

# 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. 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 **	
			lb/hr	TPY*
62-16-38	Compressor Engine (5)	CO	1.32	
		NO <sub>x</sub>	23.79	
		PM <sub>10</sub>	0.01	
		SO <sub>2</sub>	0.01	
		VOC	0.20	
62-16-38A	Compressor Engine (5)	CO	1.32	
		NO <sub>x</sub>	23.79	
		PM <sub>10</sub>	0.01	
		SO <sub>2</sub>	0.01	
		VOC	0.20	
62-16-38B	Compressor Engine (5)	CO	1.32	
		NO <sub>x</sub>	23.79	
		PM <sub>10</sub>	0.01	
		SO <sub>2</sub>	0.01	
		VOC	0.20	
	Total Annual Emissions for EPNs 62-16-38, 62-16-38A and 62-16-38B	CO		5.61
		NO <sub>x</sub>		101.07
		PM <sub>10</sub>		0.06
		SO <sub>2</sub>		0.01
		VOC		0.84
62-16-39	Compressor Engine	CO	7.28	12.73
		NO <sub>x</sub>	4.85	8.49
		PM <sub>10</sub>	0.03	0.05
		SO <sub>2</sub>	0.002	0.003
		VOC	1.82	3.18

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates **	
			lb/hr	TPY*
62-32-G11	Diesel Engine (5)	VOC	1.36	0.34
		NO <sub>x</sub>	16.74	4.19
		CO	3.61	0.90
		SO <sub>2</sub>	1.11	0.28
		PM <sub>10</sub>	1.19	0.30
62-36-2	Heater F-2 (1,683 hours per year)	CO	0.07	0.06
		NO <sub>x</sub>	0.32	0.27
		PM <sub>10</sub>	0.02	0.02
		SO <sub>2</sub>	<0.01	<0.01
		VOC	0.02	0.02
62-36-3	Heater F-3 (1,092 hours per year)	CO	0.07	0.04
		NO <sub>x</sub>	0.33	0.18
		PM <sub>10</sub>	0.02	0.01
		SO <sub>2</sub>	<0.01	<0.01
		VOC	0.02	0.01
62-36-4	Heater F-4 (5,388 hours per year)	CO	0.19	0.51
		NO <sub>x</sub>	0.92	2.48
		PM <sub>10</sub>	0.05	0.13
		SO <sub>2</sub>	0.01	0.03
		VOC	0.05	0.13
62-36-5	Heater F-5 (1,683 hours per year)	CO	0.07	0.06
		NO <sub>x</sub>	0.31	0.26
		PM <sub>10</sub>	0.02	0.02
		SO <sub>2</sub>	<0.01	<0.01
		VOC	0.02	0.02
62-36-8	Heater F-8	CO	1.00	4.38
		NO <sub>x</sub>	2.47	10.82
		PM <sub>10</sub>	0.13	0.57
		VOC	0.06	0.25
62-32-56	Fire Pump Engine (5)	VOC	0.63	0.03

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			lb/hr	TPY*
		NO <sub>x</sub>	7.75	0.31
		CO	1.67	0.07
		SO <sub>2</sub>	0.51	0.02
		PM <sub>10</sub>	0.55	0.02
62-32-56A	Fire Pump Engine (5)	VOC	0.63	0.03
		NO <sub>x</sub>	7.75	0.31
		CO	1.67	0.07
		SO <sub>2</sub>	0.51	0.02
		PM <sub>10</sub>	0.55	0.02
62-61-3	Sour Brine Degassing Flare	VOC	0.02	0.02
		NO <sub>x</sub>	0.35	1.51
		CO	2.96	12.89
		H <sub>2</sub> S	0.01	0.01
		SO <sub>2</sub>	0.01	0.01
62-61-4	Sweet Brine Degassing Flare	VOC	0.86	2.06
		NO <sub>x</sub>	0.57	2.04
		CO	3.41	14.00
62-61-5	Main Process Flare	CO	67.30	7.66
		NO <sub>x</sub>	33.67	3.64
		VOC	146.42	13.84
62-61-CT11	Brine Degassing Pit Flare	NO <sub>x</sub>	0.34	0.38
		CO	2.94	3.22
62-0-0	Process Fugitives (4)	VOC	3.13	13.72
62-95-CT07	Sour Brine Pond	VOC	0.13	0.10
62-95-207	Sour Brine Pond Vent	VOC	0.06	0.05
62-95-CT08	Sour Brine Pond	VOC	0.13	0.10

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates **	
			lb/hr	TPY*
62-95-208	Sour Brine Pond Vent	VOC	0.06	0.05
62-95-CT09	Sweet Brine Pond (6)	VOC	8.38	20.09
62-95-209	Sweet Brine Pond Vent (6)	VOC	1.75	4.18
62-95-CT10	Sweet Brine Pond (6)	VOC	8.38	20.09
62-95-210	Sweet Brine Pond Vent (6)	VOC	1.75	4.18
62-95-201	Brine Degassing Pit (6)	VOC	1.61	1.77
62-95-121	Methanol Storage Tank	VOC	8.03	0.09

- (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<sub>x</sub> - total oxides of nitrogen  
 PM<sub>10</sub> - particulate matter (PM) equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no particulate matter greater than 10 microns is emitted.  
 SO<sub>2</sub> - sulfur dioxide  
 VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1  
 H<sub>2</sub>S - hydrogen sulfide
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) The EPNs 62-16-38, 62-16-38A and 62-16-38B combined are limited to 8,496 operating hours per year. The EPN 62-32-G11 is limited to 500 operating hours per year. The EPN 62-32-56 is limited to 80 operating hours per year. The EPN 62-36-56A is limited to 80 operating hours per year.
- (6) These facilities are authorized by Standard Exemption/Permit by Rule and are included for reference.

\* Emission rates are based on and the facilities are limited by the following maximum operating schedule:

Hrs/day\_\_\_\_Days/week\_\_\_\_Weeks/year\_\_\_\_or Hrs/year 8,760

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Emission	Source	Air Contaminant	<u>Emission Rates **</u>	
Point No. (1)	Name (2)	Name (3)	<u>lb/hr</u>	<u>TPY*</u>

\*\* Compliance with annual emission limits is based on a rolling 12-month period.

Dated July 22, 2003