

# Emission Sources - Maximum Allowable Emission Rates

Permit Number 49675

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)
Area D Tanks:				
S-TC1-02	Tank TC1-02 Drum Scrubber	Inorganics	0.01	0.01
S-TC1-16	Tank TC1-16 Drum Scrubber	Inorganics	0.01	0.01
S-TC1-31	Tank TC1-31Drum Scrubber	Inorganic Acids	0.34	0.01
		Inorganics	0.43	0.02
Area E Tanks:				
S-TC1-03	Tank TC1-03 Drum Scrubber	Inorganic Acids	0.49	0.02
		Inorganics	0.61	0.02
TC1-04	Tank TC1-04	Inorganic Acids	0.06	0.01
		Inorganics	11.81	0.73
TC1-07	Tank TC1-07	Inorganic Acids	0.04	0.01
		Inorganics	7.35	0.62
		VOC	7.35	0.05
S-TC1-10	Tank TC 1-10 Drum Scrubber	Inorganic Acids	0.32	0.01
		Inorganics	0.40	0.02
S-TC1-12	Tank TC1-12 Drum Scrubber	Inorganic Acids	0.28	0.01
		Inorganics	0.35	0.02
S-TC1-13	Tank TC1-13 Drum Scrubber	Inorganic Acids	0.32	0.01
		Inorganics	0.40	0.02
		VOC	0.08	0.01

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S-TC1-14	Tank TC1-14 Drum Scrubber	Inorganic Acids	0.32	0.01
		Inorganics	0.40	0.02
		VOC	0.08	0.01
S-TC1-18	Tank TC1-18 Drum Scrubber	Inorganic Acids	0.30	0.01
		Inorganics	0.38	0.02
TC1-19	Tank TC1-19	Inorganic Acids	0.03	0.01
		Inorganics	6.52	0.61
		VOC	6.52	0.04
S-TC1-32	Tank TC1-32 Drum Scrubber	Inorganic Acids	0.49	0.01
		Inorganics	0.61	0.02
<b><u>Area N Tanks:</u></b>				
TC2-01	Tank TC2-01	Inorganic Acids	0.06	0.01
		Inorganics	12.32	1.09
		VOC	12.33	0.22
		OO	12.33	1.09
TC2-03	Tank TC2-03	Inorganic Acids	0.06	0.01
		Inorganics	12.32	1.09
		VOC	12.33	0.22
		OO	12.33	1.09
TC2-05	Tank TC2-05	Inorganic Acids	0.04	0.01
		Inorganics	7.35	0.62
		VOC	7.35	0.05
		OO	7.35	0.62
<b><u>Area T Tanks:</u></b>				

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TS1-01	Tank TS1-01	VOC	24.38	0.14
		OO	24.94	2.14
TS1-02	Tank TS1-02	VOC	24.38	0.14
		OO	24.94	2.14
TS1-03	Tank TS1-03	VOC	24.38	0.14
		OO	24.94	2.14
TS1-09	Tank TS1-09	VOC	59.88	1.00
		OO	61.28	2.71
TS1-10	Tank TS1-10	VOC	24.38	0.14
		OO	24.94	2.14
TS1-11	Tank TS1-11	VOC	24.38	0.14
		OO	24.94	2.14
TS1-12	Tank TS1-12	VOC	24.38	0.14
		OO	24.94	2.14
TS1-13	Tank TS1-13	VOC	53.63	0.25
		OO	54.88	2.40
TS1-14	Tank TS1-14	VOC	53.63	0.25
		OO	54.88	2.40
TS1-15	Tank TS1-15	VOC	53.63	0.25
		OO	54.88	2.40
TS1-17	Tank TS1-17	VOC	85.81	0.42
		OO	87.81	2.80
TS1-22	Tank TS1-22	VOC	53.63	0.25
		OO	54.88	2.40
TS1-23	Tank TS1-23	VOC	53.63	0.25

