

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 1968

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>	
<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>	
	TPY**			
A1301	LPG Vent to A&S Flare (5)	CO	0.15	0.64
		NO <sub>x</sub>	0.03	0.13
		VOC	3.00	13.14
A1333	Vent to HIPA Flare (5)	CO	7.33	12.19
		NO <sub>x</sub>	1.44	2.39
		VOC	12.53	20.85
CLC5201	Side Draw Flasher Accumulator Vent	CO	0.33	1.46
		VOC	2.69	11.77
CDE5357	EMP Column Condenser Vent	CO	0.20	0.88
		VOC	0.02	0.10
CDE5372	Heavy Ends Column Condenser Vent	CO	0.02	0.08
		VOC	<0.1	<0.10
SHANAL	Shared Analyzer Vent	CO	0.25	1.23
AZA9200	Propylene Analyzer	CO	<0.01	0.03
		VOC	<0.01	0.03
AZA9201	Reactor Vent Analyzer	CO	<0.01	0.03
		VOC	<0.01	0.03
BAFE	BA Plant Fugitives (4)	VOC	5.67	24.84

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	TPY**			
CWT3C	Cooling Tower (5)	VOC	1.06	4.64
D341	2-Ethyl-1-Hexanol	VOC	0.49	0.08
D354	Normal Butyl Alcohol	VOC	35.43	3.01
DOCK1	Loading (5)	VOC	41.96	0.74
F347	Normal Butyl Alcohol	VOC	13.20	5.06
F349	Isobutyl Alcohol	VOC	15.07	5.27
LPGFE	LPG Fugitives (4)	VOC	2.98	13.06
T5153	Tank 5153	VOC	0.01	<0.01
T5437	Tank 5437	VOC	1.82	0.69
T5438	Tank 5438	VOC	1.63	0.61
T5444	Tank 5444	VOC	4.35	2.33
T9551	Tank 9551	VOC	1.39	0.32
T9552	Tank 9552	VOC	1.39	0.32
T9560	Tank 9560	VOC	10.56	2.22
T5433	Tank 5433	VOC	0.02	0.01
T5436	Tank 5436	VOC	0.02	0.01
T9570	Tank 9570	VOC	0.07	0.06

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	TPY**			
T5434	Tank 5434	VOC	<0.01	<0.01
T5435	Tank 5435	VOC	<0.01	<0.01
T9563	Tank 9563	VOC	3.30	0.10
T5421	Tank 5421	VOC	3.20	0.38
T9571	Tank 9571	VOC	5.38	2.56
T9568	Tank 9568	CBA	0.06	0.13
T9569	Tank 9569	COA	5.12	1.56
T5441	Tank 5441	CBA	0.80	1.17
T5442	Tank 5442	VOC	0.54	0.17
T5439	Tank 5439	VOC	0.36	0.49
T9513	Tank 9513	VOC	1.27	0.06
T9542	Tank 9542	VOC	3.09	0.17
T9523	Tank 9523	VOC	0.18	0.14
T9541	Tank 9541	VOC	0.01	<0.01
T9556	Tank 9556	VOC	0.47	0.07
T9557	Tank 9557	VOC	0.01	<0.01

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	TPY**			
T5431	Tank 5431	VOC	<0.01	<0.01
T5432	Tank 5432	VOC	<0.01	<0.01
T9572	Tank 9572	VOC	0.01	0.01
T9521B	Tank 9521B	VOC	0.03	0.01
T9565	Tank 9565	VOC	1.37	0.20
T9543	Tank 9543	VOC	<0.01	<0.01
T9561	Tank 9561	VOC	11.24	6.02
WRTC/WRTT	Loading (5)	VOC	11.48	2.84
WRTT	Loading	2EH-LE	1.22	0.24

(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

2EH-LE - 2 Ethyl Hexanol Light Ends

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

(5) Contributions from the Butyl-Octyl Alcohol Unit only.

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

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Point No. (1)	Name (2)	Name (3)	lb/hr
	TPY**		

Hrs/day \_\_ Days/week \_\_ Weeks/year \_\_ or Hrs/year 8,760

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

Dated July 11, 2001