

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 35978

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 Rates *	Source	Air Contaminant	Emission	
			lb/hr	TPY
Point No. (1)	Name (2)	Name (3)		
D-1	NO _x Decomposer Stack	PM ₁₀	10.89	24.35
		VOC	0.10	0.44
		NO _x	20.99	78.02
		SO ₂	0.01	0.05
		CO	5.48	20.00
		HCl	0.88	3.20
		Cl ₂	0.77	2.83
		O ₃	3.98	14.54
		NH ₃	2.75	10.03
		Dioxin Equiv.	3.24x10 ⁻⁸	7.09x10 ⁻⁸

Note: PM₁₀ from this source includes fumed silica

D-2	Gas Scrubber	Cholorosilanes	0.47	0.05
		HCl	0.14	0.02
D-3	Boiler Stack	PM ₁₀	0.07	0.28
		VOC	0.03	0.13
		NO _x	0.53	2.30
		SO ₂	<0.01	0.02
		CO	0.11	0.49
D-4	Ammonia Seal Pot	NH ₃	0.15	0.01
D-5	Fugitives (4)	SiCl ₄	0.06	0.24
		CH ₃ SiCl ₃	0.05	0.21
		NH ₃	<0.01	0.03
		NaOH	<0.01	0.03
		HCl	<0.01	<0.01
		Cl ₂	<0.01	<0.01
		CO	<0.01	<0.01

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O ₃	<0.01	<0.01
NO _x	<0.01	<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) PM₁₀ - particulate matter (PM) equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no particulate matter greater than 10 microns is emitted.
- VOC - volatile organic compounds as defined in 30 Texas Administrative Code Section 101.1
- NO_x - total oxides of nitrogen
- SO₂ - sulfur dioxide
- CO - carbon monoxide
- HCl - hydrogen chloride
- Cl₂ - chlorine
- NH₃ - ammonia
- O₃ - ozone
- SiCl₄ - silicon tetrachloride
- CH₃SiCl₃ - methyltrichlorosilane
- NaOH - sodium hydroxide
- Dioxin Equiv. - 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD)
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

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

Hrs/day _____ Days/week _____ Weeks/year _____ or Hrs/year _____
8,760

Dated _____