

# Emission Sources - Maximum Allowable Emission Rates

Permit Number 41618

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)
All Emission Points	Site Wide	Individual HAP	-	9.94
		Total HAPs	-	24.94
ANNUAL EMISSIONS CAPS				
CAP A	Storage Tanks, Flare TVFL, and Scrubber SCR-2	VOC	-	114.60
CAP B	Storage Tanks; Loading Racks; Flares FL-1, FL-5, and MLFR; Vapor Combustors VC-01 and VC-02	VOC	-	52.50
CAP C	Flares TVFL, FL-1, FL-5, and MLFR	SO <sub>2</sub>	-	15.48
CAP D	Flares FL-1, FL-5, and MLFR	CO	-	20.56
CAP E	Flares FL-1, FL-5, and MLFR	NO <sub>x</sub>	-	5.02
CAP F	Flares TVFL, FL-1, FL-5, and MLFR; Vapor Combustors VC-01 and VC-02	HBr	-	16.57
CAP G	Storage Tanks; Loading Racks; Flares TVFL, FL-1, FL-5, and MLFR; Vapor Combustors VC-01 and VC-02	Non-VOC	-	35.32
A-TANK FARM: 45 STORAGE TANKS				
STA 3.5-1	Storage Tank A-3.5-1	VOC	191.37	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
STA 3.5-2	Storage Tank A-3.5-2	VOC	191.37	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
STA 3.5-3	Storage Tank A-3.5-3	VOC	191.37	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
STA 3.5-4	Storage Tank A-3.5-4	VOC	191.37	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
STA 3.5-5	Storage Tank A-3.5-5	VOC	191.37	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)

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STA 3.5-6	Storage Tank A-3.5-6	VOC	191.37	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
STA 3.5-7	Storage Tank A-3.5-7	VOC	191.37	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
STA 3.5-8	Storage Tank A-3.5-8	VOC	191.37	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
STA 6-3	Storage Tank A-6-3	VOC	191.37	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
STA 6-4	Storage Tank A-6-4	VOC	191.37	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
STA 6-5	Storage Tank A-6-5	VOC	191.37	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
STA 7.5-5	Storage Tank A-7.5-5	VOC	191.37	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
STA 7.5-6	Storage Tank A-7.5-6	VOC	191.37	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
STA 7.5-7	Storage Tank A-7.5-7	VOC	191.37	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
STA 7.5-8	Storage Tank A-7.5-8	VOC	191.37	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
STA 7.5-9	Storage Tank A-7.5-9	VOC	191.37	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
STA 7.5-10	Storage Tank A-7.5-10	VOC	191.37	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
STA 7.5-11	Storage Tank A-7.5-11	VOC	191.37	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)

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STA 7.5-12	Storage Tank A-7.5-12	VOC	191.37	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
STA 12-5	Storage Tank A-12-5	VOC	191.37	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
STA 12-6	Storage Tank A-12-6	VOC	191.37	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
STA 12-7	Storage Tank A-12-7	VOC	191.37	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
STA 12-8	Storage Tank A-12-8	VOC	191.37	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
STA 12-9	Storage Tank A-12-9	VOC	191.37	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
STA 12-10	Storage Tank A-12-10	VOC	191.37	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
STA 12-11	Storage Tank A-12-11	VOC	191.37	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
STA 12-12	Storage Tank A-12-12	VOC	191.37	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
STA 12-13	Storage Tank A-12-13	VOC	191.37	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
STA 15-1	Storage Tank A-15-1	VOC	191.37	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
STA 15-2	Storage Tank A-15-2	VOC	191.37	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
STA 15-3	Storage Tank A-15-3	VOC	191.37	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)

Emission Sources - Maximum Allowable Emission Rates

STA 15-4	Storage Tank A-15-4	VOC	191.37	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
STA 15-5	Storage Tank A-15-5	VOC	191.37	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
STA 15-6	Storage Tank A-15-6	VOC	191.37	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
STA 15-7	Storage Tank A-15-7	VOC	191.37	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
STA 15-8	Storage Tank A-15-8	VOC	191.37	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
STA 15-9	Storage Tank A-15-9	VOC	191.37	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
STA 15-10	Storage Tank A-15-10	VOC	191.37	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
STA 15-11	Storage Tank A-15-11	VOC	191.37	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
STA 15-12	Storage Tank A-15-12	VOC	191.37	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
STA 15-13	Storage Tank A-15-13	VOC	191.37	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
STA 15-14	Storage Tank A-15-14	VOC	191.37	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
STA 15-15	Storage Tank A-15-15	VOC	191.37	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
STA 15-16	Storage Tank A-15-16	VOC	191.37	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)

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STA 20-1	Storage Tank A-20-1	VOC	191.37	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
B-TANK FARM: 11 STORAGE TANKS				
STB 25-1	Storage Tank B-25-1	VOC	191.37	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
STB 30-1	Storage Tank B-30-1	VOC	191.37	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
STB 30-2	Storage Tank B-30-2	VOC	191.37	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
STB 30-3	Storage Tank B-30-3	VOC	191.37	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
STB 30-4	Storage Tank B-30-4	VOC	191.37	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
STB 30-5	Storage Tank B-30-5	VOC	191.37	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
STB 30-6	Storage Tank B-30-6	VOC	191.37	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
STB 30-7	Storage Tank B-30-7	VOC	191.37	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
STB 30-8	Storage Tank B-30-8	VOC	191.37	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
STB 30-11	Storage Tank B-30-11	VOC	191.37	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
STB 30-12	Storage Tank B-30-12	VOC	191.37	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)

