EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Flexible Permit Numbers 9868A and PSD-TX-102M6

EMISSION CAP TABLE

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.

See Attachment I for Source Name and Emission Point Number Index.

VOC EMISSION CAP

Source Name	Year	lb/hr	TPY
Flares	1995 (Initial)	11,071	10,202
Fired Units (Furnaces, Heaters, Boilers, etc	.) 1996	10,978	10,134
FCCU CO Boilers	1997	10,776	9,912
Engines	1998	8,908	9,795
Cooling Towers	1999	4,941	9,374
Wastewater (4)	2000	4,399	7,396
Tanks	2001	4,229	7,140
Truck and Rail Loading	2002	4,068	6,718
Fugitives (4)	2003	3,760	6,320
Incinerators	2004	3,110	5,663
Vents (56V1)	2005A (6)	3,024	5,474
20	005B (6)	3,027	(6)
	2006	2,251	5,015
20	007 (7)	2,244	(7)
20	008 (Final)	2,177	4,873

NO_x EMISSION CAP

Source Name	Year	lb/hr	TPY
Flares	1995 (Initial)	2,082	4,632
Fired Units (Furnaces, Heaters, Boilers, etc.)	1996	2,014	4,632
FCCU CO Boilers	1997	1,957	4,632
Engines	1998	1,957	4,632
Incinerators	1999	1,843	4,452
	2000	1,753	3,699
	2001	1,697	3,456
	2002	1,590	3,115
	2003	1,519	2,802
	2004	1,513	2,764
	2005A (6)	1,512	2,770
2005	5B (6)	1,523	(6)
	2006	1.630	2.915

2007	• /	1,656 1364	(7) 2946
	3 (Final) SUBCAP FOR BOILE		2940
		,	TD\/
EPNs	Year	lb/hr	TPY
81B17	2004	68	94
2005	(Final)	68	57
S	O ₂ EMISSION CAP		
Source Name	Year	lb/hr	<u>TPY</u>
Flares	1995 (Initial)	7,128	12,740
Fired Units (Furnaces, Heaters, Boilers, etc.)	1996	7,004	12,560
FCCU CO Boilers	1997	6,880	12,016
Engines	1998	6,880	12,017
Incinerators	1999	6,877	12,015
Sulfur Handling	2000	6,850	11,934
Fugitives (4)	2001	6,850	11,934
Wastewater (4)	2002	6,847	11,927
	2003	6,847	11,927
	2004	6,845	11,921
	2005A (6)	6,845	10,680
	2005B (6)	6,854	(6)
	2006	6,860	10,729
	2007 (7)	6,881	(7)
2008	(Final)	6,804	3,953
CO EN	IISSION CAP		
Source Name	Year	lb/hr	TPY
Flares			
Fired Units (Furnaces, Heaters, Boilers, etc.)	1995 (Initial)	1,285	5,305 5,305
FCCU CO Boilers	1996 1997	1,295 1,302	5,305 5,305
Engines	1998	1,302	5,305 5,305
Incinerators	1999	1,260	5,305 5,305
Incinerators	2000	1,204	
	2001	1,204	4,758 4,765
	2002	1,164	4,642
	2002	1,168	4,606
	2003	1,166	4,579
	2005A (6)	1,167	4,579 4,587
2005	5B (6)	1,189	
2003	2006	1,169 1,265	(6) 5.013
2007			5,013 (7)
2007	(<i>1)</i> 3 (Final)	1,319 977	(7) 4 182
2000	(i iliai)	911	4,182

PM EMISSION CAP

Source Name	Year	lb/hr	TPY
Flares	1995 (Initial)	271	1,129
Fired Units (Furnaces, Heaters, Boilers, etc.)	1996	271	1,129
FCCU CO Boilers	1997	271	1,129
Engines	1998	271	1,129
Incinerators	1999	271	1,129
Vacuum Cooling Tower	2000	261	1,125
	2001	261	1,125
	2002	261	1,125
	2003	261	1,125
	2004	261	1,125
	2005A (6)	261	1,120
200	5B (6)	263	(6)
	2006	263	1,103
200	7 (7)	276	(7)
200	8 (Final)	268	1,133

H₂S EMISSION CAP

Source Name	Year	lb/hr	TPY
Flares	1995 (Initial)	128	307
Fired Units (Furnaces, Heaters, Boilers, etc.)	1996	126	299
FCCU CO Boilers	1997	125	292
Incinerators	1998	128	305
Sulfur Handling	1999	120	243
Fugitives (4)	2000	43	115
Wastewater (4)	2001	42	108
Vent (32V1)	2002	42	108
Tank (3003)	2003	42	108
	2004	37	103
	2005	38	104
	2006	37	97
2007	' (Final)	33	81

HCI EMISSION CAP

Source Name	Year	lb/hr	TPY
Flares	1995 (Initial)	13	30
Fugitives (4)	1996	13	30
	1997	12	28
	1998	12	28
	1999	12	28
	2000	5.7	25
	2001	5.7	25
	2002	5.7	25
	2003	5.7	25
	2004	5.7	25
	2005	5.7	25
	2006	5.7	25
2007	7 0.51	2.25	
	2008 (Final)	0.04	0.20

NH₃ EMISSION CAP

Source Name	Year	lb/hr	TPY
Fugitives (4)	1995 (Initial)	82	355
Wastewater (4)	1996	82	355
Vent (32V1)	1997	82	355
Tank (3003)	1998	82	355
	1999	5	7
	2000	2.0	5.4
	2001	2.0	5.4
	2002	2.0	5.4
	2003	2.0	5.5
2004	2.0	5.5	
	2005	2.0	5.5
	2006	2.0	5.5
	2007 (Final)	8.0	3.4

HF EMISSION CAP

Source Name	Year	lb/hr	<u>TPY</u>
Fugitives (4)	1995 (Initial)	0.56	2.44
	1996	0.56	2.44
	1997	0.56	2.44
	1998	0.56	2.44
	1999	0.56	2.44
	2000	0.43	1.9
	2001	0.43	1.9
	2002	0.43	1.9
	2003	0.43	1.9
	2004	0.43	1.9
	2005	0.43	1.9
	2006	0.43	1.9
	2007 (Final)	0.44	1.9
	CHLORINE CAP		
Source Name	Year	lb/hr	TPY
Cooling Towers	2003	1.65	7.23
3	2004 1.65	7.23	
	2005 1.65	7.23	
	2006 1.65	7.23	
	2007 (Final)	1.24	5.41
	BENZENE CAP		
Source Name	Year	lb/hr	TPY
Flares	1995 (Initial)	47	78
Tanks	1996 `	45	75
Truck and Rail Loading	1997	42	68
Fugitives (4)	1998	41	67
Wastewater (4)	1999	22	65
• •	2000	14	35
	2001	13	34
	2002	13	33
	2003	13	33
	2004	12	32
	2005	12	32
	2006	11	31
	2007 10	25.3	
	2008 (Final)	9.98	25.21

INDIVIDUAL EMISSION POINTS

AIR CONTAMINANTS DATA

Emission	Source	Air Contaminant	Emission	Rates
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
85B2	Unit 40 CO Boiler	NO_x	11.96	52.4
		CO	42.85	187.7
		VOC	3.23	14.1
		PM ₁₀ 4.46	19.5	
		SO ₂ 18.68	81.8	

- (1) Emission point identification either specific equipment designation or emission point number from a plot plan.
- (2) Specific point source names. 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_x - total oxides of nitrogen

SO₂ - sulfur dioxide

PM - particulate matter, suspended in the atmosphere, including PM₁₀

 PM_{10} - particulate matter equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no PM greater than 10 microns is emitted.

