Emission Sources - Maximum Allowable Emission Rates

Permit Number 7195A

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, sources, and related activities. 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	
			lbs/hour	TPY (4)
7a	Flare	VOC	31.0	19.0
		Benzene	0.4	0.24
		NOx	4.6	3.8
		CO	9.1	7.6
1001	Tank 1001 (9)	VOC	3.17	10.28
1002	Tank 1002	VOC	12.0	3.0
1003	Tank 1003	VOC	2.29	7.12
1004	Tank 1004	VOC	2.26	6.95
1005	Tank 1005 (9)	VOC	10.28	0.27
1006	Tank 1006 (9)	VOC	10.28	0.27
1007	Tank 1007	Lube Oil	12.1	0.4
1008	Tank 1008	Lube Oil	12.1	0.4
1009	Tank 1009	VOC	1.78	0.27
1010	Tank 1010	Lube Oil	12.1	0.4
1011	Tank 1011	Lube Oil	12.1	0.4
1012	Tank 1012 (9)	VOC	2.71	4.0
1013	Tank 1013	Lube Oil	12.1	0.5
1014	Tank 1014	Lube Oil	12.1	0.8
1015	Tank 1015	Lube Oil	12.1	0.5
1016	Tank 1016	Lube Oil	12.0	0.1
1017	Tank 1017 (9)	VOC	1.4	0.02
1018	Tank 1018	VOC	1.54	4.04
1019	Tank 1019	VOC	1.76	4.01
2100	Tank 2100	VOC	2.09	0.1
2101	Tank 2101	Lube Oil	12.0	0.1
2103	Tank 2103 (9)	VOC	5.31	0.07

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2104	Tank 2104 (9)	VOC	5.31	0.07
2105	Tank 2105 (9)	VOC	5.31	0.07
2106	Tank 2106 (9)	VOC	5.31	0.07
2107	Tank 2107 (9)	VOC	5.31	0.07
2108	Tank 2108 (9)	VOC	5.31	0.07
2117	Tank 2117	Lube Oil	12.1	0.6
2118	Tank 2118 (9)	VOC	10.34	0.35
2119	Tank 2119	Veg Oil	0.1	0.1
2120	Tank 2120 (9)	VOC	10.29	0.29
2121	Tank 2121 (9)	VOC	10.28	0.07
2122	Tank 2122	Veg Oil	0.1	0.1
2123	Tank 2123	Veg Oil	0.1	0.1
2124	Tank 2124	Lube Oil	12.2	0.8
2125	Tank 2125	Veg Oil	0.1	0.1
2126	Tank 2126	Veg Oil	0.1	0.1
2127	Tank 2127	Veg Oil	0.1	0.1
2128	Tank 2128	Veg Oil	0.1	0.1
2129	Tank 2129	Veg Oil	0.1	0.1
2130	Tank 2130 (9)	VOC	10.26	0.78
2131	Tank 2131	VOC	0.1	0.5
2132	Tank 2132	Veg Oil	0.1	0.1
2140	Tank 2140 (9)	VOC	5.29	0.07
2141	Tank 2141 (9)	VOC	10.29	0.25
2142	Tank 2142 (9)	VOC	5.29	0.07
2143	Tank 2143	VOC	0.36	1.59
2144	Tank 2144 (9)	VOC	5.35	0.07
2145	Tank 2145	VOC	0.36	1.59
2146	Tank 2146 (9)	VOC	5.3	0.07
2148	Tank 2148 (9)	VOC	5.3	0.07
2150	Tank 2150 (9)	VOC	5.3	0.07
2151	Tank 2151 (9)	VOC	10.34	0.39
2152	Tank 2152 (9)	VOC	10.34	0.38
2153	Tank 2153 (9)	VOC	10.34	0.39
2154	Tank 2154 (9)	VOC	10.34	0.39

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2155	Tank 2155 (9)	VOC	10.34	0.38
2156	Tank 2156 (9)	VOC	10.34	0.39
2157	Tank 2157 (9)	VOC	10.28	0.26
2158	Tank 2158 (9)	VOC	10.25	0.26
3200	Tank 3200 (9)	VOC	10.3	1.45
3201	Tank 3201 (9)	VOC	10.29	1.45
3202	Tank 3202 (9)	VOC	10.34	1.44
3203	Tank 3203 (9)	VOC	2.83	7.83
3204	Tank 3204 (9)	VOC	3.21	10.51
3205	Tank 3205 (9)	VOC	3.13	10.09
3206	Tank 3206 (9)	VOC	5.13	1.65
DFILL	Diesel Emissions	VOC	3.02	6.88
DOCK No. 5	Fugitives (5)	VOC	0.01	0.1
MVCU	Marine VCU	VOC	32.27	73.6
		NOx	20.85	47.5
		CO	41.7	95.1
		PM10	0.59	1.3
		SO2	0.05	0.1
RVCU	Rail VCU	VOC	2.57	9.93
		NOx	0.33	1.45
		CO	0.66	2.9
LR-1	Truck Rack	VOC, Lube Oil	1.8	0.9
LR-2	Truck Rack	VOC, Lube Oil	1.8	0.9
LR-3	Truck Rack	VOC, Lube Oil	1.8	0.6
LR-4	Truck Rack	VOC, Lube Oil	2.4	0.7
LR-7	Truck Rack	VOC, Lube Oil	0.9	3.7
LR-100	Truck Rack	VOC, Lube Oil	0.9	0.3
LR-101	Truck Rack	VOC, Lube Oil	0.5	0.15
LR-200	Truck Rack	Veg Oil	0.1	0.1
LR-201	Truck Rack	Veg Oil	0.1	0.1
LR-202	Truck Rack	Veg Oil	0.1	0.1
N24-1	Railcar Spot	VOC, Lube Oil	0.9	(6)
N24-2	Railcar Spot	VOC, Lube Oil	0.9	(6)
N24-3	Railcar Spot	VOC, Lube Oil	0.9	(6)