Emission Sources - Maximum Allowable Emission Rates

<b>D-TANK FARM: 25 LOW-PRESSURE STORAGE TANKS</b>				
STD 7-1SS	Low-Pressure Storage Tank D-7-1SS	VOC	191.37	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
STD 7-2SS	Low-Pressure Storage Tank D-7-2SS	VOC	191.37	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
STD 7-3SS	Low-Pressure Storage Tank D-7-3SS	VOC	191.37	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
STD 7.5-13	Low-Pressure Storage Tank D-7.5-13	VOC	191.37	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
STD 7.5-14	Low-Pressure Storage Tank D-7.5-14	VOC	191.37	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
STD 7.5-15	Low-Pressure Storage Tank D-7.5-15	VOC	191.37	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
STD 10-1	Low-Pressure Storage Tank D-10-1	VOC	191.37	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
STD 10-2	Low-Pressure Storage Tank D-10-2	VOC	191.37	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
STD 10-3	Low-Pressure Storage Tank D-10-3	VOC	191.37	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
STD 15-17	Low-Pressure Storage Tank D-15-17	VOC	191.37	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
STD 15-18	Low-Pressure Storage Tank D-15-18	VOC	191.37	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
STD 15-19	Low-Pressure Storage Tank D-15-19	VOC	191.37	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
STD 15-20	Low-Pressure Storage Tank D-15-20	VOC	191.37	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
STD 15-21	Low-Pressure Storage Tank D-15-21	VOC	191.37	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)

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STD 15-22	Low-Pressure Storage Tank D-15-22	VOC	191.37	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
STD 15-23	Low-Pressure Storage Tank D-15-23	VOC	191.37	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
STD 15-24	Low-Pressure Storage Tank D-15-24	VOC	191.37	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
STD 15-25SS	Low-Pressure Storage Tank D-15-25SS	VOC	191.37	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
STD 15-26SS	Low-Pressure Storage Tank D-15-26SS	VOC	191.37	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
STD 15-27SS	Low-Pressure Storage Tank D-15-27SS	VOC	191.37	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
STD 15-28SS	Low-Pressure Storage Tank D-15-28SS	VOC	191.37	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
STD 20-2	Low-Pressure Storage Tank D-20-2	VOC	191.37	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
STD 20-3	Low-Pressure Storage Tank D-20-3	VOC	191.37	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
STD 30-9	Low-Pressure Storage Tank D-30-9	VOC	191.37	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
STD 30-10	Low-Pressure Storage Tank D-30-10	VOC	191.37	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
E-TANK FARM: 13 STORAGE TANKS				
STE 12-14	Storage Tank E-12-14	VOC	191.37	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
STE 12-15	Storage Tank E-12-15	VOC	191.37	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
STE 12-16	Storage Tank E-12-16	VOC	191.37	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)

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STE 12-17	Storage Tank E-12-17	VOC	191.37	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
STE 12-18	Storage Tank E-12-18	VOC	191.37	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
STE 12-19SS	Storage Tank E-12-19SS (6)	VOC	191.37	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
STE 12-20SS	Storage Tank E-12-20SS (6)	VOC	191.37	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
STE 12-21SS	Storage Tank E-12-21SS (6)	VOC	191.37	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
STE 12-22SS	Storage Tank E-12-22SS	VOC	191.37	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
STE 12-23	Storage Tank E-12-23	VOC	191.37	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
STE 12-24	Storage Tank E-12-24	VOC	191.37	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
STE 12-25	Storage Tank E-12-25	VOC	191.37	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
STE 12-26	Storage Tank E-12-26	VOC	191.37	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
F-TANK FARM: 10 STORAGE TANKS & TALLOW BLEACH TANK				
STF 6-1	Storage Tank F-6-1	Tallow (VOC)	2.44	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
STF 6-2	Storage Tank F-6-2	Tallow (VOC)	2.44	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
STF 7.5-1	Storage Tank F-7.5-1	Tallow (VOC)	2.44	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
STF 7.5-2	Storage Tank F-7.5-2	Tallow (VOC)	2.44	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)



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STF 7.5-3	Storage Tank F-7.5-3	Tallow (VOC)	2.44	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
STF 7.5-4	Storage Tank F-7.5-4	Tallow (VOC)	2.44	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
STF 12-1	Storage Tank F-12-1	Tallow (VOC)	2.44	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
STF 12-2	Storage Tank F-12-2	Tallow (VOC)	2.44	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
STF 12-3	Storage Tank F-12-3	Tallow (VOC)	2.44	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
STF 12-4	Storage Tank F-12-4	Tallow (VOC)	2.44	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
Bleach-1	Bleach Storage Tank: F-Manifold	NaOCl	< 0.01	< 0.01
<b>P-TANK FARM: 25 STORAGE TANKS</b>				
STP 15-29	Storage Tank P-15-29	VOC	191.37	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
STP 15-30	Storage Tank P-15-30	VOC	191.37	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
STP 15-31	Storage Tank P-15-31	VOC	191.37	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
STP 15-32	Storage Tank P-15-32	VOC	191.37	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
STP 15-33	Low-Pressure Storage Tank P-15-33	VOC	191.37	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
STP 15-34	Low-Pressure Storage Tank P-15-34	VOC	191.37	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
STP 15-35	Low-Pressure Storage Tank P-15-35	VOC	191.37	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
STP 15-36	Storage Tank P-15-36	VOC	191.37	CAP B (52.50)

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		Non-VOC	1.20	CAP G (35.32)
STP 15-37	Storage Tank P-15-37	VOC	191.37	CAP B (52.50)
		Non-VOC	1.20	CAP G (35.32)
STP 15-38	Storage Tank P-15-38	VOC	191.37	CAP B (52.50)
		Non-VOC	1.20	CAP G (35.32)
STP 15-39	Storage Tank P-15-39	VOC	191.37	CAP B (52.50)
		Non-VOC	1.20	CAP G (35.32)
STP 15-40	Storage Tank P-15-40	VOC	191.37	CAP B (52.50)
		Non-VOC	1.20	CAP G (35.32)
STP 15-41	Storage Tank P-15-41	VOC	191.37	CAP B (52.50)
		Non-VOC	1.20	CAP G (35.32)
STP 15-42	Storage Tank P-15-42	VOC	191.37	CAP B (52.50)
		Non-VOC	1.20	CAP G (35.32)
STP 25-2	Storage Tank P-25-2	VOC	191.37	CAP B (52.50)
		Non-VOC	1.20	CAP G (35.32)
STP 25-3	Storage Tank P-25-3	VOC	191.37	CAP B (52.50)
		Non-VOC	1.20	CAP G (35.32)
STP 40-1	Storage Tank P-40-1	VOC	191.37	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
STP 40-2	Storage Tank P-40-2	VOC	191.37	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
STP 40-3	Storage Tank P-40-3	VOC	191.37	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
STP 50-1	Storage Tank P-50-1	VOC	191.37	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
STP 50-2	Storage Tank P-50-2	VOC	191.37	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
STP 50-3	Storage Tank P-50-3	VOC	191.37	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)