CO - carbon monoxide

H₂S - hydrogen sulfide

HCl - hydrogen chloride

NH₃ - ammonia

HF - hydrogen fluoride

- (4) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
- (5) The NO_x emissions in this subcap are also included in the overall NO_x cap.
- (6) 2005A caps are in effect prior to start-up of the new Hydrogen Unit in 2005.

2005B annual caps = 2005A annual caps + ratable increases from Table D-1 dated June 28, 2004 of the Hydrogen Unit amendment application. Those annual increases/(decreases) in TPY are as follows:

$$VOC = 12$$
; $NO_x = 47$; $SO_2 = 39$; $CO = 97$; and $PM = 10$.

(7) 2007 short-term and annual caps will be equal to 2006 caps adjusted for ratable increases/(decreases) due to start-up of the Vacuum and Coker Units in 2007 (Table H-1 dated February 14, 2005 of the Vacuum/Coker Unit amendment application). Those annual increases/(decreases) in TPY are as follows:

VOC = 8; $NO_x = 54$; $SO_2 = (7117)$; CO = 224; and PM = 28.

Emission rates are based on continuous operation.

Dated <u>May 8, 2008</u>

ATTACHMENT I

CONTAMINANTS, EMISSION POINT NUMBERS, AND SOURCE NAMES

Flexible Permit Numbers 9868A and PSD-TX-102M6

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.

<u>Contaminant</u>	Emission Point No. (1)	Source Name (2)
SO ₂ SOURCES:		
	2H1	Unit 2-2 HDS Charge Htr
	2H2	NGL Deoiler Furnace
	4H1	Unit 4 Feed Heater
	4H2	Unit 4 Dehydrator Heater
	5H1	Unit 5-A Feed Heater
	6H3	BHU Reduction Furnace
	6H1	Unit 6 Hydro Preheater
	7H1-4	Unit 7 Charge Furnace
	7H1-4	Unit 7 No. 1 Reheater
	7H1-4	Unit 7 No. 2 Reheater
	7H1-4	Unit 7 No. 3 Reheater
	9H1	Crude Oil Heater
	10H1	Crude Oil Heater
	11H1	Ethane Unit Superheater
	12H1	Mol Sieve Regen Gas Heater
	10110	

Flexible Permit Numbers 9868A and PSD-TX-102M6 Page 8

	Emission	
Contaminant (3)	Point No. (1)	Source Name (2)
	19H5	19.1 No. 1 Reboiler
	19H5	19.1 No. 2 Reboiler
	19H6	19.2 Platformer Reheater No. 1
	19B1/19H1	19.2 Charge Furnace
	19B1/19H2	19.2 No. 2 Reheater
	19B1/19H2	19.2 No. 3 Reheater
	19B2/19H4	19.3 Charge Furnace
	19B2/19H4	19.3 Frac Feed Furnace

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Contaminant (3)	Emission Point No. (1)	Source Name (2)
	22H1	Alky Reboiler Furnace
	28H1	Unit 28 Charge Heater
	29H4	Unit 29 DeC4 Reboiler
	29H2	Unit 29 Preheater
	36H1	HDS Unit Charge Heater
	40H1	Unit 40 Superheater No. 1
	40H2	Unit 40 Superheater No. 2
	41H1 (PSD)	Unit 41 Reformer Furnace
	42H1 (PSD)	Unit 42 Reactor Chg Htr
	42H2 (PSD)	Unit 42 Reactor Chg Htr
	42H3 (PSD)	Unit 42 Fract Feed Heater
	50H1	Unit 50 Charge Heater
	51H1	Unit 51 Charge Heater
	98H1	Unit 98 Reformer Furnace
	81B17	Refinery Boiler 2.4
	7E1	Unit 7 Plat Engine No. 1
	7E2	Unit 7 Plat Engine No. 2
	7E3	Unit 7 Plat Engine No. 3
	7E4	Unit 7 Plat Engine No. 4
	7E5	Unit 7 Plat Engine No. 5
	7E6	Unit 7 Plat Engine No. 6
	12E1	Engine
	12E2	Engine
	12E3	Engine
	12E4	Engine
	12E5	Engine
	12E6	Engine
	12E7	Engine

Courtouring ant (O)	Emission	Course Norse (2)
Contaminant (3)	<u>Point No. (1)</u> 55E1	Source Name (2) Engine
	55E2	Engine
	55E3	Engine
	93E1	Engine No. 37
	93E2	Engine No. 38
	93E3	Engine No. 39
	93E4	Engine No. 40
	85B1 (PSD) (4)	Cat Cracker Regenerator (Unit 29 CO Boiler Stack)
	29P1	Unit 29 FCCU Stack
	85B2 (PSD)	Unit 40 Boiler Stack (8/06)
	40P1	Unit 40 FCCU Stack
	3411	SRU Incinerator
	43I1 (PSD)	SCOT Unit Incinerator
	66FL1	Refinery East HC Flare
	66FL2	Refinery West HC Flare
	66FL3	Refinery Cat Flare
	66FL4	NGL Non-Corrosive Flare
	66FL6	H₂S Emergency Flare
	66FL8	100M Sour Brine Flare Pit
	66FL10	100M Swt Brine Flare Pit
	66FL11	30M Swt Brine Flare Pit
	66FL12	ARDS HC Flare
	66FL13	ARDS Emergency Sulfur Flare
VOC SOURCES:		
	2H1	Unit 2-2 HDS Charge Htr
	2H2	NGL Deoiler Furnace
	4H1	Unit 4 Feed Heater
	4H2	Unit 4 Dehydrator Heater