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		OO	54.88	2.40
TS1-24	Tank TS1-24	VOC	53.63	0.25
		OO	54.88	2.40
TS1-25	Tank TS1-25	VOC	85.81	0.42
		OO	87.81	2.80
TS1-26	Tank TS1-26	VOC	85.81	0.42
		OO	87.81	2.80
TS1-27	Tank TS1-27	VOC	85.81	0.42
		OO	87.81	2.80
TS1-31	Tank TS1-31	VOC	53.63	0.25
		OO	54.88	2.40
TS1-32	Tank TS1-32	VOC	53.63	0.25
		OO	54.88	2.40
TS1-33	Tank TS1-33	VOC	53.63	0.25
		OO	54.88	2.40
TS1-34	Tank TS1-34	VOC	85.81	0.42
		OO	87.81	2.80
TS1-35	Tank TS1-35	VOC	85.81	0.42
		OO	87.81	2.80
TS1-36	Tank TS1-36	VOC	85.81	0.42
		OO	87.81	2.80
TS1-37	Tank TS1-37	VOC	24.38	0.14
		OO	24.94	2.14
TS1-38	Tank TS1-38	VOC	24.38	0.14
		OO	24.94	2.14
TS1-39	Tank TS1-39	VOC	24.38	0.14

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		OO	24.94	2.14
TS1-41	Tank TS1-41	VOC	24.38	0.14
		OO	24.94	2.14
TS1-42	Tank TS1-42	VOC	24.38	0.14
		OO	24.94	2.14
TS1-44	Tank TS1-44	VOC	84.52	0.67
		OO	86.49	3.73
TS1-49	Tank TS1-49	VOC	90.50	0.64
		OO	92.61	3.08
TS1-50	Tank TS1-50	VOC	90.50	0.64
		OO	92.61	3.08
TS1-51	Tank TS1-51	VOC	90.50	0.64
		OO	92.61	3.08
TS1-52	Tank TS1-52	VOC	90.50	0.64
		OO	92.61	3.08
TS1-60	Tank TS1-60	VOC	53.23	0.97
		OO	54.47	2.68
TS1-61	Tank TS1-61	VOC	53.23	0.30
		OO	54.47	2.68
<b><u>Area W Tanks</u></b>				
6A/6B	Tank TW1-01	Inorganic Acids	0.32	0.01
		Inorganics	0.40	0.02
		VOC	56.51	0.05
		OO	57.82	2.41
6A/6B	Tank TW1-02	Inorganic Acids	0.32	0.01
		Inorganics	0.40	0.02

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		VOC	56.51	0.05
		OO	57.82	2.41
6A/6B	Tank TW1-03	Inorganic Acids	0.33	0.01
		Inorganics	0.40	0.02
		VOC	57.20	0.06
		OO	58.54	2.41
6A/6B	Tank TW1-04	Inorganic Acids	0.32	0.01
		Inorganics	0.40	0.02
		VOC	56.51	0.05
		OO	57.82	2.41
6A/6B	Tank TW1-06	Inorganic Acids	0.49	0.01
		Inorganics	0.61	0.02
		VOC	85.81	0.09
		OO	87.81	2.80
6A/6B	Tank TW1-07	Inorganic Acids	0.04	0.01
		Inorganics	7.77	0.63
		VOC	56.51	0.05
		OO	57.82	2.41
6A/6B	Tank TW1-08	Inorganic Acids	0.04	0.01
		Inorganics	7.77	0.63
		VOC	56.51	0.05
		OO	57.82	2.41
6A/6B	Tank TW1-09	Inorganic Acids	0.49	0.01
		Inorganics	0.61	0.02
		VOC	85.81	0.09
		OO	87.81	2.80

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6A/6B	Tank TW1-10	Inorganic Acids	0.04	0.01
		Inorganics	7.77	0.63
		VOC	56.51	0.05
		OO	57.82	2.41
6A/6B	Tank TW1-11	Inorganic Acids	0.49	0.01
		Inorganics	0.61	0.02
		VOC	85.81	0.11
		OO	87.81	3.40
6A/6B	Tank TW1-12	Inorganic Acids	0.49	0.02
		Inorganics	0.61	0.02
		VOC	85.81	0.11
		OO	87.81	3.40
6A/6B	Tank TW1-13	Inorganic Acids	0.04	0.01
		Inorganics	7.77	0.63
		VOC	56.51	0.05
		OO	57.82	2.41
6A/6B	Tank TW1-14	Inorganic Acids	0.04	0.01
		Inorganics	7.77	0.63
		VOC	56.51	0.05
		OO	57.82	2.41
6A/6B	Tank TW1-16	Inorganic Acids	0.03	0.01
		Inorganics	5.33	0.58
		VOC	38.72	0.04
		OO	39.62	2.23
6A/6B	Tank TW1-17	Inorganic Acids	0.03	0.01
		Inorganics	6.39	0.61

