#### EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

### 20686

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. Any proposed increase in emission rates may require an application for a modification of the facilities covered by this permit.

Emission Point No. (1)	Source Name (2)	Air Contaminant <u>Emis</u> Name (3) lb/hr	sion Rates* TPY_		
SECOLATS05		Tank 174	CA	0.003	0.008
HECUIIP02		Process Heater	CO NOx PM10 SOx VOC	0.12 0.31 0.03 <0.01 0.04	0.38 0.95 0.09 0.02 0.11
HECUIIP03		Process Heater	CO NOx PM10 SOx VOC	0.02 0.07 <0.01 <0.01 <0.01	0.04 0.21 0.01 <0.01 0.01
FUCUIITU01		Truck Unloading	CA	<0.01	<0.01
FECUIIP04		Flare	CO H2S NOx PM10 SOx VOC Cresols CA	0.32 <0.01 1.28 0.05 0.40 0.11 0.05 0.02	1.00 <0.01 4.00 0.14 0.86 0.35 0.15 0.05
FUCUIIP01		Process Fugitives (4)	CA	0.04	0.16
FUCUIIS01		Process Fugitives (4)	CA	0.04	0.11
FU1DU01		Process Fugitives (4)  No. 1 Distillation Unit	Cresols	0.35	1.39
FU2BOIL01		Process Fugitives (4)	Cresols	<0.01	<0.01

No. 2 Boiler Area

CA

< 0.01

< 0.01

Emission Point No. (1)	Source Air Name (2)	Contaminant Name (3)	Emission R lb/hr TP)			
FU4BOLS01		s Fugitives (4) Boiler System	(5)	Cresols CA VOC	<0.01 <0.01 0.05	0.02 0.01 <0.01
				Cresols	<0.01	0.01
				CA VOC	<0.01 <0.01	0.01 <0.01
FUBAYOU01		Fugitives (4) Tank Farm	(5)	Cresols CA VOC Cresols CA VOC	0.08 0.09 0.19 0.04 0.05 0.01	0.31 0.37 0.10 0.17 0.20 <0.01
FUC09DU01	Process	Fugitives (4)		Cresols	0.03	0.09
	C-9 Di	stillation Unit		CA	0.38	1.38
FUC21DU01	Process	s Fugitives (4)		Cresols	0.22	0.82
	C-21 [	Distillation Unit		CA	0.16	0.60
FUC25DU01	Process	s Fugitives (4)		Cresols	0.22	0.93
	C-25 [	Distillation Unit		CA	0.11	0.44
FUC27DU01	Process	s Fugitives (4)		VOC	0.36	1.57
	C-27 [	Distillation Unit				
FUC33DU01	Process	s Fugitives (4)		Cresols	0.04	0.16
	C-33 [	Distillation Unit		CA	0.31	1.19
FUCAS1201	Process	Fugitives (4)		VOC	0.05	0.22

FUCA C1 CO1	Draces Funitives (4)	Croosle	0.00	0.10
FUCAS1601	Process Fugitives (4)	Cresols	0.03	0.13
	CA Storage Area 16	CA	0.05	0.22
FUCAS1701	Process Fugitives (4)	Cresols	0.05	0.21
	CA Storage Area 17	CA	0.02	0.09
FUCAS19B01	Process Fugitives (4)	Cresols	0.06	0.24
	CA Storage Area 19B	CA	0.22	0.96
FUCAS33B01	Process Fugitives (4)	Cresols	0.16	0.70
	CA Storage Area 33B	CA	0.10	0.41
		AIR CONT	FAMINANTS DAT	ГА
Emission	Source Air Contaminant Emission		TAMINANTS DAT	ΓΑ
Emission Point No. (1)	Source Air Contaminant <u>Emission</u> Name (2) Name (3) lb/hr TF		FAMINANTS DAT	ΓΑ
		Rates*	TAMINANTS DAT 0.03	ΓA 0.11
Point No. (1)	Name (2) Name (3) lb/hr TF	Rates* Pγ		
Point No. (1)	Name (2) Name (3) Ib/hr TF  Process Fugitives (4)	Rates* PY Cresols	0.03	0.11
Point No. (1) FUCAS33D01	Name (2) Name (3) Ib/hr TF  Process Fugitives (4)  CA Storage Area 33D	Rates* PY Cresols CA	0.03 0.12	0.11 0.53
Point No. (1) FUCAS33D01	Name (2) Name (3) Ib/hr TF  Process Fugitives (4)  CA Storage Area 33D  Process Fugitives (4)	Rates*  PY  Cresols  CA  Cresols	0.03 0.12 0.05	0.11 0.53 0.21
Point No. (1)  FUCAS33D01  FUCAS33E01	Name (2) Name (3) Ib/hr TF  Process Fugitives (4)  CA Storage Area 33D  Process Fugitives (4)  CA Storage Area 33E	Rates* PY Cresols CA Cresols CA	0.03 0.12 0.05 0.03	0.11 0.53 0.21 0.13
Point No. (1)  FUCAS33D01  FUCAS33E01	Name (2) Name (3) Ib/hr TF  Process Fugitives (4)  CA Storage Area 33D  Process Fugitives (4)  CA Storage Area 33E  Process Fugitives (4)	Rates*  Cresols  CA  Cresols  CA  Cresols  CA  Cresols	0.03 0.12 0.05 0.03	0.11 0.53 0.21 0.13

