

ATTACHMENT A-1

Permit Number 41618

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

SHORT-TERM EMISSIONS

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)	<u>Emission Rates *</u> Pounds per Hour
A TANK FARM: 45 TANKS			
STA 3.5-1	Storage Tank A-3.5-1	VOC	191.37
STA 3.5-2	Storage Tank A-3.5-2	VOC	191.37
STA 3.5-3	Storage Tank A-3.5-3	VOC	191.37
STA 3.5-4	Storage Tank A-3.5-4	VOC	191.37
STA 3.5-5	Storage Tank A-3.5-5	VOC	191.37
STA 3.5-6	Storage Tank A-3.5-6	VOC	191.37
STA 3.5-7	Storage Tank A-3.5-7	VOC	191.37
STA 3.5-8	Storage Tank A-3.5-8	VOC	191.37
STA 6-3	Storage Tank A-6-3	VOC	191.37
STA 6-4	Storage Tank A-6-4	VOC	191.37
STA 6-5	Storage Tank A-6-5	VOC	191.37
STA 7.5-5	Storage Tank A-7.5-5	VOC	191.37
STA 7.5-6	Storage Tank A-7.5-6	VOC	191.37

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	AIR CONTAMINANTS DATA
			<u>Emission Rates *</u> Pounds per Hour
STA 7.5-7	Storage Tank A-7.5-7	VOC	191.37
STA 7.5-8	Storage Tank A-7.5-8	VOC	191.37
STA 7.5-9	Storage Tank A-7.5-9	VOC	191.37
STA 7.5-10	Storage Tank A-7.5-10	VOC	191.37
STA 7.5-11	Storage Tank A-7.5-11	VOC	191.37
STA 7.5-12	Storage Tank A-7.5-12	VOC	191.37
STA 12-5	Storage Tank A-12-5	VOC	191.37
STA 12-6	Storage Tank A-12-6	VOC	191.37
STA 12-7	Storage Tank A-12-7	VOC	191.37
STA 12-8	Storage Tank A-12-8	VOC	191.37
STA 12-9	Storage Tank A-12-9	VOC	191.37
STA 12-10	Storage Tank A-12-10	VOC	191.37
STA 12-11	Storage Tank A-12-11	VOC	191.37
STA 12-12	Storage Tank A-12-12	VOC	191.37
STA 12-13	Storage Tank A-12-13	VOC	191.37
STA 15-1	Storage Tank A-15-1	VOC	191.37
STA 15-2	Storage Tank A-15-2	VOC	191.37

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	AIR CONTAMINANTS DATA
			<u>Emission Rates *</u> Pounds per Hour
STA 15-3	Storage Tank A-15-3	VOC	191.37
STA 15-4	Storage Tank A-15-4	VOC	191.37
STA 15-5	Storage Tank A-15-5	VOC	191.37
STA 15-6	Storage Tank A-15-6	VOC	191.37
STA 15-7	Storage Tank A-15-7	VOC	191.37
STA 15-8	Storage Tank A-15-8	VOC	191.37
STA 15-9	Storage Tank A-15-9	VOC	191.37
STA 15-10	Storage Tank A-15-10	VOC	191.37
STA 15-11	Storage Tank A-15-11	VOC	191.37
STA 15-12	Storage Tank A-15-12	VOC	191.37
STA 15-13	Storage Tank A-15-13	VOC	191.37
STA 15-14	Storage Tank A-15-14	VOC	191.37
STA 15-15	Storage Tank A-15-15	VOC	191.37
STA 15-16	Storage Tank A-15-16	VOC	191.37
STA 20-1	Storage Tank A-20-1	VOC	191.37

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u> Pounds per Hour
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B TANK FARM: 11 TANKS

