### GW - 001

### Operation & Maintenance

### Chavez, Carl J, EMNRD

From:

Schmaltz, Randy [Randy.Schmaltz@wnr.com]

Sent: To: Tuesday, August 18, 2009 11:15 AM Chavez, Carl J, EMNRD; Hurtado, Cindy

Cc:

Krakow, Bob

Subject:

RE: Request for Approval - Sump #37

Carl,

Thanks for the prompt response!

**From:** Chavez, Carl J, EMNRD [mailto:CarlJ.Chavez@state.nm.us]

Sent: Tuesday, August 18, 2009 11:11 AM

To: Hurtado, Cindy

Cc: Schmaltz, Randy; Krakow, Bob

Subject: RE: Request for Approval - Sump #37

Cindy:

Approved. Thank you.

Carl J. Chavez, CHMM

New Mexico Energy, Minerals & Natural Resources Dept.

Oil Conservation Division, Environmental Bureau

1220 South St. Francis Dr., Santa Fe, New Mexico 87505

Office: (505) 476-3490 Fax: (505) 476-3462

E-mail: CarlJ.Chavez@state.nm.us

Website: <a href="http://www.emnrd.state.nm.us/ocd/">http://www.emnrd.state.nm.us/ocd/</a> index.htm (Pollution Prevention Guidance is under "Publications")

**From:** Hurtado, Cindy [mailto:Cindy.Hurtado@wnr.com]

**Sent:** Tuesday, August 18, 2009 9:27 AM

To: Chavez, Carl J, EMNRD

Cc: Schmaltz, Randy; Krakow, Bob

Subject: Request for Approval - Sump #37

Good Morning Carl,

Bloomfield Refinery conducted their annual underground sump testing during the week of June 8, 2009. Each sump was washed and cleaned using a vacuum truck and then visually inspected. Each sump was also hydrostatically tested by being filled with water and held for 60 minutes. All sumps passed the hydrostatic test and double-walled steel (DW Steel) sumps were also inspected through the leak detection port and no evidence of moisture was seen.

Visual inspection of Sump #37 – a DW steel sump – at Tank #35 indicated pitting and metal loss. Even though the sump passed the hydrostatic test and continues to pass the leak detection port inspection, Bloomfield Refinery management has opted to replace the sump (in kind) at the recommendation of the plant inspector before metal failure occurs. As you can see from the photo, the new sump is double-walled steel with an inspection port and should satisfy OCD requirements.

I am also sending an updated sump spreadsheet. I noticed that sump #37 was listed as concrete and Sump #39 was listed as DW Steel. The opposite is true. Sump #37 is DW Steel and Sump #39 is concrete. I apologize that we missed that typographical error until now.

As per Condition #11 of the August 12, 2005 Discharge Plan Approval Conditions, Bloomfield Refinery is seeking OCD approval to replace Water Draw Sump #37 in kind. Your prompt attention to this matter would be greatly appreciated.



Cindy Hurtado
Environmental Coordinator
Western Refining Southwest, Inc. - Bloomfield Refinery
cindy.hurtado@wnr.com
505-632-4161

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### Chavez, Carl J, EMNRD

From:

Schmaltz, Randy [Randy.Schmaltz@wnr.com]

Sent:

Thursday, July 10, 2008 3:37 PM

To:

Chavez, Carl J, EMNRD

Cc:

Hurtado, Cindy

Subject:

Bloomfield Underground line, Tanks, and Sumps IMR

Attachments: OCD-Underground Line, Sump and Tank Index (r1).xls; OCD-Inspection & Repair Schedule

for Underground lines, Sumps and Tanks (r1).xls

Carl,

Please find enclosed an electronic copy of Bloomfield's Underground line, Tanks, and Sumps IMR with the OCD requested changes.

I have provided an index which assigns a number to the individual components which should assist in identification and tracking, as well as the IMR.

I will also send you a CD containing both the index and the spreadsheet.

If you have any questions please contact me at (505) 632-4171.

