

## 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	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	VOC	<0.01	<0.01
38FUG_001	Furfural 1 Fugitive Area	VOC	4.79	20.97
38CLT_009	Cooling Tower No. 9 (5)	VOC	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
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	VOC	6.11	26.75

Record Number: 83438

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
39CLT_008	Cooling Tower No. 8 (5)	VOC	0.30	1.32
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	5.86
		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
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

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			lb/hr	TPY**
39TFX_4036	Storage Vessel 4036	VOC	5.31	0.02
39VNT_003	Sump F7	VOC	0.09	<0.01
44TFX_2198	Lube Tank # 2198	VOC	0.04	0.05
44TFX_2199	Lube Tank # 2199	VOC	0.04	0.05
44TFX_0350	Lube Tank # 350	VOC	0.02	<0.01
44TFX_0410	Lube Tank # 410	VOC	0.02	<0.01
44TFX_0560	Lube Tank # 560	VOC	0.06	0.01
44TFX_0569	Lube Tank # 569	VOC	0.07	0.01
44TFX_0570	Lube Tank # 570	VOC	0.07	0.01
44TFX_0577	Lube Tank # 577	VOC	0.07	0.01
44TFX_0580	Lube Tank # 580	VOC	0.06	0.02
44TFX_0582	Lube Tank # 582	VOC	0.03	<0.01
44TFX_0583	Lube Tank # 583	VOC	0.06	0.02
44TFX_0584	Lube Tank # 584	VOC	0.03	0.01
44TFX_0585	Lube Tank # 585	VOC	0.03	0.01
44TFX_0652	Lube Tank # 652	VOC	1.26	0.02
44TFX_0697	Lube Tank # 697	VOC	0.06	<0.01
44TFX_0698	Lube Tank # 698	VOC	0.07	<0.01

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
44TFX_0722	Lube Tank # 722	VOC	0.03	<0.01
44TFX_0746	Lube Tank # 746	VOC	0.03	0.01
44TFX_0748	Lube Tank # 748	VOC	<0.01	<0.01
44TFX_0749	Lube Tank # 749	VOC	<0.01	<0.01
44TFX_0792	Lube Tank # 792	VOC	0.02	0.01
44TFX_0798	Lube Tank # 798	VOC	0.06	0.02
44TFX_1106	Lube Tank # 1106	VOC	0.03	0.03
44TFX_1107	Lube Tank # 1107	VOC	0.03	0.03
44TFX_1110	Lube Tank # 1110	VOC	0.03	<0.01
44TFX_1111	Lube Tank # 1111	VOC	0.03	0.01
44TFX_1112	Lube Tank # 1112	VOC	0.03	0.01
44TFX_1114	Lube Tank # 1114	VOC	0.03	0.03
44TFX_1118	Lube Tank # 1118	VOC	0.01	0.01
44TFX_1119	Lube Tank # 1119	VOC	0.03	0.01
44TFX_1120	Lube Tank # 1120	VOC	0.06	0.01
44TFX_1121	Lube Tank # 1121	VOC	0.06	<0.01
44TFX_1130	Lube Tank # 1130	VOC	<0.01	<0.01

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
44TFX_1133	Lube Tank # 1133	VOC	0.03	<0.01
44TFX_1134	Lube Tank # 1134	VOC	0.03	<0.01
44TFX_1135	Lube Tank # 1135	VOC	0.03	0.01
44TFX_1136	Lube Tank # 1136	VOC	0.03	0.01
44TFX_1154	Lube Tank # 1154	VOC	0.06	<0.01
44TFX_1155	Lube Tank # 1155	VOC	0.06	<0.01
44TFX_1156	Lube Tank # 1156	VOC	0.06	<0.01
44TFX_1168	Lube Tank # 1168	VOC	<0.01	0.01
44TFX_1169	Lube Tank # 1169	VOC	<0.01	0.01
44TFX_1170	Lube Tank # 1170	VOC	0.01	<0.01
44TFX_1171	Lube Tank # 1171	VOC	0.01	<0.01
44TFX_1172	Lube Tank # 1172	VOC	0.01	<0.01
44TFX_1176	Lube Tank # 1176	VOC	0.06	<0.01
44TFX_1177	Lube Tank # 1177	VOC	0.06	<0.01
44TFX_1178	Lube Tank # 1178	VOC	0.01	<0.01
44TFX_1179	Lube Tank # 1179	VOC	0.01	<0.01
44TFX_1180	Lube Tank # 1180	VOC	0.03	<0.01
44TFX_1183	Lube Tank # 1183	VOC	0.01	<0.01

