

ATTACHMENT A.1

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES SHORT-TERM

Permit Number 2193

This table lists the maximum allowable emission rates (short term) 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)	<u>Emission Rates</u> <u>lb/hr</u>
3-9	ST 3-9	VOC	80.09
3-10	ST 3-10	VOC	0.01
5-21	ST 5-21	VOC	1.57
7	ST 7	VOC	200.21
10-9	ST 10-9	VOC	120.13
10-10	ST 10-10	VOC	120.13
10-11	ST 10-11	VOC	120.13
10-12	ST 10-12	VOC	120.13
10-13	ST 10-13	VOC	120.13
10-14	ST 10-14	VOC	120.13
10-15	ST 10-15	VOC	120.13
10-16	ST 10-16	VOC	120.13
10-17	ST 10-17	VOC	120.13
10-18	ST 10-18	VOC	120.13

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates</u> <u>lb/hr</u>
10-19	ST 10-19	VOC	120.13
10-20	ST 10-20	VOC	120.13
12-1	ST 12-1	VOC	140.15
12-3	ST 12-3	VOC	140.15
12-4	ST 12-4	VOC	140.15
12-5	ST 12-5	VOC	140.15
12-6	ST 12-6	VOC	140.15
12-7	ST 12-7	VOC	140.15
12-8	ST 12-8	VOC	140.15
12-9	ST 12-9	VOC	140.15
12-10	ST 12-10	VOC	140.15
12-11	ST 12-11	VOC	140.15
12-12	ST 12-12	VOC	140.15
12-13	ST 12-13	VOC	140.15
12-14	ST 12-14	VOC	140.15
12-15	ST 12-15	VOC	140.15
12-16	ST 12-16	VOC	140.15
12-17	ST 12-17	VOC	140.15

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates</u> <u>lb/hr</u>
12-18	ST 12-18	VOC	140.15
12-19	ST 12-19	VOC	140.15
12-20	ST 12-20	VOC	140.15
12-21	ST 12-21	VOC	140.15
12-22	ST 12-22	VOC	140.15
12-23	ST 12-23	VOC	140.15
12-24	ST 12-24	VOC	140.15
12-25	ST 12-25	VOC	140.15
12-26	ST 12-26	VOC	140.15
12-27	ST 12-27	VOC	140.15
12-28	ST 12-28	VOC	140.15
12-29	ST 12-29	VOC	140.15
12-30	ST 12-30	VOC	140.15
15-1	ST 15-1	VOC	160.17
22	ST 22	VOC	140.15
25-1	ST 25-1	VOC	140.15
25-2	ST 25-2	VOC	140.15

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates</u> <u>lb/hr</u>
25-3	ST 25-3	VOC	140.15
25-4	ST 25-4	VOC	140.15
25-5	ST 25-5	VOC	140.15
25-6	ST 25-6	VOC	140.15
25-7	ST 25-7	VOC	140.15
25-8	ST 25-8	VOC	140.15
25-9	ST 25-9	VOC	140.15
25-10	ST 25-10	VOC	140.15
25-11	ST 25-11	VOC	140.15
25-12	ST 25-12	VOC	140.15
25-13	ST 25-13	VOC	140.15
25-14	ST 25-14	VOC	140.15
25-15	ST 25-15	VOC	140.15
25-16	ST 25-16	VOC	140.15
25-17	ST 25-17	VOC	140.15
25-18	ST 25-18	VOC	140.15
25-19	ST 25-19	VOC	140.15

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates</u> <u>lb/hr</u>
25-20	ST 25-20	VOC	140.15
25-21	ST 25-21	VOC	120.13
25-22	ST 25-22	VOC	120.13
25-23	ST 25-23	VOC	120.13
25-24	ST 25-24	VOC	120.13
25-25	ST 25-25	VOC	120.13
25-26	ST 25-26	VOC	120.13
25-27	ST 25-27	VOC	120.13
25-28	ST 25-28	VOC	120.13
25-29	ST 25-29	VOC	120.13
25-30	ST 25-30	VOC	120.13
31	ST 31	VOC	140.15
32	ST 32	VOC	200.21
37	ST 37	VOC	120.13
40-1	ST 40-1	VOC	120.13
80-9	ST 80-9	VOC	200.21
80-10	ST 80-10	VOC	200.21

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates</u> <u>lb/hr</u>
80-11	ST 80-11	VOC	200.21
80-12	ST 80-12	VOC	200.21
80-13	ST 80-13	VOC	200.21
80-14	ST 80-14	VOC	200.21
80-15	ST 80-15	VOC	200.21
80-16	ST 80-16	VOC	200.21
80-17	ST 80-17	VOC	200.21
80-18	ST 80-18	VOC	200.21
80-19	ST 80-19	VOC	200.21
80-20	ST 80-20	VOC	200.21
80-21	ST 80-21	VOC	380.40
80-22	ST 80-22	VOC	380.40
90-1	ST 90-1	VOC	0.97
90-2	ST 90-2	VOC	0.97
100-1	ST 100-1	VOC	23.44
100-2	ST 100-2	VOC	23.44
100-3	ST 100-3	VOC	23.44

