

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 1834

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)	Emission Rates*	
			lb/hr	TPY
EC-25F	Waste Tank Backup Carbon System	VOC	0.71	0.12
		Methylene Chloride	0.63	0.12
LN-01	Methomyl Vapor Incinerator (5)	CO	0.60	2.80
		CO (5)	0.62	2.72
		NO _x	316.00	31.60
		NO _x (5)	1.51	6.51
		SO ₂	58.00	74.00
		SO ₂ (5)	6.95	16.05
		VOC	2.00	1.00
		VOC (5)	0.07	0.25
		HCl	34.00	7.30
		HCl (5)	32.64	12.02
		PM/PM ₁₀ /PM _{2.5}	0.06	0.25
		PM/PM ₁₀ /PM _{2.5} (5)	0.06	0.25
LN-04	Hot Brine Tank	VOC	0.48	0.29
LN-05	Process Vent (5)	Methylene Chloride	30.50	37.90
LN-06	Methanol Tank	VOC	1.48	1.11
LN-07	Hot Brine Tank	VOC	0.76	0.59
LN-10	Lannate Cooling Tower	PM/PM ₁₀ /PM _{2.5}	0.04	0.18
LN-11	North Vydate Tank	VOC	4.50	0.67
LN-13	Dust Collector	PM/PM ₁₀ /PM _{2.5}	0.01	0.05

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LN-21F	Fugitives (4)	VOC	0.80	3.50
		Methyl Mercaptan	0.07	0.32
		Chlorine	0.01	0.06
		HCl	0.07	0.30
		MCl	1.96	8.60
LN-22	Acetaldoxime Mix Tank	VOC	1.01	0.04
LN-23	Process Heater	VOC	0.03	0.12
		NO _x	0.49	2.16
		SO ₂	0.01	0.01
		CO	0.41	1.82
		PM/PM ₁₀ /PM _{2.5}	0.04	0.16
LN-24	MIC Vapor Incinerator (5)	VOC	1.00	1.00
		NO _x	3.80	16.50
		SO ₂	0.60	2.70
		CO	0.01	0.01
LN-30	South Vydate Tank	VOC	4.50	0.67
LN-50	NRS Vapor Incinerator (5)	VOC	0.05	0.12
		MCl	0.44	1.51
		NO _x	9.70	33.67
		CO	0.03	0.12
		SO ₂	0.42	0.94
		Cl ₂	0.01	0.01
		HCl	0.38	1.29

- (1) Emission point identification - either specific equipment designation or emission point number (EPN) from a plot plan.
- (2) Specific point source names. 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
- PM - particulate matter
- PM₁₀ - particulate matter (PM) 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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PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter.

HCl - hydrogen chloride

Cl₂ - chlorine

MCI - methylene chloride

(4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

(5) Upon successful startup (approximately October 2011) of the new NRS Incinerator (LN-50), EPN Nos. LN-24 (MIC Vapor Incinerator) and EPN LN-05 shall be eliminated permanently. The EPN No. LN 01 will be limited to the new values denoted with "(5)".

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

Hrs/year 8,760

Dated: February 22, 2011