### EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

### Permit Number 47029

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	Source	Air Contaminant		Emission Rates *	
Point No. (1)	Name (2)		Name (3)	lb/hr	TPY**
TCS-A1	Scrubber CL-1401		HCI	0.10	0.03
TCS-A3	Scrubber CL-1403		HCI	0.01	0.01
TCS-A4	Bag House BF-1201		PM (Si)	0.01	0.03
KBE/ABC-A	Scrubber CL-1001	EtOH MeOH PO ACI PO-H VOC	1 0.01 0.02	0.02 0.11 0.03 0.02 0.05 0.01 0.11	0.03 0.01 0.01 0.01
ABC-A4	Scrubber CL-3202	MeOH ACI HCI H2S	EtOH 1 0.07 0.01 0.01	0.02 0.01 0.25 0.04 0.01	0.07 0.01
ABC-A6	ABC Baghouses		PM	0.01	0.01
BOILER-A1 or A2	Boiler A1 or Boiler A2	CO PM VOC SO <sub>2</sub>	NO <sub>x</sub> 0.92 0.01 0.05 0.19	0.46 4.02 0.06 0.23 0.82	2.01

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# AIR CONTAMINANTS DATA

Emission	Source Ai		Contaminant	Emission Rates *	
Point No. (1)	Name (2)		Name (3)	lb/hr	TPY**
INCINE-A1 or	Incinerator A1 or		NO <sub>x</sub>	0.90	3.93
A2	Incinerator A2		CO	1.34	5.87
		PM	0.26	1.14	
		VOC	0.22	0.44	
		$SO_2$	0.04	0.18	
		HCI	0.59	0.35	
		$Cl_2$	0.05	0.04	
CF-FUG	CF Fugitives		VOC (incl. speciated VOC) 2.06		9.04
	S	AN	0.07	0.29	
		<b>EtOH</b>	0.67	2.94	
		РО	0.11	0.50	
		ACI	0.14	0.63	
		$NH_3$	0.02	0.09	
		HCI	0.01	0.02	
		HSiCI		0.01	0.02
		SiCl <sub>4</sub>	0.07	0.31	
TCS-FUG	Trichlorosilane Fugitives		HCI	0.02	0.10
	(Emissions prior to HCl Sythesis Unit project)		HSiCl₃	0.13	0.59
			SiCl <sub>4</sub>	0.30	1.31
		Si	0.01	0.01	
		SiO <sub>2</sub>	0.01	0.01	
TCS-FUG	Trichlorosilane Fugitives (Emissions after HCl Synthes		HCI	<0.01	< 0.01
				iCl <sub>3</sub>	0.13
	11.26		0.59	0.00	4.04
	Unit project)	Ο.	SiCl <sub>4</sub>	0.30	1.31
		Si	0.01	0.01	
		SiO <sub>2</sub>	0.01	0.01	
KBM-FUG	KBM-803 Fugitives (4)		VOC	0.04	0.19
		$H_2S$	0.01	0.06	
		Na₂S	0.01	0.01	

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### AIR CONTAMINANTS DATA

Emission	Source Air Contaminant		<sup>r</sup> Contaminant	Emission Rates *	
Point No. (1)	Name (2)		Name (3)	lb/hr	TPY**
ULOADFUG	Loading/Unloading Fugitives (Emissions prior to HCl and F		3	0.24 HCl	0.01 0.04
	Synthesis Unit projects	s) SiCl <sub>4</sub> H <sub>2</sub> S	0.01 HSiCl <sub>3</sub> 0.01 0.01	0.01 0.01 0.01	0.01
ULOADFUG	Loading/Unloading Fug (Emissions after HCl an Synthesis Unit projects	nd F3	VOC HCI HSiCl₃ 0.07	0.32 0.01 0.01 0.01	0.01 0.01 0.01
CTOWER	Cooling Tower	VOC	PM 0.01	0.01 0.01	0.01
HCL-1	Tower CL-1701		HCI	0.07	<0.01
F3-1	Scrubber CL-2501		VOC	45.79	5.06
F3-2	Scrubber CL-4501		VOC	0.01	0.01
HCI-FUG		Cl <sub>2</sub> Si	HCI 0.06 <0.01	0.06 0.26 <0.01	0.28
F3-FUG	F3 Fugitives		VOC	0.79	3.45

<sup>(1)</sup> Emission point identification - either specific equipment designation or emission point number from a plot plan.

 $NO_x$  - 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

<sup>(2)</sup> Specific point source names. For fugitive sources, use an area name or fugitive source name.

<sup>(3)</sup> VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1

Source

Emission

### EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Air Contaminant

### AIR CONTAMINANTS DATA

Emission Rates \*

Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**	
listed CO - HCI - AN - ACI - EtOH - PO - PO-HCI - NH <sub>3</sub> -	, it shall be assumed that no carbon monoxide hydrogen chloride acrylonitrile allylchloride ethanol propyleneoxide propylene oxide-hydrochlo	particulate matter greater tha			
$SiO_2$ - $Cl_2$ - $SiCl_4$ - $HSiCl_3$ - $H_2S$ -	silicon dioxide chlorine				
<ul> <li>Emission rates are based on and the facilities are limited by the following maximum operating schedule:</li> <li>Hrs/dayDays/weekWeeks/year or8,760_Hrs/year</li> </ul>					
		is based on a rolling 12-mon	-	Dated	