STB 25-1	Storage Tank B-25-1	VOC	191.37
STB 30-1	Storage Tank B-30-1	VOC	191.37
STB 30-2	Storage Tank B-30-2	VOC	191.37
STB 30-3	Storage Tank B-30-3	VOC	191.37
STB 30-4	Storage Tank B-30-4	VOC	191.37
STB 30-5	Storage Tank B-30-5	VOC	191.37
STB 30-6	Storage Tank B-30-6	VOC	191.37
STB 30-7	Storage Tank B-30-7	VOC	191.37
STB 30-8	Storage Tank B-30-8	VOC	191.37
STB 30-11	Storage Tank B-30-11	VOC	191.37
STB 30-12	Storage Tank B-30-12	VOC	191.37

D TANK FARM: 25 TANKS

STD 7-1	Low-Pressure Storage Tank D-7-1SS	VOC	191.37
STD 7-2	Low-Pressure Storage Tank D-7-2SS	VOC	191.37
STD 7-3	Low-Pressure Storage Tank D-7-3SS	VOC	191.37
STD 7.5-13	Low-Pressure Storage Tank D-7.5-13	VOC	191.37
STD 7.5-14	Low-Pressure Storage Tank D-7.5-14	VOC	191.37

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	AIR CONTAMINANTS DATA	
			<u>Emission Rates *</u> Pounds per Hour	
STD 7.5-15	Low-Pressure Storage Tank D-7.5-15		VOC	191.37
STD 10-1	Low-Pressure Storage Tank D-10-1	VOC		191.37
STD 10-2	Low-Pressure Storage Tank D-10-2	VOC		191.37
STD 10-3	Low-Pressure Storage Tank D-10-3	VOC		191.37
STD 15-17	Low-Pressure Storage Tank D-15-17	VOC		191.37
STD 15-18	Low-Pressure Storage Tank D-15-18	VOC		191.37
STD 15-19	Low-Pressure Storage Tank D-15-19	VOC		191.37
STD 15-20	Low-Pressure Storage Tank D-15-20	VOC		191.37
STD 15-21	Low-Pressure Storage Tank D-15-21	VOC		191.37
STD 15-22	Low-Pressure Storage Tank D-15-22	VOC		191.37
STD 15-23	Low-Pressure Storage Tank D-15-23	VOC		191.37
STD 15-24	Low-Pressure Storage Tank D-15-24	VOC		191.37
STD 15-25	Low-Pressure Storage Tank D-15-25SS		VOC	191.37
STD 15-26	Low-Pressure Storage Tank D-15-26SS		VOC	191.37
STD 15-27	Low-Pressure Storage Tank D-15-27SS		VOC	191.37
STD 15-28	Low-Pressure Storage Tank D-15-28SS		VOC	191.37
STD 20-2	Low-Pressure Storage Tank D-20-2	VOC		191.37
STD 20-3	Low-Pressure Storage Tank D-20-3	VOC		191.37

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u> Pounds per Hour
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STD 30-9	Low-Pressure Storage Tank D-30-9	VOC	191.37
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STD 30-10	Low-Pressure Storage Tank D-30-10	VOC	191.37
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E TANK FARM: 13 TANKS

STE 12-14	Storage Tank E-12-14	VOC	191.37
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STE 12-15	Storage Tank E-12-15	VOC	191.37
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STE 12-16	Storage Tank E-12-16	VOC	191.37
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STE 12-17	Storage Tank E-12-17	VOC	191.37
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STE 12-18	Storage Tank E-12-18	VOC	191.37
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STE 12-19	Storage Tank E-12-19SS (5)	VOC	191.37
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STE 12-20	Storage Tank E-12-20SS (5)	VOC	191.37
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STE 12-21	Storage Tank E-12-21SS (5)	VOC	191.37
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STE 12-22	Storage Tank E-12-22SS	VOC	191.37
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STE 12-23	Storage Tank E-12-23	VOC	191.37
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STE 12-24	Storage Tank E-12-24	VOC	191.37
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STE 12-25	Storage Tank E-12-25	VOC	191.37
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STE 12-26	Storage Tank E-12-26	VOC	191.37
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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u> Pounds per Hour
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F TANK FARM: 11 TANKS

