

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 1677

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 Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
11	Tank 11	VOC	0.16	
12	Tank 12	VOC	0.16	
13	Tank 13	VOC	0.16	
101	Tank 101	VOC	1.43	
102	Tank 102	VOC	1.14	
103	Tank 103	VOC	1.14	
104	Tank 104	VOC	2.60	
151	Tank 151	VOC	1.16	
152	Tank 152	VOC	2.60	
153	Tank 153	VOC	1.43	
251	Tank 251	VOC	11.92	
307	Tank 307	VOC	2.61	
308	Tank 308	VOC	1.22	
309	Tank 309	VOC	1.22	
310	Tank 310	VOC	1.19	

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
351	Tank 351	VOC	1.21	
352	Tank 352	VOC	1.21	
353	Tank 353	VOC	1.21	
401	Tank 401	VOC	1.23	
402	Tank 402	VOC	7.83	
403	Tank 403	VOC	1.23	
404	Tank 404	VOC	1.23	
501	Tank 501	VOC	7.55	
502	Tank 502	VOC	1.25	
503	Tank 503	VOC	1.31	
504	Tank 504	VOC	1.31	
505	Tank 505	VOC	1.31	
506	Tank 506	VOC	1.31	
507	Tank 507	VOC	1.25	
508	Tank 508	VOC	1.25	
509	Tank 509	VOC	4.50	
510	Tank 510	VOC	1.25	
511	Tank 511	VOC	4.50	
512	Tank 512	VOC	1.25	

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
513	Tank 513	VOC	4.50	
514	Tank 514	VOC	1.25	
601	Tank 601	VOC	4.61	
602	Tank 602	VOC	1.28	
603	Tank 603	VOC	4.50	
604	Tank 604	VOC	2.24	
605	Tank 605	VOC	1.26	
650	Tank 650	VOC	16.32	
651	Tank 651	VOC	1.28	
652	Tank 652	VOC	1.82	
653	Tank 653	VOC	1.17	
654	Tank 654	VOC	1.34	
655	Tank 655	VOC	1.28	
656	Tank 656	VOC	16.62	
657	Tank 657	VOC	1.34	
658	Tank 658	VOC	16.15	
659	Tank 659	VOC	1.34	
701	Tank 701	VOC	13.35	

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY
702	Tank 702	VOC	1.33	
703	Tank 703	VOC	1.33	
704	Tank 704	VOC	6.06	
705	Tank 705	VOC	0.87	
706	Tank 706	VOC	12.91	
801	Tank 801	VOC	1.33	
802	Tank 802	VOC	1.33	
803	Tank 803	VOC	1.24	
804	Tank 804	VOC	1.24	
805	Tank 805	VOC	1.24	
806	Tank 806	VOC	1.09	
807	Tank 807	VOC	1.33	
808	Tank 808	VOC	0.87	
1001	Tank 1001	VOC	5.19	
1002	Tank 1002	VOC	4.58	
1003	Tank 1003	VOC	1.25	
1004	Tank 1004	VOC	1.25	
1005	Tank 1005	VOC	1.25	
1006	Tank 1006	VOC	1.15	

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
1007	Tank 1007	VOC	1.48	
1008	Tank 1008	VOC	1.37	
1009	Tank 1009	VOC	1.48	
1010	Tank 1010	VOC	7.62	
1011	Tank 1011	VOC	1.48	
1012	Tank 1012	VOC	1.13	
1013	Tank 1013	VOC	1.49	
1014	Tank 1014	VOC	1.48	
1015	Tank 1015	VOC	1.49	
1016	Tank 1016	VOC	1.38	
1017	Tank 1017	VOC	1.13	
1018	Tank 1018	VOC	1.48	
1019	Tank 1019	VOC	1.38	
1020	Tank 1020	VOC	13.44	
1021	Tank 1021	VOC	13.44	
1022	Tank 1022	VOC	0.75	
1023	Tank 1023	VOC	0.75	
1024	Tank 1024	VOC	1.50	

