

Emission Sources - Maximum Allowable Emission Rates

Permit Number 150327

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, 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)
ST-101	Steam Methane Reformer Furnace Stack	VOC	0.28	1.24
		NO _x	3.34	14.62
		CO	1.00	4.39
		PM	0.83	3.65
		PM ₁₀	0.83	3.65
		PM _{2.5}	0.47	2.07
		SO ₂	0.05	0.22
		CH ₂ O	0.01	0.03
TK-603A	Synthetic Diesel Product Tank	VOC	0.01	0.05
		H ₂ S	<0.01	<0.01
TK-603B	Synthetic Diesel Product Tank	VOC	0.01	0.05
		H ₂ S	<0.01	<0.01
TK-403	Synthetic Diesel Product Tank	VOC	0.01	0.05
		H ₂ S	<0.01	<0.01
TK-801	Treated Water Tank	VOC	0.01	0.05
		H ₂ S	<0.01	<0.01
TK-1001	Open Drain Tank	VOC	<0.01	<0.01
TK-1002A	Slop Tank	VOC	<0.01	<0.01
TK-1002B	Slop Tank	VOC	<0.01	<0.01
TK-302A	Produced Water Tank	VOC	<0.01	0.02
		H ₂ S	<0.01	<0.01
TK-302B	Produced Water Tank	VOC	<0.01	0.02
		H ₂ S	<0.01	<0.01
TK-302C	Produced Water Tank	VOC	<0.01	0.02
		H ₂ S	<0.01	<0.01

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TL-LOAD	TL-Diesel/ TL-Gasoline	VOC	0.19	0.04
TL-SLOP	TL-SLOP	VOC	0.03	<0.01
MSS-LOAD-PW	MSS-LOAD-PW	VOC	0.04	<0.01
FUG-1	Fugitive Emissions (5)	VOC	1.78	7.79
		NH ₃	<0.01	<0.01
		CO	1.64	7.19
		H ₂ S	<0.01	<0.01
FL-701	Flare Pilot	VOC	<0.01	<0.01
		NO _x	<0.01	0.01
		CO	<0.01	<0.01
		PM	<0.01	<0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
		SO ₂	<0.01	<0.01
FL-701	MSS – Degassing Controlled Emissions	VOC	5.15	0.04
		NO _x	0.25	<0.01
		CO	2.14	0.02
		PM	0.09	<0.01
		PM ₁₀	0.09	<0.01
		PM _{2.5}	0.07	<0.01
		SO ₂	<0.01	<0.01
		H ₂ S	<0.01	<0.01
MSS-ST-101	MSS-H-8801; MSS-H-8802 (6)	VOC	0.28	0.01
		NO _x	5.84	0.14
		CO	1.00	0.02
		PM	0.93	0.02
		PM ₁₀	0.93	0.02
		PM _{2.5}	0.83	0.02
		SO ₂	0.10	<0.01

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		CH ₂ O	0.01	<0.01
MISC-MSS	Miscellaneous MSS	VOC	6.47	1.66
		CO	1.09	0.07
		NH ₃	0.01	<0.01
		H ₂ S	<0.01	<0.01
		PM	0.01	0.03
		PM ₁₀	0.01	0.03
		PM _{2.5}	<0.01	0.01
MSS-FUG-UNC	MSS- Uncontrolled Fugitive Degassing Emissions	VOC	20.75	0.02
		H ₂ S	<0.01	<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 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 - total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}, as represented
 PM₁₀ - total particulate matter equal to or less than 10 microns in diameter, including PM_{2.5}, as represented
 PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter
 CO - carbon monoxide
 CH₂O - formaldehyde
 NH₃ - ammonia
 H₂S - hydrogen sulfide
- (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.
- (6) Represents start-up emissions of SMR furnaces, not to exceed 48 hours per event.

Date: July 18, 2018