

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 2446A

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. 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)	<u>Emission Rates * (5)</u>	
			lb/hr	TPY**
VP-01A	Flare A	Hexane	4.43	8.55
		Toluene	2.16	2.01
		Dimethylamine	0.50	0.21
		Methanol	0.09	0.01
		Ethanol	0.01	0.01
		Cyclohexylisocyanate	0.01	0.01
		F-3455.HCl	0.01	0.01
		2-methylpentane	0.01	0.01
		3-methylpentane	0.01	0.01
		Methylcyclopentane	0.01	0.01
		2,3-dimethylbutane	0.01	0.01
		Acetic Acid	0.04	0.01
		NO _x	0.97	4.21
		CO	8.20	36.10
		SO ₂	0.06	0.28
		Non-methane VOC	0.02	0.09
VP-01B	Flare B (NaOMe)	Methanol	0.42	1.44
		NO _x	0.08	0.63
		CO	1.23	5.38
		SO ₂	0.01	0.03
		Non-methane VOC	0.01	0.05
VP-10	Dust Collector	PM	0.30	0.43
VP-05F	Process Fugitives (4)	Toluene	1.53	6.56

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * (5)	
			lb/hr	TPY**
		Methanol	0.31	1.36
		Dimethylamine	0.13	0.56
		Cyclohexylisocyanate	0.12	0.38
		Acetic Acid	0.10	0.30
		Hexane	0.53	1.84
		Ethanol	0.04	0.18
		F-3455.HCl	0.02	0.09
		2-methylpentane	0.01	0.01
		3-methylpentane	0.01	0.01
		Methylcyclopentane	0.01	0.01
		2,3-dimethylbutane	0.01	0.01
VP-11F	Dust Fugitives (4)	PM	0.03	0.01
AM-03	Amine Scrubber	Dimethylamine	0.01	0.01
AM-03F	Amine Fugitives (4)	Dimethylamine	0.16	0.72

- (1) Emission point identification - either specific equipment designation or emission point number from a plot plan.
- (2) Specific point source names. For fugitive sources, use an 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 - nitrogen oxides
- CO - carbon monoxide
- SO₂ - sulfur dioxide
- PM - particulate matter, suspended in the atmosphere, including PM₁₀
- PM₁₀ - particulate matter equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no PM greater than 10 microns is emitted.

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- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) The combined emissions of all sources of hazardous air pollutants (HAPs) at this site is limited to less than 10 tons per year (tpy) any single HAP and less than 25 tpy of any combination of aggregate HAPs. Records will be maintained on-site to confirm that this condition is being met on a rolling 12-month basis.

- * Emission rates are based on and the facilities are limited by the following maximum operating schedule:

____Hrs/day ____Days/week ____Weeks/year or 8,760 Hrs/year

- ** Compliance with annual emission limits is based on a rolling 12-month period.

Dated March 18, 2009