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		VOC	46.48	0.04
		OO	47.56	2.31
6A/6B	Tank TW1-18	Inorganic Acids	0.02	0.01
		Inorganics	3.86	0.55
		VOC	28.06	0.03
		OO	28.71	2.10
6A/6B	Tank TW1-19	Inorganic Acids	0.03	0.01
		Inorganics	6.89	0.63
		VOC	50.05	0.06
		OO	51.22	2.80
6A/6B	Tank TW1-20	Inorganic Acids	0.04	0.01
		Inorganics	7.77	0.66
		VOC	56.51	0.07
		OO	57.82	2.93
6A/6B	Tank TW1-21	Inorganic Acids	0.04	0.01
		Inorganics	7.77	0.66
		VOC	56.51	0.07
		OO	57.82	2.93
<b><u>Loading and Repackaging</u></b>				
SCRUB1	Tower Scrubber No. 1	Inorganic Acids	0.74	0.55
		Inorganics	1.55	1.63
		VOC	62.92	3.29
		OO	64.17	15.71
SCRUB2	Tower Scrubber No. 2	Inorganic Acids	0.60	0.55
		Inorganics	1.28	1.63
		VOC	64.33	2.07



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		OO	65.67	15.47
CAS1	Carbon Adsorption System No. 1	Inorganic Acids	9.50	2.94
		Inorganics	9.50	2.94
		VOC	1.38	0.33
		OO	1.41	0.44
CAS2	Carbon Adsorption System No. 2	Inorganic Acids	4.75	10.16
		Inorganics	4.75	10.16
		VOC	0.69	0.89
		OO	0.71	1.52
TL-N1	Area N Truck Loading	VOC	4.75	0.11
		OO	4.75	2.94
<b><u>Fugitives</u></b>				
FUG-E & D	Fugitives - Area E and D (5)	VOC	0.16	0.69
FUG-N	Fugitives - Area N (5)	VOC	0.02	0.09
FUG-T	Fugitives - Area T (5)	VOC	0.25	1.09
FUG-W	Fugitives - Area W (5)	VOC	0.11	0.48
<b><u>Site-wide Annual Caps</u></b>				
SITE-WIDE ANNUAL CAP	Total without Fugitives	VOC		20.64
	Total with Fugitives	VOC		22.99
		OO		15.37
		Inorganics		3.39
		Inorganic Acids		2.69

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Boiler				
BLR-1	Natural Gas Boiler	VOC	0.01	0.02
		CO	0.06	0.24
		NO <sub>x</sub>	0.07	0.29
		SO <sub>2</sub>	0.01	0.01
		PM <sub>10</sub>	0.01	0.02
		PM <sub>2.5</sub>	0.01	0.02
Total Side-wide including Boiler				
TOTAL SITE-WIDE	Total without Fugitives	VOC		20.66
		OO		15.37
		Inorganics		3.39
		Inorganic Acids		2.69
		CO		0.24
		NO <sub>x</sub>		0.29
		SO <sub>2</sub>		0.01
		PM <sub>10</sub>		0.02
		PM <sub>2.5</sub>		0.02
	Total with Fugitives	VOC		23.01
		OO		15.37
		Inorganics		3.39
		Inorganic Acids		2.69
		CO		0.24
		NO <sub>x</sub>		0.29
		SO <sub>2</sub>		0.01
PM <sub>10</sub>			0.02	

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		PM <sub>2.5</sub>		0.02
SITEWIDE	Site-wide Sources	Individual HAP Total HAPs		< 10.00 < 25.00

- (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  
 OO - other organic  
 CO - carbon monoxide  
 NO<sub>x</sub> - total oxides of nitrogen
- SO<sub>2</sub> - sulfur dioxide  
 PM<sub>10</sub> - total particulate matter equal to or less than 10 microns in diameter, including PM<sub>2.5</sub>, as represented  
 PM<sub>2.5</sub> - particulate matter equal to or less than 2.5 microns in diameter  
 HAP - hazardous air pollutant as listed in § 112(b) of the Federal Clean Air Act or Title 40 Code of the Federal Regulations Part 63, Subpart C.
- (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: July 7, 2014