

Emission Sources - Maximum Allowable Emission Rates

Permit Number 1505

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 (5)	
			lbs/hour	TPY (4)
SF-1/SF-1A	Smokeless Flare SF-1 and Smokeless Flare SF-1A	VOC	42.36	32.38
		HCl (6)	4.07	3.96
		NO _x (6)	11.04	5.61
		CO (6)	43.97	48.09
		SO ₂ (6)	0.12	0.14
MSS-001	Planned MSS Fugitives	VOC	15.26	0.24
BB-1	Block and Bleed	VOC	1.66	1.08
FT-4	Hot Oil Furnace	VOC (6)	0.02	0.09
		NO _x (6)	0.38	1.64
		CO (6)	0.31	1.35
		SO ₂ (6)	0.01	0.02
		PM (6)	0.03	0.12
		PM ₁₀ (6)	0.03	0.12
		PM _{2.5} (6)	0.03	0.12
MECLHOSE	MeCl Tank Flex Hose	VOC	0.29	0.01
N-1	Aluminum Loading	PM	0.03	0.02
		PM ₁₀	0.03	0.02
		PM _{2.5}	0.03	0.02
ST-1	DEAC/EASC Atmospheric Vent	VOC	0.47	0.17
ST-8	Atmospheric Vent Tank T-675	VOC	0.16	0.04

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ST-9	Aluminum Storage Bin Baghouse	PM	0.01	<0.01
		PM ₁₀	0.01	<0.01
		PM _{2.5}	0.01	<0.01
ST-13	Filter/Pump Stack	PM	<0.01	<0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
ST-14	Product Bin	VOC	0.65	0.25
ST-16	Dust Filter	PM	0.01	0.01
		PM ₁₀	0.01	0.01
		PM _{2.5}	0.01	0.01
B-4	Loading Bin B-4	PM	0.25	0.13
		PM ₁₀	0.25	0.13
		PM _{2.5}	0.25	0.13
B-81	Loading Bin B-81	PM	0.25	0.25
		PM ₁₀	0.25	0.25
		PM _{2.5}	0.25	0.25
TK-7	Storage Tank TK-7	VOC	12.90	0.80
TK-8	Storage Tank TK-8	VOC	3.93	0.16
TK-9	Storage Tank TK-9	VOC	34.40	1.83
TK-13	Storage Tank TK-13	VOC	22.00	1.24
TK-94	Storage Tank TK-94	VOC	0.49	0.05
PAC-1	T-1403 Dilute HCl Tank	VOC	0.17	0.19
PAC-2	F-1410 RAG Layer Filter Fan	VOC	0.03	0.06
PAC-8	C-1459 Scrubber/ T-1435 HCl Storage Tank	HCl	0.02	0.01
PAC-9/10	SRU Flare	VOC	6.75	13.59

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		NO _x (6)	2.89	6.31
		CO (6)	11.50	25.12
		SO ₂ (6)	0.03	0.07
		HCl	0.06	0.12
PAC-12	X-1460 Cooling Tower	PM	0.12	0.36
		PM ₁₀	0.12	0.36
		PM _{2.5}	0.12	0.36
ALBGHOUSE	Aluminum Dust Baghouse Filter	PM	<0.01	<0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
TFA	Trialkyls Filter Aid Addition	PM	0.40	0.15
		PM ₁₀	0.20	0.07
		PM _{2.5}	0.01	<0.01
F-U-1 (7)	Shipping and Loading Fugitives	VOC	0.11	0.48
F-U-A (7)	Trialkyls Process Fugitives	VOC	0.06	0.26
F-U-B (7)	Old Teal Process Fugitives	VOC	0.06	0.26
F-U-B2 (7)	Reactor R-700 Fugitives	VOC	0.01	0.07
F-U-C (7)	Metal Alkyls Process Fugitives	VOC	0.11	0.50
F-U-D (7)	Halides Process Fugitives	VOC	0.09	0.40
F-U-E (7)	North Teal Process Fugitives	VOC	0.13	0.57
F-U-F (7)	BEM Process Fugitives	VOC	0.25	1.09
F-U-G (7)	South Teal Process Fugitives	VOC	0.24	1.04
F-U-H (7)	Flare Area Process Fugitives	VOC	0.01	0.02
F-U-I (7)	TMAL Process Fugitives	VOC	0.10	0.46

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F-U-J (7)	Azteken Process Fugitives	VOC	0.08	0.36
F-U-TF (7)	Tank Farm Fugitives	VOC	0.69	3.00
PAC-FUG (7)	SRU Fugitives	VOC	0.32	1.41
		HCl	0.06	0.28
All Emission Points at the Site	All Emission Sources at the Site	VOC	---	49.00
		Individual HAPS	---	<10.00
		Total HAPs	---	<25.00

- (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
 - HCl - hydrogen chloride
 - 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
- (4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period.
- (5) The allowable emission rates include planned maintenance, startup, and shutdown activities.
- (6) Products of combustion emissions.
- (7) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.

Date: February 3, 2020