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STP 50-4	Storage Tank P-50-4	VOC	191.37	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
STP 50-5	Storage Tank P-50-5	VOC	191.37	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
STP 50-6	Low-Pressure Storage Tank P-50-6	VOC	191.37	CAP B (52.50)
		Non-VOC	1.20	CAP G (35.32)
Q-TANK FARM: 11 STORAGE TANKS				
STQ 30-13	Storage Tank Q-30-13	VOC	191.37	CAP B (52.50)
		Non-VOC	1.20	CAP G (35.32)
STQ 30-14	Storage Tank Q-30-14	VOC	191.37	CAP B (52.50)
		Non-VOC	1.20	CAP G (35.32)
STQ 30-15	Storage Tank Q-30-15	VOC	191.37	CAP B (52.50)
		Non-VOC	1.20	CAP G (35.32)
STQ 30-16	Storage Tank Q-30-16	VOC	191.37	CAP B (52.50)
		Non-VOC	1.20	CAP G (35.32)
STQ 30-17	Storage Tank Q-30-17	VOC	191.37	CAP B (52.50)
		Non-VOC	1.20	CAP G (35.32)
STQ 30-18	Storage Tank Q-30-18	VOC	191.37	CAP B (52.50)
		Non-VOC	1.20	CAP G (35.32)
STQ 30-19	Storage Tank Q-30-19	VOC	191.37	CAP B (52.50)
		Non-VOC	1.20	CAP G (35.32)
STQ 30-20	Storage Tank Q-30-20	VOC	191.37	CAP B (52.50)
		Non-VOC	1.20	CAP G (35.32)
STQ 40-4	Storage Tank Q-40-4	VOC	191.37	CAP B (52.50)
		Non-VOC	1.20	CAP G (35.32)
STQ 50-7	Storage Tank Q-50-7	VOC	191.37	CAP B (52.50)
		Non-VOC	1.20	CAP G (35.32)
STQ 50-8	Storage Tank Q-50-8	VOC	191.37	CAP B (52.50)
		Non-VOC	1.20	CAP G (35.32)

Emission Sources - Maximum Allowable Emission Rates

S-TANK FARM: 4 IFR STORAGE TANKS				
STS 100-1	IFR Storage Tank S-100-1	VOC	1.58	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
STS 100-2	IFR Storage Tank S-100-2	VOC	1.58	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
STS 100-3	IFR Storage Tank S-100-3	VOC	1.58	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
STS 100-4	IFR Storage Tank S-100-4	VOC	1.58	CAP A (114.60)
		Non-VOC	1.20	CAP G (35.32)
V-TANK FARM: 4 HORIZONTAL STORAGE TANKS				
STV 2-1SS	Horizontal Deck Storage Tank V-2-1SS	VOC	191.37	CAP B (52.50)
		Non-VOC	1.20	CAP G (35.32)
STV 2-2SS	Horizontal Deck Storage Tank V-2-2SS	VOC	191.37	CAP B (52.50)
		Non-VOC	1.20	CAP G (35.32)
STV 2-3SS	Horizontal Deck Storage Tank V-2-3SS	VOC	191.37	CAP B (52.50)
		Non-VOC	1.20	CAP G (35.32)
STV 2-4SS	Horizontal Deck Storage Tank V-2-4SS	VOC	191.37	CAP B (52.50)
		Non-VOC	1.20	CAP G (35.32)
AE-TANK FARM: 36 STORAGE TANKS				
STAE 12-27	Storage Tank AE-12-27	VOC	191.37	CAP B (52.50)
		Non-VOC	1.20	CAP G (35.32)
STAE 12-28	Storage Tank AE-12-28	VOC	191.37	CAP B (52.50)
		Non-VOC	1.20	CAP G (35.32)
STAE 12-29	Storage Tank AE-12-29	VOC	191.37	CAP B (52.50)
		Non-VOC	1.20	CAP G (35.32)
STAE 12-30	Storage Tank AE-12-30	VOC	191.37	CAP B (52.50)
		Non-VOC	1.20	CAP G (35.32)
STAE 12-31	Storage Tank AE-12-31	VOC	191.37	CAP B (52.50)
		Non-VOC	1.20	CAP G (35.32)

Emission Sources - Maximum Allowable Emission Rates

STAE 12-32	Storage Tank AE-12-32	VOC	191.37	CAP B (52.50)
		Non-VOC	1.20	CAP G (35.32)
STAE 12-33	Storage Tank AE-12-33	VOC	191.37	CAP B (52.50)
		Non-VOC	1.20	CAP G (35.32)
STAE 12-34	Storage Tank AE-12-34	VOC	191.37	CAP B (52.50)
		Non-VOC	1.20	CAP G (35.32)
STAE 12-35	Storage Tank AE-12-35	VOC	191.37	CAP B (52.50)
		Non-VOC	1.20	CAP G (35.32)
STAE 12-36	Storage Tank AE-12-36	VOC	191.37	CAP B (52.50)
		Non-VOC	1.20	CAP G (35.32)
STAE 12-37	Storage Tank AE-12-37	VOC	191.37	CAP B (52.50)
		Non-VOC	1.20	CAP G (35.32)
STAE 12-38	Storage Tank AE-12-38	VOC	191.37	CAP B (52.50)
		Non-VOC	1.20	CAP G (35.32)
STAE 12-39	Storage Tank AE-12-39	VOC	191.37	CAP B (52.50)
		Non-VOC	1.20	CAP G (35.32)
STAE 12-40	Storage Tank AE-12-40	VOC	191.37	CAP B (52.50)
		Non-VOC	1.20	CAP G (35.32)
STAE 12-41	Storage Tank AE-12-41	VOC	191.37	CAP B (52.50)
		Non-VOC	1.20	CAP G (35.32)
STAE 15-43	Storage Tank AE-15-43	VOC	191.37	CAP B (52.50)
		Non-VOC	1.20	CAP G (35.32)
STAE 15-44	Storage Tank AE-15-44	VOC	191.37	CAP B (52.50)
		Non-VOC	1.20	CAP G (35.32)
STAE 15-45	Storage Tank AE-15-45	VOC	191.37	CAP B (52.50)
		Non-VOC	1.20	CAP G (35.32)
STAE 15-46	Storage Tank AE-15-46	VOC	191.37	CAP B (52.50)
		Non-VOC	1.20	CAP G (35.32)
STAE 15-47	Storage Tank AE-15-47	VOC	191.37	CAP B (52.50)

