

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 94384

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)
SB-8501	Steam Boiler	NO _x	0.28	1.23
		CO	0.97	4.23
		SO ₂	0.01	0.03
		PM ₁₀ / PM _{2.5}	0.09	0.38
		VOC	0.06	0.28
SB-8502	Steam Boiler	NO _x	0.28	1.23
		CO	0.97	4.23
		SO ₂	0.01	0.03
		PM ₁₀ / PM _{2.5}	0.09	0.38
		VOC	0.06	0.28
SB-8503	Steam Boiler	NO _x	0.28	1.23
		CO	0.97	4.23
		SO ₂	0.01	0.03
		PM ₁₀ / PM _{2.5}	0.09	0.38
		VOC	0.06	0.28
SB-8504	Steam Boiler	NO _x	0.28	1.23
		CO	0.97	4.23
		SO ₂	0.01	0.03
		PM ₁₀ / PM _{2.5}	0.09	0.38
		VOC	0.06	0.28

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SB-8505	Steam Boiler	NO _x	0.28	1.23
		CO	0.97	4.23
		SO ₂	0.01	0.03
		PM ₁₀ / PM _{2.5}	0.09	0.38
		VOC	0.06	0.28
SB-8506	Steam Boiler	NO _x	0.28	1.23
		CO	0.97	4.23
		SO ₂	0.01	0.03
		PM ₁₀ / PM _{2.5}	0.09	0.38
		VOC	0.06	0.28
SB-8507	Steam Boiler	NO _x	0.28	1.23
		CO	0.97	4.23
		SO ₂	0.01	0.03
		PM ₁₀ / PM _{2.5}	0.09	0.38
		VOC	0.06	0.28
SB-8508	Steam Boiler	NO _x	0.28	1.23
		CO	0.97	4.23
		SO ₂	0.01	0.03
		PM ₁₀ / PM _{2.5}	0.09	0.38
		VOC	0.06	0.28
SB-8509	Steam Boiler	NO _x	0.28	1.23
		CO	0.97	4.23
		SO ₂	0.01	0.03
		PM ₁₀ / PM _{2.5}	0.09	0.38

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		VOC	0.06	0.28
SB-8510	Steam Boiler	NO _x	0.28	1.23
		CO	0.97	4.23
		SO ₂	0.01	0.03
		PM ₁₀ / PM _{2.5}	0.09	0.38
		VOC	0.06	0.28
SB-8511	Steam Boiler	NO _x	0.28	1.23
		CO	0.97	4.23
		SO ₂	0.01	0.03
		PM ₁₀ / PM _{2.5}	0.09	0.38
		VOC	0.06	0.28
SB-8512	Steam Boiler	NO _x	0.28	1.23
		CO	0.97	4.23
		SO ₂	0.01	0.03
		PM ₁₀ / PM _{2.5}	0.09	0.38
		VOC	0.06	0.28
SB-8501 thru SB-8512	Steam Boilers SB-8501 thru SB-8512 Combined Annual Cap (6)	NO _x		6.60
		CO		22.65
		SO ₂		0.16
		PM ₁₀ / PM _{2.5}		2.05
		VOC		1.48
VC-1	Vapor Combustor Area 1	NO _x	4.52	2.04
		CO	21.23	9.55
		SO ₂	0.04	0.02

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		PM ₁₀ / PM _{2.5}	0.52	0.24
		VOC	0.89	0.11
		H ₂ S	0.001	0.0001
VC-3	Vapor Combustor Area 1	NO _x	4.52	2.04
		CO	21.23	9.55
		SO ₂	0.04	0.02
		PM ₁₀ / PM _{2.5}	0.52	0.24
		VOC	0.89	0.11
		H ₂ S	0.001	0.0001
VC-1 and VC-3	Vapor Combustors Area 1 Combined Annual Cap (6)	NO _x		2.84
		CO		13.31
		SO ₂		0.03
		PM ₁₀ / PM _{2.5}		0.33
		VOC		0.18
		H ₂ S		0.001
VC-4	Vapor Combustor Area 3	NO _x	2.26	0.53
		CO	10.58	2.49
		SO ₂	0.02	.001
		PM ₁₀ / PM _{2.5}	0.26	0.06
		VOC	0.45	0.07
		H ₂ S	0.001	0.0001
VC-5	Vapor Combustor Area 3	NO _x	2.26	0.53
		CO	10.58	2.49
		SO ₂	0.02	0.001

