

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 46560

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**
6118-T-50801	Flare	VOC	33.71	13.81
		Hexane	28.35	8.40
		TiCl <sub>4</sub> 4.31	0.10	
		Aluminum Alkyl	0.01	0.01
		NO <sub>x</sub> 2.41	2.50	
		CO 17.43	12.73	
		SO <sub>2</sub> 0.01	0.01	
6118-C-50504	Additive Addition Station	PM	0.06	0.10
6118-C-50507	Vacuum Baghouse	PM	0.30	0.20
6118-MS-50405	Product Silo No. 1 Baghouse	VOC	(5)	(5)
		Hexane	(5)	(5)
		PM (5)	(5)	
6118-MS-50407	Product Silo No. 2 Baghouse	VOC	(5)	(5)
		Hexane	(5)	(5)
		PM (5)	(5)	
6118-MS-50409	Product Silo No. 3 Baghouse	VOC	(5)	(5)
		Hexane	(5)	(5)
		PM (5)	(5)	
6118-MS-50411	Product Silo No. 4 Baghouse	VOC	(5)	(5)
		Hexane	(5)	(5)
		PM (5)	(5)	

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
6118-MS-50508	Railcar Loading Baghouse	VOC	(5)	(5)
		Hexane	(5)	(5)
		PM (5)	(5)	
6118-T-50303	Fines Fluid Bed Dryer	VOC	(5)	(5)
		Hexane	(5)	(5)
		HCl 0.02	0.11	
		PM (5)	(5)	
Total Hourly and Annual Allowable for all four Product Silo Baghouses, Railcar Loading Baghouse, and Fines Fluid Bed Dryer		VOC	3.45	2.00
		Hexane	5.67	3.26
		PM	1.42	3.97
6118-MN-50801	Main Unit Sump	VOC	0.03	0.13
		Hexane	0.01	0.01
6118-FUG	Fugitives (4)	VOC	0.01	0.01
		Hexane	0.30	1.40
		TiCl <sub>4</sub> 0.10	0.40	
		Aluminum Alkyl	0.01	0.01
6118-FFB-1	FFB Carbon Adsorption Unit (6)	VOC	0.88	0.14
		Hexane	0.34	0.74

(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, not including hexane

Hexane -

a VOC  
and hazardous  
air pollutant as  
defined in Title  
40 Code of  
Federal  
Regulations  
Part 63

TiCl<sub>4</sub> - titanium tetrachloride

NO<sub>x</sub> - total oxides of nitrogen

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CO	- carbon monoxide	
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 PM greater than 10 microns is emitted.
HCl	- hydrogen chloride	

- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) Emissions of VOC, Hexane, and PM are combined into an hourly and annual cap for all four product silo baghouses, railcar loading baghouse, fines fluid bed dryer, and PM for the four product silo baghouses.
- (6) This EPN is covered under Standard Permit Number 75943, and is listed here for reference only.

\* 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 May 8, 2006