

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 865A

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
Incinerator	Incinerator	NO <sub>x</sub>	4.6	20.0
		CO	2.25	9.9
		VOC	<0.01	0.024
		SO <sub>2</sub>	139	608
		PM <sub>10</sub>	1.55	6.79
		H <sub>2</sub> S	<0.01	0.02
		Benzene	<0.01	<0.01
		Xylene	<0.01	<0.01
		Toluene	<0.01	<0.01
		Cl <sub>2</sub>	1.0	<0.01
H202	Oil Heater	NO <sub>x</sub>	4.4	19.3
		CO	1.1	4.82
		VOC	0.08	0.37
		SO <sub>2</sub>	3.12	13.68
		SO <sub>3</sub>	0.04	0.19
		PM <sub>10</sub>	0.44	1.93
H202	Oil Heater	NO <sub>x</sub>	4.4	19.3
		CO	1.1	4.82
		VOC	0.08	0.37
		SO <sub>2</sub>	3.12	13.68
		SO <sub>3</sub>	0.04	0.19
		PM <sub>10</sub>	0.44	1.93
H153	Gas Heater	NO <sub>x</sub>	0.15	0.64
		CO	0.04	0.16
		VOC	0.01	0.02
		SO <sub>2</sub>	0.1	0.45
		SO <sub>3</sub>	<0.01	0.01

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		PM <sub>10</sub>	0.01	0.06
D307	Tank D-307	VOC	0.12	0.30
D2307	Tank D-2307	VOC	0.04	0.13

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	lb/hr	<u>Emission Rates *</u> TPY	
D215	Tank D-215	VOC		0.012	<0.01
BMT-1E	Fugitives (4) Train I or II	Carbon Disulfide		0.53	2.32
		Diethyl Sulfide	0.13	0.58	
	Ethyl Mercaptan	Ethyl Mercaptan		0.19	0.82
	Production	Ethylene	0.15	0.65	
		H <sub>2</sub> S		0.14	0.6
		Benzene		<0.01	<0.01
		Xylene		<0.01	<0.01
		Toluene		<0.01	<0.01
BMT-1M	Fugitives (4) Train I - Methyl Mercaptan Production	Carbon Disulfide		0.58	2.52
		Dimethyl Sulfide		0.92	4.05
		Methyl Mercaptan		0.49	2.15
		Methanol		0.15	0.68
		Propane		0.18	0.80
		H <sub>2</sub> S		0.15	0.64
		Benzene		<0.01	<0.01
		Xylene		<0.01	<0.01
		Toluene		<0.01	<0.01
BMT-2	Fugitives (4) Train II - Methyl Mercaptan Production	Carbon Disulfide		0.54	2.38
		Dimethyl Sulfide		0.23	1.01
		Methyl Mercaptan		0.29	1.29
		Methanol		0.013	0.06
		Propane		0.18	0.80
		H <sub>2</sub> S		0.15	0.64
		Benzene		<0.01	<0.01
		Xylene		<0.01	<0.01
		Toluene		<0.01	<0.01

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Fug-Incin	Fugitives (4) Incinerator	VOC	0.23	1.01
WWTP	Wastewater	VOC	<0.01	0.02
Flare	Flare (5) N/A	N/A	N/A	

- (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<sub>10</sub> - particulate matter less than 10 microns  
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  
Cl<sub>2</sub> - chlorine  
SO<sub>3</sub> - sulfur trioxide  
H<sub>2</sub>S - hydrogen sulfide
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) Flare is designed to control plant vents only during emergency operations, maintenance, plant start-ups and plant shutdowns.

\* 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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Dated \_\_\_\_\_