EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 3537

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**
2	Crude Pine Oil Reactor	VOC	0.48	0.29
4	Boiler, Holman-Continental	CO	1.89	7.45
		NO_x	1.26	4.97
		PM 0.06	0.25	
		VOC	0.20	0.79
		SO_2	0.01	0.05
5	Bulk Loading Rack	VOC	3.29	0.05
6	Rail Car Loading	VOC	0.24	0.01
7	Tank 101	VOC	1.23	0.19
8	Tank 102	VOC	0.90	0.33
9	Tank 103	VOC	0.06	0.01
10	Tank 104	VOC	0.06	0.01
11	Tank 105	VOC	0.06	0.01
12	Tank 106	VOC	0.06	0.01
13	Tank 107	VOC	0.25	0.01
14	Tank 108	VOC	0.26	0.01
15	Tank 109	VOC	0.09	0.01

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY**
16	Tank 110	VOC	0.15	0.01
17	Tank 111	VOC	0.25	0.01
18	Tank 112	VOC	0.06	0.01
19	Tank 113	VOC	0.04	0.01
20	Tank 114	VOC	0.48	0.10
21	Tank 115	VOC	0.94	0.01
22	Tank 117	VOC	0.16	0.01
23	Tank 119	VOC	0.07	0.01
24	Tank 120	VOC	0.81	0.08
25	Tank 121	Tall Oil Fatty Acids	0.01	0.01
26	Tank 123	VOC	0.17	0.01
27	Tank 124	VOC	0.04	0.01
28	Tank 125	VOC	0.04	0.01
29	Tank 145	VOC	1.13	0.04
31	Tank 176	VOC	1.22	0.01
32	Tank 177A	VOC	0.41	0.01
33	Tank 177B	VOC	0.41	0.01
34	Tank 179	VOC	1.30	0.16

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY**
35	Tank 180	VOC	0.81	0.04
36	Tank 181	VOC	0.81	0.05
37	Tank 182	VOC	0.20	0.03
38	Tank 183	VOC	1.30	0.07
39	Tank 184	VOC	0.86	0.10
40	Tank 185	VOC	1.50	0.15
41	Tank 187	VOC	1.38	0.01
42	Tank 188	VOC	1.38	0.01
43	Tank 189A	VOC	1.38	0.01
44	Tank 189B	VOC	1.38	0.01
45	Tank 190	VOC	1.38	0.01
46	Tank 192	VOC	0.79	0.03
48	Tank 194	VOC	0.03	0.01
49	Fugitives (4)	VOC	0.70	3.05
50	Tank 11A	VOC	0.19	0.07
51	Tank 11B	VOC	0.21	0.07
52	Pine Soap Reactor	VOC	0.02	0.01
53	Crude Pine Oil Washer	VOC	0.21	0.04

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY**
54	Crude Pine Oil Washer	VOC	0.21	0.04
55	Crude Pine Oil Washer	VOC	0.21	0.07
56	Tank 116	VOC	0.80	0.09
57	Tank 118B	VOC	0.49	0.28
58	Tank 178	VOC	0.58	0.02
59	Tank 186	VOC	0.96	0.01
60	Tank 191	VOC	0.96	0.01
61	Tank 195	VOC	0.04	0.01
62	Tank 196	VOC	0.72	0.09
63	Tank 197A	VOC	0.82	0.06
64	Tank 197B	VOC	0.82	0.06
65	Tank 198	VOC	0.98	0.07
66	Tank 199	VOC	0.26	0.02
67	Tank 200	VOC	0.05	0.01
68	Tank 201	VOC	0.45	0.10
69	Tank 202	VOC	0.05	0.01
70	Tank 203	VOC	0.54	0.01
71	Tank 204	VOC	0.60	0.01

72	Tank 205 Scrubber		VOC	0.02	0.01
73	Tank 206		VOC	0.72	0.09
74	Tank 207		VOC	0.72	0.09
75	Tank 208		VOC	0.72	0.09
76	Tank 209		VOC	0.98	0.07
77	Tank 210		VOC	0.98	0.07
78	Tank 211		VOC	0.98	0.07
79	Tower Nos. 1 and 2 Receiver Tanks		VOC	0.26	0.19
80	Tower No. 3 Receiver Tank		VOC	0.32	0.45
81	Tower No. 4 Receiver Tank		VOC	0.43	0.01
82	Scrubber, SCRUB-2 (5)		VOC	3.71	2.43
83	Scrubber, SCRUB-3 (5)		VOC	6.91	3.66
84	Boiler, Cleaver-Brooks		CO	2.20	6.86
			NO_x	2.51	6.36
		PM	0.30	0.81	
			VOC	0.37	1.13
			SO_2	2.37	3.70

EMISSION SOURCES – MAXIMUM ALLOWABLE EMISSION RATES

(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
NO_x - total oxides of nitrogen
SO_2 - sulfur dioxide
CO - carbon monoxide
PM - particulate matter, suspended in the atmosphere, including PM_{10}

(4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
(5) The potential emissions from Cooling Towers Nos. 1 and 2 are included in allowable emissions of these two condenser/scrubbers systems.

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

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

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

Dated _____