

Emission Sources - Maximum Allowable Emission Rates

Permit Number 3962

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)
G-A-2	Loading Spot #9	VOC	1.47	0.06
G-D-0	Specialties Dry Stack	VOC	3.12	0.78
		NO _x	0.09	0.08
		CO	0.60	0.47
		SO ₂	<0.01	<0.01
		Al ₂ O ₃	0.80	0.16
		HCl	0.67	0.13
G-D-1	Specialties Wet Flare	VOC	31.42	20.73
		NO _x	6.36	4.54
		CO	39.93	28.31
		SO ₂	0.07	0.05
G-G-2	Tank T817C Vent	VOC	0.04	<0.01
		NH ₃	<0.01	0.04
G-H-8	Tank T-6350 Vent	VOC	0.11	0.03
		NH ₃	<0.01	<0.01
G-I-1	Tank D820A Vent	VOC	10.91	0.82
G-I-2	Tank D820B Vent	VOC	<0.01	<0.01
G-I-3	Tank D821 Vent	VOC	0.04	<0.01
		NH ₃	0.01	0.05
T-A-7	Tank D-6351 Vent	VOC	<0.01	<0.01
T-B-0	Cooling Tower	VOC	0.17	0.74
		PM	0.09	0.40
		PM ₁₀	0.09	0.40
		PM _{2.5}	0.09	0.40

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T-C-0	Furnace	VOC	0.17	0.74
		NO _x	2.81	12.32
		CO	2.57	11.27
		PM	0.23	1.01
		PM ₁₀	0.23	1.01
		PM _{2.5}	0.23	1.01
		SO ₂	0.02	0.08
T-G-2	Tank T-6141 Vent	VOC	0.58	0.3
T-G-3	Tank T-6142 Vent	VOC	0.10	0.07
T-G-4	Tank T-6143 Vent	VOC	<0.01	<0.01
T-G-6	Tank T-6151 Vent	VOC	12.66	1.58
		NH ₃	4.96	1.14
T-G-7	D-6180 Ammonia Scrubber	VOC	5.42	1.37
		NH ₃	2.94	0.36
T-G-9	Vessel D-6149 Vent	VOC	0.08	<0.01
T-H-2	Tank D-6179 Vent	VOC	0.90	0.30
T-H-3	Tank T-6147 Vent	VOC	0.17	0.02
T-H-5	Tank T-6146 Vent	VOC	5.40	1.07
T-H-6	Tank T-6148 Vent	VOC	0.04	<0.01
T-H-8	Tank T-6331 Vent	VOC	<0.01	<0.01
		Caustic	4.23	0.37
		NH ₃	0.08	0.01
T-H-9	Tank T-6332 Vent	VOC	<0.01	<0.01
T-I-1	Tank T-6333 Vent	VOC	<0.01	<0.01
		Caustic	1.66	0.08
T-I-3	Tank T-6177 Vent	VOC	<0.01	<0.01
T-J-11	Product Loading KO Pot	VOC	4.59	0.16
		NH ₃	0.60	0.03

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T-K-5	D-6181 Ammonia Scrubber	VOC	2.14	0.28
		NH ₃	0.45	0.21
T-K-8	Tank T-6114 Vent	VOC	0.32	0.09
T-GZ-0	Non-DETDA Fugitives (5)	VOC	3.79	0.87
		NH ₃	<0.01	<0.01
T-GZ-2	DETDA Fugitives (5)	VOC	2.23	8.58
		Caustic	0.12	0.43
		NH ₃	<0.01	<0.01
Site-wide HAPs	Site-wide HAPs	Total HAPs	-	<25
		Individual HAPs	-	<10

- (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
- HAP - hazardous air pollutant as listed in § 112(b) of the Federal Clean Air Act or Title 40 Code of Federal Regulations Part 63, Subpart C
- Al₂O₃ - aluminum oxide
- HCl - hydrogen chloride
- NH₃ - ammonia
- DETDA - 3,5-diethyltoluene-2,4-diamine
- (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: October 11, 2021