

Emission Sources - Maximum Allowable Emission Rates

Permit Number 31510

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, sources, and related activities. 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	
			lbs/hour	TPY (4)
ACLFUG	Acid Chloride Tank Farm Fugitives (5)	VOC	0.36	1.56
B1FUG	B-1 Fugitives (5)	VOC	0.60	2.64
B1ABAY1-2	B-1 Alamo, Bays 1 & 2 Fugitives (5)	VOC	0.18	0.79
B1ABAY3	B-1 Alamo, Bay 3 Fugitives (5)	VOC	0.08	0.37
B1ABAY4	B-1 Alamo, Bay 4 Fugitives (5)	VOC	0.07	0.31
B1PKGE	B-1 Packaging East Vent	VOC	0.24	0.01
B1PKGW	B-1 Packaging West Vent	VOC	0.24	0.01
B1DMPKG	B-1 Drum Packaging Vent	VOC	0.71	0.08
B1WFUG	B-1 Weigh Area Fugitives (5)	VOC	0.10	0.43
		H ₂ O ₂	0.01	0.03
B530	Boiler (6.275 MMBtu/hr)	VOC	0.03	0.15
		NO _x	0.62	2.69
		SO ₂	0.01	0.02
		PM ₁₀	0.05	0.20
		PM _{2.5}	0.05	0.20
		CO	0.52	2.26
C1	C-1 Vent Scrubber	VOC	0.44	0.05
C330	M-350 Tank Vent Scrubber	VOC	0.03	0.01
C851A	M-1 Process Vent Scrubber	VOC	1.20	5.24
CTFUG	Central Tank Farm Fugitives (5)	VOC	0.10	0.43
		H ₂ O ₂	0.05	0.21
D203	H ₂ SO ₄ /NaOH Mix Tank	H ₂ SO ₄	0.01	0.01
D700	W-2 Blend Vessel	VOC	0.41	0.02
E201	E201 B-1 Reactor Vent	VOC	1.02	0.26

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		H ₂ SO ₄	0.01	0.01
		H ₂ O ₂	0.01	0.01
E202	E202 B-1 Reactor Vent	VOC	1.02	0.26
		H ₂ SO ₄	0.01	0.01
		H ₂ O ₂	0.01	0.01
ETFUG	East Tank Farm Fugitives (5)	VOC	0.29	1.27
F1	B-1 Flare	VOC	11.85	4.36
		NO _x	0.49	0.49
		SO ₂	0.03	0.04
		CO	8.73	4.24
F103	H ₂ SO ₄ Weigh Tank	H ₂ SO ₄	0.01	0.01
F121A & F121B	Dilute Chilled NaOH Tanks	NaOH	0.01	0.01
F202	H ₂ SO ₄ Weigh Tank	H ₂ SO ₄	0.01	0.01
F203	H ₂ O ₂ Weigh Tank	H ₂ O ₂	0.01	0.01
F204	TBA Weigh Tank	VOC	2.83	0.06
F206	TXIB Weigh Tank	VOC	0.01	0.01
F207	H ₂ O ₂ Weigh Tank	H ₂ O ₂	0.01	0.01
F419	Sodium Bicarbonate Tank	NaHCO ₃	0.01	0.01
F420	F-420 Crude Product Storage Tank	VOC	0.49	0.03
F421	F-421 Crude Product Storage Tank	VOC	0.49	0.03
F422	F-422 Crude Product Storage Tank	VOC	0.01	0.01
F423	F-423 Crude Product Storage Tank	VOC	0.01	0.01
I1002	Incinerator	VOC	0.20	0.29
		NO _x	0.35	0.51
		SO ₂	0.16	0.23
		PM ₁₀	0.45	0.66
		PM _{2.5}	0.45	0.66
		CO	0.76	1.11
M1FUG	M-1 Process Feed Fugitives (5)	VOC	0.41	1.80