Thanks Randy

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## **BLOOMFIELD REFINERY**

# **UNDERGROUND PROCESS AND WASTEWATER LINES - INDEX**

Description (Service)	B-600-500-296	Unloading line @ Tk. #18 and 19	Berm North of Tk. #35	Carbon Steel	6	Tank Farm	Naptha Unloading Line	43
Description (Service)   Unity   51ze   Material   Starting Location   End Location   Description (Service)   Unity   6   Carbon Steel   Paper Pump Station	D-700-500-140	To Tk. # 45 Inlet Nozzel	From P-706 Pump Discharge	Carbon Steel	4	Terminals	Ethanol Unloading Line	42
Location   Line   Construction   Description (Service)   Line   Construction   Line   Construction   Description (Service)   Line   Spain   State   Line	D-700-500-140	To P-707 & P-707A Pump Suction	From Tk. # 45 Outlet Nozzel	Carbon Steel	8	Terminals	Ethanol Pump Suction Line	41
Location   Location   Location   Line   Construction   Description (Service)   Line   Starting Location   Line   End Location   End Locatio	D-700-500-123	To Meter Spool @ Bay # 4	From F-703 Filter Piping	Carbon Steel	8	Terminals	Diesel To Bay # 4	40
Description (Service)   Localizon   Line   Construction   Description (Service)   Localizon   Line   Construction   Line   Lin	D-700-500-118	To Meter Spools @ Bays # 1,2 & 3	From F-704 Filter Piping	Carbon Steel	10	Terminals	( Old Unleaded Sales Line	39
Description (Service)   Location   Line   Construction   Description (Service)   Location   Line   Construction   Construction   Description (Service)   Location   Line   Construction   Construction   Description (Service)   Location   State   Description (Service)   Location   State   Description (Service)   Location   Line   Control State   Description (Service)   Location (Servic	D-700-500-118	To Meter Spools @ Bays # 1,2 & 3	From F-705 Filter Piping	Carbon Steel	10	Terminals	Premiun Sales Line	38
Location	D-700-500-118	To Meter Spools @ Bays # 3	From F-706 Filter Piping	Carbon Steel	6	Terminals	(Old Kerosene) To Bay # 3	37
Description (Service)   Unity and   Unity and   Description (Service)   Unity and   Unity and   Description (Service)   Unity 6   Cachon Seed   River Pump Station   North of Tr. #2 © Bridge	D-700-500-118	To Meter Spools @ Bays # 1&2	From F-706 Filter Piping	Carbon Steel	8	Terminals	#1 Diesel To Bays #1 & 2	36
Localtion   Loca	N/A	Naptha Fill Line To Tk. # 44	Manifold @ VRU Unit	Carbon Steel	4	Terminals	Naptha Fill/Rerun To Tk. #44	35
Description (Service)	N/A	Manifold @ VRU Unit	Transfer Pump @ Tk. # 44	Carbon Steel	4	Terminals	Naphta Feed To VRU Unit	34
Description (Service)	N/A	Manifold @ VRU Unit	Crude Line East Of Tk. # 21	Carbon Steel	4	Terminals	Naptha to VRU	33
Description (Service)	N/A	Filter Pad Area North Of Loading Pad	Pipe Rack West Of Tk.# 36	Carbon Steel	6	Tank Farm	Reforate from Tk.s # 3 & 4	32
Location   Line   Construction   Paint Raw Water Supply   Utility   6   Carbon Steel   Filter House   South of Bridge   Tix. #22   East and of East Fresh Wir. Pd.	N/A	DHT Option City	West of API Separator	Carbon Steel	8	Tank Farm	Premium Sales	31
Location   Location   Location   Line   Construction   Starting Location   Starting Location   End Location   End Location   Line   Construction   Starting Location   Starting Location   End Location	N/A	Area West Of Bullet Tk. # 12	Low Rack West Of Tk.# 25	Carbon Steel	6	Tank Farm	Isomerate/Naptha Line	30
