Permit Number 18295 & PSDTX1466

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)		Air Contaminant Name (3)	Emission	Rates
		Name (3)	lbs/hour	TPY (4)
SPR901	Vapor Combustor No. 1 — Barge	VOC	5.34	_
	Loading	NO _x	21.28	_
		СО	46.26	_
		SO ₂	75.76	_
		PM	1.19	_
		PM ₁₀	1.19	_
		PM2.5	1.19	_
		H ₂ S	0.04	_
SPR901	Vapor Combustor No. 1 — Ship Loading	VOC	2.13	_
		NO _x	13.07	_
		СО	28.40	_
		SO ₂	40.47	_
		PM	0.72	_
		PM ₁₀	0.72	_
		PM2.5	0.72	_
		H ₂ S	0.02	_
SPR902	Vapor Combustor No. 2 — Barge Loading	VOC	5.34	_
	Loading	NO _x	21.28	_
		СО	46.26	_
		SO ₂	75.76	_
		PM	1.19	_
		PM10	1.19	_
		PM2.5	1.19	_
		H ₂ S	0.04	_

SPR902	Vapor Combustor No. 2 — Ship	VOC	2.13	_
	Loading	NO _x	13.07	_
		СО	28.40	_
		SO ₂	40.47	_
		РМ	0.72	_
		PM10	0.72	_
		PM2.5	0.72	_
		H ₂ S	0.02	_
SPRVCU3	Vapor Combustor No. 3 — Barge Loading	VOC	5.34	_
	Loaumg	NO _x	9.25	_
		СО	46.26	_
		SO ₂	75.76	_
		РМ	1.19	_
		PM10	1.19	_
		PM2.5	1.19	_
		H ₂ S	0.04	_
SPRVCU3	Vapor Combustor No. 3 — Ship Loading	VOC	2.13	_
	Loading	NO _x	5.68	_
		СО	28.40	_
		РМ	0.72	_
		PM ₁₀	0.72	_
		PM2.5	0.72	_
		SO ₂	40.47	_
		H ₂ S	0.02	_

SPRVCU4	Vapor Combustor No. 4 — Barge	VOC	5.34	_
	Loading	NO _x	9.25	
		СО	46.26	_
		PM	1.19	_
		PM ₁₀	1.19	_
		PM2.5	1.19	_
		SO ₂	75.76	_
		H ₂ S	0.04	_
SPRVCU4	Vapor Combustor No. 4 — Ship Loading	VOC	2.13	_
	Loading	NO _x	5.68	_
		СО	28.40	_
		РМ	0.72	_
		PM10	0.72	_
		PM2.5	0.72	_
		SO ₂	40.47	_
		H₂S	0.02	_
SPRVCU5	Vapor Combustor No. 5 — Barge Loading	VOC	4.11	_
	Loading	NOx	7.12	_
		СО	35.58	_
		SO ₂	75.71	_
		РМ	0.91	_
		PM ₁₀	0.91	_
		PM2.5	0.91	_
		H ₂ S	0.04	_

SPRVCU5	Vapor Combustor No. 5 — Ship	VOC	1.64	_
	Loading	NO _x	4.37	_
		СО	21.85	_
		РМ	0.55	_
		PM10	0.55	_
		PM2.5	0.55	_
		SO ₂	40.42	_
		H ₂ S	0.02	_
SPRVCU6	Vapor Combustor No. 6 — Barge Loading	VOC	4.11	_
	Loading	NOx	7.12	_
		СО	35.58	_
		SO ₂	75.71	_
		РМ	0.91	_
		PM10	0.91	_
		PM2.5	0.91	_
		H ₂ S	0.04	_
SPRVCU6	Vapor Combustor No. 6 — Ship Loading	VOC	1.64	_
	Loading	NO _x	4.37	_
		СО	21.85	_
		РМ	0.55	_
		PM10	0.55	_
		PM2.5	0.55	_
		SO ₂	40.42	_
		H ₂ S	0.02	_

SPRVCU7	Vapor Combustor No. 7 — Barge	VOC	4.11	_
	Loading	NOx	7.12	_
		СО	35.58	_
		SO ₂	75.71	_
		PM	0.91	_
		PM ₁₀	0.91	_
		PM2.5	0.91	_
		H ₂ S	0.04	_
SPRVCU7	Vapor Combustor No. 7 — Ship Loading	VOC	1.64	_
	Loading	NO _x	4.37	_
		СО	21.85	_
		РМ	0.55	_
		PM10	0.55	_
		PM2.5	0.55	_
		SO ₂	40.42	_
		H₂S	0.02	_
SPRVCU8	Vapor Combustor No. 8 — Barge Loading	VOC	4.11	_
	Loading	NOx	7.12	_
		СО	35.58	_
		SO ₂	75.71	_
		РМ	0.91	_
		PM ₁₀	0.91	_
		PM2.5	0.91	_
		H ₂ S	0.04	_

