

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 3173

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**
A1333	HIPA Flare (5)	Acetone	0.15	0.66
		CO	12.90	44.16
		NO _x	2.13	6.9
		VOC	14.67	61.71
A5400	Analyzer Vent A5400	VOC	0.01	0.01
A5506	Analyzer Vent A5506	VOC	0.01	0.01
A5507	Analyzer Vent A5507	VOC	0.01	0.01
A5508	Analyzer Vent A5508	VOC	0.01	0.01
BEETLE	BEETLE Stack	H ₂ SO ₄	0.12	0.53
		SO ₂	1.84	8.06
		VOC	5.64	24.70
CWT1D	Cooling Tower 1D (5)	VOC	1.01	4.42
CWT1E	Cooling Tower 1E (5)	VOC	1.51	6.62
F337	Tank F-337 (before seal upgrade) (after seal upgrade)	VOC	0.60	0.49
		VOC	0.59	0.46
F353	Tank F-353	VOC	0.57	0.44
FTRUCK	Loading Fugitives (5)	VOC	3.31	1.11
SCRWRTT/ SCRWRTC	Tank Truck and Car/West Rack (5)	VOC	3.97	1.33
T-66-R1	Tank T-66-R1	VOC	0.12	0.34

EMISSIONS FROM SOURCE IS MAXIMUM ALLOWABLE EMISSION RATES

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lb/hr	TPY**
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**
T67A	Tank T-67A	VOC	0.26	0.39
T67B	Tank T-67B	Acetone	0.02	0.03
		VOC 0.20	0.32	
T68	Tank T-68	VOC	0.30	0.60
T69C	Tank T-69C	Acetone	8.01	0.28
		VOC 3.75	0.11	
T73C	Tank T-73C	Acetone	8.01	0.28
		VOC 3.75	0.11	
T74A	Tank T-74A	Acetone	0.02	0.04
		VOC 0.21	0.39	
T75A	Tank T-75A	VOC	0.42	1.02
T75B	Tank T-75B	VOC	0.21	0.37
T76B	Tank T-76B	VOC	0.26	0.65
T82B	Tank T-82B	H ₂ SO ₄	0.01	0.01
T87	Tank T-87	NaOH	0.01	0.01
		VOC 3.59	0.29	
T90	Tank T-90	Acetone	0.03	0.05
		VOC 0.21	0.35	
T91	Tank T-91	Acetone	0.03	0.05
		VOC 0.22	0.39	
T95	Tank T-95	VOC	0.30	0.45

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY**
T96	Tank T-96	NaOH	0.01	0.01
T97	Tank T-97	Acetone VOC 0.13	0.02 0.31	0.04
T101B	Tank T-101B	H ₂ SO ₄ VOC 0.19	0.01 0.03	0.01
T104	Tank T-104	NaOH	0.01	0.01
T105	Tank T-105	Acetone VOC 0.31	0.03 0.38	0.03
T114A	Tank T-114A	H ₂ SO ₄ VOC 0.19	0.01 0.06	0.01
T116A	Tank T-116A	H ₂ SO ₄ VOC 0.19	0.01 0.06	0.01
T188	Tank T-188	VOC	0.34	0.42
T216	Tank T-216	VOC	0.24	0.45
T3030	Tank T-3030	VOC	0.07	0.01
T3141	Tank T-3141	Acetone VOC 0.22	0.03 0.35	0.05
T3176	Tank T-3176	VOC	0.07	0.01
T3405	Tank T-3405	VOC	0.98	0.52

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
T340D	Tank T-340D	H ₂ SO ₄	0.01	0.01
		VOC 0.19	0.03	
T359	Tank T-359	NaOH	0.01	0.01
		VOC 1.49	0.03	
T360	Tank T-360	H ₂ SO ₄	0.01	0.01
		VOC 0.19	0.02	
V20	Tank V-20	Acetone	0.01	0.05
		VOC 0.01	0.02	
V118	Vent V-118	VOC	0.52	2.28
V392	Scrubber V-392	Acetone	0.56	2.44
		VOC 0.01	0.01	
V3162	Vent V-3162	VOC	5.59	0.12
WRTC	West Rack Tank Car Loading (5)	H ₂ SO ₄	0.07	0.01
IPACRUFE	IPA Crude Fugitives (4)	Acetone	0.24	1.05
		H ₂ SO ₄ 0.37	1.60	
		VOC 4.47	19.57	
IPAFINFE	IPA Finishing Fugitives (4)	Acetone	1.71	7.50
		VOC 5.40	23.65	

(1) Emission point identification - either specific equipment designation or emission point number from a plot plan.

(2) Specific point source names. For fugitive sources, use an area name or fugitive source name.

(3) CO - carbon monoxide

H₂SO₄ - sulfuric acid

NaOH - sodium hydroxide

NO_x - total oxides of nitrogen

SO₂ - sulfur dioxide

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

- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) Emissions represent contributions from the IPA Unit only.

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- * Emission rates are based on and the facilities are limited by the following maximum operating schedule:

24 Hrs/day 7 Days/week 52 Weeks/year

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

Dated July 21, 2003