Location   Location   Line   Construction   Description (Service)   Lest group   Size   Material   Starting Location   Starting Location   End Location	N/A	Out of Service	Area Northeast Of Tk. # 21	Carbon Steel	4	Terminals	Slop Line ToTk. # 22l	29
Location  Description (Service)  Line (Unit) and (Unit) Size	N/A	Filter Pad Area North Of Loading Pad	Pipe Rack Southeast of Tk. # 31	Carbon Steel	6	Terminals		28
Location   Line   Construction   Size   Material   Mat	N/A	Out Of Service	Pipe Rack Southeast of Tk. # 31	Carbon Steel	8	Terminals	JP-8 Sales Line	27
Location   Line   Construction   Barting Location   End Location	N/A	Area Northeast Of Tk. #21	Pipe Rack Southeast of Tk. # 31	Carbon Steel	2	Terminals	C-3 To Storage	26
Description (Service)   test group   Size   Material   Starting Location   End	N/A	Area Northeast Of Tk. # 21	Pipe Rack Southeast of Tk. # 31	Carbon Steel	2	Terminals	C-4 To Storage	25
Location   Line   Construction   Starting Location   Starting Location   End Lo	N/A	Area Northeast Of Tk. # 21	Pipe Rack Southeast of Tk. # 31	Carbon Steel	2	Terminals	Saturate To Storage	24
Description (Service) test group Size Material Size tining Location  Flant Raw Water Supply Utility 6 Carbon Steel River Pump Station North of Tx. #2 @ Birdge  Plant Raw Water Supply Utility 6 PVC South of Birdge @ Tx. #2  Plant Process Wirt. Flee Wirt. Utility 8 PVC Filter House @ South Side South of Birdge @ Tx. #2  Plant Process Wirt. Flee Wirt. Utility 8 PVC Filter House @ South Side South of Birdge @ Tx. #2  Plant Process Wirt. Flee Wirt. Utility 6 Carbon Steel South of Birdge @ Tx. #2  Plant Raw Wirt. Flee Wirt. Utility 16 Carbon Steel South of Birdge @ Tx. #2  Plant Process Wirt. Flee Wirt. Utility 16 Carbon Steel South of Birdge @ Tx. #2  Plant Raw Wirt. Flee Wirt. Utility 16 Carbon Steel Isolation Valve Box Filter House Pump Brock Wirt. Pd.  Plant Raw Wirt. Flee Wirt. Utility 16 Carbon Steel Isolation Valve Box Filter House Pump P-671  Effilient Wirt. Transfer Line Utility 6 PVC Effilient Production Ford Outlet Pump P-671  Effilient Wirt. Transfer Line Utility 6 PVC Effilient Production Ford Outlet Pump P-671  Effilient Wirt. Flee Wirt. Utility 7 Carbon Steel Isolation Valve Building North Evaporation Pond Outlet Pump P-671  Effilient Wirt. Flee Wirt. Utility 8 PVC Effilient Transfer Line Utility 8 PVC Effilient Transfer Line Utility 9 PVC Effilient Transfer Line Utility 9 PVC Effilient Transfer Line Utility 10 PVC Effilient Transfer Line Utility 10 PVC Effilient Transfer Line Pump Building Water Basin C-4 To Blend Pump P-671  Effilient Transfer Line Utility 10 PVC Effilient Transfer Line Pump Building Water Basin PvC PVC PRODUCT Efficient Wirt. Building Plad PVC PVC Effilient Transfer Line Pump Building Water Basin Product Steel Pump P-671  Effilient Wirt. Flee Wirt. PvC PVC PRODUCT Efficient Wirt. Building Plad Place Rack Southwest of Tx. # 31  Efficient Wirt. Pump Building Plad Lile Stig Tits. Place Rack Southwest of Tx. # 31  Efficient Wirt. Pump Building Plad Place Rack Southwest of Tx. # 31  Effilient Place Rack Southwest of Tx. # 31  Effilient Place Rack Southwest of Tx. # 31  Effilient Place Ra	N/A	Pipe Rack Southwest of Tk. # 31	Area Northeast Of Tk. # 21	Carbon Steel	2	Terminals	LPG Rerun Line	23