SPRVCU8	Vapor Combustor No. 8 — Ship	VOC	1.64	_
	Loading	NO_X	4.37	_
		СО	21.85	_
		PM	0.55	_
		PM ₁₀	0.55	_
		PM _{2.5}	0.55	_
		SO ₂	40.42	_
		H ₂ S	0.02	_
SPRVCU9	Vapor Combustor No. 9 — Barge	VOC	5.01	_
	Loading	NO_X	21.59	_
		СО	46.94	_
		PM	0.76	_
		PM ₁₀	0.76	_
		PM _{2.5}	0.76	_
		SO ₂	75.80	_
		H₂S	0.04	_
SPRVCU9	Vapor Combustor No. 9 — Ship	VOC	2.00	_
	Loading	NO_X	13.89	_
		CO	30.20	
		PM	0.76	
		PM ₁₀	0.76	
		PM _{2.5}	0.76	_
		SO ₂	60.62	_
		H₂S	0.03	_
SPRVCU10	Vapor Combustor No. 10 — Barge	VOC	5.01	_
	Loading	NO_X	21.59	
		СО	46.94	_
		PM	0.76	_
		PM10	0.76	_

		1		
		PM _{2.5}	0.76	_
		SO ₂	75.80	_
		H ₂ S	0.04	_
SPRVCU10	Vapor Combustor No. 10 — Ship	VOC	2.00	_
	Thanill	NO _x	13.89	_
		СО	30.20	_
		PM	0.76 —	_
		PM ₁₀	0.76	_
		PM2.5	0.76	_
		SO ₂	60.62	_
		H ₂ S	0.03	_
Combined VCU	Combined VCUs (includes EPNs SPR901 SPR902 SPRVCU3	VOC	_	23.34
	SPRAIN SPRAIN	NOx	_	48.42
		СО	_	182.06
		SO ₂	_	35.53
		PM	_	4.71
		PM ₁₀	_	4.71
		PM2.5	_	4.71
		H ₂ S	_	0.02
Flare	Rail and Truck Loading Flare	VOC	8.53	28.97
		NOx	1.15	3.65
		СО	2.29	7.30
		SO ₂	0.70	0.76
		H ₂ S	0.01	0.01
ML255B	Uncontrolled Barge Loading Fugitives	VOC	218.67	66.72
ML255A	Uncontrolled Ship Loading Fugitives	VOC	87.47	46.68
UML-CAP	Uncontrolled Marine Loading Fugitives	VOC	_	113.40
UML-NDLM	Uncontrolled Marine Loading —	VOC	_	77.21
UML-DLM	Products other than Diesel-Like Uncontrolled Marine Loading — Diesel-Like Materials	voc	_	36.19

RRL02	Uncaptured Railcar loading	VOC	1.40	0.86
TRL02	Uncaptured Truck loading	VOC	1.12	2.19
86	Tank 86	VOC	2.06	1.51
103	Tank 103	VOC	5.71	3.39
		H ₂ S	0.02	0.07
104	Tank 104	VOC	5.74	3.47
		H ₂ S	0.02	0.08
110	Tank 110	VOC	1.80	2.40
112	Tank 112	VOC	2.44	1.43
115	Tank 115	VOC	6.13	2.81
		H ₂ S	0.02	0.07
116	Tank 116	VOC	3.89	4.44
		H ₂ S	0.01	0.04
117	Tank 117	VOC	3.50	2.07
		H ₂ S	<0.01	0.01
118	Tank 118	VOC	3.89	4.43
		H ₂ S	0.01	0.04
119	Tank 119	VOC	3.58	4.83
		H ₂ S	0.01	0.04
120	Tank 120	VOC	5.13	4.04
		H ₂ S	0.03	0.09
121	Tank 121	VOC	5.13	4.05
		H ₂ S	0.03	0.09
122	Tank 122	VOC	4.61	4.95
		H ₂ S	0.03	0.11
123	Tank 123	VOC	4.60	4.74
		H ₂ S	0.03	0.10
124	Tank 124	VOC	4.60	4.75
		H ₂ S	0.03	0.10

