

# Emission Sources - Maximum Allowable Emission Rates

Permit Number 164876

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 a permit and are the maximum rates allowed for these facilities, sources, and related activities. 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	
			lbs/hour	TPY (4)
BOILER-1	Boiler No. 1	VOC	0.12	0.53
		NO <sub>x</sub>	0.72	3.17
		CO	0.85	3.72
		PM	0.17	0.73
		PM <sub>10</sub>	0.17	0.73
		PM <sub>2.5</sub>	0.17	0.73
		SO <sub>2</sub>	0.12	0.06
BOILER-2	Boiler No. 2	VOC	0.08	0.37
		NO <sub>x</sub>	0.50	2.20
		CO	0.59	2.58
		PM	0.12	0.50
		PM <sub>10</sub>	0.12	0.50
		PM <sub>2.5</sub>	0.12	0.50
		SO <sub>2</sub>	0.09	0.04
CT-1	Cooling Tower	VOC	0.26	1.14
		PM	0.08	0.36
		PM <sub>10</sub>	0.05	0.20
		PM <sub>2.5</sub>	<0.01	<0.01
T-1301	Raw Material Storage Tank No. 2	PM	<0.01	<0.01
		PM <sub>10</sub>	<0.01	<0.01
		PM <sub>2.5</sub>	<0.01	<0.01
T-1303	Raw Material Storage Tank No. 4	VOC	0.01	<0.01
T-1304	Raw Material Storage Tank No. 5	VOC	0.10	<0.01
T-1305	Raw Material Storage Tank No. 6 (Recycle)	VOC	0.07	<0.01

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ISOM-3	Raw Material Storage Tote No. 3	VOC	0.03	<0.01
FWTANK	Firewater Engine Fuel Tank	VOC	0.03	<0.01
PURGE	Line Purging	VOC	0.11	0.02
R-2100	Esterification Reactor Scrubber Stack	VOC	6.37	5.22
RAWFUG	Raw Material Fugitives (5)	VOC	0.21	0.92
RXNFUG	Reactor Fugitives (5)	VOC	0.27	1.19
ENGINE-1	Emergency Engine	VOC	3.31	0.09
		NO <sub>x</sub>	3.31	0.09
		CO	3.34	0.09
		PM	0.17	<0.01
		PM <sub>10</sub>	0.17	<0.01
		PM <sub>2.5</sub>	0.17	<0.01
		SO <sub>2</sub>	1.03	0.03
MSS	Total MSS Purge	VOC	3.11	<0.01

- (1) Emission point identification - either specific equipment designation or emission point number from plot plan.
- (2) Specific point source name. For fugitive sources, use the area name or fugitive source name.
- (3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1  
NO<sub>x</sub> - total oxides of nitrogen  
SO<sub>2</sub> - sulfur dioxide  
PM - total particulate matter, suspended in the atmosphere, including PM<sub>10</sub> and PM<sub>2.5</sub>, as represented  
PM<sub>10</sub> - total particulate matter equal to or less than 10 microns in diameter, including PM<sub>2.5</sub>, as represented  
PM<sub>2.5</sub> - particulate matter equal to or less than 2.5 microns in diameter  
CO - carbon monoxide
- (4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period.
- (5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.

Date: January 26, 2022