

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 24711

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)	<u>Emission Rates</u>	
			lb/hr	TPY
**				
E-1	Tank Vent HCl Scrubber (5)	HCl	0.01	0.01
E-2/E-3	Baghouse	NH <sub>4</sub> Cl	0.19	0.83
E-4	Vent Scrubber NH <sub>4</sub> Cl Stack (5)	HCl	0.53	1.40
		NH <sub>3</sub>	0.27	0.78
F-1	Fugitives (4)	HCl	0.03	0.14
		NH <sub>3</sub>	0.03	0.12
B-2	Boiler	VOC	0.12	0.35
		NO <sub>x</sub>	2.10	6.31
		CO	1.76	5.30
		SO <sub>2</sub>	0.01	0.04
		PM <sub>10</sub>	0.16	0.48
T-1	Tank Vent	NH <sub>4</sub> Cl	0.01	0.01
T-2	Tank Vent	NH <sub>4</sub> Cl	0.01	0.01
T-3	Tank Vent	NH <sub>4</sub> Cl	0.01	0.01
T-4	Tank Vent	NH <sub>4</sub> Cl	0.01	0.01
T-6	Tank Vent	NH <sub>4</sub> Cl	0.01	0.01
T-7	Tank Vent	NH <sub>4</sub> Cl	0.01	0.01
T-8	Tank Vent	NH <sub>4</sub> Cl	0.01	0.01

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<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>	<u>TPY</u>
**				
T-14	Reactor Vent	NH <sub>4</sub> Cl	0.01	0.01
T-15	Tank Vent	NH <sub>4</sub> Cl	0.01	0.01
T-16	Tank Vent	NH <sub>4</sub> Cl	0.01	0.01
T-17	Tank Vent	VOC	0.01	0.01
		NH <sub>3</sub>	0.01	0.01
T-19	Tank Vent	NH <sub>4</sub> Cl	0.01	0.01
		NH <sub>3</sub>	0.01	0.04
T-20	Tank Vent	NH <sub>4</sub> Cl	0.01	0.01
		NH <sub>3</sub>	0.01	0.04
T-21	Tank Vent	NH <sub>4</sub> Cl	0.01	0.01
		NH <sub>3</sub>	0.01	0.04
Pit 1	Tank Vent	NH <sub>4</sub> Cl	0.01	0.01
CT-1a	Cooling Tower	NH <sub>4</sub> Cl	0.10	0.10
CT-1b	Cooling Tower	NH <sub>4</sub> Cl	0.10	0.10
D-1	Parts Washer	VOC	0.25	0.25
E-5	Lignin Dryer Scrubber Stack	VOC	0.03	0.14
		NO <sub>x</sub>	0.58	2.53
		CO	0.49	2.12
		SO <sub>2</sub>	0.01	0.01
		PM <sub>10</sub>	0.30	1.31
F-DRYER	Dryer Expansion Fugitive	VOC	0.01	0.02
S-1A	BT-2010 and BT-2011 Scrubber	VOC	0.01	0.01

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<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>	<u>TPY</u>
**				
MSS-RXN_TNKS	Tank Cleaning and Inspection	HCl	0.01	0.01
		NH <sub>4</sub> Cl	0.01	0.01
MSS-VACTRK	Vacuum Trucks	NH <sub>4</sub> Cl	0.02	0.01
MSS-FUG	MSS Fugitives	NH <sub>3</sub>	0.03	0.01
		HCl	0.06	0.01

- (1) Emission point identification - either specific equipment designation or emission point number (EPN) from plot plan.
- (2) Specific point source name. For fugitive sources use area name or fugitive source name.
- (3) PM<sub>10</sub> - particulate matter equal to or less than 10 microns in diameter  
 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  
 CO - carbon monoxide  
 NH<sub>4</sub>Cl - ammonium chloride  
 HCl - hydrogen chloride  
 NH<sub>3</sub> - anhydrous ammonia
- (4) Emission rate is an estimate and compliance is demonstrated by meeting the requirements of the applicable special conditions and permit application representations.
- (5) Planned maintenance, startup, and shutdown activities and emissions are authorized from this EPN.

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

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

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

Dated October 26, 2010