

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 34401

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, sources, and related activities. 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	
			lbs/hour	TPY (4)
1	Additive Preparation Bag Filter	PM	0.11	0.01
3a	Regenerative Thermal Oxidizer	VOC (<i>Cyclohexane</i>)	1.47	4.09
		NOx	0.05	0.24
		CO	5.00	2.19
		SO2	0.03	0.10
		PM2.5	0.02	0.08
		PM10	0.39	1.23
3b	Regenerative Thermal Oxidizer	VOC (<i>Cyclohexane</i>)	1.47	4.09
		NOx	0.05	0.24
		CO	5.00	2.19
		SO2	0.03	0.10
		PM2.5	0.02	0.08
		PM10	0.39	1.23
5	Fugitive Emissions	VOC	1.27	5.08
		<i>Cyclohexane</i>	0.75	3.30
		<i>Hexane</i>	0.04	0.17
		<i>Butadiene</i>	0.25	0.61

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		<i>Isoprene</i>	0.11	0.50
		<i>Styrene</i>	0.11	0.50
6	Flare	VOC	72.28	9.22
		<i>Cyclohexane</i>	13.73	6.77
		<i>Hexane</i>	0.18	0.28
		<i>Styrene</i>	4.43	0.37
		<i>Isoprene</i>	27.64	1.14
		<i>Butadiene</i>	23.57	0.66
		<i>Methanol</i>	0.01	0.01
		<i>Tetrahydrofuran</i>	2.75	<0.01
		NOx	4.84	9.30
		CO	26.35	65.0
		SO2	<0.01	2.09
9	Cyclohexane Bottoms Loading	VOC	<0.01	0.02
Routine Maintenance, Start-up and Shutdown				
6	Non-Routine Flare	VOC	14.24	0.04
		<i>Cyclohexane</i>	4.28	<0.01
		<i>n-Hexane</i>	0.46	<0.01
		<i>Styrene</i>	0.00	<0.01
		<i>Butadiene</i>	5.89	0.02
		<i>Isoprene</i>	3.61	0.02

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		<i>Tetrahydrofuran</i>	0.01	<0.01
		NOx	0.84	0.01
		CO	7.17	0.01
FUGMAINT	Fugitive Maintenance	VOC	12.3	0.75
		<i>Cyclohexane</i>	12.3	0.67
		<i>Styrene</i>	0.9	0.08
Sources Covered by PBR or Standard Permit				
11	Firewater Pump	VOC	0.74	0.01
		NOx	9.30	0.24
		CO	2.00	0.05
		SO2	0.60	0.02
		PM10	0.66	0.02
		PM2.5	0.04	<0.01
12	Safety Kleen Solvent Parts Washer	VOC	0.11	0.01

Permit by rule (PBR) sources incorporated by reference. Sources remain authorized by the PBR(s) as listed below:

Wastewater Concentration Unit (Reg. No. 48638)

Loading Pumping Rate (Reg. No. 50473)

Safety Kleen Solvent (Reg. Not Required)

Wastewater Tank Vent to Flare (Reg. Not Required)

RT0 Installation (Standard Permit No. 56719)

Silica Use in Process (Reg. Not Required)

Project Number: 162908

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- (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 Title 30 Texas Administrative Code § 101.1
NO _x	-total oxides of nitrogen
SO ₂	-sulfur dioxide
PM	-total particulate matter, suspended in the atmosphere, including PM ₁₀ and PM _{2.5} , as represented
PM ₁₀	-total particulate matter equal to or less than 10 microns in diameter, including PM _{2.5} , as represented
PM _{2.5}	-particulate matter equal to or less than 2.5 microns in diameter
CO	-carbon monoxide
- (4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
- (5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.

Date: _____