STF 6-1	Storage Tank F-6-1	VOC (Tallow)	2.44
STF 6-2	Storage Tank F-6-2	VOC (Tallow)	2.44
STF 7.5-1	Storage Tank F-7.5-1	VOC (Tallow)	2.44
STF 7.5-2	Storage Tank F-7.5-2	VOC (Tallow)	2.44
STF 7.5-3	Storage Tank F-7.5-3	VOC (Tallow)	2.44
STF 7.5-4	Storage Tank F-7.5-4	VOC (Tallow)	2.44
STF 12-1	Storage Tank F-12-1	VOC (Tallow)	2.44
STF 12-2	Storage Tank F-12-2	VOC (Tallow)	2.44
STF 12-3	Storage Tank F-12-3	VOC (Tallow)	2.44
STF 12-4	Storage Tank F-12-4	VOC (Tallow)	2.44
BLEACH-1	Bleach Storage Tank (F-Manifold)	Sodium Hypochlorite	< 0.01

P TANK FARM: 25 TANKS

STP 15-29	Storage Tank P-15-29	VOC	191.37
STP 15-30	Storage Tank P-15-30	VOC	191.37
STP 15-31	Storage Tank P-15-31	VOC	191.37
STP 15-32	Storage Tank P-15-32	VOC	191.37
STP 15-33	Low-Pressure Storage Tank P-15-33	VOC	191.37

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	AIR CONTAMINANTS DATA
			<u>Emission Rates *</u> Pounds per Hour
STP 15-34	Low-Pressure Storage Tank P-15-34	VOC	191.37
STP 15-35	Low-Pressure Storage Tank P-15-35	VOC	191.37
STP 15-36	Storage Tank P-15-36	VOC	191.37
STP 15-37	Storage Tank P-15-37	VOC	191.37
STP 15-38	Storage Tank P-15-38	VOC	191.37
STP 15-39	Storage Tank P-15-39	VOC	191.37
STP 15-40	Storage Tank P-15-40	VOC	191.37
STP 15-41	Storage Tank P-15-41	VOC	191.37
STP 15-42	Storage Tank P-15-42	VOC	191.37
STP 25-2	Storage Tank P-25-2	VOC	191.37
STP 25-3	Storage Tank P-25-3	VOC	191.37
STP 40-1	Storage Tank P-40-1	VOC	191.37
STP 40-2	Storage Tank P-40-2	VOC	191.37
STP 40-3	Storage Tank P-40-3	VOC	191.37
STP 50-1	Storage Tank P-50-1	VOC	191.37
STP 50-2	Storage Tank P-50-2	VOC	191.37
STP 50-3	Storage Tank P-50-3	VOC	191.37
STP 50-4	Storage Tank P-50-4	VOC	191.37

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u> Pounds per Hour
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STP 50-5	Storage Tank P-50-5	VOC	191.37
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STP 50-6	Low-Pressure Storage Tank P-50-6	VOC	191.37
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Q TANK FARM: 11 TANKS

