

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 4751

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				
QE6801U	Thermal Oxidizing Flare	VOC	5.76	1.02
		NO <sub>x</sub>	10.67	3.13
		CO	7.71	4.15
		PM <sub>10</sub>	0.06	0.03
VAFFUG	Process Fugitives (4)	VOC	9.32	40.83
VATFFUG	Tank Farm Fugitives (4)	VOC	0.83	3.62
VARTFUG	Rail/Truck Loading Fugitives (4) 1.92	VOC		0.44
VABFUG	Barge Dock Fugitives (4)	VOC	0.26	1.14
VACT	North Cooling Tower	VOC	1.26	5.52
VAV573	VAM Storage Tank	VOC	1.40	1.10
VAV574	VAM Storage Tank	VOC	1.40	1.10
VAV575	VAM Storage Tank	VOC	0.96	0.67
VAV576	VAM Storage Tank	VOC	0.96	0.67
VAV577	VAM Storage Tank	VOC	0.96	0.67
VAV605	VAM Storage Tank	VOC	1.74	0.97
VAV787	VAM Storage Tank	VOC	1.73	1.27

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Emission Emission Rates*	Source	Air Contaminant		
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
VAV5117	VAM Storage Tank	VOC	1.99	1.27
VAV5521	VAM Storage Tank	VOC	2.83	1.79
VAV580SC	Acid Rerun Tank Scrubber	VOC	1.76	0.11
VAV578SC	Acetic Acid Feed Storage	VOC	0.09	0.01
VAV579SC	Acetic Acid Feed Storage	VOC	0.09	0.01
VAV614	Wash Water Holding Tank	VOC	0.03	0.13
VAV599	Incinerator Feed Tank	VOC	2.87	0.86
VAWW5555	Holdup Tank	VOC	1.24	0.28
VAV772	Ethyl Acetate Storage Tank	VOC	1.24	0.17
AARTSC	Rail/Truck Loading Scrubber	VOC	4.37	2.04
VAFlare	Flare	VOC	44.53	15.26
		NO <sub>x</sub>	12.36	13.18
		CO	62.98	67.14
		SO <sub>2</sub>	<0.01	0.07
		SO <sub>3</sub>	<0.01	0.08
		H <sub>2</sub> S	<0.01	<0.01

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Emission Emission Rates*	Source	Air Contaminant		
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
VAWW1	South Aeration Pond	VOC	0.17	0.75
VAWW2	Offspec Pond	VOC	7.97	34.90
VAWW3	Equalization Pond	VOC	0.04	0.17
VAWW4	Storm Surge Pond	VOC	0.26	1.16
VAWW5	North Aeration Pond	VOC	0.16	0.69
VAMCATOX	Catalytic Oxidizer	VOC	1.56	6.88
		NO <sub>x</sub>	0.10	0.01
		CO	0.13	0.58
		PM <sub>10</sub>	0.01	0.06
		SO <sub>2</sub>	<0.01	0.01
VAMCATOXFUG	Catalytic Oxidizer Fugitives (4)	VOC	0.001	0.004

(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 or fugitive source name.

(3) VOC - volatile organic compounds as defined in 30 Texas Administrative Code Section 101.1

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

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 PM greater than 10 microns is emitted.

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

SO<sub>3</sub> - sulfur trioxide

H<sub>2</sub>S - hydrogen sulfide

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(4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

\* 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

Dated May 17, 2001