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N24-4	Railcar Spot	VOC, Lube Oil	0.9	(6)
N25-1	Railcar Spot	VOC, Lube Oil	0.9	(7)
N25-2	Railcar Spot	VOC, Lube Oil	0.9	(7)
N25-3	Railcar Spot	VOC, Lube Oil	0.9	(7)
N25-4	Railcar Spot	VOC, Lube Oil	0.9	(7)
N25-51	Railcar Spot	VOC, Lube Oil	0.9	(7)
N25-6	Railcar Spot	VOC, Lube Oil	0.9	(7)
N25-7	Railcar Spot	VOC, Lube Oil	0.9	(7)
N25-8	Railcar Spot	VOC, Lube Oil	0.9	(7)
N25-9	Railcar Spot	VOC, Lube Oil	0.9	(7)
N25-10	Railcar Spot	VOC, Lube Oil	0.9	(7)
N25-11	Railcar Spot	VOC, Lube Oil	0.9	(7)
N25-12	Railcar Spot	VOC, Lube Oil	0.9	(7)
N25-13	Railcar Spot	VOC, Lube Oil	0.9	(7)
N2829-1	Railcar Spot	Veg Oil	0.1	(8)
N2829-2	Railcar Spot	Veg Oil	0.1	(8)
N2829-3	Railcar Spot	Veg Oil	0.1	(8)
N2829-4	Railcar Spot	Veg Oil	0.1	(8)
N2829-5	Railcar Spot	Veg Oil	0.1	(8)
N26	Fugitive and Cargo leaks	VOC	2.52	11.03
OD-1	Dock	VOC, Lube Oil	1.3	0.1
OD-2	Dock	VOC, Lube Oil	1.3	0.1
OD-3	Dock	VOC, Lube Oil	13.4	0.2
OILDOCK No. 2	Fugitives, Marine Dock 2 (5)	VOC (naphtha)	0.15	0.01
		VOC (coal tar)	0.01	0.01
TNKFUGIT1	Fugitives, Main Tank Farm (5)	VOC, Lube Oil	2.58	11.29
TNKFUGIT2	Fugitives, TK-100 Farm (5)	VOC, Lube Oil	0.52	2.28
TNKFUGIT3	Fugitives, 100-Series Tank Farm (5)	VOC, Lube Oil	0.6	2.64
TNKFUGIT4	Fugitives, 200-Series Tank Farm (5)	Veg Oil	0.01	0.01
TNKFUGIT5	Fugitives, Union Carbide Tank farm (5)	Veg Oil	0.01	0.01
BLR-1	Boiler No. 1	VOC	0.09	0.39
		CO	1.37	6.02
		NO_X	1.64	7.16
		PM10	0.12	0.54

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		SO2	0.01	0.04
BLR-2	Boiler No. 2	VOC	0.06	0.25
		CO	0.87	3.79
		NO_X	1.03	4.51
		PM10	0.08	0.34
		SO2	0.01	0.03
BLR-3	Boiler No. 3	VOC	0.05	0.23
		CO	0.8	3.51
		NO_X	0.95	4.18
		PM10	0.07	0.32
		SO2	0.01	0.03
H.O. - 1	Hot Oil Heater 1	VOC	0.07	0.28
		CO	0.99	4.33
		NO_X	1.18	5.15
		PM10	0.09	0.39
		SO2	0.01	0.03
H.O. - 2	Hot Oil Heater 2	VOC	0.02	0.09
		CO	0.33	1.44
		NO_X	0.39	1.72
		PM10	0.03	0.13
		SO2	0.01	0.01
MSS	Maintenance Start-up and Shutdown uncontrolled	VOC	110.55	1.15
MSSVAC	MSS Vacuum Truck use on floating roof tanks controlled by a Carbon Absorption System	VOC	2.76	0.03
MSSTO	Maintenance Start-up and Shutdown Portable Thermal Oxidizer	VOC	10.77	0.07
		CO	3.30	0.12
		NO_X	2.47	0.14
		PM	1.58	0.09
		PM10	1.58	0.09
		PM2.5	1.58	0.09
		SO2	0.02	0.01

Emission Sources - Maximum Allowable Emission Rates

(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) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
NO_x - total oxides of nitrogen
SO_2 - sulfur dioxide
PM - total particulate matter, suspended in the atmosphere, including PM_{10} and $PM_{2.5}$, as represented
PM_{10} - total particulate matter equal to or less than 10 microns in diameter, including $PM_{2.5}$, as represented
$PM_{2.5}$ - particulate matter equal to or less than 2.5 microns in diameter
CO - carbon monoxide
VegOil - vegetable oil
(4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
(5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
(6) The sum of the VOC emissions from all the loading spots in the Loading Rack N24 may not exceed 0.3 ton per year (tpy).
(7) The sum of the VOC emissions from all the loading spots in the Loading Rack N25 may not exceed 0.1 tpy.
(8) The sum of the VOC emissions from all the loading spots in the Loading Rack N2829 may not exceed 0.1 tpy.
(9) These storage tanks are authorized under permits by rule and are not authorized by this permit. Emissions from these storage tanks are listed only for reference.

Date: October 31, 2014