STQ 30-13	Storage Tank Q-30-13	VOC	191.37
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STQ 30-14	Storage Tank Q-30-14	VOC	191.37
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STQ 30-15	Storage Tank Q-30-15	VOC	191.37
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STQ 30-16	Storage Tank Q-30-16	VOC	191.37
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STQ 30-17	Storage Tank Q-30-17	VOC	191.37
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STQ 30-18	Storage Tank Q-30-18	VOC	191.37
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STQ 30-19	Storage Tank Q-30-19	VOC	191.37
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STQ 30-20	Storage Tank Q-30-20	VOC	191.37
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STQ 40-4	Storage Tank Q-40-4	VOC	191.37
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STQ 50-7	Storage Tank Q-50-7	VOC	191.37
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STQ 50-8	Storage Tank Q-50-8	VOC	191.37
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			AIR CONTAMINANTS DATA
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u> Pounds per Hour
S TANK FARM: 4 TANKS			
STS 100-1	Internal Floating Roof Storage Tank S-100-1	VOC	1.58
STS 100-2	Internal Floating Roof Storage Tank S-100-2	VOC	1.58
STS 100-3	Internal Floating Roof Storage Tank S-100-3	VOC	1.58
STS 100-4	Internal Floating Roof Storage Tank S-100-4	VOC	1.58
V TANK FARM: 4 HORIZONTAL DECK STORAGE TANKS			
STV 2-1	Horizontal Deck Storage Tank V-2-1SS	VOC	191.37
STV 2-2	Horizontal Deck Storage Tank V-2-2SS	VOC	191.37
STV 2-3	Horizontal Deck Storage Tank V-2-3SS	VOC	191.37
STV 2-4	Horizontal Deck Storage Tank V-2-4SS	VOC	191.37
AE TANK FARM: 36 TANKS			
AE 12-27	Storage Tank AE-12-27	VOC	191.37
AE 12-28	Storage Tank AE-12-28	VOC	191.37
AE 12-29	Storage Tank AE-12-29	VOC	191.37
AE 12-30	Storage Tank AE-12-30	VOC	191.37
AE 12-31	Storage Tank AE-12-31	VOC	191.37

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SHORT-TERM EMISSIONS

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	AIR CONTAMINANTS DATA
			<u>Emission Rates *</u> Pounds per Hour
AE 12-32	Storage Tank AE-12-32	VOC	191.37
AE 12-33	Storage Tank AE-12-33	VOC	191.37
AE 12-34	Storage Tank AE-12-34	VOC	191.37
AE 12-35	Storage Tank AE-12-35	VOC	191.37
AE 12-36	Storage Tank AE-12-36	VOC	191.37
AE 12-37	Storage Tank AE-12-37	VOC	191.37
AE 12-38	Storage Tank AE-12-38	VOC	191.37
AE 12-39	Storage Tank AE-12-39	VOC	191.37
AE 12-40	Storage Tank AE-12-40	VOC	191.37
AE 12-41	Storage Tank AE-12-41	VOC	191.37
AE 15-43	Storage Tank AE-15-43	VOC	191.37
AE 15-44	Storage Tank AE-15-44	VOC	191.37
AE 15-45	Storage Tank AE-15-45	VOC	191.37
AE 15-46	Storage Tank AE-15-46	VOC	191.37
AE 15-47	Storage Tank AE-15-47	VOC	191.37
AE 15-48	Storage Tank AE-15-48	VOC	191.37
AE 15-49	Storage Tank AE-15-49	VOC	191.37
AE 15-50	Storage Tank AE-15-50	VOC	191.37
AE 15-51	Storage Tank AE-15-51	VOC	191.37

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SHORT-TERM EMISSIONS

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	AIR CONTAMINANTS DATA
			<u>Emission Rates *</u> Pounds per Hour
AE 15-52	Storage Tank AE-15-52	VOC	191.37
AE 15-53	Storage Tank AE-15-53	VOC	191.37
AE 15-54	Storage Tank AE-15-54	VOC	191.37
AE 30-21	Storage Tank AE-30-21	VOC	191.37
AE 30-22	Storage Tank AE-30-22	VOC	191.37
AE 30-23	Storage Tank AE-30-23	VOC	191.37
AE 30-24	Storage Tank AE-30-24	VOC	191.37
AE 30-25	Storage Tank AE-30-25	VOC	191.37
AE 30-26	Storage Tank AE-30-26	VOC	191.37
AE 30-27	Storage Tank AE-30-27	VOC	191.37
AE 40-5	Storage Tank AE-40-5	VOC	191.37
AE 40-6	Storage Tank AE-40-6	VOC	191.37
BE TANK FARM: 16 TANKS			
STBE 12-42	Storage Tank BE-12-42	VOC	191.37
STBE 12-43	Storage Tank BE-12-43	VOC	191.37
STBE 12-44	Storage Tank BE-12-44	VOC	191.37
STBE 12-45	Storage Tank BE-12-45	VOC	191.37
STBE 12-46	Storage Tank BE-12-46	VOC	191.37

