

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 22197

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**
FT02222000	Clean Water Tank	VOC	0.01	0.01
FL02300700	DNT Loading/Unloading	VOC	0.01	0.02
FT02310400	Sulfuric Acid Tank	H <sub>2</sub> SO <sub>4</sub>	0.01	0.01
FT02310600	Soda Ash Solution Tank	PM	0.01	0.01
FS02332000	Soda Ash Scrubber	PM	0.03	0.01
FV05010900	Relief Column	VOC	0.01	0.01
FS05021200	o-TDA Vacuum Scrubber	VOC	0.06	0.28
FS05021700	South o-TDA Tank Scrubber	VOC	0.01	0.02
FS05023400	m-TDA Proof Tank Scrubber	VOC	0.01	0.02
FS05027600	Process Wastewater Scrubber	VOC	0.01	0.01
FS05028000	Wastewater Tank Scrubber	VOC	0.01	0.01
FF05061400	TDA Flare Stack	Alcohol	1.32	5.78
		Acetone	0.85	3.72
		NH <sub>3</sub>	1.15	5.04
		CO	2.70	11.83
		NO <sub>x</sub>	0.42	1.84
FV06040300	Vent	VOC	0.01	0.01
		HCl	0.01	0.01

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FV06001200	Vent		VOC	0.01	0.01
		HCl	0.01	0.01	
FT06045600	Wastewater Tank		VOC	0.01	0.01
FV06502200	Stack		VOC	0.01	0.01
		HCl	0.01	0.01	
FV06519800	Residue Storage		PM	0.02	0.09
FL06524400	Residue Loading		PM	0.02	0.09
FG830705HP	Emergency Engine		NO <sub>x</sub>	15.20	4.56
		CO	0.54	0.16	
		VOC	3.17	0.95	
		PM	0.66	0.20	
TDI-FUG	Equipment Fugitives (4)		VOC	2.47	10.84
		NH <sub>3</sub>	0.49	2.08	
		COCl <sub>2</sub>	0.01	0.01	
		Cl <sub>2</sub>	0.01	0.02	
		HCl	0.01	0.05	
		H <sub>2</sub> SO <sub>4</sub>	0.08	0.33	

- (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) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
- NO<sub>x</sub> - total oxides of nitrogen
- SO<sub>2</sub> - sulfur dioxide
- PM - particulate matter, suspended in the atmosphere, including PM<sub>10</sub> and PM<sub>2.5</sub>.
- CO - carbon monoxide
- HCl - hydrogen chloride
- H<sub>2</sub>SO<sub>4</sub> - sulfuric acid
- COCl<sub>2</sub> - phosgene
- Cl<sub>2</sub> - chlorine
- NH<sub>3</sub> - ammonia

EMISSIONS FROM SOURCES SUBJECT TO MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**

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

\* 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 or 8,760 Hrs/year

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

Dated December 21, 2006