Location  Description (Service)  Location  (Unit) and Line Material  Starting Location  Flant Raw Water Supply  Utility  End Carbon Steel  Plant Raw Water Supply  Utility  End Carbon Steel  Plant Process Wit. Flee Wit.  Plant Process Wit. Free Wit.  Plant Process Wit. Free  Utility  Efficient Wit. Transfer Line  Utility  Efficient Wit. Pump Disch.  Efficient	N/A	Pipe Rack Southwest of Tk. # 31	Area Northeast Of Tk. # 21	Carbon Steel	3	Terminals	Poly Unit Feed Line	22
Location    Location   Line   Line   Line   Location   Line   Location   Line   Line   Line   Location   Line   Location   Line   Line   Line   Line   Line   Location   Line	N/A	Area Northeast Of Tk. # 21	Pipe Rack Southeast of Tk. # 31	Carbon Steel	3	Terminals	Poly Material To Storage	21
Location  Description (Service)  Location  End Location  End Location  End Location  Location  Plant Raw Water Supply  Valet Filter Back Flush  Water Filter House  Edilient Wit. Filter Plush  Filter House  Purp Filter Fad Area North Of Loading Pad  Water Filter Filter Fad Area North Of Loading Pad  Pup Filter Fad Area North Of Loading Pad  Pup Filter Fad Area North Of Loading Pad  Pup Filter Fad Area North Of Loading Pad  P	N/A	Rack Area North Of Tk. # 23	Pipe Rack Southeast of Tk. # 31	Carbon Steel	4	Terminals	Lite Straight Run Product	20
Location  Line  (Unit) and Line  (Unit) Size  Material  Starting Location  Starting Location  End Location  North of Tk: #2 @ Bridge  Plant Raw Water Supply  Utility  6 PVC  Plant Process Wir.Fire Wir.  Utility  6 PVC  Plant Process Wir.Fire Wir.  Utility  6 Carbon Steel  Plant Raw Wir. Pump Suct.  Utility  6 Carbon Steel  Plant Raw Wir. Pump Duct.  Utility  6 PVC  Plant Raw Wir. Pump Duct.  Utility  6 Carbon Steel  Efflient Wir. Trans. Pump Utility  6 PVC  Efflient Wir. Trans. Pump Duct.  Utility  6 PVC  Efflient Wir. Pump Disch.  Utility  6 PVC  Efflient Trans. Pump Disch.  Utility  6 PVC  Efflient Trans. Pump Disch.  Utility  6 PVC  Efflient Trans. Pump Disch.  Injection Well Recir. Line  Utility  6 PVC  Efflient Transe Processing Skid  River Pump Disch.  Utility  6 PVC  Efflient Transe Processing Skid  River Pump Disch.  North Evaporation Pond  North Evaporation Pond	N/A	Filter Pad Area North Of Loading Pad	Pipe Rack Southeast of Tk. # 31	Carbon Steel	12	Terminals	( DEAD) Out Of Service	19
Description (Service)         Location (Unit) and Line (Unit)	N/A	Filter Pad Area North Of Loading Pad	Rack Southeast of	Carbon Steel	12	Terminals	Lite Natural Line	18
Description (Service)         Location test group         Line Location         Construction         Starting Location         End Location           Plant Raw Water Supply         Utility         6         Carbon Steel         River Pump Station         North of Tk: #2 @ Bridge           Plant Raw Water Supply         Utility         6         PVC         Filter House @ South Side         East end of East Fresh Wtr. Pd.           Plant Process Wtr./Fire Wtr.         Utility         8         PVC         Filter House @ South Side         East end of East Fresh Wtr. Pd.           Plant Process Wtr./Fire Wtr.         Utility         8         Carbon Steel         South of Bridge @ Tk. #2         East end of East Fresh Wtr. Pd.           Plant Process Wtr./Fire Wtr.         Utility         8         Carbon Steel         South of Bridge @ Tk. #2         Tk. #2 Fresh Wtr. Pd.           