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		PM ₁₀ / PM _{2.5}	0.26	0.06
		VOC	0.45	0.07
		H ₂ S	0.001 ¹	0.0001
VC-4 and VC-5	Vapor Combustors Area 3 Combined Annual Cap (6)	NO _x		0.72
		CO		3.35
		SO ₂		0.01
		PM ₁₀ / PM _{2.5}		0.08
		VOC		0.09
		H ₂ S		0.001
VC-2	Vapor Combustor Barge Dock No. 2	NO _x	4.75	6.27
		CO	22.24	29.32
		SO ₂	0.04	0.06
		PM ₁₀ / PM _{2.5}	0.55	0.73
		VOC	0.23	0.07
		H ₂ S	0.001	0.001
FWP1	Firewater Pump Engine	NO _x	3.45	0.09
		CO	3.51	0.09
		SO ₂	1.08	0.03
		PM ₁₀ / PM _{2.5}	1.16	0.03
		VOC	1.30	0.03
FWP2	Firewater Pump Engine	NO _x	3.45	0.09
		CO	3.51	0.09
		SO ₂	1.08	0.03
		PM ₁₀ / PM _{2.5}	1.16	0.03

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		VOC	1.30	0.03
FWP3	Firewater Pump Engine	NO _x	3.45	0.09
		CO	3.51	0.09
		SO ₂	1.08	0.03
		PM ₁₀ / PM _{2.5}	1.16	0.03
		VOC	1.30	0.03
FWP4	Firewater Pump Engine	NO _x	3.45	0.09
		CO	3.51	0.09
		SO ₂	1.08	0.03
		PM ₁₀ / PM _{2.5}	1.16	0.03
		VOC	1.30	0.03
GENENG1	Emergency Generator Engine	NO _x	28.22	0.73
		CO	14.75	0.38
		SO ₂	1.08	0.03
		PM ₁₀ / PM _{2.5}	1.88	0.05
		VOC	18.77	0.49
T100-7	Fuel Oil Storage Tank	VOC	4.88	1.23
		H ₂ S	0.01	0.002
T100-8	Fuel Oil Storage Tank	VOC	4.88	1.23
		H ₂ S	0.01	0.002
T100-9	Fuel Oil Storage Tank	VOC	4.88	1.23
		H ₂ S	0.01	0.002
T100-10	Fuel Oil Storage Tank	VOC	4.88	1.23
		H ₂ S	0.01	0.002

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T100-11	Fuel Oil Storage Tank	VOC	4.88	1.23
		H ₂ S	0.01	0.002
T100-12	Fuel Oil Storage Tank	VOC	4.88	1.23
		H ₂ S	0.01	0.002
T100-13	Fuel Oil Storage Tank	VOC	4.88	1.23
		H ₂ S	0.01	0.002
T100-14	Fuel Oil Storage Tank	VOC	4.88	1.23
		H ₂ S	0.01	0.002
T100-15	Fuel Oil Storage Tank	VOC	4.88	1.23
		H ₂ S	0.01	0.002
T100-16	Fuel Oil Storage Tank	VOC	4.88	1.23
		H ₂ S	0.01	0.002
T100-17	Fuel Oil Storage Tank	VOC	4.88	1.23
		H ₂ S	0.01	0.002
T100-18	Fuel Oil Storage Tank	VOC	4.88	1.23
		H ₂ S	0.01	0.002
T100-19	Fuel Oil Storage Tank	VOC	4.88	1.23
		H ₂ S	0.01	0.002
T100-20	Fuel Oil Storage Tank	VOC	4.88	1.23
		H ₂ S	0.01	0.002
T100-21	Fuel Oil Storage Tank	VOC	4.88	1.23
		H ₂ S	0.01	0.002
T100-22	Fuel Oil Storage Tank	VOC	4.88	1.23