Emission Sources - Maximum Allowable Emission Rates

		Non-VOC	1.20	CAP G (35.32)
STAE 15-48	Storage Tank AE-15-48	VOC	191.37	CAP B (52.50)
		Non-VOC	1.20	CAP G (35.32)
STAE 15-49	Storage Tank AE-15-49	VOC	191.37	CAP B (52.50)
		Non-VOC	1.20	CAP G (35.32)
STAE 15-50	Storage Tank AE-15-50	VOC	191.37	CAP B (52.50)
		Non-VOC	1.20	CAP G (35.32)
STAE 15-51	Storage Tank AE-15-51	VOC	191.37	CAP B (52.50)
		Non-VOC	1.20	CAP G (35.32)
STAE 15-52	Storage Tank AE-15-52	VOC	191.37	CAP B (52.50)
		Non-VOC	1.20	CAP G (35.32)
STAE 15-53	Storage Tank AE-15-53	VOC	191.37	CAP B (52.50)
		Non-VOC	1.20	CAP G (35.32)
STAE 15-54	Storage Tank AE-15-54	VOC	191.37	CAP B (52.50)
		Non-VOC	1.20	CAP G (35.32)
STAE 30-21	Storage Tank AE-30-21	VOC	191.37	CAP B (52.50)
		Non-VOC	1.20	CAP G (35.32)
STAE 30-22	Storage Tank AE-30-22	VOC	191.37	CAP B (52.50)
		Non-VOC	1.20	CAP G (35.32)
STAE 30-23	Storage Tank AE-30-23	VOC	191.37	CAP B (52.50)
		Non-VOC	1.20	CAP G (35.32)
STAE 30-24	Storage Tank AE-30-24	VOC	191.37	CAP B (52.50)
		Non-VOC	1.20	CAP G (35.32)
STAE 30-25	Storage Tank AE-30-25	VOC	191.37	CAP B (52.50)
		Non-VOC	1.20	CAP G (35.32)
STAE 30-26	Storage Tank AE-30-26	VOC	191.37	CAP B (52.50)
		Non-VOC	1.20	CAP G (35.32)
STAE 30-27	Storage Tank AE-30-27	VOC	191.37	CAP B (52.50)
		Non-VOC	1.20	CAP G (35.32)

Emission Sources - Maximum Allowable Emission Rates

STAE 40-5	Storage Tank AE-40-5	VOC	191.37	CAP B (52.50)
		Non-VOC	1.20	CAP G (35.32)
STAE 40-6	Storage Tank AE-40-6	VOC	191.37	CAP B (52.50)
		Non-VOC	1.20	CAP G (35.32)
BE-TANK FARM: 16 STORAGE TANKS				
STBE 12-42	Storage Tank BE-12-42	VOC	191.37	CAP B (52.50)
		Non-VOC	1.20	CAP G (35.32)
STBE 12-43	Storage Tank BE-12-43	VOC	191.37	CAP B (52.50)
		Non-VOC	1.20	CAP G (35.32)
STBE 12-44	Storage Tank BE-12-44	VOC	191.37	CAP B (52.50)
		Non-VOC	1.20	CAP G (35.32)
STBE 12-45	Storage Tank BE-12-45	VOC	191.37	CAP B (52.50)
		Non-VOC	1.20	CAP G (35.32)
STBE 12-46	Storage Tank BE-12-46	VOC	191.37	CAP B (52.50)
		Non-VOC	1.20	CAP G (35.32)
STBE 12-47	Storage Tank BE-12-47	VOC	191.37	CAP B (52.50)
		Non-VOC	1.20	CAP G (35.32)
STBE 15-55	Storage Tank BE-15-55	VOC	191.37	CAP B (52.50)
		Non-VOC	1.20	CAP G (35.32)
STBE 15-56	Storage Tank BE-15-56	VOC	191.37	CAP B (52.50)
		Non-VOC	1.20	CAP G (35.32)
STBE 15-57	Storage Tank BE-15-57	VOC	191.37	CAP B (52.50)
		Non-VOC	1.20	CAP G (35.32)
STBE 15-58	Storage Tank BE-15-58	VOC	191.37	CAP B (52.50)
		Non-VOC	1.20	CAP G (35.32)
STBE 15-59	Storage Tank BE-15-59	VOC	191.37	CAP B (52.50)
		Non-VOC	1.20	CAP G (35.32)
STBE 15-60	Storage Tank BE-15-60	VOC	191.37	CAP B (52.50)
		Non-VOC	1.20	CAP G (35.32)

