

## EMISSION SOURCES - CERTIFIED EMISSION RATES

Registration Number 90748

This table lists the certified emission rates and all sources of air contaminants on the applicant's property covered by this registration. The emission rates shown are those derived from information submitted as part of the registration for PBR.

## AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
ENG1 (MC3480)	145 hp Caterpillar G3306 NA engine with catalytic converter and air-fuel ratio controller (Serial #: G6XO5026)	VOC	15.91	1.98
		H <sub>2</sub> CO (included in VOC)	0.10	0.42
		NO <sub>x</sub>	0.64	2.79
		CO	1.28	5.59
		PM <sub>10</sub> /PM <sub>2.5</sub>	0.02	0.10
		SO <sub>2</sub>	<0.01	<0.01
		H <sub>2</sub> S	0.14	<0.01
ENG1	Compressor blowdowns (5)	VOC	15.49	0.16
		H <sub>2</sub> S	0.14	<0.01
HEAT	0.50 MMBtu/hr heater treater	VOC	<0.01	0.01
		NO <sub>x</sub>	0.05	0.22
		CO	0.04	0.18
		PM <sub>10</sub> /PM <sub>2.5</sub>	<0.01	0.02
		SO <sub>2</sub>	0.12	0.53
		H <sub>2</sub> S	<0.01	<0.01
TANK1	500 bbl crude oil tank	VOC	0.03	0.12
		H <sub>2</sub> S	<0.01	<0.01
TANK2	500 bbl crude oil tank	VOC	0.03	0.12
		H <sub>2</sub> S	<0.01	<0.01
TANK3	500 bbl crude oil tank	VOC	0.03	0.12
		H <sub>2</sub> S	<0.01	<0.01
TANK4	500 bbl crude oil tank	VOC	0.03	0.12
		H <sub>2</sub> S	<0.01	<0.01
PWTANK1	500 bbl produced water tank	VOC	<0.01	<0.01
		H <sub>2</sub> S	<0.01	<0.01
PWTANK2	500 bbl produced water tank	VOC	<0.01	<0.01
		H <sub>2</sub> S	<0.01	<0.01

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CL	Crude loading	VOC	20.88	1.90
		H <sub>2</sub> S	0.05	<0.01
PW LOAD	Produced water loading	VOC	0.21	0.04
		H <sub>2</sub> S	<0.01	<0.01
FLARE	Flare	VOC	0.57	2.51
		NO <sub>x</sub>	0.14	0.60
		CO	0.28	1.21
		PM <sub>10</sub> /PM <sub>2.5</sub>	<0.01	<0.01
		SO <sub>2</sub>	0.07	0.31
		H <sub>2</sub> S	<0.01	0.01
FUG	Sitewide fugitives (6)	VOC	0.98	4.29
		H <sub>2</sub> S	<0.01	0.01

Air Contaminant	Total Emission Rates	
	lbs/hr	tons per year
VOC	38.67	11.21
H <sub>2</sub> CO (included in VOC)	0.10	0.42
NO <sub>x</sub>	0.83	3.61
CO	1.60	6.98
PM <sub>10</sub> /PM <sub>2.5</sub>	0.02	0.12
SO <sub>2</sub>	0.19	0.84
H <sub>2</sub> S	0.19	0.03

- (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
- CO - carbon monoxide
- 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
- SO<sub>2</sub> - sulfur dioxide
- H<sub>2</sub>S - hydrogen sulfide
- H<sub>2</sub>CO - formaldehyde
- (4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
- (5) Compressor blowdown emissions are included in the VOC emissions for EPN ENG1.
- (6) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations. Emission values should be used for federal applicability.

Effective

March 14, 2011

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Date: \_\_\_\_\_