

# Emission Sources - Maximum Allowable Emission Rates

Permit Number 1257A

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)
B-3-1	Flare	SO <sub>2</sub>	115.94	303.46
		CO	62.15	195.29
		VOC	61.16	162.98
		NO <sub>x</sub>	3.92	17.18
		Ammonia	0.01	0.01
		Acetone	3.23	8.45
B-3-3	Tank 34140	Acetone	0.59	0.01
		VOC	29.67	0.25
B-3-4	Tank 34120	Acetone	0.14	0.01
		VOC	0.35	0.01
B-3-5	Tank 34125	Acetone	0.15	0.04
		VOC	0.39	0.09
B-3-7	Tank 34290	VOC	26.38	0.81
B-3-8	Tank 34291	VOC	44.02	0.55
B-3-9	Tank 34326	VOC	9.76	0.13
B-3-10	Tank 34327	VOC	19.30	0.04
B-3-11	Tank 34335	Ammonia	2.44	0.04
		Acetone	29.22	0.48
		Methyl acetate	3.63	0.06
		Methyl formate	2.47	0.04
		VOC	11.87	0.20
B-3-12	Tank 34343	Acetone	10.07	0.35
		Ammonia	0.82	0.03
		VOC	4.03	0.15

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		Methyl acetate	1.25	0.04
		Methyl formate	0.85	0.03
B-3-18	Tank 34402	Ammonia	0.01	0.01
		Acetone	0.54	0.51
		VOC	0.25	0.24
		Methyl acetate	0.07	0.06
		Methyl formate	0.05	0.04
B-3-19	Tank 34426	Ammonia	0.01	0.01
		Acetone	0.44	0.48
		VOC	0.20	0.22
		Methyl acetate	0.05	0.06
		Methyl formate	0.04	0.04
B-3-20	Tank 34430	Acetone	0.05	0.06
		VOC	0.13	0.15
		Methyl acetate	0.01	0.01
		Methyl formate	0.02	0.02
B-3-22	Tank 96600	VOC	0.09	0.36
B-3-36	Tank 22080	Acetone	3.47	0.09
		VOC	1.55	0.04
		Methyl acetate	0.43	0.02
		Methyl formate	0.30	0.01
		Ammonia	0.01	0.01
B-3-39	Tank 22100	Acetone	0.06	0.03
		VOC	0.01	0.01
		SO <sub>2</sub>	0.01	0.01
B-3-40	Tank 22119	Acetone	0.01	0.01
		VOC	0.01	0.01
B-3-41	Tank 22120	Acetone	0.03	0.01
		VOC	0.01	0.01

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B-3-42	Tank 22150	VOC	0.40	0.01
B-3-43	Tank 22155	VOC	0.11	0.01
B-3-44	Tank 34670	Acetone	0.05	0.02
		VOC	0.01	0.01
B-3-47 B-3-48	B-3 Rack Fugitives (5)	SO <sub>2</sub>	0.01	0.01
		CO	0.05	0.23
		Ammonia	0.01	0.02
		Acetone	0.11	0.50
		VOC	0.68	2.98
		Methyl acetate	0.01	0.03
		Methyl formate	0.01	0.04
		Methacrylamide	0.04	0.18
		Sulfuric Acid	0.07	0.32
B-3-49 B-3-50	GMAA Rack Fugitives (5)	VOC	0.78	3.43
		Acetone	0.01	0.02
B-3-51	Scrubber	Acetone	0.01	0.01
		CO	0.01	0.01
		SO <sub>2</sub>	0.08	0.36
		VOC	0.38	1.67
B-3-52	Tank 34276	Acetone	0.05	0.01
		VOC	0.01	0.01
B-3-55	Tanks 34560 and 34730 Acid Residue Tanks	Acetone	0.13	0.12
		VOC	0.25	0.23
		Sulfuric acid	0.01	0.01

B-3-56	Tanks 96609 and T-96658 Acetone Cyanohydrin Tanks	VOC	1.94	1.99
		Acetone	0.66	0.66
B-3-57	Tanks 96616 and 96623 Stripped Crude MMA Tanks	VOC	0.32	1.25
B-3-58	Tanks 22002 and 22003 GMAA	Acetone	0.02	0.41

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		VOC	1.41	0.41
B-3-59	Tanks 22060 and 22065 GMAA Rundown Tanks	VOC	0.27	0.14
B-3-60	Tanks 22070 and 22075 GMAA Product Tanks	VOC	2.35	0.30
B-3-61	B3 Slurry Pot	VOC	1.01	0.30
		Acetone	4.45	1.30
		Ammonia	0.19	0.05
B-4-2	Tank 22125	Acetone	0.01	0.01
		VOC	0.01	0.02
		Methyl acetate	0.01	0.01
		Methyl formate	0.01	0.01
		Methacrylamide	0.01	0.01
B-4-4	Tank 33327	VOC	2.78	0.11
B-4-5	Tank 33336	Acetone	5.69	0.38
		Ammonia	0.01	0.04
		VOC	2.93	0.16
		Methyl acetate	0.56	0.04
		Methyl formate	0.45	0.04
B-4-9	B-4 Rack Fugitives (5)	Acetone	0.15	0.66
		Ammonia	0.01	0.05
		CO	0.02	0.07
		VOC	0.67	2.90
		Methyl formate	0.01	0.04
		Methyl Acetate	0.01	0.02
		Methacrylamide	0.02	0.10
		Sulfuric Acid	0.05	0.20
T-96658FU	Tank 99658	VOC	0.018	0.08
B-3-70	Tank 34248 Fugitives (5)	Sulfuric acid	0.01	0.01
		Acetone	1.58	0.01

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		SO <sub>2</sub>	0.01	0.01
		VOC	3.67	0.01
<u>Maintenance, Startup, and Shutdown (MSS)</u>				
BGMA-MSSTK	Fixed Roof Tanks MSS	Acetone	4.62	0.01
		Ammonia	0.06	0.01
		VOC	28.64	0.07
		Methyl acetate	0.11	0.01
		Methyl formate	0.16	0.01
		Sulfuric acid	1.09	0.01
B-3-9-MSS	AR Tank Roof Maintenance	Acetone	2.59	0.87
		VOC	3.63	1.22
		Sulfuric acid	0.11	0.04
BGMA-MSSFR	Floating Roof Tank MSS	VOC	2.16	0.01
BGMA-MSSPH	Pump and Heat Exchanger MSS	Acetone	0.02	0.01
		VOC	0.33	0.02
		Sulfuric acid	0.02	0.01
		Methyl acetate	0.02	0.01
		Methyl formate	0.04	0.01
BGMA-DEGAS	Equipment Degassing	Acetone	0.64	0.01
		Ammonia	0.24	0.01
		VOC	19.26	0.02
		CO	3.19	0.01
		SO <sub>2</sub>	0.10	0.01
		Methyl formate	0.21	0.01
B3-MSSLD	Light Ends Loading	Acetone	26.33	0.58
		Ammonia	0.28	0.01
		VOC	15.60	0.34
		Methyl acetate	1.68	0.04
		Methyl formate	2.48	0.05

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BGMA-MSSPT	Portable Tanks	VOC	0.14	0.01
B3MISCMSS	Miscellaneous MSS	Acetone	0.05	0.01
		Ammonia	0.01	0.01
		VOC	1.40	0.01
		Sulfuric acid	0.19	0.01
		Methyl acetate	0.01	0.01
		Methyl formate	0.01	0.01

- (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<sub>x</sub> - total oxides of nitrogen
  - SO<sub>2</sub> - sulfur dioxide
  - 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: February 18, 2019