125	Tank 125	VOC	4.60	4.74
		H ₂ S	0.03	0.10
126	Tank 126	VOC	4.61	4.78
		H ₂ S	0.03	0.10
127	Tank 127	VOC	6.47	2.98
		H ₂ S	0.02	0.07
128	Tank 128	VOC	8.50	2.36
		H ₂ S	0.01	0.02
129	Tank 129	VOC	8.50	2.38
		H ₂ S	0.01	0.02
130	Tank 130	VOC	8.50	2.36
		H ₂ S	0.01	0.02
133	Tank 133	VOC	4.45	5.18
		H ₂ S	0.04	0.12
134	Tank 134	VOC	4.45	5.18
		H ₂ S	0.04	0.12
135	Tank 135	VOC	4.45	5.18
		H ₂ S	0.04	0.12
136	Tank 136	VOC	4.45	5.18
		H ₂ S	0.04	0.12
137	Tank 137	VOC	4.45	5.18
		H ₂ S	0.04	0.12
166	Tank 166	VOC	1.99	3.61
167	Tank 167	VOC	2.99	5.27
		H ₂ S	<0.01	0.03
168	Tank 168	VOC	12.26	2.36
169	Tank 169	VOC	2.30	5.34
203	Tank 203	VOC	7.92	2.46
		H ₂ S	0.02	0.06

207	Tank 207	VOC	1.92	1.89
210	Tank 210	VOC	3.63	7.27
213	Tank 213	VOC	5.32	9.58
		H ₂ S	0.03	0.08
214	Tank 214	VOC	3.66	7.27
215	Tank 215	VOC	3.68	7.32
216	Tank 216	VOC	11.74	29.90
218	Tank 218	VOC	4.06	4.91
219	Tank 219	VOC	3.83	8.43
220	Tank 220	VOC	3.76	5.89
221	Tank 221	VOC	5.37	8.90
222	Tank 222	VOC	12.26	2.78
223	Tank 223	VOC	6.14	3.24
		H ₂ S	0.02	0.07
224	Tank 224	VOC	6.15	3.27
		H ₂ S	0.02	0.07
225	Tank 225	VOC	12.26	1.90
227	Tank 227	VOC	12.26	2.01
228	Tank 228	VOC	0.79	0.76
229	Tank 229	VOC	12.26	2.81
230	Tank 230	VOC	2.58	5.10
233	Tank 233	VOC	6.70	13.72
234	Tank 234	VOC	6.79	13.96
235	Tank 235	VOC	1.44	1.03
		H ₂ S	<0.01	<0.01
236	Tank 236	VOC	6.79	14.10
238	Tank 238	VOC	3.66	6.83
239	Tank 239	VOC	2.10	1.50
254	Tank 254	VOC	6.13	0.68

255	Tank 255	VOC	6.25	11.36
256	Tank 256	VOC	6.13	0.54
257	Tank 257	VOC	6.13	1.13
258	Tank 258	VOC	6.13	1.13
259	Tank 259	VOC	6.13	1.13
263	Tank 263	VOC	2.03	1.04
270	Tank 270	VOC	3.63	6.74
290	Tank 290	VOC	1.12	0.82
291	Tank 291	VOC	1.12	0.82
300	Methanol Tank No. 1	VOC	2.19	1.19
301	Methanol Tank No. 2	VOC	2.19	1.19
302	Methanol Tank No. 3	VOC	2.19	1.19
396	Tank 396	VOC	13.83	3.61
		H ₂ S	0.04	0.10
397	Tank 397	VOC	13.83	3.61
		H ₂ S	0.04	0.10
475	Tank 475	VOC	12.26	1.84
476	Tank 476	VOC	12.26	1.89
824	Tank 824	VOC	2.21	1.14
		H ₂ S	0.01	0.01
825	Tank 825	VOC	8.18	2.40
		H ₂ S	0.02	0.05
TKCAP CO&G	VOC Cap for Tanks COTK1 to 23, and GTK1 to 13 (6)	VOC	_	176.79
COTK1	Crude Oil Tank 1	VOC	6.06	_
		H ₂ S	0.04	0.12
СОТК2	Crude Oil Tank 2	VOC	6.06	_
		H ₂ S	0.04	0.12
СОТК3	Crude Oil Tank 3	voc	6.06	_
		H ₂ S	0.04	0.12

