

# 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	0.0
5-21	ST 5-21	VOC	0.0
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

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates</u> <u>lb/hr</u>
10-18	ST 10-18	VOC	120.13
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

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates</u> <u>lb/hr</u>
12-17	ST 12-17	VOC	140.15
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

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

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
25-20	ST 25-20	VOC	140.15
25-21	ST 25-21	VOC	120.13

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates</u> <u>lb/hr</u>
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
80-11	ST 80-11	VOC	200.21
80-12	ST 80-12	VOC	200.21
80-13	ST 80-13	VOC	200.21

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates</u> <u>lb/hr</u>
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	0.0
90-2	ST 90-2	VOC	0.0
100-1	ST 100-1	VOC	23.44
100-2	ST 100-2	VOC	23.44
100-3	ST 100-3	VOC	23.44
100-4	ST 100-4	VOC	23.44
100-5	ST 100-5	VOC	0.0
100-6	ST 100-6	VOC	0.0
100-7	ST 100-7	VOC	2.59
100-8	ST 100-8	VOC	2.59

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates</u> <u>lb/hr</u>
100-9	ST 100-9	VOC	2.59
100-10	ST 100-10	VOC	2.26
100-11	ST 100-11	VOC	0.0
100-12	ST 100-12	VOC	0.0
144-1	ST 144-1	VOC	23.44
187-1	ST 187-1	VOC	23.44
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)
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	VOC	170.37 (18.93 lb/hr/Spot)

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates</u> <u>lb/hr</u>
TR-13	controlled Truck Rack No. 13 Loading Losses (7 Truck Spots) 0.50 psia 1b/hr/Spot) uncontrolled and 0.50 psia controlled	VOC	132.51 (18.93)
C-RCR	Central Railcar Rack Loading Losses (35 Rail Spots) 0.50 psia 1b/hr/Spot) uncontrolled and 0.50 psia controlled	VOC	662.55 (18.93)
E-RCR	East Railcar Rack Loading Losses (24 Rail Spots) 0.50 psia 1b/hr/Spot) uncontrolled and 0.50 psia controlled	VOC	454.32 (18.93)
W-RCR	West Railcar Rack Loading Losses (34 Rail Spots) 0.50 psia 1b/hr/Spot) uncontrolled and 0.50 psia controlled	VOC	643.62 (18.93)
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	VOC	94.67



# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

## AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates</u> <u>lb/hr</u>	
	0.50 psia uncontrolled			
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	0.22	
		NO <sub>x</sub>	1.47	
		PM <sub>10</sub>	0.01	
		SO <sub>2</sub>	0.01	
		VOC	0.06	
Flare System No. 1 12.96 (FL-1a and FL-1b)		TR, RC, and Marine Flares	CO	
		NO <sub>x</sub>	1.51	
		SO <sub>2</sub>	0.01	
		VOC	31.81	
Flare System No. 2 12.96 (FL-2a, FL-2b, and FL-2c)		TR, RC, and Marine Flares	CO	
		NO <sub>x</sub>	1.51	
		SO <sub>2</sub>	0.0	
		VOC	31.81	
FUG	Process Fugitives (4)	VOC	6.26	

- (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.

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- (3) CO - carbon monoxide  
NO<sub>x</sub> - total oxides of nitrogen  
PM<sub>10</sub> - particulate matter less than 10 microns in diameter  
SO<sub>2</sub> - 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.

## 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 *	Source	Air Contaminant	<u>Emission Rates</u>	
<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>TPY</u>	<u>**</u>
	Steam Boiler No. 4 (15 MMBtu/hr fired duty)	CO	0.97	
		NO <sub>x</sub>	6.44	
		PM <sub>10</sub>	0.06	
		SO <sub>2</sub>	0.04	
		VOC	0.26	
	Flare System No. 1	CO	30.17	
		NO <sub>x</sub>	3.52	
		SO <sub>2</sub>	0.01	
		VOC	61.00	
	Flare System No. 2	CO	30.17	

	NO <sub>x</sub>	3.52
	SO <sub>2</sub>	0.01
	VOC	61.00
Rail and Truck Racks Emission Losses	VOC	45.00
Storage Tanks	VOC	480.7
Process Fugitives (4)	VOC	27.41

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#### 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) CO - carbon monoxide  
NO<sub>x</sub> - total oxides of nitrogen  
PM<sub>10</sub> - particulate matter less than 10 microns in diameter  
SO<sub>2</sub> - 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.

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

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			<u>lb/hr</u>	<u>TPY</u>

schedule:

Hrs/day 24 Days/week 7 Weeks/year 52

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