

# 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. 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	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**
<u>Area D Tanks:</u>		Inorganic	0.07	0.04
		VOC	0.01	0.01
TC1-01	Tank 1-01	Inorganic	0.04	0.01
TC1-02	Tank 1-02	Inorganic	0.01	0.01
TC1-16	Tank 1-16	Inorganic	0.01	0.01
TC1-23	Tank 1-23	VOC	0.01	0.01
TC1-24	Tank 1-24	Inorganic	0.01	0.01
Area D-TankFUG	Area D Tank Fugitives (4)	VOC	0.01	0.01
		Inorganic	0.01	0.01
<u>Area E Tanks:</u>		Inorganic Acid	0.08	0.06
		VOC 0.03	0.02	
		Inorganic	0.02	0.02
TC1-03	Tank 1-03	Inorganic Acid	0.01	0.01
TC1-04	Tank 1-04	Inorganic Acid	0.01	0.01
TC1-08	Tank 1-08	Inorganic Acid	0.01	0.01
TC1-09	Tank 1-09	Inorganic Acid	0.01	0.01
TC1-10	Tank 1-10	Inorganic	0.01	0.01
TC1-12	Tank 1-12	Inorganic	0.01	0.01
TC1-13	Tank 1-13	Inorganic Acid	0.02	0.01
TC1-14	Tank 1-14	VOC	0.02	0.01
TC1-20	Tank 1-20	VOC	0.01	0.01
TC1-25	Tank 1-25	Inorganic Acid	0.02	0.01

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
Area E-TankFUG	Area E Tank Fugitives (4)	VOC	0.04	0.01
		Inorganic Acid	0.11	0.01
		Inorganic	0.06	0.01
<u>Area N Tanks:</u>		VOC	0.45	0.04
		Inorganic	0.01	0.01
TC2-01	Tank 2-01	VOC	0.44	0.03
TC2-02	Tank 2-02	VOC	0.01	0.01
TC2-04	Tank 2-04	Inorganic	0.01	0.01
Area N-TankFUG	Area N Tank Fugitives (4)	VOC	0.03	0.01
		Inorganic	0.01	0.01
<u>Area T Tanks:</u>		VOC 110.18	1.36	
		Non-VOC Organic	49.77	0.53
TS1-01	Tank 1-01	VOC	0.01	0.01
TS1-03	Tank 1-03	VOC	0.01	0.01
TS1-06	Tank 1-06	VOC	3.07	0.02
TS1-07	Tank 1-07	VOC	3.07	0.02
TS1-09	Tank 1-09	VOC	1.35	0.06
TS1-10	Tank 1-10	VOC	0.02	0.01
TS1-11	Tank 1-11	VOC	2.48	0.01
TS1-12	Tank 1-12	VOC	3.07	0.01
TS1-13	Tank 1-13	VOC	0.31	0.01
TS1-14	Tank 1-14	VOC	1.47	0.01
TS1-15	Tank 1-15	VOC	0.17	0.01
TS1-16	Tank 1-16	VOC	3.07	0.03
TS1-17	Tank 1-17	VOC	1.20	0.01
TS1-18	Tank 1-18	VOC	1.20	0.01
TS1-19	Tank 1-19	VOC	3.07	0.01
TS1-20	Tank 1-20	VOC	0.04	0.01

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
TS1-21	Tank 1-21	VOC	0.22	0.01
TS1-22	Tank 1-22	VOC	1.20	0.01
TS1-23	Tank 1-23	VOC	3.63	0.02
TS1-24	Tank 1-24	VOC	0.01	0.01
TS1-25	Tank 1-25	VOC	9.37	0.10
TS1-26	Tank 1-26	VOC	9.30	0.36
TS1-27	Tank 1-27	VOC	23.65	0.25
TS1-28	Tank 1-28	VOC	3.07	0.01
TS1-29	Tank 1-29	VOC	2.32	0.01
TS1-30	Tank 1-30	VOC	1.29	0.01
TS1-31	Tank 1-31	VOC	1.74	0.01
TS1-32	Tank 1-32	VOC	1.17	0.01
TS1-33	Tank 1-33	VOC	0.79	0.01
TS1-34	Tank 1-34	VOC	9.37	0.10
TS1-35	Tank 1-35	VOC	3.16	0.03
TS1-36	Tank 1-36	Non-VOC Organic	49.77	0.53
TS1-37	Tank 1-37	VOC	0.65	0.01
TS1-38	Tank 1-38	VOC	0.03	0.01
TS1-39	Tank 1-39	VOC	0.28	0.01
TS1-40	Tank 1-40	VOC	6.84	0.03
TS1-41	Tank 1-41	VOC	1.67	0.01
TS1-42	Tank 1-42	VOC	6.84	0.03
TS1-44	Tank 1-44	VOC	0.01	0.01
TS1-48	Tank 1-48	VOC	0.85	0.01
TS1-105	Tank 1-105	VOC	0.84	0.04
AreaT-TankFUG	Area T Tank Fugitives (4)	VOC	1.97	0.02
		Non-VOC Organic	0.05	0.05
<u>Area W Tanks:</u>		VOC	0.08	0.08
		Inorganic	0.05	0.01
		Inorganic Acid	0.01	0.01
TW1-02	Tank 1-02	Inorganic Acid	0.01	0.01
TW1-03	Tank 1-03	Inorganic	0.01	0.01

