

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 49134

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**
37FUG_001	Duosol Fugitive Area (4)	VOC	6.28	27.51
37TFX_0364	Storage Vessel 364	VOC	0.26	<0.01
37STK_001	Extract Heater N4/P4	PM <sub>10</sub>	0.07	0.32
		SO <sub>2</sub>	0.26	1.12
		NO <sub>x</sub>	0.98	4.29
		CO	0.79	3.46
		VOC	0.05	0.23
37VNT_001	N4 Vacuum Eductor Vent	VOC	<0.01	<0.01
37VNT_002	P4 Vacuum Eductor Vent (4)	VOC	<0.01	<0.01
38FUG_001	Furfural 1 Fugitive Area	VOC	4.79	20.97
38CLT_009	Cooling Tower No. 9 (5)	VOC (6)	4.95	21.68
		VOC (7)	1.16	5.06
38VNT_001	Furfural 1 Condenser Vent	VOC	0.68	2.99
38STK_001	Extract Heater B-1/B-2	PM <sub>10</sub>	0.26	0.95
		SO <sub>2</sub>	0.89	3.32
		NO <sub>x</sub>	3.40	12.70
		CO	2.75	10.23
		VOC	0.18	0.69

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
38STK_002	Extract Heater B2-A	PM <sub>10</sub>	0.19	0.70
		SO <sub>2</sub>	0.65	2.45
		NO <sub>x</sub>	2.50	9.37
		CO	2.02	7.55
		VOC	0.14	0.51
39FUG_001	Furfural 2 Fugitive Area (4)	VOC	6.11	26.75
39CLT_008	Cooling Tower No. 8 (5)	VOC (6)	1.30	5.68
		VOC (7)	0.30	1.89
39VNT_001	Furfural 2 Condenser Vent	VOC	0.43	1.89
39STK_001	Extract Heater BA-1/BA-2	PM <sub>10</sub>	0.46	1.84
		SO <sub>2</sub>	1.59	6.40
		NO <sub>x</sub>	6.83	27.47
		CO	4.94	19.75
		VOC	0.33	1.33
38VNT_002	Furfural 1 Deaerator Vent	VOC	0.01	0.02
39VNT_002	Furfural 2 Deaerator Vent	VOC	0.01	0.04
37TFX_4099	Storage Vessel N5	VOC	4.96	<0.01
39STK_002	Extract Heater B-103	PM <sub>10</sub>	0.11	0.44
		SO <sub>2</sub>	0.39	1.53
		NO <sub>x</sub>	1.50	5.87
		CO	1.21	4.73
		VOC	0.08	0.32
37TFX_0483	Storage Vessel 483	VOC	0.15	<0.01
37TFX_4027	Storage Vessel 4027	VOC	<0.01	<0.01

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY**
38TFX4032	Storage Vessel 4032	VOC	8.84	0.02
38TFX_4033	Storage Vessel 4033	VOC	8.84	0.01
38VNT_003	Sump 4086	VOC	0.01	<0.01
38TFX_4090	Storage Vessel F14	VOC	8.83	0.02
39TFX_4036	Storage Vessel 4036	VOC	5.31	0.02
39VNT_003	Sump F7	VOC	0.09	<0.01
44TFX_2198	Lube Tank No. 2198	VOC	0.04	0.05
44TFX_2199	Lube Tank No. 2199	VOC	0.04	0.05
44TFX_0350	Lube Tank No. 350	VOC	0.02	<0.01
44TFX_0410	Lube Tank No. 410	VOC	0.02	<0.01
44TFX_0560	Lube Tank No. 560	VOC	0.06	0.01
44TFX_0569	Lube Tank No. 569	VOC	0.07	0.01
44TFX_0570	Lube Tank No. 570	VOC	0.07	0.01
44TFX_0577	Lube Tank No. 577	VOC	0.07	0.01
44TFX_0580	Lube Tank No. 580	VOC	0.06	0.02
44TFX_0582	Lube Tank No. 582	VOC	0.03	<0.01
44TFX_0583	Lube Tank No. 583	VOC	0.06	0.02
44TFX_0584	Lube Tank No. 584	VOC	0.03	0.01
44TFX_0585	Lube Tank No. 585	VOC	0.03	0.01

