## Emission Sources - Maximum Allowable Emission Rates

## Permit Number 80833

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)
02CRUDEFLR	Crude Flare	VOC	845.67	3.88
		NO <sub>X</sub>	55.32	0.24
		со	284.26	1.30
		SO <sub>2</sub>	2766.16	27.23
		H <sub>2</sub> S	30.07	0.29
		NH <sub>3</sub>	0.30	0.19
05REFMRFLR	Reformer Flare	voc	333.93	3.19
		NO <sub>X</sub>	28.95	0.29
		со	267.67	1.76
		SO <sub>2</sub>	1237.68	7.49
		H <sub>2</sub> S	13.46	0.08
		NH <sub>3</sub>	0.60	0.06
14NEASTFLR	North East Flare	voc	746.96	6.85
		NO <sub>X</sub>	65.62	0.70
		СО	377.53	4.56
		SO <sub>2</sub>	3899.82	33.86
		H <sub>2</sub> S	42.35	0.37
		NH <sub>3</sub>	1.40	0.20
16SOUTHFLR	South Flare	voc	3062.37	18.05
		NO <sub>X</sub>	211.29	1.45
		со	1121.05	48.17
		SO <sub>2</sub>	1695.52	14.22
		H <sub>2</sub> S	18.42	0.16
		NH <sub>3</sub>	0.30	0.38