CA Storage Area 12

FUCLUPU01	Process Fugitives (4)	Cresols	0.10	0.21
	Clean up Unit	CA	0.07	0.14
FUC02SU01	Process Fugitives (4)	Cresols	0.16	0.67
	CO2 Springing Unit	CA	0.15	0.64
FUCOLATS01	Process Fugitives (4) (5)	Cresols	<0.01	<0.01
	Carbolate Storage	CA VOC	<0.01 0.11	<0.01 0.31
		Cresols	<0.01	<0.01
		CA VOC	<0.01 <0.01	<0.01 <0.01
FUCRAS601	Process Fugitives (4)	VOC	0.14	0.63
	Crude Acid Storage Area 6			
FUCRAS801	Process Fugitives (4)	VOC	0.05	0.21
	Crude Acid Storage Area 8			
FUCRAS19A01	Process Fugitives (4)	Cresols	0.02	0.10
	Crude Acid Storage	CA	0.02	0.09
	Area 3			
FUCRUDU01	Process Fugitives (4)	VOC	0.53	2.33
	Crude Unit			

Emission Point No. (1)	Source Air Contaminant <u>Emissi</u> Name (2) Name (3) lb/hr	on Rates* TPY		
FUCSNPS01	Process Fugitives (4) (5)	Cresols	0.02	<0.01
	Caustic/Nap Oil Storage	CA VOC	0.01 0.58	<0.01 0.04
		Cresols	<0.01	<0.01
		CA VOC	<0.01 0.04	<0.01 <0.01
FUDRUM01	Process Fugitives (4)	Cresols	0.02	0.01
	Drumming Building	CA	0.02	0.01
FUEVAP01	Process Fugitives (4)	Cresols	<0.01	0.04
	Evaporators	CA VOC	<0.01 0.16	<0.01 0.46
FUEVFL01	Process Fugitives (4)	Cresols	<0.01	<0.01
	Evaporator Flare	CA	<0.01	<0.01
		VOC	0.03	0.08
FUIEXU01	Process Fugitives (4)	VOC	0.33	1.46
	Ion Exchange Units			
FULAB01	Process Fugitives (4)	Cresols	<0.01	0.03
	Lab Sump	CA	<0.01	0.03

FUMPTU01		Process Fugitives (4)	Cresols	0.08	0.30
		MPT Unit	CA	<0.01	<0.01
FUNBEX01		Process Fugitives (4) (5) N-Base Extraction	Cresols CA VOC	0.04 0.03 1.19	0.11 0.07 3.42
			Cresols	<0.01	0.01
			CA VOC	<0.01 0.15	<0.01 0.43
FUOXRU01		Process Fugitives (4)	Cresols	0.26	1.07
		OXR Unit	CA	0.02	0.09
FUPWNOS01		Process Fugitives (4) (5)	Cresols	0.02	0.10
		Process Water/Nap Oil Storage	CA VOC	0.02 0.69	0.09 3.01
			Cresols	<0.01	<0.01
			CA VOC	<0.01 0.06	<0.01 0.26
			AIR CONT	AMINANTS DA	ATA
Emission Point No. (1)	Source Name (2)	Air Contaminant <u>Emission</u> Name (3) lb/hr TF	Rates*		
FUPWS22201		Process Fugitives (4) Process Water Storage Tank T-222	Cresols CA	<0.01 <0.01	0.03 0.03
FUPWS22301		Process Fugitives (4) (5) Process Water Storage Tank T-223	Cresols CA	0.03 0.03	0.12 0.11
		TAIIN T-223	Cresols CA	<0.01 <0.01	0.02 0.02