0	Emission	O No (0)
Contaminant (3)	<u>Point No. (1)</u> 5H1	Source Name (2) Unit 5-A Feed Heater
	6H3	BHU Reduction Furnace
	6H1	Unit 6 Hydro Preheater
	7H1-4	Unit 7 Charge Furnace
	7H1-4	Unit 7 No. 1 Reheater
	7H1-4	Unit 7 No. 2 Reheater
	7H1-4	Unit 7 No. 3 Reheater
	9H1	Crude Oil Heater
	10H1	Crude Oil Heater
	11H1	Ethane Unit Superheater
	12H1	Mol Sieve Regen Gas Heater
	19H3	19.1 Naphtha HDS Chg Htr
	19H5	19.1 No. 1 Reboiler
	19H5	19.1 No. 2 Reboiler
	19H6	19.2 Platformer Reheater No. 1
	19B1/19H1	19.2 Charge Furnace
	19B1/19H2	19.2 No. 2 Reheater
	19B1/19H2	19.2 No. 3 Reheater
	19B2/19H4	19.3 Charge Furnace
	19B2/19H4	19.3 Frac Feed Furnace
	22H1	Alky Reboiler Furnace
	26H1	Unit 26 DeC4 Reboiler
	28H1	Unit 28 Charge Heater
	29H4	Unit 29 DeC4 Reboiler
	29H2	Unit 29 Preheater
	36H1	HDS Unit Charge Heater
	40H1	Unit 40 Superheater No. 1
	40H2	Unit 40 Superheater No. 2
	41H1 (PSD)	Unit 41 Reformer Furnace
	42H1 (PSD)	Unit 42 Reactor Chg Htr
	42H2 (PSD)	Unit 42 Reactor Chg Htr
	42H3 (PSD)	Unit 42 Fract Feed Heater

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0 - 1 - 1 - 1 (0)	Emission	O N (0)
Contaminant (3)	<u>Point No. (1)</u> 50H1	Source Name (2) Unit 50 Charge Heater
	51H1	Unit 51 Charge Heater
	98H1	Unit 98 Reformer Furnace
	81B17	Refinery Boiler 2.4
	7E1	Unit 7 Plat Engine No. 1
	7E2	Unit 7 Plat Engine No. 2
	7E3	Unit 7 Plat Engine No. 3
	7E4	Unit 7 Plat Engine No. 4
	7E5	Unit 7 Plat Engine No. 5
	7E6	Unit 7 Plat Engine No. 6
	12E1	Engine
	12E2	Engine
	12E3	Engine
	12E4	Engine
	12E5	Engine
	12E6	Engine
	12E7	Engine
	55E1	Engine
	55E2	Engine
	55E3	Engine
	93E1	Engine No. 37
	93E2	Engine No. 38
	93E3	Engine No. 39
	93E4	Engine No. 40
	53R1	Refinery Tank Car Loading
	53T1	Refy Tank Truck Loading
	53R2	NGL Tank Car Tracks 1 and 2
	53R3	NGL Tank Car Tracks 3 and 4
	53T2	NGL Tank Truck Loading

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Contaminant (3)	Emission Point No. (1)	Source Name (2)
Contaminant (O)	56-4	Truck Loading and Fugitives
	56V1	Caustic Regeneration Vent
	85B1 (PSD) (4)	Cat Cracker Regenerator (Unit 29 CO Boiler Stack)
	29P1	Unit 29 FCCU Stack
	85B2 (PSD)	Unit 40 CO Boiler Stack (8/06)
	40P1	Unit 40 FCCU Stack
	3411	SRU Incinerator
	43I1 (PSD)	SCOT Unit Incinerator
	66FL1	Refinery East HC Flare
	66FL2	Refinery West HC Flare
	66FL3	Refinery Cat Flare
	66FL4	NGL Non-Corrosive Flare
	66FL6	H₂S Emergency Flare
	66FL8	100M Sour Brine Flare Pit
	66FL10	100M Swt Brine Flare Pit
	66FL11	30M Swt Brine Flare Pit
	66FL12	ARDS HC Flare
	66FL13	ARDS Emergency Sulfur Flare
	53FL1	Thermal Oxidation Unit
	F-1	Unit 1 Fugitives
	F-1-6	Unit 1.6 Fugitives
	F-1-7	Unit 1.7 Fugitives
	F-2	Unit 2 Columns
	F-2-1	Unit 2.2 Fugitives
	F-2-5	NGL Fractionators
	F-4	Butane Isom Fugitives
	F-5	Pentane Isom Fugitives
	F-6	Hexane Isom Fugitives
	F-7	Platformer

Contorning at (2)	Emission	Course Norse (2)
Contaminant (3)	<u>Point No. (1)</u> F-9	Source Name (2) Unit 9 Fugitives
	F-10	Unit 10 Fugitves
	F-11	NGL Deethanizer Unit Fug
	F-12	Cryogenic Gas Plant Fug
	F-13	NGL CLean-Up Unit Fug
	F-19-1	Naphtha HDS Fugitives
	F-19-2	Reformer Fugitives
	F-19-3	Distillate HDS Fugitives
	F-22	HF Alkylation Fugitives
	F-23	St Run Fract Fugitives
	F-26	HO FCCU Fract Fugitives
	F-28	Unit 28 Fugitives
	F-29	Gas Oil FCCU 29 Fugitives
	F-32	Unit 32 Fugitives
	F-35	Unit 35 Fugitives
	F-36	Unit 36 Fugitives
	F-40	Heavy Oil FCCU Fugitives
	F-41	Fugitives
	F-42	ARDS Unit 42 Fugitives
	F-43-1	Sulfur Handling/Storage
	F-44	Unit 44 Fugitives
	F-50	Unit 50 Fugitives
	F-51	Unit 51 Fugitives
	F-53-1	Refinery Loading Fugitives
	F-53-2	NGL Loading Rack
	F-55	Air Compressor Fugitives
	F-56	Unit 56 Fugitives
	F-66-1	Ref. Flare Area Fugitives
	F-66-2	NGL Flare Fug

	Emission	
Contaminant (3)	<u>Point No. (1)</u> F-66-3	Source Name (2) ARDS/Cat Area Fugitives
	F-68-1a	ARDS Storage Fugitives
	F-68-1e	E. Refinery Storage Fugitives
	F-68-1n	N. Refinery Storage Fugitives
	F-68-1r	Rocky Station Fugitives
	F-68-1s	S. Refinery Storage Fugitives
	F-68-1t	Taubman Yard Fugitives
	F-68-1w	W. Refinery Storage Fugitives
	F-68-2n	N. Coble Storage Fugitives
	F-68-2s	S. Coble Storage Fugitives
	F-68-3	NGL West Storage Fugitives
	F-68-4t	JTF Fugitives
	F-68-5	Gasoline Blending System
	F-81	Refinery Boilers
	F-81 F-82	NGL Boilers
	F-85-1	Unit 29 COB Fugitives
	F-85-2	Unit 40 COB Fugitives
	F-98	· ·
	F-98 F-68-4a	SMR Fugitives 100M SWT Brine Pond
	F-68-4b	55M SWT Brine Pond
		100M Sour Brine Pond
	F-68-4c	
	F-68-4d	100M SWT Brine Pond
	F-68-4e	30M SWT Brine Pond
	F-68-4f	300M Sour Brine Pond
	F-68-4g	2MM Brine Pond
	F-68-4h	3MM Brine Pond
	F-54-C10	Cooling Twr (Refy No. 9)
	F-54-C11	Cooling Twr (Refy No. 3)
	F-54-C12	Cooling Twr (NGL Mar No. 12)

