

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 20807

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**
1A	Preheater/Incinerator	SO ₂	10.47	44.77
		NO _x	3.43	15.03
		CO	3.16	13.79
		VOC	13.92	10.64
		PM/PM ₁₀	4.11	3.89
		H ₂ S	0.28	1.25
		HAP	0.06	0.28
3	Boiler (5)	PM/PM ₁₀	0.05	0.23
		NO _x	0.68	3.00
		SO ₂	<0.01	0.02
		CO	0.57	2.51
		VOC	0.04	0.16
		HAPs	0.01	0.06
29	Loading Rack Fugitives (4)(6)	PM/PM ₁₀	0.09	0.08
		CO	0.03	0.12
		VOC	0.32	0.28
		H ₂ S	0.01	0.06
30	Loading Rack Fugitives (4)(6)	PM/PM ₁₀	0.09	0.08
		CO	0.03	0.12
		VOC	0.32	0.28
		H ₂ S	0.01	0.06
31	BD Oil Loading (4)	VOC	16.87	0.26
33	Asphalt Solvent Cold Cleaner (4)	VOC	0.08	0.33

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8	Tank 5 Heater (5)	PM/PM ₁₀	0.01	0.03
		NO _x	0.08	0.34
		SO ₂	<0.01	<0.01
		CO	0.07	0.29
		VOC	<0.01	0.02
		HAPs	<0.01	0.01
10	Tank 100 Heater (5)	PM/PM ₁₀	0.01	0.05
		NO _x	0.15	0.64
		SO ₂	<0.01	<0.01
		CO	0.12	0.54
		VOC	0.01	0.04
		HAPs	<0.01	0.01
12	Tank 202 Heater (5)	PM/PM ₁₀	0.01	0.05
		NO _x	0.15	0.64
		SO ₂	<0.01	<0.01
		CO	0.12	0.54
		VOC	0.01	0.04
		HAPs	<0.01	0.01
63	Tank 401A Heater (5)	PM/PM ₁₀	0.01	0.05
		NO _x	0.15	0.64
		SO ₂	<0.01	<0.01
		CO	0.12	0.54
		VOC	0.01	0.04
		HAPs	<0.01	0.01
64	Tank 401B Heater (5)	PM/PM ₁₀	0.01	0.05
		NO _x	0.15	0.64
		SO ₂	<0.01	<0.01
		CO	0.12	0.54
		VOC	0.01	0.04
		HAPs	<0.01	0.01
65	Tank 402A Heater (5)	PM/PM ₁₀	0.01	0.05
		NO _x	0.15	0.64
		SO ₂	<0.01	<0.01
		CO	0.12	0.54
		VOC	0.01	0.04

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66	Tank 402B Heater (5)	HAPs	<0.01	0.01
		PM/PM ₁₀	0.01	0.05
		NO _x	0.15	0.64
		SO ₂	<0.01	<0.01
		CO	0.12	0.54
		VOC	0.01	0.04
		HAPs	<0.01	0.01

- (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_x - total oxides of nitrogen
- SO₂ - sulfur dioxide
- PM - particulate matter, suspended in the atmosphere, including PM₁₀
- PM₁₀ - particulate matter equal to or less than 10 microns in diameter
- CO - carbon monoxide
- H₂S - hydrogen sulfide
- HAP - any air contaminant (pollutant) listed in § 112(b) of the Federal Clean Air Act or Title 40 Code of Federal Regulations Part 63, Subpart C
- (4) Fugitive emissions are an estimate only.
- (5) Hazardous air pollutant (HAP) emissions are included in the PM and VOC allowable emission rates, and the speciated values are reflected on the Table 1(a)s submitted with the permit amendment application. When a HAP compound hourly emission rate exceeded 0.04 pound per hour, the compound and its emission rate were listed on the maximum allowable emission rates table; however, the HAP compound emissions are also included in the PM and VOC emission rates.
- (6) Emission rates are the sum of the emissions for all the listed emission points.

* 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 and on the following maximum throughputs for unoxidized asphalt as well as equipment operating parameters:

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Asphalt Unloading: <u>108</u> tons per hour	<u>153,071</u> tons per year
Asphalt Loading Racks***: <u>54</u> tons per hour	<u>96,150</u> tons per year

***The hourly and annual throughputs for the asphalt loading racks are for each loading rack at the plant site.