

## Emission Sources - Maximum Allowable Emission Rates

Permit Number 116072 and PSDTX1388

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)
H-1	Charge Heater 1	NO <sub>x</sub>	3.82	(6)
		CO	9.61	(6)
		VOC	0.77	(6)
		PM	1.06	(6)
		PM <sub>10</sub>	1.06	(6)
		PM <sub>2.5</sub>	1.06	(6)
		SO <sub>2</sub>	0.08	(6)
		NH <sub>3</sub>	0.58	(6)
H-2	Charge Heater 2	NO <sub>x</sub>	3.82	(6)
		CO	9.61	(6)
		VOC	0.77	(6)
		PM	1.06	(6)
		PM <sub>10</sub>	1.06	(6)
		PM <sub>2.5</sub>	1.06	(6)
		SO <sub>2</sub>	0.08	(6)
		NH <sub>3</sub>	0.58	(6)
H-1 and H-2	Charge Heater 1 and Charge Heater 2 Annual Emission Caps (6)	NO <sub>x</sub>	-	9.48
		CO	-	37.88
		VOC	-	6.06

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		PM	-	8.38
		PM <sub>10</sub>	-	8.38
		PM <sub>2.5</sub>	-	8.38
		SO <sub>2</sub>	-	0.63
		NH <sub>3</sub>	-	4.61
BL-1	Boiler 1	NO <sub>x</sub>	0.39	(7)
		CO	2.82	(7)
		VOC	0.18	(7)
		PM	0.26	(7)
		PM <sub>10</sub>	0.26	(7)
		PM <sub>2.5</sub>	0.26	(7)
		SO <sub>2</sub>	0.02	(7)
BL-2	Boiler 2	NO <sub>x</sub>	0.39	(7)
		CO	2.82	(7)
		VOC	0.18	(7)
		PM	0.26	(7)
		PM <sub>10</sub>	0.26	(7)
		PM <sub>2.5</sub>	0.26	(7)
		SO <sub>2</sub>	0.02	(7)
BL-1 and BL-2	Boiler 1 and Boiler 2 Annual Emission Cap (7)	NO <sub>x</sub>		1.69
		CO		12.37
		VOC		0.81
		PM		1.12
		PM <sub>10</sub>		1.12
		PM <sub>2.5</sub>		1.12

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		SO <sub>2</sub>		0.08
FL-1	Flare	NO <sub>x</sub>	0.29	1.15
		CO	2.12	8.43
		VOC	0.36	1.42
		SO <sub>2</sub>	<0.01	0.01
FL-MSS	Flare MSS	NO <sub>x</sub>	28.87	0.37
		CO	57.64	0.73
		VOC	178.65	2.29
		SO <sub>2</sub>	0.04	<0.01
TO-MSS	Temporary Thermal Oxidizer MSS	NO <sub>x</sub>	2.19	0.01
		CO	20.04	0.12
		VOC	1.86	0.01
		SO <sub>2</sub>	0.02	<0.01
		PM	0.27	<0.01
		PM <sub>10</sub>	0.27	<0.01
		PM <sub>2.5</sub>	0.27	<0.01
FL-MSS and TO-MSS	Annual Cap for Temporary Thermal Oxidizer and Flare MSS	NO <sub>x</sub>		0.37
		CO		0.73
		VOC		2.29
		SO <sub>2</sub>		<0.01
FUGS	Fugitives	VOC (5)	7.73	33.87
		NH <sub>3</sub> (5)	0.04	0.18
TK-101	Tank 101	VOC	6.44	2.62
TK-102	Tank 102	VOC	6.44	2.62
TK-103	Tank 103	VOC	6.44	2.62

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TK-104	Tank 104	VOC	6.44	2.62
TK-105	Tank 105	VOC	2.35	3.95
TK-106	Tank 106	VOC	1.75	1.79
TK-107	Tank 107	VOC	4.20	3.26
TK-108	Tank 108	VOC	4.20	3.26
TK-109	Tank 109	VOC	4.20	3.26
TK-110	Tank 110	VOC	3.07	2.63
TK-111	Tank 111	VOC	3.07	2.63
TK-112	Tank 112	VOC	3.07	2.63
TK-113	Tank 113	VOC	0.85	1.15
TK-114	Tank 114	VOC	0.85	1.15
TK-115	Tank 115	VOC	0.85	1.15
TK-116	Tank 116	VOC	6.38	3.48
TK-117	Tank 117	VOC	6.38	3.48
TK-118	Tank 118	VOC	6.38	3.48
TK-119	Tank 119	VOC	6.38	3.48
TK-120	Tank 120	VOC	5.43	7.33
TK-121	Tank 121	VOC	5.43	7.33
TK-3	Waste Water Tank	VOC	<0.01	0.50
TK-4	Spent Caustic Tank	VOC	<0.01	<0.01
TK-MSS	Tank MSS	NO <sub>x</sub>	2.08	0.01
		CO	19.07	0.12
		VOC	627.18	7.82
		PM	0.26	<0.01
		PM <sub>10</sub>	0.26	<0.01

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		PM <sub>2.5</sub>	0.26	<0.01
		SO <sub>2</sub>	0.02	<0.01
BRG-FUGS	Barge Loading	VOC	48.01	19.19
SHIP-FUGS	Ship Loading	VOC	208.60	294.97
MVCU	Marine Vapor Combustion Unit	NO <sub>x</sub>	39.70	26.27
		CO	57.96	38.35
		VOC	41.20	58.08
		SO <sub>2</sub>	0.17	0.11
TKLOAD-FUGS	Truck Loading	VOC	1.99	4.53
CTW	Cooling Tower	VOC	0.60	2.63
		PM	0.39	1.15
		PM <sub>10</sub>	0.17	0.50
		PM <sub>2.5</sub>	<0.01	<0.01
WWTP	Wastewater Treatment Plant	VOC	4.56	9.04

- (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) Exempt Solvent - Those carbon compounds or mixtures of carbon compounds used as solvents which have been excluded from the definition of volatile organic compound.
  - VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
  - 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
  - NH<sub>3</sub> - ammonia
- (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) Total annual emissions of all pollutants for both charge heaters, H-1 and H-2, are limited to an annual cap as indicated on the MAERT.

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- (7) Total annual emissions of all pollutants for both boilers, BL-1 and BL-2, are limited to the annual caps on the MAERT.

Date: June, 19, 2015