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	Emission	
Contaminant (3)	Point No. (1) F-54-C13	Source Name (2)
		Cooling Twr (NGL Prt No. 14)
	F-54-C14	Cooling Twr (NGL Mar No. 15)
	F-54-C15	Cooling Twr (NGL Prt No. 16)
	F-54-C16	Cooling Twr (NGL Prt No. 18)
	F-54-C17	Cooling Twr (Refy No. 8)
	F-54-C18	Cooling Twr (Refy No. 13)
	F-54-C19	Cooling Twr (Refy No. 10)
	F-54-C21	Cooling Twr (Vacuum Unit)
	F-54-C2	Cool Twr (NGL Ecodyne No. 9)
	F-54-C20	Cooling Twr (ARDS No. 17)
	F-54-C3	Cooling Twr (NGL SF No. 11)
	F-54-C4	Cooling Twr (NGL Mar No. 13)
	F-54-C6	Cooling Twr (NGL Mar No. 10)
	F-54-C7	Cooling Twr (Refy No. 2)
	F-54-C8	Cooling Twr (Refy No. 4)
	F-54-C9	Cooling Twr (Refy No. 7)
	F-56-1-1	NGL West Sump
	F-56-1-3	NGL North Sump
	F-56-1-4-A	Refy Oil/H20 Separators
	F-56-1-6	Storm Water System
	F-56-2	Dixon Creek WWTP
	F-56-1-5	Hazardous Waste Impoundment
	0109	Tank Storage
	0110	Tank Storage
	0111	Tank Storage
	0202	Tank Storage
	0303	Tank Storage
	0401	Tank Storage
	0511	Tank Storage
		Ctorago

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Contominant (2)	Emission	Course Norse (2)
Contaminant (3)	Point No. (1) 0513	Source Name (2) Tank Storage
	0514	Tank Storage
	0552	Tank Storage
	0562	Tank Storage
	0572	Tank Storage
	0573	Tank Storage
	1001	Tank Storage
	1002	Tank Storage
	1003	Tank Storage
	1006	Tank Storage
	1007	Tank Storage
	1008	Tank Storage
	1011	Tank Storage
	1012	Tank Storage
	1013	Tank Storage
	1064	Tank Storage
	1067	Tank Storage
	1163	Tank Storage
	1164	Tank Storage
	1165	Tank Storage
	1522	Tank Storage
	2072	Tank Storage
	2510	Tank Storage
	2530	Tank Storage
	2553	Tank Storage
	2571	Tank Storage
	2572	Tank Storage
	2575	Tank Storage
	2576	Tank Storage
	2577	Tank Storage
	2578	Tank Storage
	2579	Tank Storage

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Emission Contaminant (3) Point No. (1)	Source Name (2)
2580	Tank Storage
2670	Tank Storage
2672	Tank Storage
2673	Tank Storage
2674	Tank Storage
2675	Tank Storage
2676	Tank Storage
2677	Tank Storage
2678	Tank Storage
3001	Tank Storage
3002	Tank Storage
3003	Tank Storage
4030	Tank Storage
5505	Tank Storage
5508	Tank Storage
5511	Tank Storage
5520	Tank Storage
5521	Tank Storage
5525	Tank Storage
5531	Tank Storage
5532	Tank Storage
5536	Tank Storage
5537	Tank Storage
5538	Tank Storage
5539	Tank Storage
5540	Tank Storage
5541	Tank Storage
5542	Tank Storage
5543	Tank Storage

Emission Contaminant (3) Point No.	
5544	Tank Storage
5545	Tank Storage
5548	Tank Storage
5550	Tank Storage
5551	Tank Storage
5553	Tank Storage
5554	Tank Storage
5555	Tank Storage
5556	Tank Storage
5557	Tank Storage
5558	Tank Storage
5559	Tank Storage
5560	Tank Storage
5577	Tank Storage
5578	Tank Storage
5580	Tank Storage
5582	Tank Storage
5583	Tank Storage
5584	Tank Storage
5587	Tank Storage
5588	Tank Storage
5589	Tank Storage
5590	Tank Storage
5591	Tank Storage
5592	Tank Storage
5593	Tank Storage
5596	Tank Storage
5597	Tank Storage
5598	Tank Storage

Contaminant (2)	Emission	Source Name (2)
Contaminant (3)	Point No. (1) 5599	Source Name (2) Tank Storage
	8001	Tank Storage
	8002	Tank Storage
	8010	Tank Storage
	8011	Tank Storage
	8012	Tank Storage
	8013	Tank Storage
	8014	Tank Storage
	8015	Tank Storage
	8031	Tank Storage
	8032	Tank Storage
	8033	Tank Storage
	8034	Tank Storage
	9200	Tank Storage
	9201	Tank Storage
	9202	Tank Storage
	9500	Tank Storage
	9501	Tank Storage
	9502	Tank Storage
	9503	Tank Storage
	9504	Tank Storage
	9700	Tank Storage
	9701	Tank Storage
	9702	Tank Storage
NO _x SOURCES:		
NO _X JOURGES.	2H1	Unit 2-2 HDS Charge Htr
	2H2	NGL Deoiler Furnace
	4H1	Unit 4 Feed Heater
		J 1 000 1 100001

	Emission	
Contaminant (3)	Point No. (1) 4H2	Source Name (2) Unit 4 Dehydrator Heater
	5H1	Unit 5-A Feed Heater
	6H3	BHU Reduction Furnace
	6H1	Unit 6 Hydro Preheater
	7H1-4	Unit 7 Charge Furnace
	7H1-4	Unit 7 No. 1 Reheater
	7H1-4	Unit 7 No. 2 Reheater
	7H1-4	Unit 7 No. 3 Reheater
	9H1	Crude Oil Heater
	10H1	Crude Oil Heater
	11H1	Ethane Unit Superheater
	12H1	Mol Sieve Regen Gas Heater
	19H3	19.1 Naphtha HDS Chg Htr
	19H5	19.1 No. 1 Reboiler
	19H5	19.1 No. 2 Reboiler
	19B1/19H1	19.2 Charge Furnace
	19H6	19.2 Platformer Reheater No. 1
	19B1/19H2	19.2 No. 2 Reheater
	19B1/19H2	19.2 No. 3 Reheater
	19B2/19H4	19.3 Charge Furnace
	19B2/19H4	19.3 Frac Feed Furnace
	22H1	Alky Reboiler Furnace
	26H1	Unit 26 DeC4 Reboiler
	28H1	Unit 28 Charge Heater
	29H4	Unit 29 DeC4 Reboiler
	29H2	Unit 29 Preheater
	36H1	HDS Unit Charge Heater
	40H1	Unit 40 Superheater No. 1
	40H2	Unit 40 Superheater No. 2

