

Emission Sources - Maximum Allowable Emission Rates

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 (includes HCN)	1.34	2.22
		NO _x	0.34	0.98
		HCN	0.61	1.95
		NH ₃	0.06	0.03
		CO	1.26	4.03
		SO ₂	0.01	0.01
SW-6	Tank 90069 (7) (8) (9)	VOC	2.65	0.04
SW-7	Tank 90070 (10)	VOC	8.53	0.83
SW-8	Tank 12065 (7) (9) (10) (11)	VOC	1.60	0.29
SW-10	Tank 91346 (12)	VOC	1.47	0.17
SW-12	Tank 12122 (Aqua NH ₃)	Ammonium Hydroxide	9.28	1.51
SW-13	Tank 91009 (11)	VOC	10.80	1.16
SW-14	Tank 90480 (11)	VOC	10.80	1.16
SW-16	Tank 12126 (Aqua Salt)	NH ₃	1.36	0.30
		Ammonium Sulfate	0.34	0.07
SW-17	Tank 90022 (13)	VOC	1.44	0.16
SW-22	Tank 91007 (13)	VOC	0.16	0.02
SW-27	Fugitives (5)	VOC (includes HCN)	0.99	4.35
		HCN	0.15	0.68

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		NH ₃	0.01	0.01
SW-28	Tank 12223 (14)	VOC	1.33	0.10
SW-29	Drumming Station	VOC	1.48	0.08
SW-30	Railcar Loading	VOC	0.95	0.35
SW-31	Truck Tank Loading	VOC	0.95	0.20
SW-34	1,000 Gallon Vacuum Jet	VOC	2.93	0.83
SW-35	3,000 Gallon Vacuum Jet	VOC	1.07	5.02
SW-36	Tank 91010 (12)	VOC	1.47	0.19
SW-38	Hot Well	VOC	0.01	0.01

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

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- (7) d-limonene
- (8) methyl pentylol
- (9) dinonene
- (10) di-isobutylene
- (11) propylene tetramer
- (12) Primene 81-R
- (13) Crude Primene 81-R
- (14) Primene TOA (t-octylamine)

Dated August 6, 2014