Emission Sources - Maximum Allowable Emission Rates

STBE 20-4SS	Low-Pressure Storage Tank BE-20-4SS	VOC	191.37	CAP B (52.50)
		Non-VOC	1.20	CAP G (35.32)
STBE 20-5SS	Low-Pressure Storage Tank BE-20-5SS	VOC	191.37	CAP B (52.50)
		Non-VOC	1.20	CAP G (35.32)
STBE 20-6SS	Low-Pressure Storage Tank BE-20-6SS	VOC	191.37	CAP B (52.50)
		Non-VOC	1.20	CAP G (35.32)
STBE 20-7SS	Low-Pressure Storage Tank BE-20-7SS	VOC	191.37	CAP B (52.50)
		Non-VOC	1.20	CAP G (35.32)
CE-TANK FARM: 8 STORAGE TANKS				
STCE 30-28	Storage Tank CE-30-28	VOC	191.37	CAP B (52.50)
		Non-VOC	1.20	CAP G (35.32)
STCE 30-29	Storage Tank CE-30-29	VOC	191.37	CAP B (52.50)
		Non-VOC	1.20	CAP G (35.32)
STCE 30-30	Storage Tank CE-30-30	VOC	191.37	CAP B (52.50)
		Non-VOC	1.20	CAP G (35.32)
STCE 30-31	Storage Tank CE-30-31	VOC	191.37	CAP B (52.50)
		Non-VOC	1.20	CAP G (35.32)
STCE 30-32	Storage Tank CE-30-32	VOC	191.37	CAP B (52.50)
		Non-VOC	1.20	CAP G (35.32)
STCE 30-33	Storage Tank CE-30-33	VOC	191.37	CAP B (52.50)
		Non-VOC	1.20	CAP G (35.32)
STCE 30-34	Storage Tank CE-30-34	VOC	191.37	CAP B (52.50)
		Non-VOC	1.20	CAP G (35.32)
STCE 30-35	Storage Tank CE-30-35	VOC	191.37	CAP B (52.50)
		Non-VOC	1.20	CAP G (35.32)
DE-TANK FARM: 13 STORAGE TANKS				
STDE 15-61	Storage Tank DE-15-61	VOC	191.37	CAP B (52.50)
		Non-VOC	1.20	CAP G (35.32)



Emission Sources - Maximum Allowable Emission Rates

STDE 15-62	Storage Tank DE-15-62	VOC	191.37	CAP B (52.50)
		Non-VOC	1.20	CAP G (35.32)
STDE 15-63	Storage Tank DE-15-63	VOC	191.37	CAP B (52.50)
		Non-VOC	1.20	CAP G (35.32)
STDE 15-64	Storage Tank DE-15-64	VOC	191.37	CAP B (52.50)
		Non-VOC	1.20	CAP G (35.32)
STDE 15-65	Storage Tank DE-15-65	VOC	191.37	CAP B (52.50)
		Non-VOC	1.20	CAP G (35.32)
STDE 15-66	Storage Tank DE-15-66	VOC	191.37	CAP B (52.50)
		Non-VOC	1.20	CAP G (35.32)
STDE 15-67	Storage Tank DE-15-67	VOC	191.37	CAP B (52.50)
		Non-VOC	1.20	CAP G (35.32)
STDE 15-68	Storage Tank DE-15-68	VOC	191.37	CAP B (52.50)
		Non-VOC	1.20	CAP G (35.32)
STDE 15-69	Storage Tank DE-15-69	VOC	191.37	CAP B (52.50)
		Non-VOC	1.20	CAP G (35.32)
STDE 30-36	Storage Tank DE-30-36	VOC	191.37	CAP B (52.50)
		Non-VOC	1.20	CAP G (35.32)
STDE 30-37	Storage Tank DE-30-37	VOC	191.37	CAP B (52.50)
		Non-VOC	1.20	CAP G (35.32)
STDE 30-38	Storage Tank DE-30-38	VOC	191.37	CAP B (52.50)
		Non-VOC	1.20	CAP G (35.32)
STDE 30-39	Storage Tank DE-30-39	VOC	191.37	CAP B (52.50)
		Non-VOC	1.20	CAP G (35.32)
EE-TANK FARM: 9 STORAGE TANKS				
STEE 15-70	Storage Tank EE-15-70	VOC	191.37	CAP B (52.50)
		Non-VOC	1.20	CAP G (35.32)

Emission Sources - Maximum Allowable Emission Rates

STEE 15-71	Storage Tank EE-15-71	VOC	191.37	CAP B (52.50)
		Non-VOC	1.20	CAP G (35.32)
STEE 15-72	Storage Tank EE-15-72	VOC	191.37	CAP B (52.50)
		Non-VOC	1.20	CAP G (35.32)
STEE 15-73	Storage Tank EE-15-73	VOC	191.37	CAP B (52.50)
		Non-VOC	1.20	CAP G (35.32)
STEE 15-74	Storage Tank EE-15-74	VOC	191.37	CAP B (52.50)
		Non-VOC	1.20	CAP G (35.32)
STEE 15-75	Storage Tank EE-15-75	VOC	191.37	CAP B (52.50)
		Non-VOC	1.20	CAP G (35.32)
STEE 30-40	Storage Tank EE-30-40	VOC	191.37	CAP B (52.50)
		Non-VOC	1.20	CAP G (35.32)
STEE 30-41	Storage Tank EE-30-41	VOC	191.37	CAP B (52.50)
		Non-VOC	1.20	CAP G (35.32)
STEE 30-42	Storage Tank EE-30-42	VOC	191.37	CAP B (52.50)
		Non-VOC	1.20	CAP G (35.32)
RAIL CAR, TANK TRUCK / ISO CONTAINER, AND MARINE LOADING FACILITIES				
RACK R-1	Rail Rack R-1: 28 Transfer Spots	VOC	26.06 (per spot)	CAP B (52.50)
		Non-VOC	0.27 (per spot)	CAP G (35.32)
R1-LOADFUG	Rail Rack R-1 Uncollected Loading Fugitives: 28 Transfer Spots (9)	VOC	8.96 (per spot)	CAP B (52.50)
		Non-VOC	5.45 (per spot)	CAP G (35.32)
RACK R-2	Rail Rack R-2: 22 Transfer Spots	VOC	26.06 (per spot)	CAP B (52.50)
		Non-VOC	0.27 (per spot)	CAP G (35.32)
R2-LOADFUG	Rail Rack R-2 Uncollected Loading Fugitives: 22 Transfer Spots (9)	VOC	8.96 (per spot)	CAP B (52.50)
		Non-VOC	5.45 (per spot)	CAP G (35.32)
RACK R-3	Rail Rack R-3: 18 Transfer Spots	VOC	26.06 (per spot)	CAP B (52.50)
		Non-VOC	0.27 (per spot)	CAP G (35.32)
R3-LOADFUG	Rail Rack R-3 Uncollected Loading Fugitives: 18 Transfer Spots (9)	VOC	8.96 (per spot)	CAP B (52.50)
		Non-VOC	5.45 (per spot)	CAP G (35.32)