Contorning at (2)	Emission	Course Norse (C)
Contaminant (3)	Point No. (1) 41H1 (PSD)	Source Name (2) Unit 41 Reformer Furnace
	42H1 (PSD)	Unit 42 Reactor Chg Htr
	42H2 (PSD)	Unit 42 Reactor Chg Htr
	42H3 (PSD)	Unit 42 Fract Feed Heater
	50H1	Unit 50 Charge Heater
	51H1	Unit 51 Charge Heater
	98H1	Unit 98 Reformer Furnace
	81B17	Refinery Boiler 2.4
	7E1	Unit 7 Plat Engine No. 1
	7E2	Unit 7 Plat Engine No. 2
	7E3	Unit 7 Plat Engine No. 3
	7E4	Unit 7 Plat Engine No. 4
	7E5	Unit 7 Plat Engine No. 5
	7E6	Unit 7 Plat Engine No. 6
	12E1	Engine
	12E2	Engine
	12E3	Engine
	12E4	Engine
	12E5	Engine
	12E6	Engine
	12E7	Engine
	55E1	Engine
	55E2	Engine
	55E3	Engine
	93E1	Engine No. 37
	93E2	Engine No. 38
	93E3	Engine No. 39
	93E4	Engine No. 40
	85B1	Cat Cracker Regenerator (Unit 29 CO Boiler Stack)

Contaminant (3)	Emission Point No. (1)	Source Name (2)
Contaminant (3)	29P1	Unit 29 FCCU Stack
	85B2 (PSD)	Unit 40 CO Boiler Stack (8/06)
	40P1	Unit 40 FCCU Stack
	3411	SRU Incinerator
	43I1 (PSD)	SCOT Unit Incinerator
	66FL1	Refinery East HC Flare
	66FL2	Refinery West HC Flare
	66FL3	Refinery Cat Flare
	66FL4	NGL Non-Corrosive Flare
	66FL6	H ₂ S Emergency Flare
	66FL8	100M Sour Brine Flare Pit
	66FL10	100M Swt Brine Flare Pit
	66FL11	30M Swt Brine Flare Pit
	66FL12	ARDS HC Flare
	66FL13	ARDS Emergency Sulfur Flare
CO SOURCES:		
	2H1	Unit 2-2 HDS Charge Htr
	2H2	NGL Deoiler Furnace
	4H1	Unit 4 Feed Heater
	4H2	Unit 4 Dehydrator Heater
	5H1	Unit 5-A Feed Heater
	6H3	BHU Reduction Furnace
	6H1	Unit 6 Hydro Preheater
	7H1-4	Unit 7 Charge Furnace
	7H1-4	Unit 7 No. 1 Reheater
	7H1-4	Unit 7 No. 2 Reheater
	7H1-4	Unit 7 No. 3 Reheater
	9H1	Crude Oil Heater

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	Emission	
Contaminant (3)	Point No. (1) 10H1	Source Name (2) Crude Oil Heater
	11H1	Ethane Unit Superheater
	12H1	Mol Sieve Regen Gas Heater
	19H3	19.1 Naphtha HDS Chg Htr
	19H5	19.1 No. 1 Reboiler
	19H5	19.1 No. 2 Reboiler
	19B1/19H1	19.2 Charge Furnace
	19H6	19.2 Platformer Reheater No. 1
	19B1/19H2	19.2 No. 2 Reheater
	19B1/19H2	19.2 No. 3 Reheater
	19B2/19H4	19.3 Charge Furnace
	19B2/19H4	19.3 Frac Feed Furnace
	22H1	Alky Reboiler Furnace
	26H1	Unit 26 DeC4 Reboiler
	28H1	Unit 28 Charge Heater
	29H4	Unit 29 DeC4 Reboiler
	29H2	Unit 29 Preheater
	36H1	HDS Unit Charge Heater
	40H1	Unit 40 Superheater No. 1
	40H2	Unit 40 Superheater No. 2
	41H1 (PSD)	Unit 41 Reformer Furnace
	42H1 (PSD)	Unit 42 Reactor Chg Htr
	42H2 (PSD)	Unit 42 Reactor Chg Htr
	42H3 (PSD)	Unit 42 Fract Feed Heater
	50H1	Unit 50 Charge Heater
	51H1	Unit 51 Charge Heater
	98H1	Unit 98 Reformer Furnace
	81B17	Refinery Boiler 2.4
	7E1	Unit 7 Plat Engine No. 1
	7E2	Unit 7 Plat Engine No. 2
	7E3	Unit 7 Plat Engine No. 3
	7E4	Unit 7 Plat Engine No. 4

Contaminant (3)	Emission Point No. (1)	Source Name (2)
	7E5	Unit 7 Plat Engine No. 5
	7E6	Unit 7 Plat Engine No. 6
	12E1	Engine
	12E2	Engine
	12E3	Engine
	12E4	Engine
	12E5	Engine
	12E6	Engine
	12E7	Engine
	55E1	Engine
	55E2	Engine
	55E3	Engine
	93E1	Engine No. 37
	93E2	Engine No. 38
	93E3	Engine No. 39
	93E4	Engine No. 40
	85B1	Cat Cracker Regenerator (Unit 29 CO Boiler Stack)
	29P1	Unit 29 FCCU Stack
	85B2 (PSD)	Unit 40 CO Boiler Stack (8/06)
	40P1	Unit 40 FCCU Stack
	3411	SRU Incinerator
	4311 (PSD)	SCOT Unit Incinerator
	66FL1	Refinery East HC Flare
	66FL2	Refinery West HC Flare
	66FL3	Refinery Cat Flare
	66FL4	NGL Non-Corrosive Flare
	66FL6	H₂S Emergency Flare
	66FL8	100M Sour Brine Flare Pit
	66FL10	100M Swt Brine Flare Pit

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	Emission	
Contaminant (3)	Point No. (1) 66FL11	Source Name (2) 30M Swt Brine Flare Pit
	66FL12	ARDS HC Flare
	66FL13	ARDS Emergency Sulfur Flare
	001 L13	ANDS Emergency Sulful Flare
PM SOURCES:		
	F-54-C21	Cooling Twr (Vacuum Unit)
	2H1	Unit 2-2 HDS Charge Htr
	2H2	NGL Deoiler Furnace
	4H1	Unit 4 Feed Heater
	4H2	Unit 4 Dehydrator Heater
	5H1	Unit 5-A Feed Heater
	6H3	BHU Reduction Furnace
	6H1	Unit 6 Hydro Preheater
	7E1	Unit 7 Plat Engine No. 1
	7E2	Unit 7 Plat Engine No. 2
	7E3	Unit 7 Plat Engine No. 3
	7E4	Unit 7 Plat Engine No. 4
	7E5	Unit 7 Plat Engine No. 5
	7E6	Unit 7 Plat Engine No. 6
	7H1-4	Unit 7 Charge Furnace
	7H1-4	Unit 7 No. 1 Reheater
	7H1-4	Unit 7 No. 2 Reheater
	7H1-4	Unit 7 No. 3 Reheater
	9H1	Crude Oil Heater
	10H1	Crude Oil Heater
	11H1	Ethane Unit Superheater
	12E1	Engine No. 41
	12E2	Engine No. 42
	12E3	Engine No. 43