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	AIR CONTAMINANTS DATA
			<u>Emission Rates *</u> Pounds per Hour
STBE 12-47	Storage Tank BE-12-47	VOC	191.37
STBE 15-55	Storage Tank BE-15-55	VOC	191.37
STBE 15-56	Storage Tank BE-15-56	VOC	191.37
STBE 15-57	Storage Tank BE-15-57	VOC	191.37
STBE 15-58	Storage Tank BE-15-58	VOC	191.37
STBE 15-59	Storage Tank BE-15-59	VOC	191.37
STBE 15-60	Storage Tank BE-15-60	VOC	191.37
STBE 20-4	Low-Pressure Storage Tank BE-20-4	VOC	191.37
STBE 20-5	Low-Pressure Storage Tank BE-20-5	VOC	191.37
STBE 20-6	Low-Pressure Storage Tank BE-20-6	VOC	191.37
STBE 20-7	Low-Pressure Storage Tank BE-20-7	VOC	191.37
CE TANK FARM: 8 TANKS			
STCE 30-28	Storage Tank CE-30-28	VOC	191.37
STCE 30-29	Storage Tank CE-30-29	VOC	191.37
STCE 30-30	Storage Tank CE-30-30	VOC	191.37
STCE 30-31	Storage Tank CE-30-31	VOC	191.37
STCE 30-32	Storage Tank CE-30-32	VOC	191.37
STCE 30-33	Storage Tank CE-30-33	VOC	191.37

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u> Pounds per Hour
STCE 30-34	Storage Tank CE-30-34	VOC	191.37
STCE 30-35	Storage Tank CE-30-35	VOC	191.37

DE TANK FARM: 13 TANKS

STDE 15-61	Storage Tank DE-15-61	VOC	191.37
STDE 15-62	Storage Tank DE-15-62	VOC	191.37
STDE 15-63	Storage Tank DE-15-63	VOC	191.37
STDE 15-64	Storage Tank DE-15-64	VOC	191.37
STDE 15-65	Storage Tank DE-15-65	VOC	191.37
STDE 15-66	Storage Tank DE-15-66	VOC	191.37
STDE 15-67	Storage Tank DE-15-67	VOC	191.37
STDE 15-68	Storage Tank DE-15-68	VOC	191.37
STDE 15-69	Storage Tank DE-15-69	VOC	191.37
STDE 30-36	Storage Tank DE-30-36	VOC	191.37
STDE 30-37	Storage Tank DE-30-37	VOC	191.37
STDE 30-38	Storage Tank DE-30-38	VOC	191.37
STDE 30-39	Storage Tank DE-30-39	VOC	191.37

EE TANK FARM: 9 TANKS

STEE 15-70	Storage Tank EE-15-70	VOC	191.37
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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	AIR CONTAMINANTS DATA
			<u>Emission Rates *</u> Pounds per Hour
STEE 15-71	Storage Tank EE-15-71	VOC	191.37
STEE 15-72	Storage Tank EE-15-72	VOC	191.37
STEE 15-73	Storage Tank EE-15-73	VOC	191.37
STEE 15-74	Storage Tank EE-15-74	VOC	191.37
STEE 15-75	Storage Tank EE-15-75	VOC	191.37
STEE 30-40	Storage Tank EE-30-40	VOC	191.37
STEE 30-41	Storage Tank EE-30-41	VOC	191.37
STEE 30-42	Storage Tank EE-30-42	VOC	191.37

