

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 5171

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**
FL-1	Marine Flare No. 1	CO	17.38	
		NO <sub>x</sub>	4.68	
		SO <sub>2</sub>	0.02	
		VOC	34.40	
FL-2	Marine Flare No. 2	CO	17.38	
		NO <sub>x</sub>	4.68	
		SO <sub>2</sub>	0.02	
		VOC	34.40	
FL-1 and FL-2	Annual Emissions Marine Flare Cap 10.63	CO		
		NO <sub>x</sub>		1.36
		SO <sub>2</sub>		0.01
		VOC		15.78
MARINE	Marine Loading Losses - No Control 5.09		VOC	89.23
MARINE BD3	Marine Loading Losses - No Control 8.66		VOC	4.04
SUMP-1	Wastewater Sumps	VOC	9.24	9.41
TK-ATMDEGAS	Uncontrolled Tank Degassing (7)	VOC	103.35	---
TK-DEGAS	Tank Degassing	CO	6.64	7.02
		NO <sub>x</sub>	3.33	3.52
		SO <sub>2</sub>	0.01	0.01
		VOC (6)	120.58	---

## AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
TKVCU-1	Vapor Combustion Unit No. 1	CO	84.90	
		NO <sub>x</sub>	42.53	
		SO <sub>2</sub>	0.15	
		VOC	12.78	
TKVCU-2	Vapor Combustion Unit No. 2	CO	84.90	
		NO <sub>x</sub>	42.53	
		SO <sub>2</sub>	0.15	
		VOC	12.78	
	TKVCU No. 1 and No. 2 Annual Emission Cap	CO		59.34
		NO <sub>x</sub>		29.72
		SO <sub>2</sub>		0.06
		VOC		26.90
T5-11	Tank 5-11	VOC	13.66	
T5-12	Tank 5-12	VOC	1.51	
T5-15	Tank 5-15	VOC	13.66	
T5-16	Tank 5-16	VOC	13.66	
T10-1	Tank 10-1	VOC	1.75	
T10-2	Tank 10-2	VOC	13.66	
T10-4	Tank 10-4	VOC	1.29	
T10-6	Tank 10-6	VOC	1.75	
T10-7	Tank 10-7	VOC	1.38	
T10-8	Tank 10-8	VOC	1.75	
T10-9	Tank 10-9	VOC	1.75	

## AIR CONTAMINANTS DATA

Emission		Air Contaminant		Emission
		Rates *		
Point No. (1)	Name (2)	Name (3)		lb/hr
	TPY**			
T10-10	Tank 10-10	VOC		1.75
T10-11	Tank 10-11	VOC		1.75
T12-1	Tank 12-1	VOC		2.08
T12-2	Tank 12-2	VOC		2.08
T15-1	Tank 15-1	VOC		0.67
T17-1	Tank 17-1	VOC		0.14
T17-2	Tank 17-2	VOC		0.14
T27-1	Tank 27-1	VOC		2.20
T27-2	Tank 27-2	VOC		2.20
T27-3	Tank 27-3	VOC		1.81
T27-4	Tank 27-4	VOC		1.81
T30-1	Tank 30-1	VOC		0.16
T30-2	Tank 30-2	VOC		0.16
T55-2	Tank 55-2	VOC		13.75
T55-3	Tank 55-3	VOC		13.75
T55-4	Tank 55-4	VOC		2.92
T55-5	Tank 55-5	VOC		1.62
T75-1	Tank 75-1	VOC		1.69

## AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
T130-1	Tank 130-1	VOC	6.06	
T130-2	Tank 130-2	VOC	10.39	
T130-3	Tank 130-3	VOC	10.39	
T130-4	Tank 130-4	VOC	7.93	
T130-5	Tank 130-5	VOC	10.39	
T130-6	Tank 130-6	VOC	4.60	
T130-7	Tank 130-7	VOC	4.60	
T130-8	Tank 130-8	VOC	10.39	
T130-9	Tank 130-9	VOC	10.39	
T130-10	Tank 130-10	VOC	10.39	
T130-11	Tank 130-11	VOC	4.60	
T130-12	Tank 130-12	VOC	10.39	
T130-13	Tank 130-13	VOC	3.59	
T130-14	Tank 130-14	VOC	31.63	
T130-15	Tank 130-15	VOC	3.59	
T150-1	Tank 150-1	VOC	10.57	
T150-2	Tank 150-2	VOC	4.78	
T150-3	Tank 150-3	VOC	10.57	
T150-4	Tank 150-4	VOC	10.57	
T150-5	Tank 150-5	VOC	10.57	

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
T150-6	Tank 150-6	VOC	10.57	
T150-7	Tank 150-7	VOC	10.57	
T150-8	Tank 150-8	VOC	4.78	
T150-9	Tank 150-9	VOC	10.57	
T150-10	Tank 150-10	VOC	10.57	
T150-11	Tank 150-11	VOC	10.57	
T150-12	Tank 150-12	VOC	10.47	
T150-13	Tank 150-13	VOC	10.47	
T150-14	Tank 150-14	VOC	10.47	
T150-15	Tank 150-15	VOC	10.47	
T150-16	Tank 150-16	VOC	10.47	
T150-17	Tank 150-17	VOC	10.47	
T150-18	Tank 150-18	VOC	4.68	
T150-19	Tank 150-19	VOC	10.47	
T150-20	Tank 150-20	VOC	10.47	
T150-21	Tank 150-21	VOC	4.88	
T150-22	Tank 150-22	VOC	4.88	
T150-23	Tank 150-23	VOC	4.88	
T150-24	Tank 150-24	VOC	4.88	

## AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
T150-25	Tank 150-25	VOC	4.88	
T150-26	Tank 150-26	VOC	4.88	
T150-27	Tank 150-27	VOC	4.88	
T150-28	Tank 150-28	VOC	4.88	
T150-29	Tank 150-29	VOC	4.99	
T150-30	Tank 150-30	VOC	4.99	
T150-31	Tank 150-31	VOC	4.99	
T150-32	Tank 150-32	VOC	4.99	
T150-33	Tank 150-33	VOC	4.99	
T150-34	Tank 150-34	VOC	4.99	
T150-35	Tank 150-35	VOC	4.99	
T150-36	Tank 150-36	VOC	4.99	
T150-37	Tank 150-37	VOC	4.99	
T150-38	Tank 150-38	VOC	4.99	
T150-39	Tank 150-39	VOC	4.99	
T150-40	Tank 150-40	VOC	4.99	
T150-41	Tank 150-41	VOC	4.99	
T150-42	Tank 150-42	VOC	4.99	
T150-43	Tank 150-43	VOC	4.99	
T150-44	Tank 150-44	VOC	31.52	

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
T150-45	Tank 150-45	VOC	31.52	
T150-46	Tank 150-46	VOC	31.52	
T150-47	Tank 150-47	VOC	6.05	
T150-48	Tank 150-48	VOC	6.05	
T150-49	Tank 150-49	VOC	4.58	
T150-50	Tank 150-50	VOC	4.58	
T150-51	Tank 150-51	VOC	4.58	
T150-52	Tank 150-52	VOC	4.58	
T150-53	Tank 150-53	VOC	4.58	
T150-54	Tank 150-54	VOC	4.58	
T150-55	Tank 150-55	VOC	4.58	
T150-56	Tank 150-56	VOC	4.58	
T150-57	Tank 150-57	VOC	4.58	
T150-58	Tank 150-58	VOC	4.58	
T150-59	Tank 150-59	VOC	4.71	
T150-60	Tank 150-60	VOC	4.71	
T150-61	Tank 150-61	VOC	4.71	
T150-62	Tank 150-62	VOC	4.71	
T150-63	Tank 150-63	VOC	4.71	

## AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
T150-64	Tank 150-64	VOC	4.71	
T150-65	Tank 150-65	VOC	4.71	
T150-66	Tank 150-66	VOC	4.71	
T150-67	Tank 150-67	VOC	4.71	
T150-68	Tank 150-68	VOC	4.71	
T150-69	Tank 150-69	VOC	4.71	
T150-70	Tank 150-70	VOC	4.71	
T150-71	Tank 150-71	VOC	4.71	
T150-72	Tank 150-72	VOC	4.71	
T150-73	Tank 150-73	VOC	4.71	
T150-74	Tank 150-74	VOC	4.69	
T150-75	Tank 150-75	VOC	4.69	
T150-76	Tank 150-76	VOC	4.69	
T150-77	Tank 150-77	VOC	4.69	
T150-78	Tank 150-78	VOC	4.69	
T170-1	Tank 170-1	VOC	31.67	
T170-2	Tank 170-2	VOC	31.67	
T170-3	Tank 170-3	VOC	31.67	
T170-4	Tank 170-4	VOC	31.67	
T170-5	Tank 170-5	VOC	10.52	



## AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY**
T170-6	Tank 170-6	VOC	10.52	
T170-7	Tank 170-7	VOC	10.52	
T200-1	Tank 200-1	VOC	10.43	
T200-2	Tank 200-2	VOC	10.43	
T200-3	Tank 200-3	VOC	10.43	
T250-1	Tank 250-1	VOC	10.40	
T250-2	Tank 250-2	VOC	10.40	
T300-1	Tank 300-1	VOC	10.42	
T300-2	Tank 300-2	VOC	31.89	
T300-3	Tank 300-3	VOC	10.37	
Landed Roof Refill Cap	Any 10 Tanks (5)	VOC	5,564.43	
Annual Emission Cap	All Tanks (6)	VOC		1,199.96
FUG+FUG M	Entire Process Fugitives (4)	VOC	7.61	32.18
TKFUG-PIT9	Pit 9 Tank Process Fugitives (4)	VOC	0.56	2.47
TRUCKLFUG	Truck Loading Process Fugitives (4)	VOC	0.36	0.08
TRUCKLOAD-1	Tank Truck Loading Rack (4)	VOC	1.51	2.22

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

- (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 area name or fugitive source name.
  - (3) CO - carbon monoxide  
NO<sub>x</sub> - nitrogen oxides  
SO<sub>2</sub> - sulfur dioxide  
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
  - (4) Emission rate is an estimate and compliance is demonstrated by meeting the requirements of the applicable special conditions and permit application representations.
  - (5) Hourly emissions cap covers simultaneous re-filling of tanks pursuant to Special Condition No. 17.
  - (6) Annual emissions cap for tanks covers routine emissions, tank roof landings and degassing.
  - (7) These are maximum VOC emissions during one hour of tank degassing. Annual tank degassing emissions are authorized under the annual emission cap for all tanks.
- \* 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 October 30, 2008