0 (0)	Emission	0 1 (0)
Contaminant (3)	Point No. (1) 12E4	Source Name (2) Engine No. 44
	12E5	Engine No. 45
	12E6	Engine No. 46
	12E7	Engine No. 47
	12H1	Mol Sieve Regen Gas Heater
	19H3	19.1 Naphtha HDS Chg Htr
	19H5	19.1 No. 1 Reboiler
	19H5	19.1 No. 2 Reboiler
	19B1/19H1	19.2 Charge Furnace
	19H6	19.2 Platformer Reheater No. 1
	19B1/19H2	19.2 No. 2 Reheater
	19B1/19H2	19.2 No. 3 Reheater
	19B2/19H4	19.3 Charge Furnace
	19B2/19H4	19.3 Frac Feed Furnace
	22H1	Alky Reboiler Furnace
	26H1	Unit 26 DeC4 Reboiler
	28H1	Unit 28 Charge Heater
	29H4	Unit 29 DeC4 Reboiler
	29H2	Unit 29 Preheater
	36H1	HDS Unit Charge Heater
	40H1	Unit 40 Superheater No. 1
	40H2	Unit 40 Superheater No. 2
	41H1 (PSD)	Unit 41 Reformer Furnace
	42H1 (PSD)	Unit 42 Reactor Chg Htr
	42H2 (PSD)	Unit 42 Reactor Chg Htr
	42H3 (PSD)	Unit 42 Fract Feed Heater
	50H1	Unit 50 Charge Heater
	51H1	Unit 51 Charge Heater
	98H1	Unit 98 Reformer Furnace

0 - 1 - 1 - 1 (0)	Emission	O N (0)	
Contaminant (3)	Point No. (1) 81B17	Source Name (2) Refinery Boiler 2.4	
	53R4	NGL Tank Car Track 5	
55E1		Engine No. 1 (East)	
	55E2	Engine No. 2 (mid)	
	55E3	Engine No. 3 (West)	
	85B1	Cat Cracker Regenerator (Unit 29 CO Boiler Stack)	
	29P1	Unit 29 FCCU Stack	
	85B2	Unit 40 CO Boiler Stack (8/06)	
	40P1	Unit 40 FCCU Stack	
	93E1	Engine No. 37	
	93E2	Engine No. 38	
	93E3	Engine No. 39	
	93E4	Engine No. 40	
	3411	SRU Incinerator	
	4311 (PSD)	SCOT Unit Incinerator	
	KG47	Sulfur Tank	
	F-50A	Coke Handling Fugitives	
	VF-1030	PAC Silo	
	VF-2030	PAC Silo	
	0309	Tank Storage	
BENZENE SOUR	CES:		
	66FL1	Refinery East HC Flare	
	66FL2	Refinery West HC Flare	
	66FL3	Refinery Cat Flare	
	66FL4	NGL Non-Corrosive Flare	
	66FL6	H₂S Emergency Flare	
	66FL8	100M Sour Brine Flare Pit	
	66FL10	100M Swt Brine Flare Pit	

Contaminant (3)	Emission Point No. (1)	Source Name (2)
<u>Contaminant (5)</u>	66FL11	30M Swt Brine Flare Pit
	66FL12	ARDS HC Flare
	66FL13	ARDS Emergency Sulfur Flare
	53T1	Refy Tank Truck Loading
	53R2	NGL Tank Car Tracks 1 and 2
	53R3	NGL Tank Car Tracks 3 and 4
	53T2	NGL Tank Truck Loading
	F-1	Unit 1 Fugitives
	F-2	Unit 2 Columns
	F-2-1	Unit 2.2 Fugitives
	F-2-5	NGL Fractionators
	F-5	Pentane Isom Fugitives
	F-6	Hexane Isom Fugitives
	F-7	Platformer
	F-9	Unit 9 Fugitives
	F-10	Unit 10 Fugitves
	F-11	NGL Deethanizer Unit Fug
	F-12	Cryogenic Gas Plant Fug
	F-13	NGL CLean-Up Unit Fug
	F-19-1	Naphtha HDS Fugitives
	F-19-2	Reformer Fugitives
	F-23	St Run Fract Fugitives
	F-26	HO FCCU Fract Fugitives
	F-28	Unit 28 Fugitives
	F-29	Gas Oil FCCU 29 Fugitives
	F-32	Unit 32 Fugitives
	F-40	Heavy Oil FCCU Fugitives
	F-42	ARDS Unit 42 Fugitives
	F-44	Unit 44 Fugitives

O t i t (0)	Emission	Carries Names (0)
Contaminant (3)	Point No. (1) F-53-1	Source Name (2) Refinery Loading Fugitives
	F-53-2	NGL Loading Rack
	F-54-C2	Cool Twr (NGL Ecodyne No. 9)
	F-54-C3	Cooling Tower (Santa Fe No. 11)
	F-54-C4	Cooling Twr (NGL Mar No. 13)
	F-54-C6	Cooling Twr (NGL Mar No. 10)
	F-54-C7	Cooling Twr (Refy No. 2)
	F-54-C8	Cooling Twr (Refy No. 4)
	F-54-C9	Cooling Twr (Refy No. 7)
	F-54-C10	Cooling Twr (Refy No. 9)
	F-54-C11	Cooling Twr (Refy No. 3)
	F-54-C12	Cooling Twr (NGL Mar No. 12)
	F-54-C13	Cooling Twr (NGL Prt No. 14)
	F-54-C14	Cooling Twr (NGL Mar No. 15)
	F-54-C15	Cooling Twr (NGL Prt No. 16)
	F-54-C16	Cooling Twr (NGL Prt No. 18)
	F-54-C17	Cooling Twr (Refy No. 8)
	F-54-C18	Cooling Twr (Refy No. 13)
	F-54-C19	Cooling Twr (Refy No. 10)
	F-54-C21	Cooling Twr (Vacuum Unit)
	F-54-C20	Cooling Twr (ARDS No. 17)
	F-56-1-1	NGL West Sump
	F-56-1-3	NGL North Sump
	F-56-1-4-A	Refy Oil/H20 Separators
	F-56-1-6	Storm Water System
	F-56-2	Dixon Creek WWTP
	F-56-1-5	Hazardous Waste Impoundment
	F-56	Unit 56 Fugitives
	F-66-1	Ref. Flare Area Fugitives

