

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 22046

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**
13	Process Flare (7)	NO <sub>x</sub>	3.95	4.51
		CO	20.36	23.20
		VOC	7.66	6.45
		SO <sub>2</sub>	2.78	11.49
		HCl	0.65	1.02
13	Process Flare (5)	NO <sub>x</sub>	3.97	0.18
		CO	21.6	0.98
		VOC	4.76	0.44
		SO <sub>2</sub>	2.78	0.27
		HCl	7.36	0.93
		H <sub>2</sub> S	0.01	0.01
S-23	Water Spray Column	HCl	0.04	0.15
S-34	Spray Column	H <sub>2</sub> S	0.01	0.03
S-03	Spray Column Absorber	H <sub>2</sub> S	<0.01	0.02
West P&F	Plate and Frame Filter	VOC	0.03	
P&F-3	Plate and Frame Filter	VOC	0.04	
West P&F/P&F-3	Plate and Frame Filter (6)	VOC		0.13
J-4 and J-5	Filter Feed Tanks	PM	0.05	0.03
156-BIOBED	Biological Treatment Unit (2 biobeds operating)	VOC	1.01	4.42
		H <sub>2</sub> S	0.03	0.01
	Biological Treatment Unit	VOC	10.9	

Record Number: 83219

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### AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
Maintenance (1 biobed operating)				
156-FUG	Process Fugitives(4)	VOC	0.51	2.25
		HCl 0.08	0.34	
		H <sub>2</sub> S 0.02	0.08	
		Na <sub>2</sub> S 0.02	0.08	
		S <sub>2</sub> Cl <sub>2</sub> 0.05	0.22	
CT-13	Cooling Tower	VOC	0.01	0.01
S-27	Venturi Scrubber	VOC	34.44	4.63
		PM 0.01	0.01	
SS-29	Product Storage Tank	VOC	1.10	0.172
TL-T58	Truck Loading Fugitives (4)	VOC	0.29	0.01
T58-FUG	Process Fugitives (4)	VOC	0.78	3.43
		HCl 0.01	0.06	
		S <sub>2</sub> Cl <sub>2</sub> 0.02	0.10	

(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>.

PM<sub>10</sub> - particulate matter 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.

CO - carbon monoxide

HCl - hydrogen chloride

Na<sub>2</sub>S - sodium sulfide

S<sub>2</sub>Cl<sub>2</sub> - sulfur chloride

H<sub>2</sub>S - hydrogen sulfide

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

(5) Operation of the Process Flare is limited to 438 hours per year.

(6) Combined emissions of VOC's in Tons per Year from West P&F and P&F-3 (Plate and Frame Filters) is 0.13 tpy.

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- (7) Construction Emission Rates are the sum of the lb/hr and TPY Emission Rates from Permit 22046 MAERT dated June 12, 1995 and Permit 20849 MAERT dated April 1, 1994. These Emission Rates become void after the Biological Treatment System becomes operational or no later than January 1, 2006.

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

\_\_\_\_\_Hrs/day \_\_\_\_Days/week \_\_\_\_Weeks/year or 8,760 Hrs/year

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

Dated June 6, 2005