RAILCAR, TANK TRUCK/ISO CONTAINER, AND MARINE LOADING (6) FACILITIES

RACK R-1	Railcar Loading/Unloading Rack R-1 VOC (28 Railcar Transfer Spots)	26.06 (per spot)
RACK R-2	Railcar Loading/Unloading Rack R-2 VOC (22 Railcar Transfer Spots)	26.06 (per spot)
RACK R-3	Railcar Loading/Unloading Rack R-3 VOC (18 Railcar Transfer Spots)	26.06 (per spot)
RACK R-5	Railcar Loading/Unloading Rack R-5 VOC (16 Railcar Transfer Spots)	26.06 (per spot)
RACK R-6	Railcar Loading/Unloading Rack R-6 VOC (24 Railcar Transfer Spots)	26.06 (per spot)
RACK R-7	Railcar Loading/Unloading Rack R-7 VOC	26.06 (per spot)

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * Pounds per Hour
	(24 Railcar Transfer Spots)		
RACK R-8	Railcar Loading/Unloading/ Direct Transfer Rack R-8 (12 Railcar Transfer Spots)	VOC	26.06 (per spot)
RACK T-3	Tank Truck Loading/Unloading Rack T-3 (4 Tank Truck Bays)	VOC	26.06 (per spot)
RACK T-4	Tank Truck Loading/Unloading Rack T-4 (3 Tank Truck Bays)	VOC	26.06 (per spot)
RACK T-5	Tank Truck Loading/Unloading Rack T-5 (1 Tank Truck Bay)	VOC	26.06 (per spot)
RACK T-6	Tank Truck Loading/Unloading Rack T-6 (4 Tank Truck Bays)	VOC	26.06 (per spot)
RACK T-8	Tank Truck Loading/Unloading Rack T-8 (4 Tank Truck Bays)	VOC	26.06 (per spot)
RACK T-9	Tank Truck Loading/Unloading Rack T-9 (8 Tank Truck Bays)	VOC	26.06 (per spot)
A-1 MANIFOLD	A-1 Manifold Truck Loading/Unloading	VOC	26.06
A-2 MANIFOLD	A-2 Manifold Truck Loading/Unloading	VOC	26.06
A-3 MANIFOLD	A-3 Manifold Truck Loading/Unloading	VOC	26.06
V-MANIFOLD	V-Manifold Truck Loading/Unloading	VOC	26.06
SHIP DOCK 2	Ship Dock Number 2 (1 Vessel Berth)	VOC	337.5
SHIP DOCK 3	Ship Dock Number 3 (1 Vessel Berth)	VOC	337.5
SHIP DOCK 10	Ship Dock Number 10 (1 Vessel Berth)	VOC	337.5

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AIR CONTAMINANTS DATA			
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u> Pounds per Hour
SHIP DOCK 11	Ship Dock Number 11(1 Vessel Berth)		VOC 337.5
BARGE DOCK C	Barge Dock C (2 Barges Deep)	VOC	82.13
BARGE DOCK E	Barge Dock E (2 Barges Deep)	VOC	60.02
PSV-101	Barge Dock C USCG Pressure Relief Valve PSV-101		N/A (7)

ATTACHMENT A-1

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

SHORT-TERM EMISSIONS

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * Pounds per Hour
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PSV-409A	Ship Dock 2/3 USCG Pressure Relief Valve PSV-409A		N/A (7)
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SCRUBBING SYSTEM

SCR-2	Scrubber SCR-2 (5)	Epichlorohydrin	0.01
		Acetic Acid	3.60

TERMINAL FLARE SYSTEMS

TVFL	Tank Farm Vent Flare: 2-Stage John Zink Flare (Rack T-6, Rack R-2, and all Low-Pressure Storage Tanks in D and P Tank Farms)	CO NO _x VOC	67.70 7.90 146.4
FL-1	McGill Loading Flare (Rack R-1, Rack R-3, and Racks T-3 to T-5)	CO NO _x VOC	19.10 2.20 41.54
MLFR	Marine Loading Flare: John Zink (Ship Dock 2/3 and Barge Dock C)	CO NO _x VOC	16.50 1.90 36.21
MLFR-2	East Marine Loading Flare (Ship Dock 10/11 and Barge Dock E)	CO NO _x VOC	16.50 1.90 36.21
FL-5	East Land Flare FL-5 (Racks R-5 to R-8, T-8 and T-9, and all BE Tank Farm Low-Pressure Storage Tanks)	CO NO _x VOC	19.10 2.20 41.54