СОТК4	Crude Oil Tank 4	VOC	6.06	_
		H ₂ S	0.04	0.12
COTK5	Crude Oil Tank 5	VOC	6.06	_
		H ₂ S	0.04	0.12
СОТК6	Crude Oil Tank 6	VOC	6.06	_
		H ₂ S	0.04	0.12
СОТК7	Crude Oil Tank 7	VOC	6.06	_
		H ₂ S	0.04	0.12
СОТК8	Crude Oil Tank 8	VOC	6.06	_
		H ₂ S	0.04	0.12
СОТК9	Crude Oil Tank 9	VOC	6.06	_
		H ₂ S	0.04	0.12
COTK10	Crude Oil Tank 10	VOC	6.06	_
		H ₂ S	0.04	0.12
COTK11	Crude Oil Tank 11	VOC	6.06	_
		H ₂ S	0.04	0.12
COTK12	Crude Oil Tank	VOC	6.06	_
		H ₂ S	0.04	0.12
COTK13	Crude Oil Tank	VOC	6.06	_
		H ₂ S	0.04	0.12
COTK14	New Crude Oil Tank	VOC	6.06	_
		H ₂ S	0.04	0.12
COTK15	New Crude Oil Tank	VOC	6.06	_
		H ₂ S	0.04	0.12
COTK16	New Crude Oil Tank	VOC	6.06	_
		H ₂ S	0.04	0.12
COTK17	New Crude Oil Tank	VOC	6.06	<u> </u>
		H ₂ S	0.04	0.12
COTK18	New Crude Oil Tank	VOC	6.06	_

		H ₂ S	0.04	0.12
COTK19	New Crude Oil Tank	VOC	6.06	_
		H ₂ S	0.04	0.12
СОТК20	New Crude Oil Tank	VOC	6.06	_
		H ₂ S	0.04	0.12
COTK21	New Crude Oil Tank	VOC	6.06	_
		H ₂ S	0.04	0.12
COTK22	New Crude Oil Tank	VOC	6.06	_
		H ₂ S	0.04	0.12
COTK23	New Crude Oil Tank	VOC	6.06	_
		H ₂ S	0.04	0.12
DSLFUEL1	Diesel Tank	VOC	0.11	< 0.01
GASFUEL1	Gasoline Tank	VOC	0.32	0.01
GTK1	Gasoline Tank 1	VOC	3.16	_
GTK2	Gasoline Tank 2	VOC	3.16	_
GTK3	Gasoline Tank 3	VOC	3.16	_
GTK4	Gasoline Tank 4	VOC	3.16	_
GTK5	Gasoline Tank 5	VOC	3.16	_
GTK6	Gasoline Tank 6	VOC	3.16	_
GTK7	Gasoline Tank 7	VOC	3.16	_
GTK8	Gasoline Tank 8	VOC	3.16	_
GTK9	Gasoline Tank 9	VOC	3.16	_
GTK10	Gasoline Tank 10	VOC	3.16	_
GTK11	Gasoline Tank 11	VOC	3.16	_
GTK12	Gasoline Tank 12	VOC	3.16	_
GTK13	Gasoline Tank 13	VOC	3.16	_
DTK1	Distillate Tank 1	voc	1.12	0.82
DTK2	Distillate Tank 2	VOC	1.12	0.82
DTK3	Distillate Tank 3	VOC	1.12	0.82

DTK4	Distillate Tank 4	voc	1.12	0.82
DTK5	Distillate Tank 5	VOC	1.12	0.82
DTK6	Distillate Tank 6	VOC	1.12	0.82
DTK7	Distillate Tank 7	VOC	1.12	0.82
TRANSMIX	Transmix Tank	VOC	3.12	3.14
Combined TANKMSS	Combined New Tank Cleaning	VOC	4.50	0.43
		NO _X	5.02	0.51
		СО	23.07	2.33
		H ₂ S	0.01	< 0.01
		SO ₂	9.32	2.06
		PM	0.63	0.06
		PM ₁₀	0.63	0.06
		PM _{2.5}	0.63	0.06
SEP01	Oil/water Separator No. 1	VOC	0.10	0.42
CAT1	Caterpillar Engine #1	VOC	0.47	0.02
		NOx	15.84	0.79
		СО	3.63	0.18
		SO ₂	0.01	<0.01
		PM	0.46	0.02
		PM10	0.46	0.02
		PM2.5	0.46	0.02
CAT2	Caterpillar Engine #2	VOC	1.51	0.08
		NOx	18.60	0.93
		СО	4.01	0.20
		SO ₂	1.23	0.06
		PM	1.32	0.07
		PM ₁₀	1.32	0.07
		PM2.5	1.32	0.07