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		H ₂ S	0.01	0.002
T100-23	Fuel Oil Storage Tank	VOC	4.88	1.23
		H ₂ S	0.01	0.002
T100-24	Fuel Oil Storage Tank	VOC	4.88	1.23
		H ₂ S	0.01	0.002
T1007 thru T100-24	Fuel Oil Storage Tanks Combined Annual Cap (6)	VOC		1.81
		H ₂ S		0.004
T200-9	Fuel Oil Storage Tank	VOC	4.88	0.68
		H ₂ S	0.01	0.001
T200-10	Fuel Oil Storage Tank	VOC	4.88	0.68
		H ₂ S	0.01	0.001
T200-11	Fuel Oil Storage Tank	VOC	4.88	0.68
		H ₂ S	0.01	0.001
T200-12	Fuel Oil Storage Tank	VOC	4.88	0.68
		H ₂ S	0.01	0.001
T200-9 thru T200-12	Fuel Oil Storage Tanks Combined Annual Caps (6)	VOC	-	0.80
		H ₂ S	-	0.002
T320-1	Fuel Oil Storage Tank	VOC	4.88	1.06
		H ₂ S	0.01	0.002
T320-2	Fuel Oil Storage Tank	VOC	4.88	1.06
		H ₂ S	0.01	0.062
T320-3	Fuel Oil Storage Tank	VOC	4.88	1.06
		H ₂ S	0.01	0.002
T320-4	Fuel Oil Storage Tank	VOC	4.88	1.06

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		H ₂ S	0.01	0.002
T320-1 thru T-320-4	Fuel Oil Storage Tanks Combined Annual Cap (6)	VOC		1.25
		H ₂ S		0.003
T400-1	Crude Oil Storage Tank	VOC	6.66	9.98
		H ₂ S	0.04	0.06
T400-2	Crude Oil Storage Tank	VOC	6.66	9.98
		H ₂ S	0.04	0.06
T400-3	Crude Oil Storage Tank	VOC	6.66	9.98
		H ₂ S	0.04	0.06
T400-1 thru T400-3	Crude Oil Storage Tanks Combined Annual Cap (6)	VOC		9.98
		H ₂ S		0.06
BRGDK-1	Barge Dock No. 1	VOC	2.13	1.39
		H ₂ S	0.004	0.003
BRGDK-2	Barge Dock No. 2	VOC	2.13	1.39
		H ₂ S	0.004	0.003
SHPDK-1	Ship Dock No. 1	VOC	2.13	1.39
		H ₂ S	0.004	0.003
BRGDK-1, BRGDK-2, SHPDK-1	Marine Docks Combined Annual Cap (6)	VOC		1.74
		H ₂ S		0.003
FUG-A1	Equipment Fugitives Area 1 (5)	VOC	0.12	0.53
		H ₂ S	0.001	0.001
FUG-A2	Equipment Fugitives Area 2 (5)	VOC	0.02	0.11
		H ₂ S	0.001	0.001

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FUG-A3	Equipment Fugitives Area 3 (5)	VOC	0.10	0.44
		H ₂ S	0.001	0.001
FUG-A6	Equipment Fugitives Area 6 (5)	VOC	0.15	0.64
		H ₂ S	0.001	0.001
FUG-BRDG1	Equipment Fugitives BRGDK1 (5)	VOC	0.01	0.06
		H ₂ S	0.001	0.001
FUG-BRDG2	Equipment Fugitives BRGDK2 (5)	VOC	0.03	0.11
		H ₂ S	0.001	0.001
FUG-SHP1	Equipment Fugitives SHPDK1 (5)	VOC	0.13	0.57
		H ₂ S	0.001	0.001
FUG-RC1	Equipment Fugitives Railcar Unloading Rack (5)	VOC	0.01	0.04
		H ₂ S	0.001	0.001
CSV-1	Wastewater Treatment Carbon Adsorption System	VOC	0.01	0.001
T-8006	Pretreated Wastewater Tank	VOC	0.07	0.19
T-8007	Pretreated Wastewater Tank	VOC	0.07	0.19
T-8006 and T-8007	Pretreated Wastewater Tank Combined Annual Cap (6)	VOC		0.19
T-8017	Pretreated Wastewater Pump Tank	VOC	0.07	0.02
PLANNED MAINTENANCE, STARTUP, AND SHUTDOWN EMISSIONS				
T400-1	IFR Landing Loss	VOC	39.18	0.94
		H ₂ S	0.25	0.01