ATTACHMENT A-1

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

SHORT-TERM EMISSIONS

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u> Pounds per Hour
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TERMINAL STEAM GENERATING UNITS

STM-GEN-S5	Steam Generator S-5	CO	2.20
	Clayton Industries Model SEG 654-	NO _x	0.94
	1-FMB, 650 HP, 26.22 MM BTU/hr	PM ₁₀	0.20
	Heat Capacity, Serial #24810	SO ₂	0.02
		VOC	0.14
STM-GEN-S6	Steam Generator S-6	CO	2.20
	Clayton Industries Model SEG 654-	NO _x	0.94
	1-FMB, 650 HP, 26.22 MM BTU/hr	PM ₁₀	0.20
	Heat Capacity, Serial #24809	SO ₂	0.02
		VOC	0.14

INTERNAL COMBUSTION ENGINES

FIRE-PUMP	Rack R-4 Fire Water Pump	CO	2.47
	Diesel Engine	NO _x	11.47
	Caterpillar Model 3406B-T	PM ₁₀	0.81
	370-Horsepower	SO ₂	0.76
		VOC	0.93
DOCK-ENG	John Deere 4045D Diesel	CO	0.53
	Engine at Ship Dock 2/3	NO _x	1.92
	80-Horsepower	PM ₁₀	0.18
		SO ₂	0.16
		VOC	0.06

PLANT EQUIPMENT FUEL STORAGE TANKS

DIESEL-1	Horizontal Diesel Fuel Storage Tank	Diesel Fuel	0.41
GASOLINE-1	Horizontal Gasoline Storage Tank	Gasoline	33.50
DIESEL-R4	Diesel Fuel Tank for Rack R-4 Fire Water Pump Emergency Engine	Diesel Fuel	0.09

Attachment A-1

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

SHORT-TERM EMISSIONS

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u> Pounds per Hour
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PIPING COMPONENT EQUIPMENT LEAK FUGITIVE EMISSIONS

FU	Piping Fugitive Emissions (4)	VOC	17.73
		Non-VOC	0.18

TERMINAL MAINTENANCE OPERATIONS

DEGREASER	Power Systems Parts Washer Model Number 93-06-P5-5563	VOC	0.04
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ATTACHMENT A-1

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

SHORT-TERM EMISSIONS

- (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
CO - carbon monoxide
NO_x - total oxides of nitrogen
PM₁₀ - particulate matter (PM) equal to or less than 10 microns in diameter
SO₂ - sulfur dioxide
 - (4) Fugitive emissions are an estimate only and are not considered as a maximum allowable emission rate.
 - (5) Scrubber SCR-2 shall be used to control epichlorohydrin tank truck and railcar loading operations as shown on Permit Attachment B. Scrubber SCR-2 shall also be used to control acetic acid vapors from Storage Tanks E12-19SS, E12-20SS, and E12-21SS when in acetic acid service.
 - (6) The permitted marine loading emission rates do not include transfer operations that occur directly between marine vessels not utilizing any shore-based equipment to facilitate the product transfer (i.e., lightering operations).
 - (7) Safety Relief Valve PSV-409A located at Ship Dock 2/3 and Safety Relief Valve PSV-101 located at Barge Dock C on the respective United States Coast Guard (USCG) safety and injection skids are listed for information and reference only. These two emission points do not have any allowable emissions authorized under Permit No. 41618.
- * 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

Dated September 6, 2012