Emission Sources - Maximum Allowable Emission Rates

RACK R-5	Rail Rack R-5: 16 Transfer Spots	VOC	26.06 (per spot)	CAP B (52.50)
		Non-VOC	0.27 (per spot)	CAP G (35.32)
R5-LOADFUG	Rail Rack R-5 Uncollected Loading Fugitives: 16 Transfer Spots (9)	VOC	8.96 (per spot)	CAP B (52.50)
		Non-VOC	5.45 (per spot)	CAP G (35.32)
RACK R-6	Rail Rack R-6: 24 Transfer Spots	VOC	26.06 (per spot)	CAP B (52.50)
		Non-VOC	0.27 (per spot)	CAP G (35.32)
R6-LOADFUG	Rail Rack R-6 Uncollected Loading Fugitives: 24 Transfer Spots (9)	VOC	8.96 (per spot)	CAP B (52.50)
		Non-VOC	5.45 (per spot)	CAP G (35.32)
RACK R-7	Rail Rack R-7: 24 Transfer Spots	VOC	26.06 (per spot)	CAP B (52.50)
		Non-VOC	0.27 (per spot)	CAP G (35.32)
R7-LOADFUG	Rail Rack R-7 Uncollected Loading Fugitives: 24 Transfer Spots (9)	VOC	8.96 (per spot)	CAP B (52.50)
		Non-VOC	5.45 (per spot)	CAP G (35.32)
RACK R-8	Rail Rack R-8: 12 Transfer Spots	VOC	26.06 (per spot)	CAP B (52.50)
		Non-VOC	0.27 (per spot)	CAP G (35.32)
R8-LOADFUG	Rail Rack R-8 Uncollected Loading Fugitives: 12 Transfer Spots (9)	VOC	8.96 (per spot)	CAP B (52.50)
		Non-VOC	5.45 (per spot)	CAP G (35.32)
RACK T-3	Truck Rack T-3: 4 Transfer Bays	VOC	26.06 (per bay)	CAP B (52.50)
		Non-VOC	0.27 (per bay)	CAP G (35.32)
T3-LOADFUG	Truck Rack T-3 Uncollected Loading Fugitives: 4 Transfer Bays (9)	VOC	14.56 (per bay)	CAP B (52.50)
		Non-VOC	8.86 (per bay)	CAP G (35.32)
RACK T-4	Truck Rack T-4: 3 Transfer Bays	VOC	26.06 (per bay)	CAP B (52.50)
		Non-VOC	0.27 (per bay)	CAP G (35.32)
T4-LOADFUG	Truck Rack T-4 Uncollected Loading Fugitives: 3 Transfer Bays (9)	VOC	14.56 (per bay)	CAP B (52.50)
		Non-VOC	8.86 (per bay)	CAP G (35.32)
RACK T-5	Truck Rack T-5: 1 Transfer Bay	VOC	26.06	CAP B (52.50)
		Non-VOC	0.27	CAP G (35.32)
T5-LOADFUG	Truck Rack T-5 Uncollected Loading Fugitives: 1 Transfer Bay (9)	VOC	14.56	CAP B (52.50)
		Non-VOC	8.86	CAP G (35.32)
RACK T-6	Truck Rack T-6: 4 Transfer Bays	VOC	26.06 (per bay)	CAP B (52.50)

Emission Sources - Maximum Allowable Emission Rates

		Non-VOC	0.27 (per bay)	CAP G (35.32)
T6-LOADFUG	Truck Rack T-6 Uncollected Loading Fugitives: 4 Transfer Bays (9)	VOC	14.56 (per bay)	CAP B (52.50)
		Non-VOC	8.86 (per bay)	CAP G (35.32)
RACK T-8	Truck Rack T-8: 4 Transfer Bays	VOC	26.06 (per bay)	CAP B (52.50)
		Non-VOC	0.27 (per bay)	CAP G (35.32)
T8-LOADFUG	Truck Rack T-8 Uncollected Loading Fugitives: 4 Transfer Bays (9)	VOC	14.56 (per bay)	CAP B (52.50)
		Non-VOC	8.86 (per bay)	CAP G (35.32)
RACK T-9	Truck Rack T-9: 8 Transfer Bays	VOC	26.06 (per bay)	CAP B (52.50)
		Non-VOC	0.27 (per bay)	CAP G (35.32)
T9-LOADFUG	Truck Rack T-9 Uncollected Loading Fugitives: 8 Transfer Bays (9)	VOC	14.56 (per bay)	CAP B (52.50)
		Non-VOC	8.86 (per bay)	CAP G (35.32)
A-1 Manifold	A-1 Manifold Truck Loading Area	VOC	26.06	CAP B (52.50)
		Non-VOC	0.27	CAP G (35.32)
A-2 Manifold	A-2 Manifold Truck Loading Area	VOC	26.06	CAP B (52.50)
		Non-VOC	0.27	CAP G (35.32)
A-3 Manifold	A-3 Manifold Truck Loading Area	VOC	26.06	CAP B (52.50)
		Non-VOC	0.27	CAP G (35.32)
V-Manifold	V-Manifold Truck Loading Area	VOC	26.06	CAP B (52.50)
		Non-VOC	0.27	CAP G (35.32)
SHIP DOCK 2	Ship Dock Number 2: 1 Vessel Berth (7)	VOC	337.50	CAP B (52.50)
		Non-VOC	0.49	CAP G (35.32)
SD2-LD-FUG	Ship Dock Number 2: Uncollected Loading Fugitives (7) (9)	VOC	59.62	CAP B (52.50)
		Non-VOC	59.03	CAP G (35.32)
SHIP DOCK 3	Ship Dock Number 3: 1 Vessel Berth (7)	VOC	337.50	CAP B (52.50)
		Non-VOC	0.49	CAP G (35.32)
SD3-LD-FUG	Ship Dock Number 3: Uncollected Loading Fugitives (7) (9)	VOC	59.62	CAP B (52.50)
		Non-VOC	59.03	CAP G (35.32)
SHIP DOCK 10	Ship Dock Number 10: 1 Vessel Berth (7)	VOC	337.50	CAP B (52.50)
		Non-VOC	0.49	CAP G (35.32)

