

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 33961

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	<u>Emission Rates</u>	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
CAS1	Carbon Adsorption System for <0.01 Control of Tanks		VOC	0.049
NOR41	Acid Waste Tank No. 3 (5)	HCl	0.15	<0.01
NOR42	Acid Waste Tank No. 2 (5)	HCl	0.15	<0.01
NOR43	Acid Waste Tank No. 1 (5)	HCl	0.15	<0.01
NOR44	Caustic Waste Tank No. 3 (5) <0.01		NaOH	<0.01
NOR45	Caustic Waste Tank No. 2 (5) <0.01		NaOH	<0.01
NOR46	Caustic Waste Tank No. 1 (5) <0.01		NaOH	<0.01
EBHEAT	Natural Gas Emulsion Break Heater	PM <sub>10</sub>	0.031	0.137
		VOC	0.023	0.099
		NO <sub>x</sub>	0.412	1.804
		CO	0.346	0.515
		SO <sub>2</sub>	0.003	0.011
CT1	Chemical Treatment Vessel No. 1 <0.01		H <sub>2</sub> SO <sub>4</sub>	0.37

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Emission * Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lb/hr	TPY
CT2	Chemical Treatment Vessel No. 2 <0.01		NaOH	<0.01
CT3	Acid Reagent Tank No. 1	H <sub>2</sub> SO <sub>4</sub>	0.465	0.003
CT4	Caustic Reagent Tank No. 2	NaOH	<0.01	<0.01
Lab-Silo	Vermiculite Silo Blower Filter 0.039		PM <sub>10</sub>	0.018
BH1-ST	Stabilization Baghouse Stack 3.62		PM <sub>10</sub>	0.83
STAB-FUG	Stabilization Fugitives	PM <sub>10</sub>	0.16	0.025
		VOC	0.089	0.312
CHAR-FUG	Characteristic Fugitives	PM <sub>10</sub>	0.007	0.029
		VOC	0.089	0.312
LABPAC	Lab Pack Drum Bulking	VOC	0.022	0.08
		IOC-U	0.013	0.019
DEBRIS	Consolidation	VOC	0.376	0.43
		IOC-U	0.093	0.015
SAMP	Drums	VOC	0.067	0.012
CRUSH	Drum Crusher	VOC	0.367	0.35
FUGS	Fugitives	VOC	0.050	0.22

(1) Emission point identification - either specific equipment designation or emission point number from plot plan.

(2) Specific point source name. For fugitive sources use area name

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- or fugitive source name.
- (3) VOC - volatile organic compounds as defined in General Rule 101.1
- IOC-U - inorganic compounds (unspeciated)
- NO<sub>x</sub> - 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 listed, it shall be assumed that no particulate matter greater than 10 microns is emitted.
- CO - carbon monoxide
- HCl - hydrogen chloride
- NaOH - sodium hydroxide
- H<sub>2</sub>SO<sub>4</sub> - sulfuric acid
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) The acid and caustic waste tanks are not permitted to store fluids containing any organic compounds and so are permitted zero VOC emissions.

\* 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