EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 34957

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(4)
S-1	Scrubber	SiO_2	< 0.001	< 0.01
		HCl	< 0.001	< 0.01
		HNO_3	< 0.01	< 0.01
		HF	< 0.01	< 0.01
		NH_4OH	< 0.01	0.01
		H_2O_2	< 0.001	< 0.01
		ISP	0.02	0.09
		Acetone	< 0.01	0.02
S-2	Scrubber	SiO_2	< 0.001	< 0.01
		HCl	< 0.001	< 0.01
		HNO_3	< 0.01	< 0.01
		HF	< 0.01	< 0.01
		NH_4OH	< 0.01	0.01
		H_2O_2	< 0.001	< 0.01
		ISP	0.02	0.09
		Acetone	< 0.01	0.02
S-3	Scrubber	SiO_2	< 0.001	< 0.01
		HCl	< 0.001	< 0.01
		AsH_3	< 0.001	< 0.01
		B_2H_6	< 0.001	< 0.01
		PH_3	< 0.001	< 0.01
		Germane	< 0.001	< 0.01
		BCl_3	< 0.001	< 0.01
S-4	Scrubber	SiO_2	< 0.001	< 0.01
		HCl	< 0.001	< 0.01
V-100	V-100 Scrubber	SiO_2	< 0.001	< 0.01
		HCl	< 0.001	< 0.01
		AsH_3	< 0.001	< 0.01
		B_2H_6	< 0.001	< 0.01
		PH_3	< 0.001	< 0.01
		Germane	< 0.001	< 0.01
		BCl_3	< 0.001	< 0.01
V-L1a	V2-75LM Scrubber	SiO_2	0.01	0.01
		HCl	< 0.01	< 0.01

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates lb/hr	TPY(4)
		AsH_3	< 0.001	< 0.01
		B_2H_6	< 0.001	< 0.01
		PH_3	< 0.001	< 0.01
V-L1b	V2-75LM Scrubber	SiO_2	0.01	0.01
		HCl	< 0.01	< 0.01
		AsH_3	< 0.001	< 0.01
		B_2H_6	< 0.001	< 0.01
		PH_3	< 0.001	< 0.01
V-L2a	V2-75LM Scrubber	SiO_2	0.01	0.01
		HCl	< 0.01	< 0.01
		AsH_3	< 0.001	< 0.01
		B_2H_6	< 0.001	< 0.01
		PH_3	< 0.001	< 0.01
V-L2b	V2-75LM Scrubber	SiO_2	0.01	0.01
		HCl	< 0.01	< 0.01
		AsH_3	< 0.001	< 0.01
		B_2H_6	< 0.001	< 0.01
		PH_3	< 0.001	< 0.01
V-L3	V2-75LM Scrubber	SiO_2	0.01	0.01
		HCl	< 0.01	< 0.01
		AsH_3	< 0.001	< 0.01
		B_2H_6	< 0.001	< 0.01
		PH_3	< 0.001	< 0.01
V-L4a	V2-75LM Scrubber	SiO_2	0.01	0.01
		HCl	< 0.01	< 0.01
		AsH_3	< 0.001	< 0.01
		B_2H_6	< 0.001	< 0.01
		PH_3	< 0.001	< 0.01
V-L4b	V2-75LM Scrubber	SiO_2	0.01	0.01
		HCl	< 0.01	< 0.01