Emission Sources - Maximum Allowable Emission Rates

SD10-LDFUG	Ship Dock Number 10: Uncollected Loading Fugitives (7) (9)	VOC	59.62	CAP B (52.50)
		Non-VOC	59.03	CAP G (35.32)
SHIP DOCK 11	Ship Dock Number 11: 1 Vessel Berth (7)	VOC	337.50	CAP B (52.50)
		Non-VOC	0.49	CAP G (35.32)
SD11-LDFUG	Ship Dock Number 11: Uncollected Loading Fugitives (7) (9)	VOC	59.62	CAP B (52.50)
		Non-VOC	59.03	CAP G (35.32)
BARGE DOCK-C	Barge Dock-C: 2 Barge Berths (7)	VOC	82.13	CAP B (52.50)
		Non-VOC	0.49	CAP G (35.32)
BD-C-LDFUG	Barge Dock-C: Uncollected Loading Fugitives (7) (9)	VOC	59.62	CAP B (52.50)
		Non-VOC	59.03	CAP G (35.32)
BARGE DOCK-J	Barge Dock-J: 2 Barge Berths (7)	VOC	60.02	CAP B (52.50)
		Non-VOC	0.49	CAP G (35.32)
BD-J-LDFUG	Barge Dock-J: Uncollected Loading Fugitives (7) (9)	VOC	59.62	CAP B (52.50)
		Non-VOC	59.03	CAP G (35.32)
PSV-101	Pressure Relief Valve PSV-101 (8)	Non-Routine Emissions Only	N/A	N/A
PSV-409A	Pressure Relief Valve PSV-409A (8)	Non-Routine Emissions Only	N/A	N/A
SCRUBBING SYSTEM				
SCR-2	Scrubber SCR-2 (6)	Epichlorohydrin	0.01	CAP A (114.60)
		Acetic Acid	3.60	0.39
WASTEWATER TREATMENT PLANT (WWTP) SOURCES				
EQ-02	WWTP Equalization Tank EQ-02	VOC	9.33	CAP B (52.50)
		Non-VOC	17.95	CAP G (35.32)
FLARE SYSTEMS				
TVFL	Tank Farm Vent Flare: 2-Stage John Zink Flare	CO	67.70	58.86
		NO <sub>x</sub>	7.90	7.37
	Truck Rack T-6, Rail Rack R-2, and all Low Pressure Storage Tanks in D & P Tank Farms	SO <sub>2</sub>	15.00	CAP C (15.48)
		VOC	146.40	CAP A (114.60)
		Non-VOC	47.50	CAP G (35.32)

Emission Sources - Maximum Allowable Emission Rates

		HCl	173.50	HAP CAP (9.94)
		HBr	128.60	CAP F (16.57)
FL-5	Enclosed East Land Flare FL-5: Two Stages  Truck Racks T-8, T-9, Rail Racks R-5, R-6, R-7, R-8, and all BE-Tank Farm Low-Pressure Storage Tanks	CO	23.42	CAP D (20.56)
		NO <sub>x</sub>	7.03	CAP E (5.02)
		SO <sub>2</sub>	3.20	CAP C (15.48)
		VOC	41.54	CAP B (52.50)
		Non-VOC	47.50	CAP G (35.32)
		HCl	79.00	HAP CAP (9.94)
		HBr	41.00	CAP F (16.57)
FL-1	McGill Truck & Rail Car Loading Flare  Rail Rack R-1, Rack R-3, and Truck Racks T-3 to T-5	CO	19.10	CAP D (20.56)
		NO <sub>x</sub>	2.20	CAP E (5.02)
		SO <sub>2</sub>	4.50	CAP C (15.48)
		VOC	41.54	CAP B (52.50)
		Non-VOC	12.28	CAP G (35.32)
		HCl	112.18	HAP CAP (9.94)
		HBr	83.15	CAP F (16.57)
MLFR	Enclosed Marine Loading Flare: John Zink (Two-Stages)  Ship Docks 2/3 and Barge Dock-C	CO	16.50	CAP D (20.56)
		NO <sub>x</sub>	1.90	CAP E (5.02)
		SO <sub>2</sub>	8.00	CAP C (15.48)
		VOC	36.21	CAP B (52.50)
		Non-VOC	22.39	CAP G (35.32)
		HCl	146.07	HAP CAP (9.94)
		HBr	108.27	CAP F (16.57)
TERMINAL ENCLOSED COMBUSTION UNITS				
VC-01	Vapor Combustor VC-01: Two-Stages  Truck Rack T-6, Rail Rack R-2, and all Low Pressure Storage Tanks in D & P Tank Farms  Maximum Design Heat Input 62.5-MM Btu/hour	CO	12.50	13.69
		NO <sub>x</sub>	6.88	7.53
		SO <sub>2</sub>	14.00	15.50
		VOC	73.34	CAP B (52.50)
				0.33

Emission Sources - Maximum Allowable Emission Rates

		Non-VOC	23.75	CAP G (35.32)
		PM	0.47	0.51
		PM <sub>10</sub>	0.47	0.51
		PM <sub>2.5</sub>	0.47	0.51
		HCl	146.07	HAP CAP (9.94)
		HBr	108.27	CAP F (16.57)
VC-02	East Docks Marine Loading Vapor Combustor VC-02: Two-Stages  Ship Dock 10, Ship Dock 11, and Barge Dock-J  Maximum Design Heat Input 72.8-MM Btu/hour	CO	14.56	12.75
		NO <sub>x</sub>	10.92	9.57
		VOC	18.28	CAP B (52.50)
				1.87
		Non-VOC	11.20	CAP G (35.32)
		SO <sub>2</sub>	6.20	7.56
		PM	0.54	0.48
		PM <sub>10</sub>	0.54	0.48
		PM <sub>2.5</sub>	0.54	0.48
		HCl	146.07	HAP CAP (9.94)
		HBr	80.00	CAP F (16.57)
PTO	Portable Thermal Oxidizer  Temporary Vapor Control for all BE-Tank Farm Tanks, Storage Tank P-50-6, Rail Rack R-2, and Truck Rack T-6	CO	11.83	6.00
		NO <sub>x</sub>	1.04	0.41
		SO <sub>2</sub>	0.12	0.05
		PM	0.06	0.03
		PM <sub>10</sub>	0.06	0.03
		PM <sub>2.5</sub>	0.06	0.03
		VOC	1.62	0.64
TERMINAL STEAM GENERATING UNITS				
STM-GEN-S5	Clayton Industries Steam Generator S-5  Model SEG 654-1-FMB  650-Horsepower  26.54-MM BTU/hour Heat Capacity	CO	2.20	9.65
		NO <sub>x</sub>	0.94	4.13
		SO <sub>2</sub>	0.02	0.07
		PM	0.20	0.87