Contaminant (3)	Emission Point No. (1)	Source Name (2)
Contaminant (5)	F-66-2	NGL Flare Fug
	F-66-3	ARDS/Cat Area Fugitives
	F-68-1a	ARDS Storage Fugitives
	F-68-1e	E. Refinery Storage Fugitives
	F-68-1n	N. Refinery Storage Fugitives
	F-68-1r	Rocky Station Fugitives
	F-68-1s	S. Refinery Storage Fugitives
	F-68-1t	Taubman Yard Fugitives
	F-68-1w	W. Refinery Storage Fugitives
	F-68-2n	N. Coble Storage Fugitives
	F-68-2s	S. Coble Storage Fugitives
	F-68-3	NGL West Storage Fugitives
	F-68-4t	JTF Fugitives
	F-68-5	Gasoline Blending System
	F-85-1	Unit 29 COB Fugitives
	F-85-2	Unit 40 COB Fugitives
	0111	Tank Storage
	0202	Tank Storage
	0303	Tank Storage
	0401	Tank Storage
	0511	Tank Storage
	0513	Tank Storage
	0514	Tank Storage
	0562	Tank Storage
	0572	Tank Storage
	0573	Tank Storage
	1001	Tank Storage
	1002	Tank Storage
	1003	Tank Storage

	Emission	
Contaminant (3)	Point No. (1) 1006	Source Name (2) Tank Storage
	1007	Tank Storage
	1008	Tank Storage
	1011	Tank Storage
	1012	Tank Storage
	1013	Tank Storage
	1064	Tank Storage
	1163	Tank Storage
	1164	Tank Storage
	1165	Tank Storage
	1522	Tank Storage
	2072	Tank Storage
	2510	Tank Storage
	2553	Tank Storage
	2575	Tank Storage
	2576	Tank Storage
	2577	Tank Storage
	2579	Tank Storage
	2580	Tank Storage
	2673	Tank Storage
	3001	Tank Storage
	3002	Tank Storage
	4030	Tank Storage
	5505	Tank Storage
	5521	Tank Storage
	5532	Tank Storage
	5550	Tank Storage
	5551	Tank Storage
	5553	Tank Storage
	5554	Tank Storage
	5555	Tank Storage
	5556	Tank Storage

Contaminant (3)	Emission Point No. (1)	Source Name (2)
Contaminant (o)	5557	Tank Storage
	5558	Tank Storage
	5559	Tank Storage
	5577	Tank Storage
	5578	Tank Storage
	5580	Tank Storage
	5583	Tank Storage
	5584	Tank Storage
	5591	Tank Storage
	5597	Tank Storage
	5599	Tank Storage
	8001	Tank Storage
	8002	Tank Storage
	8013	Tank Storage
	8031	Tank Storage
	8032	Tank Storage
	8034	Tank Storage
	9201	Tank Storage
	9500	Tank Storage
	9501	Tank Storage
	9502	Tank Storage
	9503	Tank Storage
H₂S SOURCES:		
	53R4	NGL Tank Car Track 5
	3411	SRU Incinerator
	4311	SCOT Unit Incinerator
	66FL1	Refinery East HC Flare
	66FL2	Refinery West HC Flare

Contaminant (3)	Emission	Source Name (2)
Contaminant (3)	Point No. (1) 66FL3	Source Name (2) Refinery Cat Flare
	66FL4	NGL Non-Corrosive Flare
	66FL6	H₂S Emergency Flare
	66FL8	100M Sour Brine Flare Pit
	66FL10	100M Swt Brine Flare Pit
	66FL11	30M Swt Brine Flare Pit
	66FL12	ARDS HC Flare
	66FL13	ARDS Emergency Sulfur Flare
	F-1-6	Unit 1.6 Fugitives
	F-2-1	Unit 2 Fugitives
	F-5	Pentane Isom Fugitives
	F-7	Platformer
	F-9	Unit 9 Fugitives
	F-10	Unit 10 Fugitves
	F-11	NGL Deethanizer Unit Fug
	F-12	Cryogenic Gas Plant Fug
	F-19-1	Naphtha HDS Fugitives
	F-23	St Run Fract Fugitives
	F-26	HO FCCU Fract Fugitives
	F-28	Unit 28 Fugitives
	F-29	Gas Oil FCCU 29 Fugitives
	F-32	Unit 32 Fugitives
	F-34	Sulfur Recovery Unit Fug
	F-35	Unit 35 Fugitives
	F-36	Unit 36 Fugitives
	F-40	Heavy Oil FCCU Fugitives
	F-41	Fugitives
	F-42	ARDS Unit 42 Fugitives
	F-43-1	Sulfur Handling/Storage

Contaminant (3)	Emission Point No. (1)	Source Name (2)
Contaminant (5)	F-44	Fugitives
	F-56-1-4-A	Refy Oil/H20 Separators
	F-56-2	Dixon Creek WWTP
	0309	Tank Storage
	KG47	Tank Storage
	2530	Tank Storage
	3003	Tank Storage
	F-53-1	Refinery Loading Fugitives
	F-53-2	NGL Loading Rack
	F-66-1	Ref. Flare Area Fugitives
	F-66-2	NGL Flare Fug
	F-66-3	ARDS/Cat Area Fugitives
	F-68-1a	ARDS Storage Fugitives
	F-68-1e	E. Refinery Storage Fugitives
	F-68-1n	N. Refinery Storage Fugitives
	F-68-1r	Rocky Station Fugitives
	F-68-1s	S. Refinery Storage Fugitives
	F-68-1t	Taubman Yard Fugitives
	F-68-1w	W. Refinery Storage Fugitives
	F-68-2n	N. Coble Storage Fugitives
	F-68-2s	S. Coble Storage Fugitives
	F-68-3	NGL West Storage Fugitives
	F-68-4t	JTF Fugitives
	F-68-5	Gasoline Blending System
	F-81	Refinery Boilers
	F-82	NGL Boilers
	F-85-1	Unit 29 COB Fugitives
	F-85-2	Unit 40 COB Fugitives

HCI SOURCES:

66FL1

ATTACHMENT I - CONTAMINANTS, EMISSION POINT NUMBERS AND SOURCE NAMES

Contaminant (3) NH ₃ SOURCES:	Emission Point No. (1)	Source Name (2)
MII3 OCOTOLO.	F-56-1-4-A	Refy Oil/H2O Separators
	F-56-2	Dixon Creek WWTP
	3003	Tank Storage
	F-29	Gas Oil FCCU 29 Fugitives
	F-32	Unit 32 Fugitives
	F-40	Heavy Oil FCCU Fugitives
	F-42	ARDS Unit 42 Fugitives
	F-43-1	Sulfur Handling/Storage
	F-44	Fugitives
	F-53-1	Refinery Loading Fugitives
	F-53-2	NGL Loading Rack
	F-66-1	Ref. Flare Area Fugitives
	F-66-2	NGL Flare Fug
	F-66-3	ARDS/Cat Area Fugitives
	F-68-1a	ARDS Storage Fugitives
	F-68-1e	E. Refinery Storage Fugitives
	F-68-1n	N. Refinery Storage Fugitives
	F-68-1r	Rocky Station Fugitives
	F-68-1s	S. Refinery Storage Fugitives
	F-68-1t	Taubman Yard Fugitives
	F-68-1w	W. Refinery Storage Fugitives
	F-68-2n	N. Coble Storage Fugitives
	F-68-2s	S. Coble Storage Fugitives
	F-68-3	NGL West Storage Fugitives
	F-68-4t	JTF Fugitives
	F-68-5	Gasoline Blending System
	F-85-1	Unit 29 COB Fugitives
	F-85-2	Unit 40 COB Fugitives
	F-98	SMR Fugitives