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY**
44TFX_0652	Lube Tank No. 652	VOC	1.26	0.02
44TFX_0697	Lube Tank No. 697	VOC	0.06	<0.01
44TFX_0698	Lube Tank No. 698	VOC	0.07	<0.01
44TFX_0722	Lube Tank No. 722	VOC	0.03	<0.01
44TFX_0746	Lube Tank No. 746	VOC	0.03	0.01
44TFX_0748	Lube Tank No. 748	VOC	0.01	<0.01
44TFX_0749	Lube Tank No. 749	VOC	0.01	<0.01
44TFX_0792	Lube Tank No. 792	VOC	0.02	0.01
44TFX_0798	Lube Tank No. 798	VOC	0.06	0.02
44TFX_1106	Lube Tank No. 1106	VOC	0.03	0.03
44TFX_1107	Lube Tank No. 1107	VOC	0.03	0.03
44TFX_1110	Lube Tank No. 1110	VOC	0.03	<0.01
44TFX_1111	Lube Tank No. 1111	VOC	0.03	0.01
44TFX_1112	Lube Tank No. 1112	VOC	0.03	0.01
44TFX_1114	Lube Tank No. 1114	VOC	0.03	0.03
44TFX_1118	Lube Tank No. 1118	VOC	0.01	0.01
44TFX_1119	Lube Tank No. 1119	VOC	0.03	0.01
44TFX_1120	Lube Tank No. 1120	VOC	0.06	0.01

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY**
44TFX_1121	Lube Tank No. 1121	VOC	0.06	<0.01
44TFX_1130	Lube Tank No. 1130	VOC	<0.01	<0.01
44TFX_1133	Lube Tank No. 1133	VOC	0.03	<0.01
44TFX_1134	Lube Tank No. 1134	VOC	0.03	<0.01
44TFX_1135	Lube Tank No. 1135	VOC	0.03	0.01
44TFX_1136	Lube Tank No. 1136	VOC	0.03	0.01
44TFX_1154	Lube Tank No. 1154	VOC	0.06	<0.01
44TFX_1155	Lube Tank No. 1155	VOC	0.06	<0.01
44TFX_1156	Lube Tank No. 1156	VOC	0.06	<0.01
44TFX_1168	Lube Tank No. 1168	VOC	<0.01	0.01
44TFX_1169	Lube Tank No. 1169	VOC	<0.01	0.01
44TFX_1170	Lube Tank No. 1170	VOC	0.01	<0.01
44TFX_1171	Lube Tank No. 1171	VOC	0.01	<0.01
44TFX_1172	Lube Tank No. 1172	VOC	0.01	<0.01
44TFX_1176	Lube Tank No. 1176	VOC	0.06	<0.01
44TFX_1177	Lube Tank No. 1177	VOC	0.06	<0.01
44TFX_1178	Lube Tank No. 1178	VOC	0.01	<0.01
44TFX_1179	Lube Tank No. 1179	VOC	0.01	<0.01

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY**
44TFX_1180	Lube Tank No. 1180	VOC	0.03	<0.01
44TFX_1183	Lube Tank No. 1183	VOC	0.01	<0.01
44TFX_1184	Lube Tank No. 1184	VOC	0.01	<0.01
44TFX_1186	Lube Tank No. 1186	VOC	0.01	<0.01
44TFX_1187	Lube Tank No. 1187	VOC	0.03	<0.01
44TFX_1188	Lube Tank No. 1188	VOC	0.03	<0.01
44TFX_1193	Lube Tank No. 1193	VOC	0.03	<0.01
44TFX_1194	Lube Tank No. 1194	VOC	<0.01	<0.01
44TFX_1197	Lube Tank No. 1197	VOC	0.03	<0.01
44TFX_1198	Lube Tank No. 1198	VOC	0.06	<0.01
44TFX_1199	Lube Tank No. 1199	VOC	0.06	<0.01
44TFX_1200	Lube Tank No. 1200	VOC	0.06	<0.01
44TFX_1201	Lube Tank No. 1201	VOC	0.06	<0.01
44TFX_1202	Lube Tank No. 1202	VOC	0.03	<0.01
44TFX_1203	Lube Tank No. 1203	VOC	0.03	<0.01
44TFX_1204	Lube Tank No. 1204	VOC	<0.01	<0.01
44TFX_1205	Lube Tank No. 1205	VOC	0.06	<0.01
44TFX_1206	Lube Tank No. 1206	VOC	0.06	<0.01

