

Emission Sources - Maximum Allowable Emission Rates

Permit Number 20134

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)
E7RE9803	E7 Flare	NO _x	0.46	1.14
		CO	0.91	2.28
E3NSCRB	E3 Scrubber	VOC	(6)	(6)
E6NSCRB	E6 Scrubber	VOC	(6)	(6)
E7RE9803	E7 Flare	VOC	(6)	(6)
Reactor Cap (6)	E7 Flare, E3 Scrubber, E6 Scrubber	VOC	12.54	24.82
		Ethylene Oxide (9)	0.24	0.32
		1,4 Dioxane (9)	0.57	0.61
		SO ₂	0.2	0.13
E3TE312	Tank 12	VOC	(7)	(7)
E3TE3125	Tank 125	VOC	(7)	(7)
E3TE3128	Tank 128	VOC	(7)	(7)
E3TE313	Tank 13	VOC	(7)	(7)
E3TE314	Tank 14	VOC	(7)	(7)
E3TE3147	Tank 147	VOC	(7)	(7)
E3TE3148	Tank 148	VOC	(7)	(7)
E3TE3149	Tank 149	VOC	(7)	(7)
E3TE315	Tank 15	VOC	(7)	(7)
E3TE3150	Tank 150	VOC	(7)	(7)
E3TE3151	Tank 151	VOC	(7)	(7)
E3TE3152	Tank 152	VOC	(7)	(7)
E3TE3153	Tank 153	VOC	(7)	(7)

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E3TE3154	Tank 154	VOC	(7)	(7)
E3TE3155	Tank 155	VOC	(7)	(7)
E3TE3357	Tank 357	VOC	(7)	(7)
E3TE3358	Tank 358	VOC	(7)	(7)
E3TE3359	Tank 359	VOC	(7)	(7)
E3TE3360	Tank 360	VOC	(7)	(7)
E3TE3361	Tank 361	VOC	(7)	(7)
E3TE3362	Tank 362	VOC	(7)	(7)
E3TE3363	Tank 363	VOC	(7)	(7)
E3TE3364	Tank 364	VOC	(7)	(7)
E3TE3367	Tank 367	VOC	(7)	(7)
E3TE3368	Tank 368	VOC	(7)	(7)
E3TE3369	Tank 369	VOC	(7)	(7)
E3TE3370	Tank 370	VOC	(7)	(7)
E3TE3371	Tank 371	VOC	(7)	(7)
E3TE3374	Tank 374	VOC	(7)	(7)
E3TE3375	Tank 375	VOC	(7)	(7)
E3TE3376	Tank 376	VOC	(7)	(7)
E3TE3377	Tank 377	VOC	(7)	(7)
E3TE3378	Tank 378	VOC	(7)	(7)
E3TE3379	Tank 379	VOC	(7)	(7)
E3TE3380	Tank 380	VOC	(7)	(7)
E3TE3381	Tank 381	VOC	(7)	(7)
E3TE3385	Tank 385	VOC	(7)	(7)
E3TE3386	Tank 386	VOC	(7)	(7)
E3TE3387	Tank 387	VOC	(7)	(7)
E3TE3388	Tank 388	VOC	(7)	(7)
E3TE344	Tank 44	VOC	(7)	(7)
E3TE345	Tank 45	VOC	(7)	(7)

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E3TE346	Tank 46	VOC	(7)	(7)
E3TE347	Tank 47	VOC	(7)	(7)
E3TE348	Tank 48	VOC	(7)	(7)
E3TE391	Tank 91	VOC	(7)	(7)
E3TE392	Tank 92	VOC	(7)	(7)
E3TE393	Tank 93	VOC	(7)	(7)
E3TE394	Tank 94	VOC	(7)	(7)
E3TE3389	Tank 389	VOC	(7)	(7)
E6TE61	Tank 1	VOC	(7)	(7)
E6TE610	Tank 10	VOC	(7)	(7)
E6TE611	Tank 11	VOC	(7)	(7)
E6TE614	Tank 14	VOC	(7)	(7)
E6TE62	Tank 2	VOC	(7)	(7)
E6TE6212	Tank 212	VOC	(7)	(7)
E6TE628A	Tank 28A	VOC	(7)	(7)
E6TE628B	Tank 28B	VOC	(7)	(7)
E6TE63	Tank 3	VOC	(7)	(7)
E6TE632	Tank 32	VOC	(7)	(7)
E6TE633	Tank 33	VOC	(7)	(7)
E6TE634	Tank 34	VOC	(7)	(7)
E6TE635	Tank 35	VOC	(7)	(7)
E6TE636	Tank 36	VOC	(7)	(7)
E6TE637	Tank 37	VOC	(7)	(7)
E6TE638	Tank 38	VOC	(7)	(7)
E6TE639	Tank 39	VOC	(7)	(7)
E6TE64	Tank 4	VOC	(7)	(7)
E6TE640	Tank 40	VOC	(7)	(7)
E6TE641	Tank 41	VOC	(7)	(7)
E6TE65	Tank 5	VOC	(7)	(7)

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E6TE651	Tank 51	VOC	(7)	(7)
E6TE66	Tank 6	VOC	(7)	(7)
E6TE67	Tank 7	VOC	(7)	(7)
E6TE68	Tank 8	VOC	(7)	(7)
E6TE69	Tank 9	VOC	(7)	(7)
E6AASCRB	Acetic Acid Tank Scrubber	VOC	(7)	(7)
E6TE6214	Glycol Scrubber Tank	VOC	(7)	(7)
Tank Cap (7)	All storage tanks	VOC	12.51	0.21
E6LROSCW	E6 Railcar/Tankwagon Loading	VOC	(8)	(8)
E6LROSPW	E6 Tankwagon Loading	VOC	(8)	(8)
E6LROSPC	E6 Railcar Loading	VOC	(8)	(8)
E3LROSCW	E3 Railcar/Tankwagon Loading	VOC	(8)	(8)
RSEE3E6D	E3 Drum Loading	VOC	(8)	(8)
E3LRSICW	SI Railcar/Tankwagon Loading	VOC	(8)	(8)
Loading Cap (8)	E3 Railcar Tankwagon Loading E6 Railcar Tankwagon Loading SI Railcar Tankwagon Loading E3 Drum Loading	VOC	19.47	0.24
E3FUG	E3 Fugitives (5)	VOC	0.86	3.76
		Ethylene Oxide (9)	0.75	3.26
E6FUG	E6 Fugitives (5)	VOC	0.53	2.3
		Ethylene Oxide (9)	0.35	1.55
		Acetic Acid (9)	0.03	0.15
		Ethylene Glycol (9)	0.01	0.02

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E6SO2FUG	E6 SO2 Fugitives	SO ₂	0.55	2.41
E3E6FUG2	Wastewater Fugitives	VOC	0.85	3.73
		Ethylene Oxide (9)	0.01	0.01
UEUL30	Cooling Tower No. 5 (5)	VOC	0.03	0.05

- (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
NO_x - total oxides of nitrogen
SO₂ - sulfur dioxide
CO - carbon monoxide
- (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) Emissions from reactors through scrubbers and flares are included in EPN Reactor Cap.
- (7) Emissions from all storage tanks are included in EPN Tank Cap.
- (8) Emissions from all loading sources are included in EPN Loading Cap.
- (9) Ethylene oxide, acetic acid, ethylene glycol, and 1,4 dioxane emissions are a subset of the total VOC emissions.

Date: February 11. 2015