Plant Raw Wtr./Fire Wtr.         Utility         6         Carbon Steel         South of Bridge @ Tk. #2         Tk. #2 Fresh Wtr. Pd.           Plant Raw Wtr./Fire Wtr.         Utility         6         Carbon Steel         South of Bridge @ Tk. #2         Tk. #2 Fresh Wtr. Pd.           Plant Raw Wtr. Pring Surface         Utility         6         Carbon Steel         Tk. #2 Pmp House Frie House         North Evaporation Pond Outlet           Effilient Wtr. Transfer Line	N/A	Filter Pad Area North Of Loading Pad	Pipe Rack Southeast of Tk. #31	Carbon Steel	12	Terminals	Diesel Sales Line	17
Location Description (Service) Location Line Description (Service) Location Line Description (Service) Location Line Description (Service) Location  Location  End Location End Location  End Location End Location  End Location  End Location  End Location  End Location  End Location  End Location  End Location  End Location  North of Tk: #2 @ Bridge  Plant Process Wtr. Flee Duility End PvC Duility End PvC Enter House @ South Side End PvC Enter House @ South Side End Fresh Wtr. Pd. Utility End PvC Enter House @ South Side End Fresh Wtr. Pd. Utility End PvC Enter House @ South Side End Fresh Wtr. Pd. Utility End PvC Enter House @ South Side End Fresh Wtr. Pd. Utility End PvC Enter House @ South Side End PvC Enter House Enter House Plant Process Wtr. Flee Utility Enter House Enter	N/A	Pipe Rack Southwest of Tk. #31	Pipe Rack East Of LPG Stg Tks.	Carbon Steel	4	Terminals	C-4 To Blend	16
Location    Description (Service)   Line (Unit) and Line (Unit	N/A	Pipe Rack Southwest of Tk. # 31	Pipe Rack East Of LPG Stg Tks.	Carbon Steel	4	Utility	Condensate Return Header	15
Location  Description (Service)  Plant Raw Water Supply  Plant Raw Water Supply  Plant Raw Water Supply  Plant Raw Water Supply  Plant Process Wtr. Fire Wtr.  Plant Process Wtr. Fire Wtr.  Plant Process Wtr. Fire Wtr.  Plant Process Wtr. Feed  Plant Process Wtr. Feed  Plant Raw Wtr. Pump Suct.  Plant Raw Wtr. Pump Suct.  Plant Raw Wtr. Pump Suct.  Plant Raw Wtr. Pump Disch.  Efflient Wtr. Transfer Line  Plant Process Wtr. Feed  Utility  6 PVC  Carbon Steel  Carbon Steel  Filter House  South of Bridge @ Tk. #2  Filter House @ South Side  South of Bridge @ Tk. #2  Filter House @ South Side  Efflient Wtr. Pump Disch.  Line  Carbon Steel  Filter House  South of Bridge @ Tk. #2  Tk. #2 / Fire Pump House  Filter House  South of Bridge @ Tk. #2  Tk. #2 / Fire Pump House  Filter House  South of Bridge @ Tk. #2  Tk. #2 / Fire Pump House  Filter House  Filter House  South of Bridge @ Tk. #2  Tk. #2 / Fire Pump House  Filter House  Filter House  South of Bridge @ Tk. #2  Tk. #2 / Fire Pump House  Filter House  Found Outlet Pump P-616  North Evaporation Pond  Efflient Trans. Pump Disch.  Injection Well Building  North Evaporation Pond  Filter House  Filter House  Filter House  Filter House  Filter House  Filter House  Found Outlet  Filter House  Found Outlet  Filter House  Found Outlet  Filter House  Found Outlet  Filter House  Found Ou	N/A	Pipe Rack East Of LPG Stg. Tks.	Pipe Rack Southeast of Tk. # 31	Carbon Steel	6	Utility	Steam Header at Terminals	14
Location Description (Service) Line Construction  Construc	N/A	Pipe Rack Southwest of Tk. #31	Pipe Rack East Of LPG Stg Tks.	Carbon Steel	12	Terminals	Crude Transfer Line	13
