

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 19043

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)	Emission Rates *	
			lb/hr	TPY **
M-3800	Regenerative Thermal Oxidizer	Acetone	0.92	4.02
		CO	6.27	6.51
		NO <sub>x</sub>	0.64	2.67
		PM <sub>10</sub>	0.06	0.14
		SO <sub>2</sub>	0.02	0.01
		VOC	2.36	10.34
M-4016	Boiler	CO	2.83	12.41
		NO <sub>x</sub>	4.66	20.41
		PM <sub>10</sub>	0.51	2.24
		SO <sub>2</sub>	0.04	0.18
		VOC	0.37	1.62
SCRL	Land Water Scrubber	Acetone	2.37	0.24
SCRM	Marine Water Scrubber	Acetone	8.30	0.33
V-113	Extracted AMS Tank	VOC	0.54	0.14
V-114	Refined AMS Tank	VOC	0.54	0.14
V-303A	Batch Distillation	VOC	0.12	0.07
V-303B	Batch Distillation	VOC	0.12	0.07
V-303C	Batch Distillation	VOC	0.12	0.07
V-303D	Batch Distillation	VOC	0.12	0.01
V-304A	Miscellaneous Receiver	VOC	1.31	0.04
V-304B	Miscellaneous Receiver	VOC	1.31	0.04
V-305	Miscellaneous Receiver	VOC	1.41	0.03

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			lb/hr	TPY **
V-413	Extracted AMS Tank	VOC	1.21	0.08
V-501	Acetone Field Tank	Acetone	0.25	1.07
V-502A	Product Phenol Tank	VOC	0.17	0.38
V-502B	Product Phenol Tank	VOC	0.17	0.84
V-504	Acetone Field Tank	Acetone	0.25	1.07
V-2001A	Wastewater Tank	VOC	0.01	0.01
V-2001B	Wastewater Tank	VOC	0.01	0.01
V-2001C	Wastewater Tank	VOC	0.01	0.01
V-2004	Extracted AMS Tank	VOC	0.98	0.11
V-2007	AMS/Water Tank	VOC	0.53	0.02
V-2010A	Sprung Phenol Tank	VOC	0.01	0.01
V-2012	Waste Oil Decanter	VOC	0.08	0.01
V-2601	Wastewater Tank	VOC	0.01	0.01
V-3024	Recycle Cumene Tank	VOC	0.17	0.03
V-3110	Crude AMS Tank	VOC	2.12	0.06
V-3202A	Acetone Tank	Acetone	0.20	0.86
V-3202B	Acetone Tank	Acetone	0.20	0.86
V-3203	Crude Acetone Tank	Acetone	0.11	0.52

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			lb/hr	TPY **
V-3204	Wet Acetone Tank	Acetone VOC 0.03	0.10 0.01	0.27
V-3406A	Batch Extractor	VOC	0.06	0.01
V-3406B	Batch Extractor	VOC	0.06	0.01
V-3406C	Batch Extractor	VOC	0.06	0.01
V-3407A	Off-Test Phenol Tank	VOC	0.01	0.03
V-3407B	Off-Test Phenol Tank	VOC	0.01	0.03
V-3409	Wastewater Tank	VOC	0.01	0.01
V-3410	Tar Tank	VOC	0.03	0.01
V-3411	Wastewater Tank	VOC	0.01	0.01
V-4002	Barge/Ship Loading Losses	Acetone VOC 16.78	21.73 0.67	0.87
V-4003A	Rail Car Loading Losses	Acetone VOC 19.33	6.23 1.81	0.31
V-4003B	Tank Truck Loading Losses	Acetone VOC 19.33	6.23 1.81	0.31
V-ASP	WW Treatment (Tanks V-3402B, V-4002, V-4004A, and V-4004B)	VOC	1.64	7.00
VD-3041	Cumene Decanter	VOC	0.04	0.01
VR-PHSWR	Phenolic Sewer Riser	VOC	2.01	0.04
VS-3041	Cumene Surge Tank	VOC	1.28	0.08

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FUG-1	Oxidizer Area Fugitives (4)	Acetone	0.01	0.01
		VOC 1.85	8.11	
FUG-2	Purification Area Fugitives (4)	Acetone	0.46	2.00
		VOC	4.78	20.92

- (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) CO - carbon monoxide  
 NO<sub>x</sub> - total oxides of nitrogen  
 PM<sub>10</sub> - particulate matter (PM) 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  
 VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1.
- (4) Emission rate is an estimate and compliance is demonstrated by meeting the requirements of the applicable special conditions and permit application representations.

\* Emission rates are based on and the facilities are limited by the following maximum operating schedule:

Hrs/day 24 Days/week 7 Weeks/year 52

\*\* Compliance with annual emission limits is based on a rolling 12-month period.

Dated December 6, 2005