FURLU37A01	Process Fugitives (4) Rail Loading/Unloading Area 37A	Cresols CA	0.09 0.09	0.09 0.09
FURLU37B01	Process Fugitives (4) Rail Loading/Unloading Area 37B	Cresols CA	<0.01 <0.01	<0.01 <0.01
FURLU37C01	Process Fugitives (4) Rail Loading/Unloading Area 37C	Cresols	0.05	<0.01
FURLU37D01	Process Fugitives (4)	Cresols	0.01	<0.01
	Rail Loading/Unloading	CA	0.01	<0.01
	Area 37D	VOC	0.02	0.08
FURSDUS01	Process Fugitives (4)	Cresols	0.03	0.13
	Residue Storage	CA	0.03	0.13
FUSAPOU01	Process Fugitives (4)	VOC	0.05	0.21
	Sulfuric Acid Polishing Unit			
FUSAS01	Process Fugitives (4)	Cresols	<0.01	<0.01
	Sulfuric Acid Storage	CA	<0.01	<0.01
FUT27501	Process Fugitives (4)	Cresols	0.01	0.05
	Tank T-275 Area	CA	0.03	0.14
FUTKFLR01	Process Fugitives (4) (5)	Cresols	<0.01	<0.01
	Tank Vent Flare	CA	<0.01	<0.01
		VOC Cresols	0.97 <0.01	4.25 <0.01

				CA	<0.01	<0.01
				VOC	0.04	0.16
				AIR CONT	AMINANTS	DATA
Emission Point No. (1)			Emission R lb/hr TP\			
FUTTLU2401	Process F	ugitives (4)		Cresols	0.04	0.03
	Tank-Tru	ck Loading		CA	0.03	0.03
	and Unlo	ading				
FUVAFU01		ugitives (4) Flash Unit		VOC	0.16	0.69
FUWELFS01	Process F	ugitives (4)	(5)	Cresols	<0.01	<0.01
	Disposal	Well Feed		CA	<0.01	<0.01
	Storage			VOC	0.20	0.02
				Cresols	<0.01	<0.01
				CA	<0.01	<0.01
				VOC	0.01	<0.01
FUWELL01	Process Fi Disposal	ugitives (4) Well	(5)	Cresols CA	<0.01 <0.01	<0.01 <0.01
				VOC	0.15	0.02
				Cresols	<0.01	<0.01
				CA	<0.01	<0.01
				VOC	0.01	<0.01
VECAS1203	Tank T-14	2 (9)		VOC	0.57	0.31
VEC21DU03	Tank T-14	3 (9)		VOC	<0.01	0.05
VEC21DU05	Tank T-14	6 (9)		VOC	0.02	0.03

VEC21DU06	Tank T-147 (9)	VOC	<0.01	0.03
VEC27DU04	Tank T-351 (9)	VOC	<0.01	0.02
VEC27DU05	Tank T-352 (9)	VOC	0.42	0.03
SEC25DU03	S-25 Scrubber	Cresols CA	0.02 0.01	<0.01 0.01
FURLU37A01	Rail Loading A2 Area (6) Spots 5, 7, 8 and 9	VOC	2.14	0.20
VECAS33D02	Tank T-70 (6)	VOC	0.26	<0.01
VECAS33D03	Tank T-71 (6)	VOC	<0.01	0.02

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emiss</u> lb/hr	ion Rates TPY	<u>S*</u>			
VECAS33D05		nk T-82B (6)		 VC	)C	<0.01	<0.01	
VECAS33D06	Ta	nk T-89 (6)		VC	C	<0.01	<0.01	
SECAS33DO8	S-8	32 Scrubber		Cro CA	esols \		0.02 0.02	<0.01 <0.01
VECAS1702	Ta	nk T-37 (11)		VC	C		0.13	<0.01
VECAS1703	Ta	nk T-38 (11)		VC	C		<0.01	<0.01
VECAS1704	Ta	nk T-57 (11)		VC	C		<0.01	<0.01
VECAS1705	Ta	nk T-58 (11)		VC	C		<0.01	<0.01
VECAS19810	Ta	nk T-68 (11)		VC	C		0.32	0.01
VECAS19811	Ta	nk T-69 (11)		VC	C	<0.0	1 0.01	
VECAS1706	Ta	nk T-86 (11)		VC	C	<0.0	1<0.01	
VECAS1603	Ta	nk T-151 (11)		VC	C	<	0.06	0.06