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY**
44TFX_1207	Lube Tank No. 1207	VOC	0.04	<0.01
44TFX_1208	Lube Tank No. 1208	VOC	0.04	<0.01
44TFX_1209	Lube Tank No. 1209	VOC	0.04	<0.01
44TFX_1210	Lube Tank No. 1210	VOC	0.04	<0.01
44TFX_1211	Lube Tank No. 1211	VOC	0.04	<0.01
44TFX_1224	Lube Tank No. 1224	VOC	0.03	0.01
44TFX_1226	Lube Tank No. 1226	VOC	0.01	<0.01
44TFX_1227	Lube Tank No. 1227	VOC	0.01	<0.01
44TFX_1232	Lube Tank No. 1232	VOC	0.31	0.04
44TFX_1262	Lube Tank No. 1262	VOC	0.03	0.01
44TFX_1264	Lube Tank No. 1264	VOC	0.01	0.01
44TFX_1273	Lube Tank No. 1273	VOC	0.01	<0.01
44TFX_1278	Lube Tank No. 1278	VOC	0.06	<0.01
44TFX_1279	Lube Tank No. 1279	VOC	0.06	0.01
44TFX_1280	Lube Tank No. 1280	VOC	0.01	0.01
44TFX_1282	Lube Tank No. 1282	VOC	0.01	0.01
44TFX_1283	Lube Tank No. 1283	VOC	0.03	0.01
44TFX_1285	Lube Tank No. 1285	VOC	0.06	0.01

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			<u>lb/hr</u>	<u>TPY**</u>
44TFX_1286	Lube Tank No. 1286	VOC	0.01	0.01
44TFX_1287	Lube Tank No. 1287	VOC	0.06	0.01
44TFX_1288	Lube Tank No. 1288	VOC	0.06	0.01
44TFX_1289	Lube Tank No. 1289	VOC	0.06	0.01
44TFX_1290	Lube Tank No. 1290	VOC	0.06	0.01
44TFX_1292	Lube Tank No. 1292	VOC	0.01	<0.01
44TFX_1293	Lube Tank No. 1293	VOC	0.01	<0.01
44TFX_1328	Lube Tank No. 1328	VOC	0.06	0.02
44TFX_1368	Lube Tank No.1368	VOC	0.06	0.02
44TFX_1369	Lube Tank No. 1369	VOC	0.06	0.02
44TFX_1370	Lube Tank No. 1370	VOC	0.01	0.01
44TFX_1371	Lube Tank No. 1371	VOC	0.01	<0.01
44TFX_1382	Lube Tank No. 1382	VOC	0.01	<0.01
44TFX_1386	Lube Tank No. 1386	VOC	0.01	<0.01
44TFX_1393	Lube Tank No. 1393	VOC	0.03	0.01
44TFX_2100	Lube Tank No. 2100	VOC	0.04	<0.01
44TFX_2101	Lube Tank No. 2101	VOC	0.02	<0.01
44TFX_2106	Lube Tank No. 2106	VOC	0.02	0.01



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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY**
44TFX_2124	Lube Tank No. 2124	VOC	0.03	0.02
44TFX_2125	Lube Tank No. 2125	VOC	0.03	0.02
44TFX_2128	Lube Tank No. 2128	VOC	0.03	0.02
44TFX_2145	Lube Tank No. 2145	VOC	0.02	0.01
44TFX_2146	Lube Tank No. 2146	VOC	0.02	0.01
44TFX_2147	Lube Tank No. 2147	VOC	0.02	0.01
44TFX_2183	Lube Tank No. 2183	VOC	0.61	0.02
44TFX_2184	Lube Tank No. 2184	VOC	0.61	0.02
44TFX_2185	Lube Tank No. 2185	VOC	0.04	0.03
44TFX_2186	Lube Tank No. 2186	VOC	0.04	0.01
44TFX_2196	Lube Tank No. 2196	VOC	0.03	<0.01
44TFX_2222	Lube Tank No. 2222	VOC	0.04	0.05
44TFX_2234	Lube Tank No. 2234	VOC	0.04	0.01
44TIF_1294	Lube Tank No. 1294	VOC	0.17	0.38
44TIF_1295	Lube Tank No. 1295	VOC	0.16	0.13
44TIF_1296	Lube Tank No. 1296	VOC	0.19	0.34
44FUG_001	Lube Tank Farm Fugitives (4)	VOC	5.37	23.53
44LRA_010	Railcar/Tank Truck Loading	VOC	3.83	0.09

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
	Rack 10			
44LRA_002	Railcar/Tank Truck Loading Rack 2	VOC	3.83	0.12

- (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  
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 PM greater than 10 microns is emitted.  
SO<sub>2</sub> - sulfur dioxide  
NO<sub>x</sub> - total oxides of nitrogen  
CO - carbon monoxide
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) These emission rates are not in effect until September 1, 2006.
- (6) Pre emission control (to be completed by January 2, 2007).
- (7) Post emission control (to be completed by January 2, 2007).

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

\_\_\_\_\_Hrs/day \_\_\_\_Days/week \_\_\_\_\_Weeks/year or 8,760 Hrs/year

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

Dated August 24, 2005