

# Emission Sources - Certified Emission Rates

Registration Number 98645

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

CERTIFIED SITEWIDE EMISSIONS															
EPN / Emission Source	VOC		NOx		CO		PM <sub>10</sub> /PM <sub>2.5</sub>		SO <sub>2</sub>		CH <sub>2</sub> O*		Other		
	lbs/hr	tpy	lbs/hr	tpy	lbs/hr	tpy	lbs/hr	tpy	lbs/hr	tpy	lbs/hr	tpy	lbs/hr	tpy	
ENG1 (MC1838) / 95 hp Caterpillar G3304 NA compressor engine equipped with AFR controller and NSCR catalyst (Serial Number N4F02459)	0.27	1.19	0.59	2.56	1.00	4.39	0.01	0.06	<0.01	<0.01	0.06	0.27			
ENG1 / Compressor blowdowns**	15.90	0.16													
ENG2 (MC2011) / 95 hp Caterpillar G3304 NA compressor engine equipped with AFR controller and NSCR catalyst (Serial Number N4F02862)	0.27	1.19	0.59	2.56	1.00	4.39	0.01	0.06	<0.01	<0.01	0.06	0.27			
ENG2 / Compressor blowdowns**	15.90	0.16													
HT1 / 0.50 MMBtu/hr heater treater	<0.01	0.01	0.05	0.22	0.04	0.18	<0.01	0.02	<0.01	<0.01					
HT2 / 0.50 MMBtu/hr heater treater	<0.01	0.01	0.05	0.22	0.04	0.18	<0.01	0.02	<0.01	<0.01					
TANK1 / 400 bbl crude oil tank	0.01	0.02													
TANK2 / 400 bbl crude oil tank	0.01	0.02													
TANK3 / 400 bbl crude oil tank	0.01	0.02													
TANK4 / 400 bbl crude oil tank	0.01	0.02													
TANK5 / 400 bbl crude oil tank	0.01	0.02													
TANK6 / 400 bbl crude oil tank	0.01	0.02													
TANK7 / 400 bbl produced water tank	<0.01	<0.01													
TANK8 / 400 bbl produced water tank	<0.01	<0.01													
C LOAD / Crude loading	11.14	5.75													
PW LOAD / Produced water loading	0.22	0.04													
COMB / 3.60 MMBtu/hr MRW combustor	2.30	10.07	0.35	1.53	0.29	1.27	0.03	0.13	<0.01	<0.01					
FUG / Sitewide fugitives	0.95	4.16													
TOTAL EMISSIONS (lbs/hr):	47.01		1.63		2.37		0.06		<0.01		0.12				
TOTAL EMISSIONS (TPY):		22.86		7.09		10.41		0.29		0.02		0.54			
MAXIMUM OPERATING SCHEDULE:	Hours/Day		24		Days/Week		7		Weeks/Year		52		Hours/Year		8,760

\* Formaldehyde emissions are included in the total VOC emissions.

\*\* Planned MSS emissions from compressor blowdowns for the two 95 hp Caterpillar G3304 NA compressor engines (EPNs ENG1 - MC1838 and ENG2 - MC2011) are based on 1,000 SCF per blowdown, 1 hour per blowdown, and 20 blowdowns per year for each engine. No other planned MSS emissions have been represented or reviewed.

- (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  
 CH<sub>2</sub>O - formaldehyde  
 NO<sub>x</sub> - total oxides of nitrogen  
 CO - carbon monoxide  
 SO<sub>2</sub> - sulfur dioxide  
 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
- (4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.

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- (5) 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  
Date:

October 26, 2011

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