VECAS1604	Tank T-152 (11)	VOC	< 0.12	0.03
SECAS1707	S-86 Scrubber	Cresols CA	0.02 0.01	<0.01 <0.01
FUDRUM01	Drum Loading (7)	VOC	0.52	0.02
FURLU37A01	Rail Loading A1 Area (7) Spots 2 and 3	VOC	2.14	0.13
VECAS33E02	Tank T-5 (7)	VOC	0.13	0.01
VECAS33E03	Tank T-6 (7)	VOC	<0.01	0.01
VECAS33E06	Tank T-96 (7)	VOC	<0.01	0.01
SECAS33E07	S-96 Scrubber	Cresols CA	0.03 0.03	<0.01 <0.01
SERSDUS03	S-190 Scrubber	CA VOC	<0.01 <0.01	0.01 <0.01
FUTTLU2401	Tank Truck Loading (8)	VOC	1.19	0.18
		AIR CON	ITAMINANTS	DATA
Emission Point No. (1)	Source Air Contaminant <u>Emission</u> Name (2) Name (3) lb/hr TF		ITAMINANTS	DATA
		Rates*	ITAMINANTS 0.74	DATA 0.02
Point No. (1)	Name (2) Name (3) lb/hr TF	Rates* ⊃γ		
Point No. (1) FURLU37C01	Name (2) Name (3) lb/hr TF  Railcar Loading Vent 37C	Rates* PY VOC (8)	0.74	0.02
Point No. (1)  FURLU37C01  FURLU37D01	Name (2) Name (3) lb/hr TF  Railcar Loading Vent 37C  Railcar Loading Vent 37D	Rates* PY VOC (8) VOC (8)	0.74 1.30	0.02 0.05
Point No. (1)  FURLU37C01  FURLU37D01  SECAS9701	Name (2) Name (3) lb/hr TR  Railcar Loading Vent 37C  Railcar Loading Vent 37D  Tank T-260 (8)	Rates* VOC (8) VOC (8) VOC	0.74 1.30 0.23	0.02 0.05 0.05
Point No. (1)  FURLU37C01  FURLU37D01  SECAS9701  SECAS9702	Name (2) Name (3) lb/hr TF  Railcar Loading Vent 37C  Railcar Loading Vent 37D  Tank T-260 (8)  Tank T-261 (8)	Rates* VOC (8) VOC (8) VOC VOC Cresols	0.74 1.30 0.23 <0.01 0.07	0.02 0.05 0.05 0.01 0.01
Point No. (1)  FURLU37C01  FURLU37D01  SECAS9701  SECAS9702  SECAS9702	Name (2) Name (3) lb/hr TF  Railcar Loading Vent 37C  Railcar Loading Vent 37D  Tank T-260 (8)  Tank T-261 (8)  S-260 Scrubber	Rates* VOC (8) VOC (8) VOC VOC Cresols CA	0.74 1.30 0.23 <0.01 0.07 0.03	0.02 0.05 0.05 0.01 0.01 <0.01
Point No. (1)  FURLU37C01  FURLU37D01  SECAS9701  SECAS9702  SECAS9702  VET27503	Name (2) Name (3) lb/hr TF  Railcar Loading Vent 37C  Railcar Loading Vent 37D  Tank T-260 (8)  Tank T-261 (8)  S-260 Scrubber  Tank T-17 (10)	Rates* VOC (8) VOC (8) VOC VOC Cresols CA VOC	0.74 1.30 0.23 <0.01 0.07 0.03 <0.01	0.02 0.05 0.05 0.01 0.01 <0.01 <0.01

SET27504	S-275 Scrubber	Cresols CA	<0.01 <0.01	<0.01 <0.01
VEOXRU04	Tank T-201 (12)	VOC	<0.01	<0.01
VEOXRU05	Tank T-280 (12)	VOC	<0.01	<0.01
VEOXRU06	Tank T-283 (12)	VOC	0.32	0.02
VEOXRU07	Tank T-284 (12)	VOC	<0.01	0.03
VEOXRU08	Tank T-285 (12)	VOC	<0.01	0.03
VEOXRU09	Tank T-286 (12)	VOC	<0.01	<0.01
VEOXRU10	Tank T-287 (12)	VOC	<0.01	<0.01
VEOXRU11	Tank T-288 (12)	VOC	<0.01	<0.01
SEOXRU03	S-310 Scrubber	Cresols CA	0.03 <0.01	<0.01 <0.01

#### 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) CO carbon monoxide
  - CA cresylic acid
  - H2S hydrogen sulfide
  - NOx total oxides of nitrogen
  - PM10 particulate matter less than 10 microns
  - SOx sulfur oxides
  - VOC volatile organic compounds as defined in General Rule 101.1
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) These are uncontrolled process fugitive emissions prior to compliance with Special Provision No. 15.
- (6) This source will be sent to Scrubber S-82 under Special Provision No. 17.
- (7) This source will be sent to Scrubber S-96 under Special Provision No. 19.
- (8) This source will be sent to Scrubber S-260 under Special Provision No. 21.

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- (9) This source will be sent to Scrubber S-25 under Special Provision No. 16.
- (10) This source will be sent to Scrubber S-275 under Special Provision No. 22.
- (11) This source will be sent to Scrubber S-86 under Special Provision No. 18.
- (12) This source will be sent to Scrubber S-310 under Special Provision No. 23.

*	Emission rates are based on and the facilities are limited by the following maximum operating schedule:	
	Hrs/dayDays/weekWeeks/yearor Hrs/year_8,760	

Revised\_\_\_\_