

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 3663

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
EPN-013	156 Unit Flare (6)	VOC	1.87	0.12
		CO	0.43	0.02
		NO <sub>x</sub>	0.08	0.01
FI-02	177 Unit Incinerator (7) <0.01	VOC		0.03
		NO <sub>x</sub>	0.05	0.01
		CO	<0.01	<0.01
S-41	PR0-1 Scrubber	VOC	3.51	0.11
SC-D-31	D-31 Scrubber	NaHS	0.01	0.01
		Na <sub>2</sub> S	0.01	0.01
		Na <sub>2</sub> CO <sub>3</sub>	0.01	0.01
M-1	Tank	VOC	0.01	<0.01
M-2	Tank	VOC	0.59	0.01
D-90	Tank	VOC	4.77	0.63
D-91	Tank	VOC	5.22	0.27
EQW-3	Tank	VOC	11.29	0.01
P-36	Tank	VOC	0.23	1.94
D-3 FUG	Fugitives (4)	VOC	0.02	0.11

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			lb/hr	TPY
M-1 FUG	Fugitives (4)	VOC	0.02	0.08
M-2 FUG	Fugitives (4)	VOC	0.02	0.08
SA-1 FUG	Fugitives (4)	VOC	0.02	0.07
D-6 FUG	Fugitives (4)	VOC	0.02	0.11
SA-2 FUG	Fugitives (4)	VOC	0.02	0.07
SA-3 FUG	Fugitives (4)	VOC	0.02	0.07
SA-4 FUG	Fugitives (4)	VOC	0.02	0.07
D-90 FUG	Fugitives (4)	VOC	0.08	0.34
D-91 FUG	Fugitives (4)	VOC	0.03	0.12
EQW-3 FUG	Fugitives (4)	VOC	0.01	0.05
P-36 FUG	Fugitives (4)	VOC	0.03	0.12
PRO-1 FUG	Fugitives (4)	VOC	0.01	0.06
D-31 FUG	Fugitives (4)	NaHS, Na <sub>2</sub> S, Na <sub>2</sub> CO <sub>3</sub>	0.02	0.11
Boiler No. 4	Plant Boiler No. 4 (5)	CO	2.55	11.15
		NO <sub>x</sub>	10.10	44.23
		PM	0.40	1.76
		VOC	0.23	0.99
		SO <sub>2</sub>	0.05	0.22
Boiler No. 5	Plant Boiler No. 5 (5)	VOC	0.22	0.98

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Emission *	Source	Air Contaminant	<u>Emission Rates</u>	
<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>	<u>TPY</u>
		NO <sub>x</sub>	13.81	60.50
		CO	31.69	128.52
		SO <sub>2</sub>	0.10	0.40
		PM	0.80	3.23

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Emission *	Source	Air Contaminant	<u>Emission Rates</u>	
<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>	<u>TPY</u>
Boiler No. 6	Plant Boiler No. 6 (5)	CO	1.20	5.25
		SO <sub>2</sub>	0.06	0.26
		VOC	0.28	1.21
		PM	0.49	2.14
		NO <sub>x</sub>	10.89	47.69

- (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)
  - PM - particulate matter
  - VOC - volatile organic compounds as defined in General Rule 101.1
  - NO<sub>x</sub> - total oxides of nitrogen
  - SO<sub>2</sub> - sulfur dioxide
  - CO - carbon monoxide
  - NaHS - sodium hydrosulfide
  - Na<sub>2</sub>S - sodium sulfide
  - Na<sub>2</sub>CO<sub>3</sub> - sodium carbonate
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) The combined annual emissions from these sources shall not exceed 76.88 TPY NO<sub>x</sub>, 128.52 TPY CO, 0.4 TPY SO<sub>2</sub>, 3.23 TPY PM, and 1.85 TPY VOC.
- (6) Listed flare emissions represent those generated through the combustion of waste gases associated with the operation of the SA-1, SA-2, SA-3, and SA-4 Storage Tanks.
- (7) Listed incinerator emissions represent those generated through the combustion of waste gases associated with the operating of Storage Tanks D-3 and D-6.

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

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<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u> <u>TPY</u>

Hrs/day \_\_\_\_\_ Days/week \_\_\_\_\_ Weeks/year \_\_\_\_\_ or Hrs/year 8,760

Dated \_\_\_\_\_