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Emission Sources - Maximum Allowable Emission Rates

		PM <sub>10</sub>	0.20	0.87
		PM <sub>2.5</sub>	0.20	0.87
		VOC	0.14	0.63
STM-GEN-S6	Clayton Industries Steam Generator S-6  Model SEG 654-1-FMB  650-Horsepower  26.54-MM BTU/hour Heat Capacity  Serial Number 24809	CO	2.20	9.65
		NO <sub>x</sub>	0.94	4.13
		SO <sub>2</sub>	0.02	0.07
		PM	0.20	0.87
		PM <sub>10</sub>	0.20	0.87
		PM <sub>2.5</sub>	0.20	0.87
		VOC	0.14	0.63
INTERNAL COMBUSTION ENGINES				
R4-FWP-ENG	Rack R-4 Fire Water Pump Driver Diesel Engine  Caterpillar Model 3406B-T  370-Horsepower	CO	2.47	0.06
		NO <sub>x</sub>	11.47	0.30
		SO <sub>2</sub>	0.76	0.02
		PM	0.81	0.02
		PM <sub>10</sub>	0.81	0.02
		PM <sub>2.5</sub>	0.81	0.02
		VOC	0.93	0.02
D11-FWPE-N	Ship Dock 11 Fire Water Pump Driver Diesel Engine (North)  Cummins Model CFP23E-F20  753-Horsepower  Serial Number 85003711	CO	0.62	0.03
		NO <sub>x</sub>	6.22	0.31
		SO <sub>2</sub>	0.01	< 0.01
		PM	0.14	0.01
		PM <sub>10</sub>	0.14	0.01
		PM <sub>2.5</sub>	0.14	0.01
		VOC	0.45	0.02



Emission Sources - Maximum Allowable Emission Rates

D11-FWPE-S	Ship Dock 11 Fire Water Pump Driver Diesel Engine (South)  Cummins Model CFP23E-F20  753-Horsepower  Serial Number 85004992	CO	0.62	0.03
		NO <sub>x</sub>	6.22	0.31
		SO <sub>2</sub>	0.01	< 0.01
		PM	0.14	0.01
		PM <sub>10</sub>	0.14	0.01
		PM <sub>2.5</sub>	0.14	0.01
		VOC	0.45	0.02
SD-2/3-ENG	John Deere Model 4045D Diesel Engine at Ship Dock 2/3  80-Horsepower	CO	0.53	0.10
		NO <sub>x</sub>	1.92	0.35
		SO <sub>2</sub>	0.16	0.03
		PM	0.18	0.03
		PM <sub>10</sub>	0.18	0.03
		PM <sub>2.5</sub>	0.18	0.03
		VOC	0.06	0.01
STD-BY-GEN	Terminal Administration Building Stand-By Generator Diesel Engine  Caterpillar Model 3406B-DI  519-Horsepower (350 kW)  Serial Number 4RG00337	CO	9.65	4.23
		NO <sub>x</sub>	9.23	4.04
		SO <sub>2</sub>	0.01	< 0.01
		PM	2.82	1.24
		PM <sub>10</sub>	2.82	1.24
		PM <sub>2.5</sub>	2.82	1.24
		VOC	0.12	0.05
PLANT EQUIPMENT FUEL STORAGE TANKS				
DIESEL-1	Horizontal Diesel Fuel Storage Tank	VOC	0.41	CAP A (114.60)
GASOLINE-1	Horizontal Gasoline Storage Tank	VOC	33.50	CAP A (114.60)
GAS-93-OCT	Horizontal Premium Gasoline Storage Tank	VOC	33.50	CAP A (114.60)
DIESEL-R4	Diesel Fuel Tank for Rack R-4 Emergency Engine	VOC	0.09	CAP A (114.60)
PIPING COMPONENT EQUIPMENT FUGITIVE EMISSIONS				
FUG	Piping Fugitive Emissions (5)	VOC	17.73	77.67
		Non-VOC	13.46	58.97

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; includes HAP that are VOC
- NO<sub>x</sub>
  - total oxides of nitrogen
- SO<sub>2</sub>
  - sulfur dioxide
- PM
  - total particulate matter, suspended in the atmosphere, including PM<sub>10</sub> and PM<sub>2.5</sub>, as represented
- PM<sub>10</sub>
  - total particulate matter equal to or less than 10 microns in diameter, including PM<sub>2.5</sub>, as represented
- PM<sub>2.5</sub>
  - particulate matter equal to or less than 2.5 microns in diameter
- CO
  - carbon monoxide
- HAP
  - hazardous air pollutant as listed in § 112(b) of the Federal Clean Air Act or Title 40 Code of Federal Regulations Part 63, Subpart C
- HCl
  - hydrogen chloride
- HBr
  - hydrogen bromide
- Non-VOC
  - emissions related to the storage and loading operations of chemicals included in Permit 41618 Attachment B that are not classified as VOC (both organic and inorganic)
- NaOCl
  - Sodium Hypochlorite (Bleach)
- (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) 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.
- (7) The permitted marine loading emission rates do not include transfer operations that occur directly between two marine vessels at Stolthaven Houston's docks not utilizing any shore-based equipment to facilitate the product transfer (i.e., lightering operations).
- (8) 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.
- (9) This EPN is for emission calculation and recordkeeping purposes. The emissions are calculated uncaptured losses when land and marine-based loading vapors are routed to control. The capture efficiency is based on industry accepted conservative estimates used for permitting.

Date: \_\_\_\_\_ TBD