29	1.26
EF-17 (9)	Process Fugitives (4)	VOC (10)	0.01	0.01
		Toluene	0.01	0.01
		Xylenes	0.01	0.01
EF-19	Process Fugitives (4)	VOC	0.01	0.02

- (1) Emission point identification - either specific equipment designation or emission point number (EPN) 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_x - total oxides of nitrogen
- SO₂ - sulfur dioxide
- PM - particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}
- PM₁₀ - particulate matter equal to or less than 10 microns in diameter
- PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter
- CO - carbon monoxide
- H₂SO₄ - sulfuric acid
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) Four hours per year from EPNs EM-37 and EM-38 is allowed.
- (6) Emission allowables shown for EPNs EM-37 and EM-38 do not emit at the same time during planned maintenance activities.
- (7) PSDTX843 pollutant.
- (8) See Special Condition No. 21, 568 hours per rolling 12-month period.
- (9) Reference Permit by Rule Registration Number 84067.
- (10) Total VOC.
- (11) See Special Condition No. 19, 460 hours per rolling 12-month period.
- (12) See Special Condition No. 20, 672 hours per rolling 12-month period.

* 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.

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Dated: July 19, 2010