Refinery East HC Flare

	Emission	
Contaminant (3)	Point No. (1) 66FL2	Source Name (2) Refinery West HC Flare
	66FL3	Refinery Cat Flare
	66FL4	NGL Non-Corrosive Flare
	66FL8	100M Sour Brine Flare Pit
	66FL11	30M Swt Brine Flare Pit
	66FL12	ARDS HC Flare
	66FL13	ARDS Emergency Sulfur Flare
	F-54-C2	Cooling Tower (Ecodyne No. 9)
	F-54-C3	Cooling Tower (Santa Fe No. 11)
	F-54-C4	Cooling Tower (Marley No. 13)
	F-54-C6	Cooling Tower (Marley No. 10)
	F-54-C7	Cooling Tower (No. 2 Refinery)
	F-54-C8	Cooling Tower (No. 4 Refinery)
	F-54-C9	Cooling Tower (No. 7 Refinery)
	F-54-C10	Cooling Tower (No. 9 Refinery)
	F-54-C11	Cooling Tower (No. 3 Refinery)
	F-54-C12	Cooling Tower (Marley No. 12)
	F-54-C13	Cooling Tower (Pritchard No. 14)
	F-54-C14	Cooling Tower (Marley No. 15)
	F-54-C15	Cooling Tower (Pritchard No. 16)
	F-54-C16	Cooling Tower (Pritchard No. 18)
	F-54-C17	Cooling Tower (No. 8 Refinery)
	F-54-C18	Cooling Tower (No. 9 Refinery)
	F-54-C19	Cooling Tower (No. 10 Refinery)
	F-54-C20	Cooling Tower (Ards No. 17)
	F-54-C21	Cooling Tower (Vacuum Unit)
	F-53-1	Refinery Loading Fugitives
	F-53-2	NGL Loading Rack
	F-66-1	Ref. Flare Area Fugitives

Contaminant (3)	Emission Point No. (1)	Source Name (2)
(O)	F-66-2	NGL Flare Fug
	F-66-3	ARDS/Cat Area Fugitives
	F-68-1a	ARDS Storage Fugitives
	F-68-1e	E. Refinery Storage Fugitives
	F-68-1n	N. Refinery Storage Fugitives
	F-68-1r	Rocky Station Fugitives
	F-68-1s	S. Refinery Storage Fugitives
	F-68-1t	Taubman Yard Fugitives
	F-68-1w	W. Refinery Storage Fugitives
	F-68-2n	N. Coble Storage Fugitives
	F-68-2s	S. Coble Storage Fugitives
	F-68-3	NGL West Storage Fugitives
	F-68-4t	JTF Fugitives
	F-68-5	Gasoline Blending System
	F-81	Refinery Boilers
	F-82	NGL Boilers
	F-85-1	Unit 29 COB Fugitives
	F-85-2	Unit 40 COB Fugitives
	F-4	Butane Isom Fugitives
	F-6	Hexane Isom Fugitives
Cl₂ SOURCES:		
	F-54-C2	Cooling Tower (Ecodyne No. 9)
	F-54-C3	Cooling Tower (Santa Fe No. 11)
	F-54-C4	Cooling Tower (Marley No. 13)
	F-54-C6	Cooling Tower (Marley No. 10)
	F-54-C7	Cooling Tower (No. 2 Refinery)
	F-54-C8	Cooling Tower (No. 4 Refinery)
	F-54-C9	Cooling Tower (No. 7 Refinery)

	Emission	
Contaminant (3)	Point No. (1) F-54-C10	Source Name (2)
		Cooling Tower (No. 9 Refinery)
	F-54-C11	Cooling Tower (No. 3 Refinery)
	F-54-C12	Cooling Tower (Marley No. 12)
	F-54-C13	Cooling Tower (Pritchard No. 14)
	F-54-C14	Cooling Tower (Marley No. 15)
	F-54-C15	Cooling Tower (Pritchard No. 16)
	F-54-C16	Cooling Tower (Pritchard No. 18)
	F-54-C17	Cooling Tower (No. 8 Refinery)
	F-54-C18	Cooling Tower (No. 9 Refinery)
	F-54-C19	Cooling Tower (No. 10 Refinery)
	F-54-C20	Cooling Tower (Ards No. 17)
	F-54-C21	Cooling Tower (Vacuum Unit)
HF SOURCES:		
	F-53-1	Refinery Loading Fugitives
	F-53-2	NGL Loading Rack
	F-66-1	Ref. Flare Area Fugitives
	F-66-2	NGL Flare Fug
	F-66-3	ARDS/Cat Area Fugitives
	F-68-1a	ARDS Storage Fugitives
	F-68-1e	E. Refinery Storage Fugitives
	F-68-1n	N. Refinery Storage Fugitives
	F-68-1r	Rocky Station Fugitives
	F-68-1s	S. Refinery Storage Fugitives
	F-68-1t	Taubman Yard Fugitives
	F-68-1w	W. Refinery Storage Fugitives
	F-68-2n	N. Coble Storage Fugitives
	F-68-2s	S. Coble Storage Fugitives
	F-68-3	NGL West Storage Fugitives
	1 00 0	TVOL VVOSt Storage 1 agrilves

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Contaminant (3)	Emission Point No. (1)	Source Name (2)
	F-68-4t	JTF Fugitives
	F-68-5	Gasoline Blending System
	F-81	Refinery Boilers
	F-82	NGL Boilers
	F-85-1	Unit 29 COB Fugitives
	F-85-2	Unit 40 COB Fugitives
	F-22	HF Alkylation Fugitives

- (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) SO₂ sulfur dioxide
 - VOC volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
 - NO_x total oxides of nitrogen
 - CO carbon monoxide
 - PM particulate matter, suspended in the atmosphere, including PM₁₀.
 - PM_{10} particulate matter equal to or less than 10 microns in diameter, where PM is not listed, it shall be assumed that no PM greater than 10 microns is emitted.
 - H₂S hydrogen sulfide
 - NH₃ ammonia
 - HCl hydrogen chloride
 - Cl₂ chlorine
 - HF hydrogen fluoride
- (4) EPN 85B1 will be decommissioned by December 31, 2007.

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