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates</u> <u>lb/hr</u>
100-4	ST 100-4	VOC	23.44
100-5	ST 100-5	VOC	2.47
100-6	ST 100-6	VOC	2.47
100-7	ST 100-7	VOC	2.59
100-8	ST 100-8	VOC	2.59
100-9	ST 100-9	VOC	2.59
100-10	ST 100-10	VOC	2.26
100-11	ST 100-11	VOC	2.08
100-12	ST 100-12	VOC	2.08
100-13	Storage Tank	VOC	2.62
100-14	Storage Tank	VOC	2.62
144-1	ST 144-1	VOC	23.44
187-1	ST 187-1	VOC	23.44
Storage Tanks	Total Landing Cap	VOC	726.00 (5)
TR-1	Truck Rack No. 1 Loading Losses (9 Truck Spots) 0.50 psia uncontrolled and 0.50 psia controlled	VOC	170.37 (18.93 lb/hr/Spot)

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES
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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates</u> <u>lb/hr</u>
TR-6	Truck Rack No. 6 Loading Losses (1 truck Spot) 0.50 psia uncontrolled and 0.50 psia controlled	VOC	18.93
TR-10	Truck Rack No. 10 Loading Losses(43 Truck Spots) 0.50 psia uncontrolled and 0.50 psia controlled	VOC	813.99 (18.93 lb/hr/Spot)
TR-11	Truck Rack No. 11 Loading Losses (15 Truck Spots) 0.50 psia uncontrolled and 0.50 psia controlled	VOC	283.95 (18.93 lb/hr/Spot)
TR-12	Truck Rack No. 12 Loading Losses (9 Truck Spots) 0.50 psia uncontrolled and 0.50 psia controlled	VOC	170.37 (18.93 lb/hr/Spot)
TR-13	Truck Rack No. 13 Loading Losses (7 Truck Spots) 0.50 psia uncontrolled and 0.50 psia controlled	VOC	132.51 (18.93 lb/hr/Spot)
C-RCR	Central Railcar Rack Loading Losses (35 Rail Spots) 0.50 psia uncontrolled and 0.50 psia controlled	VOC	662.55 (18.93 lb/hr/Spot)
E-RCR	East Railcar Rack Loading Losses(24 Rail Spots) 0.50 psia uncontrolled	VOC	454.32 (18.93 lb/hr/Spot)

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES
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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates</u> <u>lb/hr</u>
W-RCR	and 0.50 psia controlled West Railcar Rack Loading Losses (34 Rail Spots) 0.50 psia uncontrolled and 0.50 psia controlled	VOC	643.62 (18.93 lb/hr/Spot)
SHPDK-1	Ship Dock No. 1 Loading Losses 0.50 psia uncontrolled	VOC	113.60
SHPDK-2	Ship Dock No. 2 Loading Losses 0.50 psia uncontrolled	VOC	113.60
SHPDK-3	Ship Dock No. 3 Loading Losses 0.50 psia uncontrolled	VOC	113.60
BGDK-1	Barge Dock No. 1 Loading Losses 0.50 psia uncontrolled	VOC	94.67
BGDK-2	Barge Dock No. 2 Loading Losses 0.50 psia uncontrolled	VOC	94.67
BOILER-4	Steam Boiler No. 4 (14.70 MMBtu/hr fired duty)	CO NO _x PM ₁₀ SO ₂ VOC	0.22 1.47 0.01 0.01 0.06
Flare System No. 1 (FL-1a and FL-1b)	TR, RC, and Marine Flares	CO NO _x SO ₂ VOC	12.96 1.51 0.01 31.81
Flare System No. 2 (FL-2a, FL-2b,	TR, RC, and Marine Flares	CO NO _x	12.96 1.51

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES
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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates</u> <u>lb/hr</u>
and FL-2c)		SO ₂	0.0
		VOC	31.81
FUG	Process Fugitives (4)	VOC	6.47
SUMP-1	Wastewater Sumps	VOC	5.67
TK-DEGAS	Tank Degassing	VOC	124.31
		NO _x	3.43
		CO	6.85

- (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) CO - carbon monoxide
NO_x - total oxides of nitrogen
PM₁₀ - particulate matter equal to or less than 10 microns in diameter
SO₂ - sulfur dioxide
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) Hourly emissions cap covers simultaneous re-filling of tanks pursuant to Special Condition No. 21.

Dated December 12, 2006

ATTACHMENT A.2

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES ANNUAL

Permit Number 2193

This table lists the maximum allowable emission rates (annual) 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 the 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)	<u>Emission Rates *</u>
			<u>TPY **</u>
	Steam Boiler No. 4 (14.7 MMBtu/hr fired duty)	CO	0.97
		NO _x	6.44
		PM ₁₀	0.06
		SO ₂	0.04
		VOC	0.26
	Flare System No. 1	CO	30.17
		NO _x	3.52
		SO ₂	0.01
		VOC	61.00
	Flare System No. 2	CO	30.17
		NO _x	3.52
		SO ₂	0.01
		VOC	61.00

	Barge and Ship Emission Losses Uncontrolled	VOC	5.62
	Rail and Truck Racks Emission Losses Uncontrolled	VOC	45.00
Sump-1	Wastewater Sumps	VOC	2.85
TK-DEGAS	Tank Degassing	VOC (5)	
		NO _x 1.00	
		CO 2.00	
Storage Tanks	Total Annual Cap	VOC	476.82 (5)
	Process Fugitives (4)	VOC	28.31

(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) CO - carbon monoxide

NO_x - total oxides of nitrogen

PM₁₀ - particulate matter equal to or less than 10 microns in diameter

SO₂ - sulfur dioxide

VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1

(4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

(5) Annual emissions cap for tanks covers routine emissions, tank roof landings and de-gassing.

* 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

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

Dated December 12, 2006