

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 9074

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**
94	PCE Barge Unloading	PCE	1.18	0.057
96	PCE Tank Fugitives (4)	PCE	0.107	0.467
102	PCE Tank	PCE	0.471	0.183
120	Emergency Generator No. 1	SO ₂	1.62	0.011
		NO _x	23.0	0.151
		TSP/PM ₁₀	1.61	0.011
		CO	4.95	0.033
		VOC/TOC	1.87	0.012
121	Caustic Scrubber	HCl	0.009	0.006
		Cl ₂	0.201	0.002
		FC	84.0	18.4
122	HCl Scrubber	HCl	0.02	0.09
		FC	0.97	2.25
123	Fugitives (4)	HCl	0.014	0.059
124	Fugitives (4)	HCl	0.38	1.7
126	Fugitives (4)	HCl	0.068	0.299
166	H ₂ O ₂ Storage Tank	H ₂ O ₂	0.317	0.004
175	Fugitives (4)	FC	1.4	6.08
179	Cooling Tower	TSP	1.6	7.01
186	Neutralizer Vent	FC	0.21	0.92
187	Fugitives (4)	FC	2.76	12.09

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<u>TPY**</u>				
		HF	0.047	0.208
		HCl	0.037	0.161
		VCM	0.100	0.438
		H ₂	0.069	0.302
189	Sniff Scrubber Stack	FC	0.01	0.003
		HCl	0.01	0.001
		HF	0.01	0.001
191	Carbon Canister 1	FC	5.2	0.50
192	Thermal Converter Stack	FC	1.87	8.19
		NO _x	0.89	3.90
		CO	0.54	2.37
		TSP/PM ₁₀	0.23	1.01
		VOC	1.34	4.03
		SO ₂	0.12	0.53
		Benzene	<0.001	<0.001
		VCM	<0.001	0.002
		HF	0.192	0.84
		HCl	0.135	0.59
		Cl ₂	0.001	0.004
193	Fugitives (4)	FC	4.34	19.03
		Benzene	<0.001	<0.001
		HCl	0.006	0.024
		VCM	0.017	0.073
		H ₂	0.82	3.59
193-AqHCl	Fugitives (4)	HCl	0.032	0.142
194	Emergency Generator No. 3	SO ₂	1.28	0.011
		NO _x	18.1	0.151
		TSP/PM ₁₀	1.27	0.011
		CO	3.91	0.033
		VOC/TOC	1.48	0.012
197	Carbon Canister No. 2	FC	12.5	2.74

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<u>TPY**</u>				
		HF	0.027	0.01
		Cl ₂	0.8	0.17
		HCl	8.04	1.76
210	Emergency Fire Pump No. 1	SO ₂	0.38	0.01
		NO _x	5.4	0.136
		TSP/PM ₁₀	0.38	0.01
		CO	1.2	0.029
		VOC/TOC	0.44	0.011
215	Emergency Fire Pump No. 2	SO ₂	0.81	0.021
		NO _x	11.5	0.302
		TSP/PM ₁₀	0.81	0.021
		CO	2.47	0.065
		VOC/TOC	0.94	0.025
231	Therminol Heater	SO ₂	2.08	9.11
		NO _x	3.64	15.94
		TSP/PM ₁₀	0.276	1.21
		CO	3.06	13.39
		VOC	0.20	0.88
237	Hot Air Heater	SO ₂	0.43	1.89
		NO _x	0.75	3.3
		TSP/PM ₁₀	0.06	0.25
		CO	0.63	2.77
		VOC	0.04	0.18
244	Emergency Generator No. 2	SO ₂	0.38	0.01
		NO _x	5.4	0.136
		TSP/PM ₁₀	0.38	0.01
		CO	1.2	0.029
		VOC/TOC	0.44	0.011

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates*	
TPY**			lb/hr	
245	Fugitives (4)	FC	5.17	22.6
		VOC	0.473	2.07
		HF	0.097	0.425
		HCl	0.056	0.245
		Cl ₂	0.028	0.123
		PCE	0.183	0.802
247	Spray Scrubber	HF	0.106	0.041
		HCl	0.996	0.095
		Cl ₂	0.11	0.23
		FC	54.5	5.97

(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) PCE - perchloroethylene

NO_x - total oxides of nitrogen

CO - carbon monoxide

FC - fluorocarbons

HCl - hydrogen chloride

H₂SO₄ - sulfuric acid

HF - hydrogen fluoride

Cl₂ - chlorine

TSP - total suspended particulate

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.

SO₂ - sulfur dioxide

VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1

H₂O₂ - hydrogen peroxide

VCM - vinyl chloride monomer

H₂ - hydrogen

TOC - total organic carbon

(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 by the following maximum operating schedule:

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

Hrs/day____Days/week____Weeks/year____/or Hrs/year 8,760

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

Dated November 21, 2002