

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 18734

This table lists the maximum allowable emission rates for all sources of air contaminants covered by this permit.

## AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
GROUP1 (4)	27 Scrubbers	Acids (5)(6)	2.22	9.74
		Alkalis (7)	0.10	0.46
		Halocarbons	2.92	12.80
		Inorganics	0.10	0.43
		Specialty Gases	1.37	5.98
		VOC	0.02	0.07
		non-VOC	0.02	0.08
E1RASE1, E1RASE2, E2RASE, E1YASE, and E2YASE	10 Scrubbers	HCl	0.34	1.50
E3RASE	Scrubber	Acids	0.07	0.31
E1REPIS1 through E1REPIS6	6 EPI Reactors Vented through 6 Scrubbers	HCl	<0.01	0.01
BCDRSE	Concentrator/Oxidizer	VOC	6.53	28.60
		Non-VOC	1.20	5.25
		Alkalis	0.10	0.44
		NO <sub>x</sub>	1.58	6.94
		SO <sub>2</sub>	<0.01	0.02
		CO	0.15	0.65
		PM	0.08	0.37
E1RSVE1-8, E2RSVE, and E2eRSVE	Silane Vents	VOC (8)	0.06	0.25
		Specialty Gas	<0.01	<0.001
BCDRASE	Bulk Chemical Building	POC	<0.01	<0.001
		Acids	<0.01	<0.001
		Alkalis	<0.01	<0.001
		Inorganics	<0.01	<0.01
		VOC	<0.01	<0.001

SSTK1	Storage Tank	NaOH	<0.01	<0.001
SSTK2	Storage Tank	HCl	<0.01	<0.001
SSTK3	Storage Tank	HF	<0.01	<0.001
SSTK4	Storage Tank	NH <sub>4</sub>	<0.01	<0.001
SSTK5 and SSTK6	Waste Solvent Tanks	VOC	0.44	1.63
		Non-VOC	0.31	0.76
SSTK7 and SSTK8	Waste HF Tanks	HF	<0.01	<0.01
HCl-FUG	2 Storage Tanks	HCl	<0.01	<0.01

(1) Emission point identification - emission point number from plot plan.

(2) Specific point source name

(3) VOC - volatile organic compounds as defined in 30 Texas Administrative Code (TAC)

Section 101.1

non-VOC - compounds excluded from the definition of VOC in 30 TAC Section 101.1

HCl - hydrogen chloride

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

SO<sub>2</sub> - sulfur dioxide

CO - carbon monoxide

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.

POC - products of combustion including NO<sub>x</sub>, SO<sub>2</sub>, PM, CO, and VOC

NaOH - sodium hydroxide

HF - hydrogen fluoride

NH<sub>4</sub> - ammonia

(4) Specific EPNs are listed in Attachment 1.

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			lb/hr	TPY

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- (5) Does not include HCl
- (6) Sulfuric acid may be emitted from any of the EPNs belonging to GROUP1 except E2eRAMSE.
- (7) The alkalis group includes emissions from ammonium hydroxide.
- (8) VOC from combustion

\* Emission rates are based on a continuous operating schedule of 8,760 hours per year.

Dated \_\_\_\_\_

ATTACHMENT 1

Permit No. 18734

E1YASE  
E1RASE1  
E1RASE2  
E1RHWSE1  
E1RHWSE2  
E1RWJASE1  
E1RWJASE2  
E1RAMSE

E2YASE  
E1REPIS1  
E1REPIS2  
E1REPIS3  
E1REPIS4  
E1REPIS5  
E1REPIS6  
E2RASE

E2RHWSE  
E2RWJASE  
E2RAMSE  
E2eRHWSE  
E2eRWJASE  
E2eRAMSE

Dated \_\_\_\_\_