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T400-2	IFR Landing Loss	VOC	39.18	0.94
		H ₂ S	0.25	0.01
T400-3	IFR Landing Loss	VOC	39.18	0.94
		H ₂ S	0.25	0.01
T400-1	IFR Tank Degassing	VOC	4.79	0.03
		H ₂ S	0.03	0.001
T400-2	IFR Tank Degassing	VOC	4.79	0.03
		H ₂ S	0.03	0.001
T400-3	IFR Tank Degassing	VOC	4.79	0.01
		H ₂ S	0.03	0.001
DEGAS-CD	Tank Degassing Control Devices (Flare, Thermal Oxidizer, Internal Combustion Engine, Vapor Combustor)	NO _x	17.26	0.31
		CO	34.47	0.63
		SO ₂	22.47	0.48
		PM ₁₀ / PM _{2.5}	1.16	0.02
		VOC	37.27	0.18
		H ₂ S	0.24	0.005
T100-7	Fuel Oil Tank Sparging	VOC	0.07	0.0029
		H ₂ S	0.001	0.00001
T100-8	Fuel Oil Tank Sparging	VOC	0.07	0.0029
		H ₂ S	0.001	0.00001
T100-9	Fuel Oil Tank Sparging	VOC	0.07	0.0029
		H ₂ S	0.001	0.00001
T100-10	Fuel Oil Tank Sparging	VOC	0.07	0.0029
		H ₂ S	0.001	0.00001

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T100-11	Fuel Oil Tank Sparging	VOC	0.07	0.0029
		H ₂ S	0.001	0.00001
T100-12	Fuel Oil Tank Sparging	VOC	0.07	0.0029
		H ₂ S	0.001	0.00001
T100-13	Fuel Oil Tank Sparging	VOC	0.07	0.0029
		H ₂ S	0.001	0.00001
T100-14	Fuel Oil Tank Sparging	VOC	0.07	0.0029
		H ₂ S	0.001	0.00001
T100-15	Fuel Oil Tank Sparging	VOC	0.07	0.0029
		H ₂ S	0.001	0.00001
T100-16	Fuel Oil Tank Sparging	VOC	0.07	0.0029
		H ₂ S	0.001	0.00001
T100-17	Fuel Oil Tank Sparging	VOC	0.07	0.0029
		H ₂ S	0.001	0.00001
T100-18	Fuel Oil Tank Sparging	VOC	0.07	0.0029
		H ₂ S	0.001	0.00001
T100-19	Fuel Oil Tank Sparging	VOC	0.07	0.0029
		H ₂ S	0.001	0.00001
T100-20	Fuel Oil Tank Sparging	VOC	0.07	0.0029
		H ₂ S	0.001	0.00001
T100-21	Fuel Oil Tank Sparging	VOC	0.07	0.0029
		H ₂ S	0.001	0.00001
T100-22	Fuel Oil Tank Sparging	VOC	0.07	0.0029
		H ₂ S	0.001	0.00001

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T100-23	Fuel Oil Tank Sparging	VOC	0.07	0.0029
		H ₂ S	0.001	0.00001
T100-24	Fuel Oil Tank Sparging	VOC	0.07	0.0029
		H ₂ S	0.001	0.00001
T100-7 thru T-100-24	Sparging Fuel Oil Tanks Combined Annual Cap (6)	VOC		0.006
		H ₂ S		0.0001
T200-9	Fuel Oil Tank Sparging	VOC	0.14	0.003
		H ₂ S	0.001	0.00001
T200-10	Fuel Oil Tank Sparging	VOC	0.14	0.003
		H ₂ S	0.001	0.00001
T200-11	Fuel Oil Tank Sparging	VOC	0.14	0.003
		H ₂ S	0.001	0.00001
T200-12	Fuel Oil Tank Sparging	VOC	0.14	0.003
		H ₂ S	0.001	0.00001
T200-9 thru T200-12	Sparging Fuel Oil Tanks Combined Annual Cap (6)	VOC		0.003
		H ₂ S		0.0001
T320-1	Fuel Oil Tank Sparging	VOC	0.23	0.004
		H ₂ S	0.001	0.00001
T320-2	Fuel Oil Tank Sparging	VOC	0.23	0.004
		H ₂ S	0.001	0.00001
T320-3	Fuel Oil Tank Sparging	VOC	0.23	0.004
		H ₂ S	0.001	0.00001
T320-4	Fuel Oil Tank Sparging	VOC	0.23	0.004
		H ₂ S	0.001	0.00001

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T320-1 thru T320-4	Sparging Fuel Oil Tanks	VOC		0.004
	Combined Annual Cap (6)	H ₂ S		0.0001

- (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
H₂S - hydrogen sulfide
NO_x - total oxides of nitrogen
CO - carbon monoxide
SO₂ - sulfur dioxide
PM - total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}, as represented
PM₁₀ - 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
- (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) The combined annual emissions of all associated EPNs shall not exceed the Combined Annual Cap.

Dated: September 23, 2011