

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 9914

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		Air Contaminant		<u>Emission Rates *</u>	
	Name (2)	Name (3)	lb/hr	TPY		
H-1	No. 1 Crude Heater			VOC	1.2	5.2
				NOx	34.0	149.0
				SO2	10.8	47.3
				PM	2.8	12.4
				CO	8.0	34.9
H-2	No. 1 Vacuum Heater			VOC	0.2	1.0
				NOx	6.2	27.2
				SO2	2.0	8.5
				PM	0.5	2.3
				CO	1.5	6.4
H-3	Naphtha Heater			VOC	0.2	0.8
				NOx	5.2	22.7
				SO2	1.6	7.1
				PM	0.4	1.9
				CO	1.2	5.3
H-4	Asphalt Tank Heater			VOC	0.03	0.1
				NOx	2.4	10.6
				SO2	0.3	1.2
				PM	0.1	0.3
				CO	0.2	0.9
H-5	PDA Asphalt Heater			VOC	0.03	0.1
				NOx	2.4	10.6
				SO2	0.3	1.2
				PM	0.1	0.3
				CO	0.2	0.9
H-6	PDA Gas Oil Heater			VOC	0.1	0.6

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *		
			lb/hr	TPY	
			NOx	4.0	17.4
			SO2	1.2	5.5
			PM	0.3	1.4
			CO	0.9	4.1
H-9	No. 2 Crude Heater		VOC	0.2	0.8
			NOX	5.2	22.6
			SO2	1.6	7.1
			PM	0.4	1.9
			CO	1.2	5.3
H-11	No. 2 Crude Heater		VOC	0.3	1.1
			NOx	7.2	31.7
			SO2	2.3	10.0
			PM	0.6	2.6
			CO	1.7	7.4
H-26	No. 2 Vacuum Heater		VOC	0.3	1.1
			NOx	7.4	32.4
			SO2	2.3	10.2
			PM	0.6	2.7
			CO	1.7	7.6
H-40	PDA Asphalt Heater		VOC	0.2	0.9
			NOx	6.0	26.3
			SO2	1.9	8.3
			PM	0.5	2.2
			CO	1.4	6.2
H-41	No. 2 Crude Heater		VOC	0.9	4.0
			NOx	26.3	115.4
			SO2	4.1	18.2
			PM	2.2	9.6
			CO	6.2	27.0

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY
H-44	No. 2 Vacuum Heater	VOC	0.1	0.4
		NOx	2.9	12.5
		SO2	0.4	2.0
		PM	0.2	1.0
		CO	0.7	2.9
S-1	Storage Tank 120M1	VOC	4.6	12.2
S-2	Storage Tank 133	VOC	3.6	8.7
S-6	Storage Tank 157	VOC	4.5	11.7
S-9	Storage Tank 1003	VOC	2.9	6.9
S-10	Storage Tank 1501	VOC	3.6	8.4
S-11	Storage Tank 1502	VOC	4.3	8.4
S-12	Storage Tank 3001	VOC	3.2	7.9
S-13	Storage Tank 3002	VOC	3.6	8.7
S-14	Storage Tank 6701	VOC	4.1	11.1
S-15	Storage Tank 6702	VOC	4.4	11.7
S-21	Storage Tank 101	VOC	4.1	10.7
S-22	Storage Tank 120M2	VOC	3.0	7.4
S-143	Storage Tank 5505	VOC	3.7	9.6
S-144	Storage Tank 5504	VOC	3.7	9.6
V-5	No. 1 SRU Incinerator	SO2	295	1292

V-12	No. 1 Vacuum Unit Vent	VOC	45.8	200.8
E-5	PDA Solvent Comp. Engine	VOC	0.7	3.2
		NOx	23.4	102.5
		SO2	0.01	0.03
		PM	0.1	0.3
		CO	3.0	13.0
	Fugitives (4)	VOC		341.8
FL-1	Emergency Flare	**	**	**

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- (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 General Rule 101.1
NOx - total oxides of nitrogen
SO2 - sulfur dioxide
PM - particulate matter
CO - carbon monoxide
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

** For emergency use only.

* 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

Dated _____