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H <sub>2</sub> S 0.32 0.01  71TGINC No. 2 SRU Incinerator Vent	MSSFUG01	Process Equipment Uncontrolled MSS Activities	voc	24.74	1.11
Floating Roof Tank MSS, Uncontrolled   VOC   141.29   12.24     Fixed Roof Tank MSS, Uncontrolled   VOC   2.87   0.16     Other Routine Uncontrolled MSS Activities   VOC   4.36   1.12     PM			H <sub>2</sub> S	0.09	0.01
Fixed Roof Tank MSS, Uncontrolled			Amine	2.67	0.02
Other Routine Uncontrolled MSS Activities    VOC		Floating Roof Tank MSS, Uncontrolled	voc	141.29	12.24
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		Fixed Roof Tank MSS, Uncontrolled	voc	2.87	0.16
PM <sub>10</sub>   0.10   0.02     PM <sub>25</sub>   0.02   <0.01     PM <sub>25</sub>   0.03   0.01     PM <sub>25</sub>   0.32   0.01     PM <sub>25</sub>   0.32   0.01     PM <sub>25</sub>   0.18   0.02     PM <sub>25</sub>   0.19   0.05     PM <sub>25</sub>   0.09   0.01     PM <sub>25</sub>   0.03   0.03     PM <sub>10</sub>   0.03   <0.01     PM <sub>10</sub>   0.03   <0.01     PM <sub>10</sub>   0.03   <0.01     PM <sub>25</sub>   0.05   0.05     PM <sub>25</sub>   0.05   0.05     PM <sub>25</sub>   0.03   <0.01     PM <sub>25</sub>   0.05   0.05     PM <sub>25</sub>		Other Routine Uncontrolled MSS Activities	voc	4.36	1.12
PM25 0.02 <0.01 PM25 0.02 <0.01 PM25 0.02 <0.01 PM25 0.02 <0.01 PM2S 0.32 0.01 PM2S 0.32 0.01 PM2S 0.32 0.01 PM2S 0.32 0.01 PM2S 0.18 0.02 PM2S 0.18 0.05 PM2S 0.18 0.05 PM2S 0.19 0.05 PM2S 0.19 0.05 PM2S 0.09 0.01 PM2S 0.09 0.01 PM2S 0.09 0.01 PM2S 0.09 0.01 PM2S 0.00 0.37 0.03 PM2S 0.00 0.01 PM2S 0.003 <0.01 PM2S 0.003 <0.01			РМ	0.21	0.04
No. 1 SRU Incinerator Vent   SO2   340.31   5.30     H2S   0.32   0.01     TITGINC   No. 2 SRU Incinerator Vent   SO2   244.73   27.21     H2S   0.18   0.02     TANKMSSTO   Floating Roof Tank MSS, Controlled   VOC   79.90   0.07     NOx   2.00   0.50     CO   2.48   0.41     SO2   8.18   0.81     PM   0.19   0.05     PM <sub>10</sub>   0.19   0.05     PM <sub>25</sub>   0.19   0.05     H2S   0.09   0.01     VACTRKS   Vacuum Trucks   VOC   6.06   1.74     NOx   0.45   0.04     CO   0.37   0.03     SO2   0.06   0.01     PM   0.03   <0.01     PM <sub>10</sub>   0.03   <0.01     PM <sub>25</sub>   0.05   0.01     PM <sub>25</sub>   0.05   0.01     PM <sub>25</sub>   0.05   0.01     PM <sub>25</sub>   0.05   0.05			PM <sub>10</sub>	0.10	0.02
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$			PM <sub>2.5</sub>	0.02	<0.01
No. 2 SRU Incinerator Vent   SO2	69TGINC	No. 1 SRU Incinerator Vent	SO <sub>2</sub>	340.31	5.30
H₂S 0.18 0.02  TANKMSSTO Floating Roof Tank MSS, Controlled VOC 79.90 0.07  NOx 2.00 0.50  CO 2.48 0.41  SO₂ 8.18 0.81  PM 0.19 0.05  PM₁₀ 0.19 0.05  PM₂S 0.19 0.05  PM₂S 0.09 0.01  VACTRKS Vacuum Trucks VOC 6.06 1.74  NOx 0.45 0.04  CO 0.37 0.03  SO₂ 0.06 0.01  PM 0.03 <0.01  PM₁₀ 0.03 <0.01  PM₂S 0.09 0.01			H <sub>2</sub> S	0.32	0.01
TANKMSSTO Floating Roof Tank MSS, Controlled    VOC	71TGINC	No. 2 SRU Incinerator Vent	SO <sub>2</sub>	244.73	27.21
VACTRKS  Vacuum Trucks  Vacuum Trucks  Vacuum Trucks  VOC 6.06 1.74  NOx 0.45 0.04  CO 0.37 0.03  SO2 0.01  PM 0.03 <0.01  PM <sub>2.5</sub> 0.09  O.05  PM <sub>10</sub> 0.05  PM <sub>2.5</sub> 0.09  O.01  VACTRKS  O.03 <0.01  PM 0.03 <0.01  PM <sub>2.5</sub> 0.03 <0.01			H <sub>2</sub> S	0.18	0.02
VACTRKS Vacuum Trucks $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	TANKMSSTO	Floating Roof Tank MSS, Controlled	voc	79.90	0.07
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			NO <sub>X</sub>	2.00	0.50
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			со	2.48	0.41
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			SO <sub>2</sub>	8.18	0.81
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			PM	0.19	0.05
VACTRKS Vacuum Trucks			PM <sub>10</sub>	0.19	0.05
VACTRKS  Vacuum Trucks  VOC  6.06  1.74  NOx  0.45  CO  0.37  0.03  SO <sub>2</sub> 0.06  0.01  PM  0.03  <0.01  PM <sub>10</sub> 0.03  <0.01  PM <sub>2.5</sub> 0.03  <0.01			PM <sub>2.5</sub>	0.19	0.05
NO <sub>x</sub> 0.45 0.04  CO 0.37 0.03  SO <sub>2</sub> 0.06 0.01  PM 0.03 <0.01  PM <sub>10</sub> 0.03 <0.01  PM <sub>2.5</sub> 0.03 <0.01			H <sub>2</sub> S	0.09	0.01
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	VACTRKS	Vacuum Trucks	voc	6.06	1.74
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			NO <sub>X</sub>	0.45	0.04
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			СО	0.37	0.03
PM <sub>10</sub> 0.03 <0.01 PM <sub>2.5</sub> 0.03 <0.01			SO <sub>2</sub>	0.06	0.01
PM <sub>2.5</sub> 0.03 <0.01			PM	0.03	<0.01
			PM <sub>10</sub>	0.03	<0.01
FRACTNKS Frac Tanks VOC 0.84 0.81			PM <sub>2.5</sub>	0.03	<0.01
	FRACTNKS	Frac Tanks	voc	0.84	0.81

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## Emission Sources - Maximum Allowable Emission Rates

(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

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

H₂S - hydrogen sulfide

(4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.

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