Emission Sources - Maximum Allowable Emission Rates

Permit Number 56508 and PSDTX1444

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)
MVCU1	Marine Vapor Combustion Unit 1 (6)	NO_x	11.48	--
		CO	6.96	--
		SO_2	59.25	--
		VOC	12.28	--
		PM	1.30	--
		PM_{10}	1.30	--
		$PM_{2.5}$	1.30	--
		H_2S	0.06	--
MVCU2	Marine Vapor Combustion Unit 2 (6)	NO_x	21.93	--
		CO	6.36	--
		SO_2	65.84	--
		VOC	5.22	--
		PM	1.18	--
		PM_{10}	1.18	--
		$PM_{2.5}$	1.18	--
		H_2S	0.03	--

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MVCU3	Marine Vapor Combustion Unit 3	NO_x	21.80	--
		CO	7.21	--
		SO_2	36.21	--
		VOC	7.18	--
		PM	1.34	--
		PM_{10}	1.34	--
		$PM_{2.5}$	1.34	--
		H_2S	0.02	--
MVCU4	Marine Vapor Combustion Unit 4	NO_x	16.84	--
		CO	6.36	--
		SO_2	65.84	--
		VOC	5.22	--
		PM	1.18	--
		PM_{10}	1.18	--
		$PM_{2.5}$	1.18	--
		H_2S	0.03	--
MVCU5	Marine Vapor Combustion Unit 5	NO_x	9.53	--
		CO	2.38	--
		SO_2	65.84	--
		VOC	5.22	--
		PM	1.18	--
		PM_{10}	1.18	--
		$PM_{2.5}$	1.18	--
		H_2S	0.03	--

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MVCU6	Marine Vapor Combustion Unit 6	NO_x	9.53	--
		CO	2.38	--
		SO_2	65.84	--
		VOC	5.22	--
		PM	1.18	--
		PM_{10}	1.18	--
		$PM_{2.5}$	1.18	--
		H_2S	0.03	--
COMBUSTCAP	Marine Vapor Combustion Unit 1, 2, 3, 4, 5, and 6 Emissions Cap (6)	NO_x	--	14.26
		CO	--	4.13
		SO_2	--	34.29
		VOC	--	6.42
		PM	--	0.77
		PM_{10}	--	0.77
		$PM_{2.5}$	--	0.77
		H_2S	--	0.04
MVCU1-FUG	Marine Vapor Combustion Unit 1 Fugitives (5)	VOC	0.16	0.69
		H_2S	<0.01	<0.01
MVCU2-FUG	Marine Vapor Combustion Unit 2 Fugitives (5)	VOC	0.16	0.69
		H_2S	<0.01	<0.01
MVCU3-FUG	Marine Vapor Combustion Unit 3 Fugitives (5)	VOC	0.16	0.69
		H_2S	<0.01	<0.01
MVCU4-FUG	Marine Vapor Combustion Unit 4 Fugitives (5)	VOC	0.16	0.69
		H_2S	<0.01	<0.01
MVCU5-FUG	Marine Vapor Combustion Unit 5 Fugitives (5)	VOC	0.16	0.69
		H_2S	<0.01	<0.01
MVCU6-FUG	Marine Vapor Combustion Unit 6	VOC	0.16	0.69

Emission Sources - Maximum Allowable Emission Rates

	Fugitives (5)	H_2S	<0.01	<0.01
LOADBDA	Barge Dock A Loading	VOC	4.96	--
		H_2S	0.02	--
LOADBDB	Barge Dock B Loading	VOC	119.73	--
		H_2S	0.32	--
LOADBDD	Barge Dock D Loading	VOC	4.96	--
		H_2S	0.02	--
LOADSD1	Ship Dock 1 Loading (7)	VOC	7.05	--
		H_2S	0.01	--
LOADSD2	Ship Dock 2 Loading (7)	VOC	7.84	--
		H_2S	0.05	--
LOADSD4	Ship Dock 4 Loading	VOC	7.84	--
		H_2S	0.05	--
LOADSD6	Ship Dock 6 Loading	VOC	7.84	--
		H_2S	0.05	--
LOADSD7	Ship Dock 7 Loading	VOC	7.84	--
		H_2S	0.05	--
LOADCAP	Docks A, B, D, 1, 2, 4, 6, and 7 Loading Emission Cap	VOC	--	47.20
		H_2S	--	0.27
LOADBDC	Barge Dock C Loading	VOC	4.51	4.91
		H_2S	0.02	<0.01
LBDAFUG	Barge Dock A Fugitives (5)	VOC	0.21	0.79
		H_2S	0.02	<0.01
LBDBFUG	Barge Dock B Fugitives (5)	VOC	0.21	0.79
		H_2S	0.02	<0.01
LBDCFUG	Barge Dock C Fugitives (5)	VOC	0.21	0.79
		H_2S	0.02	<0.01

Emission Sources - Maximum Allowable Emission Rates

LBDDFUG	Barge Dock D Fugitives (5)	VOC	0.21	0.79
		H_2S	0.02	<0.01
LSD1FUG	Ship Dock 1 Fugitives (5)	VOC	0.21	0.79
		H_2S	0.02	<0.01
LSD2FUG	Ship Dock 2 Fugitives (5)	VOC	0.21	0.79
		H_2S	0.02	<0.01
LSD4FUG	Ship Dock 4 Fugitives (5)	VOC	0.21	0.79
		H_2S	0.02	<0.01
LSD6FUG	Ship Dock 6 Fugitives (5)	VOC	0.21	0.79
		H_2S	0.02	<0.01
LSD7FUG	Ship Dock 7 Fugitives (5)	VOC	0.21	0.79
		H_2S	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
CO - carbon monoxide
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
H_2S - hydrogen sulfide
(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) Non-inerted vessel loading emissions routed to MVCU 1 and MVCU2 are based on 100% collection.
(7) The loading of non-inerted vessels at less than 100% collection shall not occur from Loading Docks 1 and 2 once the requirements of Special Condition 3, to equip MVCU1 and MVCU2 with the ability to load under vacuum, have been satisfied.

Date: August 9, 2019