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY
1025	Tank 1025	VOC	1.39	
1026	Tank 1026	VOC	4.40	
1027	Tank 1027	VOC	1.18	
1028	Tank 1028	VOC	1.37	
1029	Tank 1029	VOC	1.37	
1501	Tank 1501	VOC	0.05	
1801	Tank 1801	VOC	1.53	
1802	Tank 1802	VOC	1.53	
1901	Tank 1901	VOC	1.71	
2001	Tank 2001	VOC	0.79	
2401	Tank 2401	VOC	1.48	
2501	Tank 2501	VOC	2.22	
2502	Tank 2502	VOC	2.22	
3001	Tank 3001	VOC	1.80	
3002	Tank 3002	VOC	1.80	
3003	Tank 3003	VOC	20.42	
3004	Tank 3004	VOC	2.37	
3005	Tank 3005	VOC	2.59	
3006	Tank 3006	VOC	0.99	

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
3007	Tank 3007	VOC	10.64	
4001	Tank 4001	VOC	3.06	
4002	Tank 4002	VOC	2.02	
4003	Tank 4003	VOC	1.80	
4004	Tank 4004	VOC	1.25	
5001	Tank 5001	VOC	2.23	
5002	Tank 5002	VOC	2.23	
5003	Tank 5003	VOC	3.86	
5004	Tank 5004	VOC	20.12	
5005	Tank 5005	VOC	3.77	
5006	Tank 5006	VOC	3.77	
5007	Tank 5007	VOC	3.80	
5008	Tank 5008	VOC	3.79	
5009	Tank 5009	VOC	3.78	
5501	Tank 5501	VOC	2.05	
5502	Tank 5502	VOC	2.05	
6501	Tank 6501	VOC	1.61	
11201	Tank 11201	VOC	2.20	

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY
11202	Tank 11202	VOC	2.20	
	All Tanks Together	VOC		72.5
CTF LDG	Central Tank Farm Loading	VOC	27.70	
ETF LDG	East Tank Farm Loading	VOC	27.70	
STF LDG	South Tank Farm Loading	VOC	24.00	
WTF LDG	West Tank Farm Loading	VOC	27.70	
	All Tank Farms Loading Fugitives	VOC		31.00
D 15	Dock 15 Loading	VOC	50.25	
D 16	Dock 16 Loading	VOC	50.25	
D 19B	Dock 19b Loading	VOC	50.25	
	All Dock Loading Fugitives	VOC		15.00



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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
F-1	Flare 1	VOC	48.30	
		NO <sub>x</sub>	6.40	
		CO	12.77	
F-2	Flare 2	VOC	48.30	
		NO <sub>x</sub>	2.25	
		CO	16.24	
F-1,F-2	Flares 1 and 2 Combined	VOC		7.301
		NO <sub>x</sub>		1.086
		CO		2.927
F-3	Flare 3	VOC	92.00	3.85
		NO <sub>x</sub>	1.62	0.07
		CO	13.90	0.53
F-4	Flare 4	VOC	29.48	4.04
		NO <sub>x</sub>	4.74	3.54
		CO	36.65	12.80
B 1	Boiler 1	PM	0.03	0.14
		SO <sub>2</sub>	<0.01	0.02
		NO <sub>x</sub>	0.63	2.75
		CO	0.13	0.16
		VOC	0.04	0.16
B 2	Boiler 2	PM	0.07	0.28
		SO <sub>2</sub>	<0.01	0.04
		NO <sub>x</sub>	1.26	5.50
		CO	0.26	1.10
		VOC	0.07	0.31

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
B 3	Hot Oil Heater	PM	0.02	0.05
		SO <sub>2</sub>	<0.01	<0.01
		NO <sub>x</sub>	0.21	0.92
		CO	0.05	0.19
		VOC	0.02	0.06
B 4	Central Tank Farm Boiler	PM	0.07	0.28
		SO <sub>2</sub>	<0.01	0.04
		NO <sub>x</sub>	1.26	1.50
		CO	0.26	1.10
		VOC	0.07	0.31
30W	Tank 30W Wastewater	VOC	0.12	0.17
FUG	Fugitives (4)	VOC	32.68	143.14

- (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) PM - particulate matter, suspended in the atmosphere, including PM<sub>10</sub>.  
 PM<sub>10</sub> - particulate matter equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no particulate matter greater than 10 microns is emitted.  
 VOC - volatile organic compounds as defined in 30 Texas Administrative Code Section 101.1  
 NO<sub>x</sub> - total oxides of nitrogen  
 SO<sub>2</sub> - sulfur dioxide  
 CO - carbon monoxide
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

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

Hrs/day 24 Days/week 7 Weeks/year 52 or Hrs/year 8,760

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			<u>lb/hr</u>	<u>TPY</u>

Dated November 28, 2000