

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 Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
D-1	NO _x Decomposer Stack	PM ₁₀	10.89	24.35
		VOC	0.10	0.44
		NO _x	8.15	23.80
		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: PM ₁₀ 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	0.34	1.00
		SO ₂	<0.01	0.02
		CO	0.11	0.49
D-4	Ammonia Seal Pot	NH ₃	0.15	0.01

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
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
		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) 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 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

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			<u>lb/hr</u>	<u>TPY</u>

Dated _____