

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 19641

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 *	Source	Air Contaminant	<u>Emission Rates</u>	
<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>	<u>TPY</u>
BCAREA	Fugitives (4)	VOC	0.50	2.20
CARB	Process Fugitives (4)	VOC	0.43	1.89
CARB2	Process Fugitives (4)	PO	0.03	0.13
		PC	0.21	0.94
FC004	Vessel F-C-4	VOC	0.29	<0.01
FC055	Vessel F-C-55	VOC	0.02	<0.01
FE042	Scrubber (T-E-74/75/116)	VOC	1.39	0.46
HA1	Heater	VOC	0.04	0.18
		NO _x	0.76	3.34
		CO	0.16	0.70
		PM	0.03	0.15
		SO ₂	<0.01	0.02
HC1	H-C-1	NO _x	0.90	3.90
	CO	0.30	1.30	
JAU3	Fugitives (4)	VOC	0.07	0.31
		NH ₃	0.06	0.28
LB8	Vacuum Source (FB042 Vent)	VOC	<0.01	<0.01
RAIL	Rail Loading Rack (5)	VOC	0.35	0.16
RA22	Plant Flare	VOC	16.27	4.91

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		NH ₃	3.18	0.35
		NO _x	6.63	1.65
		CO	10.38	2.16
RE22	Loading Incinerator	VOC	0.76	0.18
		NO _x	0.74	2.51
		CO	0.12	0.53
		PM	0.03	0.11
		SO ₂	<0.01	0.02
RF60	Flare	VOC	0.51	1.14
		NO _x	0.12	0.48
		CO	1.03	4.17
		HBr	2.47	1.00
TB01	Storage Tank T-B-1	VOC	0.30	0.017
TB07	Storage Tank T-B-7	VOC	0.30	0.017
TB014	Storage Tank T-B-14	VOC	3.17	0.38
TB015	Storage Tank T-B-15	VOC	3.17	0.38
TB016	Rundown Tank	VOC	<0.01	<0.01
TB017	Storage Tank T-B-17	VOC	<0.01	0.01
TB018	Rundown Tank	VOC	<0.01	<0.01
TB019	Carbonate Catalyst Tank	VOC	0.01	0.01
TB020	Carbonate Catalyst Tank	VOC	0.01	0.01
TB021	Storage Tank T-B-21	VOC	<0.01	<0.01
TB022	Storage Tank T-B-22	VOC	<0.01	<0.01

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TB024	Storage Tank T-B-24	VOC	0.03	<0.01
TC005	Storage Tank T-C-5	VOC	<0.01	<0.01
TC042	Storage Tank T-C-42	VOC	0.05	0.01
TC043	Storage Tank T-C-43	VOC	0.05	0.01
TE011	Product Storage Tank T-E-11 0.01	VOC		0.09
TE012	Product Storage Tank T-E-12 0.01	VOC		0.09
TE016	Storage Tank T-E-16	VOC	<0.01	<0.01
TE017	Storage Tank T-E-17	VOC	0.10	0.10
TE025	Product Storage Tank T-E-25 <0.01	VOC		0.03
TE026	Product Storage Tank T-E-26 <0.01	VOC		0.03
TE029	Storage Tank T-E-29	VOC	0.07	<0.01
TE030	Storage Tank T-E-30	VOC	0.02	<0.01
TE050	Storage Tank T-E-50	VOC	<0.01	<0.01
TE060	Storage Tank T-E-60	VOC	<0.01	<0.01
TE077	Storage Tank T-E-77	VOC	0.02	<0.01
TE078	Storage Tank T-E-78	VOC	0.02	<0.01

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TE079	Storage Tank T-E-79	VOC	<0.01	<0.01
TE125	Storage Tank T-E-125	VOC	<0.01	<0.01
TK1	TE-11, 12 Fugitives (4)	VOC	0.10	0.42
TK2	Fugitives (4)	VOC	<0.01	0.02
TK3	Fugitives (4)	VOC	0.50	2.21
TK4	Fugitives (4)	VOC	<0.01	0.01
TK5	Fugitives (4)	VOC	0.01	0.03
TK9	Fugitives (4)	VOC	0.44	1.94
TRUCK	Truck Loading Rack (5)	VOC	0.35	0.16
UC678	Cooling Tower	VOC	3.00	2.21

(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) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code Section 101.1

NO_x - total oxides of nitrogen

CO - carbon monoxide

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.

NH₃ - anhydrous ammonia

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PO - propylene oxide

PC - propylene carbonate

HBr - hydrogen bromide

SO₂ - sulfur dioxide

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

(5) Maximum combined emissions from Emission Point Nos. RAIL and Truck shall not exceed 0.35 lb/hr and 0.16 tpy.

* 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

Dated _____