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates lb/hr	TPY(4)
		AsH_3	< 0.001	< 0.01
		B_2H_6	< 0.001	< 0.01
		PH_3	< 0.001	< 0.01
V-A1	V2-75LM Scrubber	SiO_2	0.01	0.01
		HCl	< 0.01	< 0.01
		AsH_3	< 0.001	< 0.01
		B_2H_6	< 0.001	< 0.01
		PH_3	< 0.001	< 0.01
V-A2	V2-75LM Scrubber	SiO_2	0.01	0.01
		HCl	< 0.01	< 0.01
		AsH_3	< 0.001	< 0.01
		B_2H_6	< 0.001	< 0.01
		PH_3	< 0.001	< 0.01
		Germane	< 0.01	< 0.01
		BCl_3	< 0.01	< 0.01
V-A3	V2-75LM Scrubber	SiO_2	0.01	0.01
		HCl	< 0.01	< 0.01
		AsH_3	< 0.001	< 0.01
		B_2H_6	< 0.001	< 0.01
		PH_3	< 0.001	< 0.01
V-A4	V2-75LM Scrubber	SiO_2	0.01	0.01
		HCl	< 0.01	< 0.01
		AsH_3	< 0.001	< 0.01
		B_2H_6	< 0.001	< 0.01
		PH_3	< 0.001	< 0.01
V-A5	V2-75LM Scrubber	SiO_2	0.01	0.01
		HCl	< 0.01	< 0.01
		AsH_3	< 0.001	< 0.01
		B_2H_6	< 0.001	< 0.01
		PH_3	< 0.001	< 0.01
		Germane	< 0.01	< 0.01
		BCl_3	< 0.01	< 0.01
V-A6	V2-75LM Scrubber	SiO_2	0.01	0.01
		HCl	< 0.01	< 0.01

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates lb/hr	TPY(4)
		AsH_3	< 0.001	< 0.01
		B_2H_6	< 0.001	< 0.01
		PH_3	< 0.001	< 0.01
V-A7	V2-75LM Scrubber	SiO_2	0.01	0.01
		HCl	< 0.01	< 0.01
		AsH_3	< 0.001	< 0.01
		B_2H_6	< 0.001	< 0.01
		PH_3	< 0.001	< 0.01
		Germane	< 0.01	< 0.01
		BCl_3	< 0.01	< 0.01
V-A8	V2-75LM Scrubber	SiO_2	0.01	0.01
		HCl	< 0.01	< 0.01
		AsH_3	< 0.001	< 0.01
		B_2H_6	< 0.001	< 0.01
		PH_3	< 0.001	< 0.01
		Germane	< 0.01	< 0.01
		BCl_3	< 0.01	< 0.01
V-A9	V2-75LM Scrubber	SiO_2	0.01	0.01
		HCl	< 0.01	< 0.01
		AsH_3	< 0.001	< 0.01
		B_2H_6	< 0.001	< 0.01
		PH_3	< 0.001	< 0.01
FUG-1	Fugitive Wastewater	NH_4OH	0.18	0.78
B-1	Boiler	VOC	0.01	0.04
		SO_2	< 0.01	< 0.01
		NO_x	0.15	0.66
		CO	0.03	0.14
		PM	0.02	0.08
TR-1, TR-2, TR-3, and TR-4	Trane HVACs	VOC	0.01	0.03
		SO_2	< 0.01	< 0.01

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates lb/hr	TPY(4)
		NO_x	0.1	0.44
		CO	0.02	0.09
		PM	0.01	0.05
DG-1	Diesel Generator	VOC	1.19	0.06
		SO_2	0.97	0.05
		NO_x	14.69	0.74
		CO	3.18	0.16
		PM	1.04	0.05

(1) Emission point identification - either specific equipment designation or emission point number from a plot plan.
(2) Specific point source name.
(3) AsH_3 - arsine
B_2H_6 - diborane
BCl_3 - boron trichloride
CO - carbon monixide
H_2O_2 - hydrogen peroxide
HCl - hydrochloric acid
HF - hydrofluoric acid
NH_4OH - ammonium hydroxide
HNO_3 - nitric acid
ISP - isopropyl alcohol
NO_X - nitrogen oxides
SiO_2 - silicone dioxide
SO_2 - sulfur dioxide
PH_3 - phosphine
PM - particulate matter, suspended in the atmosphere, including PM_{10}.
PM_{10} - particulate matter (PM) equal to or less than 10 microns in diameter.
VOC - volatile organic compounds as defined in the Title 30 Texas Administrative Code § 101.1
(4) Rate is for a rolling 12-consecutive months.

Dated November 12, 2007