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		H ₂ O ₂	0.01	0.05
M1M2PKG	M-1/M-2 Packaging Fugitives (5)	VOC	0.15	0.66
M1M2PKGA	M-1/M-2 Packaging Machine A	VOC	0.16	0.22
M1M2PKGB	M-1/M-2 Packaging Machine B	VOC	0.20	0.22
M2RFUG	M-2 Reactor Room Fugitives (5)	VOC	0.73	3.20
		H ₂ O ₂	0.02	0.07
M2SFUG	M-2 Storage Area Fugitives (5)	VOC	0.35	1.53
Q8000	M-2 Process Dryer Vent Scrubber	VOC	1.20	5.24
T1A	T1-A H ₂ SO ₄ Tank	H ₂ SO ₄	0.01	0.01
T2	T-2 Potassium Hydroxide Tank	KOH	0.01	0.01
T3	T-3 TBA Tank	VOC	9.53	0.28
T5, T29 & T39	Organic Hydroperoxide Tanks (6)	VOC	1.06	0.59
T6	T-6 H ₂ O ₂ Tank	H ₂ O ₂	0.08	0.01
T6A	T-6A H ₂ O ₂ Tank	H ₂ O ₂	0.06	0.01
T7	T-7 NaOH Tank	NaOH	0.01	0.01
T7A	T-7A NaOH Tank	NaOH	0.01	0.01
T10	T-10 NaOH Tank	NaOH	0.01	0.01
T11	T-11 H ₂ O ₂ Tank	H ₂ O ₂	0.05	0.01
T23	T-23 Base Oil Tank	VOC	0.04	0.01
T24	T-24 DMP Tank	VOC	0.01	0.01
T25	T-25 OMS Tank	VOC	0.16	0.02
T25A	T-25A OMS Tank	VOC	0.60	0.02
T30	T-30 Isopar-H Tank	VOC	0.82	0.02
T41	T-41 Diesel Tank	VOC	0.02	0.01
T42	T-42 Diesel Tank	VOC	0.03	0.01
T43	T-43 Diesel Tank	VOC	0.02	0.01
T45	T-45 Diesel Tank	VOC	0.08	0.01
T80	T-80 Wastewater Tank	VOC	0.30	1.30
T83	T-83 Wastewater Tank	VOC	0.30	1.30

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T84	T-84 Caustic Tank	NaOH	0.01	0.01
T85	T-85 Wastewater Tank	VOC	0.01	0.01
T85A	T-85A Wastewater Tank	VOC	0.01	0.01
T130	T-130 t-Amyl Hydroperoxide Tank	VOC	0.06	0.02
T150	T-150 Santicizer 160 Tank	VOC	0.01	0.01
T301	T-301 Still Feed Tank	VOC	0.36	0.04
T306	T-306 TBHP Blending Tank	VOC	0.16	0.01
T311	T-311 DTBP Wash Tank	VOC	1.65	0.39
T312	T-312 DTBP Wash Tank	VOC	1.65	0.39
T525	T-525 Brown Water Tank	VOC	0.01	0.01
T572	T-572 Glycol Tank	VOC	0.01	0.01
T700A	T-700A B-1 Wastewater Tank	VOC	0.64	2.82
T702	T-702 DTBP Wastewater Tank	VOC	0.01	0.01
T705	T-705 Sodium Sulfate Tank	Na ₂ SO ₄	0.01	0.01
T925	T-925 OMS Tank	VOC	0.01	0.01
T980	T-980 M-1/M-2 Wastewater Tank	VOC	0.01	0.01
T5050	T-5050 NaOH Tank	NaOH	0.01	0.01
T7050	T-7050 Sodium Sulfate Tank	Na ₂ SO ₄	0.01	0.01
T7080	T-7080 Sodium Sulfate Tank	Na ₂ SO ₄	0.01	0.01
T7500	T-7500 Sodium Sulfate Tank	Na ₂ SO ₄	0.01	0.01
T8500	T-8500 M-2 Product Tank	VOC	0.01	0.02
T9000	T-9000 M-2 Product Tank	VOC	0.01	0.02
T9100	T-9100 M-2 Product Tank	VOC	0.01	0.02
T9200	T-9200 M-2 Product Tank	VOC	0.01	0.02
T9500	T-9500 Glycol Tank	VOC	0.01	0.01
T9600	T-9600 Glycol Tank	VOC	0.01	0.01
U541	B-1 Cooling Tower	VOC	0.01	0.01
W2DRUM	W-2 Drumming Vent	VOC	0.14	0.02
W2FUG	W-2 Unit Fugitives (5)	VOC	0.23	0.99

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W930	M1/M2 Cooling Tower	VOC	0.01	0.01
WTFUG	West Tank Farm Fugitives (5)	VOC	0.12	0.54

- (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 § 101.1
 - CO - carbon monoxide
 - NO_x- total oxides of nitrogen
 - SO₂ - sulfur dioxide
 - 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.
 - PM_{2.5} - particulate matter (PM) equal to or less than 2.5 microns in diameter.
 - H₂O₂ - hydrogen peroxide
 - H₂SO₄ - sulfuric acid
 - NaHCO₃ - sodium bicarbonate
 - NaOH - sodium hydroxide
 - Na₂SO₄ - sodium sulfate
 - KOH - potassium hydroxide
- (4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
- (5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
- (6) Only one tank shall be filled at a time and the annual (tpy) emission is the total for all three tanks.

Date: December 29, 2016