

Emission Sources - Maximum Allowable Emission Rates

Permit Number 19718

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 (1)	Source Name (2)	Air Contaminant (3)	Emission Rates	
			lbs/hour	TPY (4)
62-16-38	Compressor Engine (6)	CO	3.97	
		NO _x	2.65	
		PM	0.09	
		PM ₁₀	0.09	
		PM _{2.5}	0.09	
		SO ₂	0.01	
		VOC	0.14	
62-16-38A	Compressor Engine (6)	CO	3.97	
		NO _x	2.65	
		PM	0.14	
		PM ₁₀	0.14	
		PM _{2.5}	0.14	
		SO ₂	0.01	
		VOC	0.29	
62-16-38B	Compressor Engine (6)	CO	3.97	
		NO _x	2.65	
		PM	0.18	
		PM ₁₀	0.18	
		PM _{2.5}	0.18	
		SO ₂	0.01	

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		VOC	0.29	
	Annual Emissions for EPNs 62-16-38, 62-16-38A, and 62-16-38B	CO		16.84
		NO _x		11.23
		PM		0.76
		PM ₁₀		0.76
		PM _{2.5}		0.76
		SO ₂		0.02
		VOC		0.84
62-16-39	Compressor Engine	CO	7.28	12.72
		NO _x	4.85	8.48
		PM	0.16	0.28
		PM ₁₀	0.16	0.28
		PM _{2.5}	0.16	0.28
		SO ₂	0.01	0.02
		VOC	1.82	3.18
62-32-11	Diesel Engine (6)	CO	3.61	0.18
		NO _x	16.74	0.84
		PM	1.19	0.06
		PM ₁₀	1.19	0.06
		PM _{2.5}	1.19	0.06
		SO ₂	1.11	0.06
		VOC	1.36	0.07
62-32-56	Fire Pump Engine (6)	CO	2.67	0.13
		NO _x	12.40	0.62
		PM	0.88	0.04

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		PM ₁₀	0.88	0.04
		PM _{2.5}	0.88	0.04
		SO ₂	0.82	0.04
		VOC	1.01	0.05
62-32-56A	Fire Pump Engine (6)	CO	2.67	0.13
		NO _x	12.40	0.62
		PM	0.88	0.04
		PM ₁₀	0.88	0.04
		PM _{2.5}	0.88	0.04
		SO ₂	0.82	0.04
		VOC	1.01	0.05
62-36-3	Heater F-3 (1,092 hours per year)	CO	0.90	0.33
		NO _x	0.62	0.22
		PM	0.04	0.02
		PM ₁₀	0.04	0.02
		PM _{2.5}	0.04	0.02
		SO ₂	0.01	0.01
		VOC	0.03	0.01
62-36-4	Heater F-4 (5,388 hours per year)	CO	1.05	2.26
		NO _x	1.15	2.47
		PM	0.09	0.22
		PM ₁₀	0.09	0.22
		PM _{2.5}	0.09	0.22
		SO ₂	0.01	0.02
		VOC	0.06	0.16

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62-36-8	Heater F-8 (1,500 hours per year)	CO	1.32	0.58
		NO _x	1.72	0.76
		PM	0.22	0.12
		PM ₁₀	0.22	0.12
		PM _{2.5}	0.22	0.12
		SO ₂	0.02	0.01
		VOC	0.16	0.08
62-61-3	Sour Brine Degassing Flare	VOC	7.10	4.23
		NO _x	2.95	2.97
		CO	9.34	15.79
		SO ₂	0.01	0.01
		H ₂ S	0.01	0.01
62-61-4	Sweet Brine Degassing Flare	VOC	1.80	3.11
		NO _x	6.55	2.21
		CO	26.65	11.34
		SO ₂	0.01	0.01
		H ₂ S	0.01	0.01
62-61-CT11	Brine Degassing Pit Flame System	VOC	0.18	0.19
		NO _x	0.38	0.42
		CO	2.86	3.14
		SO ₂	0.01	0.01
		H ₂ S	0.01	0.01
62-61-5	Main Flare (7)	VOC	204.07	14.54
		NO _x	28.06	4.00
		CO	55.62	8.04

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		SO ₂	0.01	0.01
		H ₂ S	0.01	0.01
62-61-5	Main Flare MSS (8)	VOC	301.52	2.87
		NO _x	87.39	0.90
		CO	175.68	1.88
		SO ₂	0.01	0.01
		H ₂ S	0.01	0.01
62-0-0	Process Fugitives (5)	VOC	5.86	25.66
62-95-CT07	Sour Brine Pond	VOC	0.13	0.10
62-95-CT08	Sour Brine Pond	VOC	0.13	0.10
62-95-CT12 and 62-95-201	Combined Storage Pond and Brine Degassing Pit Emissions	VOC	3.43	4.89
62-95-207	Sour Brine Pond Vent	VOC	0.06	0.05
62-95-208	Sour Brine Pond Vent	VOC	0.06	0.05
62-95-210	Sweet Brine Pond Vent	VOC	1.75	4.18
MSS-ATM	MSS Emissions for line and equipment degassing	VOC	700.00	6.29
PAINT	Painting (9)	VOC	8.00	4.71
		PM	16.64	12.21
		PM ₁₀	16.64	12.21
		PM _{2.5}	16.64	12.21
SDBLAST	Abrasive Blasting (9)	PM	2.86	1.30
		PM ₁₀	0.34	0.16
		PM _{2.5}	0.05	0.02

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- (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 _x	- total oxides of nitrogen
PM	- total particulate matter, suspended in the atmosphere, including PM ₁₀ and PM _{2.5}
PM ₁₀	- particulate matter equal to or less than 10 microns in diameter, including PM _{2.5}
PM _{2.5}	- particulate matter equal to or less than 2.5 microns in diameter
SO ₂	- sulfur dioxide
VOC	- volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
H ₂ S	- 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) EPNs 62-16-38, 62-16-38A, and 62-16-38B combined are limited to 8,496 operating hours per year. EPN 62-32-11, 62-36-56, and 62-36-56A are limited to 100 operating hours per year each for purposes of maintenance and testing, but will also be used as necessary in emergency service.
- (7) These emissions include those related to maintenance activities associated with cavern inspections.
- (8) These emissions include those related to maintenance activities associated with line and equipment degassing/clearing.
- (9) These emission limits cover painting and abrasive blasting activities in designated areas of the facility site. The operator intends to authorize painting and abrasive blasting activities in other areas of the facility site through permit by rule.

Date: October 11, 2017