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
TW1-04	Tank 1-04	VOC	0.01	0.01
TW1-05	Tank 1-05	Inorganic	0.01	0.01
TW1-06	Tank 1-06	Inorganic	0.01	0.01
TW1-07	Tank 1-07	VOC	0.01	0.01
TW1-08	Tank 1-08	Inorganic	0.01	0.01
TW1-11	Tank 1-11	VOC	0.01	0.01
TW1-12	Tank 1-12	Inorganic	0.01	0.01
TW1-13	Tank 1-13	VOC	0.02	0.01
TW1-14	Tank 1-14	VOC	0.03	0.01
TW1-15	Tank 1-15	VOC	0.01	0.01
TW1-19	Tank 1-19	VOC	0.01	0.01
TW1-21	Tank 1-21	VOC	0.76	0.01
Area W-TankFUG	Area W Tank Fugitives (4)	VOC	0.11	0.01
		Inorganic Acids	0.01	0.01
		Other Inorganics	0.03	0.01
EPN 6A	Warm Room Vent 1	VOC	0.43	0.01
EPN 6B	Warm Room Vent 2	VOC	0.43	0.01
<u>Area E Loading:</u>				
EPN7	Area E Loading (uncontrolled)	VOC	0.15	0.01
		Inorganics	0.39	0.01
SCRUB-LE	Area E Loading	VOC	0.46	0.24
		Inorganics	0.02	0.02
		Inorganic Acids	0.02	0.17
LE-FUG	Area E Loading Fugitives (4)	VOC	0.29	0.01
		Inorganic Acids	0.11	0.01
		Other Inorganics	0.28	0.01
<u>Area N Loading:</u>				
SCRUB-LN	Area N Loading	VOC	0.02	0.12
		Inorganics	0.09	0.19

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
LN-FUG	Area N Loading Fugitives (4)	VOC	0.06	0.01
		Inorganics	0.05	0.01
<u>Area T Loading:</u>				
EPN 9 and 10	Area T Loading (uncontrolled)	VOC	64.24	0.47
		Inorganics	0.01	0.01
SCRUB-LT	Area T Loading	VOC	1.90	2.66
		Non-VOC Organics	0.41	0.74
		Inorganic Acids	0.01	0.01
CAS-LT	Area T Loading	VOC	22.93	5.26
		Non-VOC Organics	1.76	0.05
LT-FUG	Area T Loading Fugitives (4)	VOC	5.93	0.05
		Non-VOC Organics	0.15	0.01
		Inorganic Acid	0.02	0.01
		Other Inorganics	0.05	0.01
<u>Area W Loading:</u>				
EPN 11	Area W Loading (uncontrolled)	VOC	2.34	0.01
		Inorganics	0.01	0.01
SCRUB-LW	Area W Loading	VOC	0.31	0.27
		Inorganics	0.01	0.01
CAS-LW	Area W Loading	VOC	0.02	0.01
LW-FUG	Area W Loading Fugitives (4)	VOC	2.43	0.02
		Inorganic Acid	0.04	0.01
		Other Inorganics	0.20	0.01
<u>Area D Drumming:</u>				
EPN 12	Area D Drumming (uncontrolled)	VOC	0.01	0.01
		Inorganics	0.03	0.01

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
SCRUB-DD	Area D Drumming	Inorganics	0.01	0.04
DD-FUG	Area D Drumming Fugitives (4)	VOC	0.09	0.01
		Inorganics	0.28	0.02
<u>Area E Drumming:</u>				
EPN 13	Area E Drumming (uncontrolled)	VOC	0.21	0.01
		Inorganics	0.06	0.01
SCRUB-DE	Area E Drumming	VOC	0.17	0.30
		Inorganic Acid	0.07	0.21
		Other Inorganics	0.12	0.10
DE-FUG	Area E Drumming Fugitives (4)	VOC	0.66	0.01
		Inorganic Acid	0.37	0.04
		Other Inorganics	0.64	0.06
<u>Area T Drumming:</u>				
EPN 14 and 15	Area T Drumming (uncontrolled)	VOC	49.47	0.73
		Non-VOC Organics	9.26	0.05
		Inorganics	2.22	0.02
SCRUB-DT	Area T Drumming	VOC	0.12	0.06
CAS-DT	Area T Drumming	VOC	23.70	6.02
		non-VOC Organics	2.03	0.61
DT-FUG	Area T Drumming Fugitives (4)	VOC	8.3	0.11
		Non-VOC Organics	0.48	0.01
		Inorganic Acid	0.02	0.01
		Other Inorganics	0.09	0.01

## EMISSIONS FROM SOURCE SUMMATION TABLE EMISSION RATES

## AIR CONTAMINANTS DATA

Emission	Source	Air Contaminant	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**
<u>Area W Drumming:</u>				
EPN 16	Area W Drumming (uncontrolled)	VOC	2.54	0.03
SCRUB-DW	Area W Drumming	VOC	0.25	0.21
		Non-VOC Organics	0.01	0.01
DW-FUG	Area W Drumming Fugitives (4)	VOC	3.35	0.04
		Inorganic Acids	0.11	0.01
		Other Inorganics	0.24	0.01

(1) Emission point identification - either specific equipment designation or emission point number from a plot plan.

(2) Specific point source names. For fugitive sources, use an area name or fugitive source name.

(3) 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: 8,760 hrs/year

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

Dated June 27, 2007