(似)唇mission point ide (2) Specific point sou	wification neither specific equipment de ce name. For fugitive sources, use area	si ള്ള tion or emission po name or fugitive source	int numberூற்றm plot pl name.	an. <0.01
(3) VOC NOx	volatile organic compounds as define total oxides of nitrogen	գկլ _{ըx} Title 30 Texas Adm	inistrative)Ģqde § 101.	1 0.04
SO ₂ PM	- sulfur dioxide - total particulate matter, suspended in			
PM ₁₀	- total particulate matter equal to or les	ട്ട ന മന 10 microns in dia	meter, in dusing PM _{2.5} ,	as <0.01
PM _{2.5}	- particulate matter equal to or less that carbon monoxide	⊪№5 microns in diamet	er 0.05	<0.01
H₂S	- hydrogen sulfide annual emission limits (tons per year) is l	PM ₁₀	0.05	<0.01
(5) Emission rate is a	n estimate and is enforceable through co	mMatance with the applic	able speଔଶ5condition(s) and<0.01
permit application (b) Refer to Attachme	representations. nt୍ୟ ଓଡ଼ିଶ୍ୟ କିଥି ଅନୁରୁଷ୍ଟି Conditions for specif	¿∕₽₽Ns.	0.05	<0.01
		NOx	Date: 0.58August 16	, 2019 ^{0.03}
		СО	0.12	0.01
		SO ₂	0.04	<0.01
		РМ	0.04	<0.01
		PM ₁₀	0.04	<0.01
		PM2.5	0.04	<0.01
PERK1	Perkins Engine	VOC	0.19	0.01
		NOx	2.33	0.12
		СО	0.50	0.03
		SO ₂	0.15	0.01
		PM	0.17	0.01
		PM ₁₀	0.17	0.01
		PM2.5	0.17	0.01
SLFUG	Uncaptured Ship Loading Fugitives	VOC	11.01	14.53
		H ₂ S	0.05	0.02
PIPEFUG	Emissions Cap for Piping Fugitives (5)	VOC	5.55	24.32
		H2S	0.03	0.18

Permit Number GHGPSDTX139

This table lists the maximum allowable emission rates of greenhouse gas (GHG) emissions, as defined in Title 30 Texas Administrative Code § 101.1, for all sources of GHG air contaminants on the applicant's property that are authorized 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 authorized by this permit.

Air Contaminants Data

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates
		(0)	TPY (4)
FLARE	Flare	CO ₂ (5)	4,321.22
		CH ₄ (5)	0.17
		N ₂ O (5)	0.03
		CO₂e	4,335.75
Combined VCU	Combined VCUs (includes EPNs	CO ₂ (5)	116,076.48
	SPR901, SPR902, SPRVCU3, SPRVCU4, SPRVCU5, SPRVCU6,	CH ₄ (5)	4.33
	SPRVCU7, SPRVCU8, SPRVCU9, SPRVCU10)	N ₂ O (5)	0.84
	,	CO₂e	116,434.00
TANKMSS	TANKMSS New Tank Cleaning	CO ₂ (5)	1,376.90
		CH ₄ (5)	0.05
		N ₂ O (5)	0.01
		CO₂e	1,381.51
CAT1	Caterpillar Engine	CO ₂ (5)	37.67
		CH ₄ (5)	<0.01
		N ₂ O (5)	<0.01
		CO₂e	37.80
CAT2	Caterpillar Engine #2	CO ₂ (5)	34.25
		CH ₄ (5)	<0.01
		N ₂ O (5)	<0.01
		CO ₂ e	34.36

KUB1 Kubota Engine #1		CO ₂ (5)	1.42
		CH ₄ (5)	<0.01
		N ₂ O (5)	<0.01
		CO ₂ e	1.42
KUB3	Kubota Engine #3	CO ₂ (5)	1.06
		CH ₄ (5)	<0.01
		N ₂ O (5)	<0.01
		CO ₂ e	1.07
PERK1	Perkins Engine	CO ₂ (5)	4.28
		CH ₄ (5)	<0.01
		N ₂ O (5)	<0.01
		CO₂e	4.30

(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.

 $\begin{array}{cccc} \text{(3)} & \text{CO}_2 & - & \text{carbon dioxide} \\ & \text{N}_2\text{O} & - & \text{nitrous oxide} \\ & \text{CH}_4 & - & \text{methane} \\ \end{array}$

CO₂e - carbon dioxide equivalents based on the following Global Warming Potentials (1/2015):

CO₂ (1), N₂O (298), CH₄(25), SF₆ (22,800), HFC (various), PFC (various)

(4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period. These rates include emissions from maintenance, startup, and shutdown.

(5) Emission rate is given for informational purposes only and does not constitute enforceable limit.

Date:	August 16, 2019

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