

Emission Sources - Maximum Allowable Emission Rates

Special Permit Number 17392

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)
SW-1	Flare (6)	VOC (14)	1.36	2.22
		NO _x	0.43	1.44
		HCN	0.60	1.96
		NH ₃	0.06	0.04
		CO	2.07	7.87
		SO ₂	0.04	<0.01
SW-7	Tank 90070 (10)	VOC	16.61	0.43
SW-8	Process Vessel 12065 (7) (9) (10)	VOC	1.92	0.16
SW-10	Tank 91346 (11)	VOC	0.64	0.04
SW-17	Tank 90022 (12)	VOC	0.53	0.03
SW-22	Process Vessel 91007 (12)	VOC	0.53	0.03
SW-27	Fugitives (5)	VOC (14)	0.53	2.31
		HCN	0.03	0.14
		NH ₃	<0.01	<0.01
		Ammonium Sulfate	<0.01	0.02
		Sulfanilic Acid	0.01	0.03
		Sulfuric Acid	0.01	0.03
SW-29	Drumming Station	VOC	1.39	0.07
SW-30	Railcar Loading	VOC	4.01	0.11
SW-31	Truck Tank Loading	VOC	1.50	0.27
SW-34	1,000 Gallon Kettles	VOC	0.72	0.07

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SW-35	3,000 Gallon Kettles	VOC	1.07	5.02
SW-36	Tank 91010 (11)	VOC	0.64	0.05

Planned Maintenance, Startup, and Shutdown (MSS)

SW_MSSTK	Fixed Roof Tank MSS	VOC	0.81	0.02
SW_MSSPH	Pump and Heat Exchanger MSS	VOC	0.16	0.01
		NH ₃	0.69	0.02
		Sulfuric Acid	0.01	0.01
SW_DEGAS	Equipment Degassing	VOC	0.21	0.01
SW_MISCMSS	Fugitive Component, Pipe Clearing, and Instrument Maintenance	VOC	1.29	0.01
		NH ₃	0.09	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
 CO - carbon monoxide
 HCN - hydrogen cyanide
 NH₃ - anhydrous ammonia
- (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) Includes MSS emissions
- (7) d-limonene
- (8) methyl pentyrol
- (9) dinonene
- (10) di-isobutylene
- (11) Primene 81-R
- (12) Crude Primene 81-R
- (13) Primene TOA (t-octylamine)
- (14) VOC emissions include emissions of HCN.

Date: January 9, 2024