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
44TFX_1184	Lube Tank # 1184	VOC	0.01	<0.01
44TFX_1186	Lube Tank # 1186	VOC	0.01	<0.01
44TFX_1187	Lube Tank # 1187	VOC	0.03	<0.01
44TFX_1188	Lube Tank # 1188	VOC	0.03	<0.01
44TFX_1193	Lube Tank # 1193	VOC	0.03	<0.01
44TFX_1194	Lube Tank # 1194	VOC	<0.01	<0.01
44TFX_1197	Lube Tank # 1197	VOC	0.03	<0.01
44TFX_1198	Lube Tank # 1198	VOC	0.06	<0.01
44TFX_1199	Lube Tank # 1199	VOC	0.06	<0.01
44TFX_1200	Lube Tank # 1200	VOC	0.06	<0.01
44TFX_1201	Lube Tank # 1201	VOC	0.06	<0.01
44TFX_1202	Lube Tank # 1202	VOC	0.03	<0.01
44TFX_1203	Lube Tank # 1203	VOC	0.03	<0.01
44TFX_1204	Lube Tank # 1204	VOC	<0.01	<0.01
44TFX_1205	Lube Tank # 1205	VOC	0.06	<0.01
44TFX_1206	Lube Tank # 1206	VOC	0.06	<0.01
44TFX_1207	Lube Tank # 1207	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**
44TFX_1208	Lube Tank # 1208	VOC	0.04	<0.01
44TFX_1209	Lube Tank # 1209	VOC	0.04	<0.01
44TFX_1210	Lube Tank # 1210	VOC	0.04	<0.01
44TFX_1211	Lube Tank # 1211	VOC	0.04	<0.01
44TFX_1224	Lube Tank # 1224	VOC	0.03	0.01
44TFX_1226	Lube Tank # 1226	VOC	0.01	<0.01
44TFX_1227	Lube Tank # 1227	VOC	0.01	<0.01
44TFX_1232	Lube Tank # 1232	VOC	0.31	0.04
44TFX_1262	Lube Tank # 1262	VOC	0.03	0.01
44TFX_1264	Lube Tank # 1264	VOC	0.01	0.01
44TFX_1273	Lube Tank # 1273	VOC	0.01	<0.01
44TFX_1278	Lube Tank # 1278	VOC	0.06	<0.01
44TFX_1279	Lube Tank # 1279	VOC	0.06	0.01
44TFX_1280	Lube Tank # 1280	VOC	0.01	0.01
44TFX_1282	Lube Tank # 1282	VOC	0.01	0.01
44TFX_1283	Lube Tank # 1283	VOC	0.03	0.01
44TFX_1285	Lube Tank # 1285	VOC	0.06	0.01
44TFX_1286	Lube Tank # 1286	VOC	0.01	0.01

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



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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
44TFX_2124	Lube Tank # 2124	VOC	0.03	0.02
44TFX_2125	Lube Tank # 2125	VOC	0.03	0.02
44TFX_2128	Lube Tank # 2128	VOC	0.03	0.02
44TFX_2145	Lube Tank # 2145	VOC	0.02	0.01
44TFX_2146	Lube Tank # 2146	VOC	0.02	0.01
44TFX_2147	Lube Tank # 2147	VOC	0.02	0.01
44TFX_2183	Lube Tank # 2183	VOC	0.61	0.02
44TFX_2184	Lube Tank # 2184	VOC	0.61	0.02
44TFX_2185	Lube Tank # 2185	VOC	0.04	0.03
44TFX_2186	Lube Tank # 2186	VOC	0.04	0.01
44TFX_2196	Lube Tank # 2196	VOC	0.03	<0.01
44TFX_2222	Lube Tank # 2222	VOC	0.04	0.05
44TFX_2234	Lube Tank # 2234	VOC	0.04	0.01
44TIF_1294	Lube Tank # 1294	VOC	0.17	0.38
44TIF_1295	Lube Tank # 1295	VOC	0.16	0.13
44TIF_1296	Lube Tank # 1296	VOC	0.19	0.34
44FUG_001	Lube Tank Farm Fugitives	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 30 Texas Administrative Code Section 101.1  
NO<sub>x</sub> - total oxides of nitrogen  
SO<sub>2</sub> - sulfur dioxide  
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.  
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.

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

\_\_\_\_Hrs/day \_\_\_\_Days/week \_\_\_\_Weeks/year or 8760 Hrs/year

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