Location    Construction   Construct	D-500-800-043	River Pump Building Water Basin	River Terrace Processing Skid	PVC	2	Utility	River Terrace Transfer Line	12
Description (Service)         Location (Unit) and Line (Unit)	D-500-800-031	North Evaporation Pond	Injection Well Building	PVC	6	Utility	Injection Well Recir. Line	11
Description (Service)         Location (Unit) and Plant Raw Water Supply         Line Validity         Construction (Service)         Size Material         Starting Location         End Location           Plant Raw Water Supply         Utility         6         Carbon Steel         River Pump Station         North of Tk-#2 @ Bridge           Plant Raw Water Supply         Utility         6         PVC         South of Bridge @ Tk. #2         East end of East Fresh Wtr. Pd.           Water Filter Back Flush         Utility         6         PVC         Filter House @ South Side         East end of East Fresh Wtr. Pd.           Plant Process Wtr. Fire Wtr.         Utility         8         Carbon Steel         South of Bridge @ Tk. #2         Tk. #2 / Fire Pump House           Plant Process Wtr. Feed         Utility         6         Carbon Steel         South of Bridge @ Tk. #2         Tk. #2 / Fire Pump House           Plant Raw Wtr. Pump Suct.         Utility         6         Carbon Steel         Tk. #2 Pump House Primp P-616         Valve Box @ West of #1 Cooling Twr.           Plant Raw Wtr. Transfer Line         Utility         6         Carbon Steel         Isolation Valve Box Filter House         Pump Suction in Filter House           Effilent Wtr. Transfer Line         Utility         6         PVC         Effilent Pond Outlet         Effilent Transfer Pump P-671	D-500-800-031	Injection Well Building	Effilent Trans. Pump Disch.	PVC	6	Utility	Effilent Wtr. Pump Disch.	10
Description (Service)       Location (Unit) and Description (Service)       Line (Unit) and L	D-500-800-031	Effilent Transfer Pump P-671	North Evaporation Pond Outlet	PVC	6	Utility	Effilent Wtr. Trans. Pump	9
Location  (Unit) and Line Construction  Plant Raw Water Supply Plant Process Wtr. Fire Wtr. Plant Process Wtr. Feed Plant Raw Wtr. Pump Suct. Plant Raw Wtr. Pump Suct. Utility 16 Carbon Steel Plant Raw Wtr. Pump Suct. Plant Raw Wtr. Pump Suct. Plant Raw Wtr. Pump Suct. Utility 16 Carbon Steel Carbon Steel Carbon Steel Carbon Steel Carbon Steel South of Bridge @ Tk. #2 Filter House @ South Side Filter House @ South of Bridge @ Tk. #2 Filter House @ South of Bridge @ Tk. #2 Filter House @ South of Bridge @ Tk. #2 Filter House @ South of Bridge @ Tk. #2 Filter House @ South of Bridge @ Tk. #2 Filter House @ South of Bridge @ Tk. #2 Filter House @ South of Bridge @ Tk. #2 Filter House @ South of Bridge @ Tk. #2 Filter House @ South of Bridge @ Tk. #2 Filter House Filter House Filter House Fump House Filter House Fump Suction in Filter House Fump Suction in Filter House	D-500-800-031	North Evaporation Pond	Effilent Pond Outlet Pump P-616	PVC	6	Utility	Effilent Wtr. Transfer Line	8
Location  (Unit) and Line Construction  Plant Raw Water Supply Plant Process Wtr. Fire Wtr. Plant Process Wtr. Feed Utility Construction  Line Construction	D-500-800-031	Pump Suction in Filter House	Isolation Valve Box Filter House	Carbon Steel	16	Utility	Plant Raw Wtr. Pump Suct.	7
Location  (Unit) and Line (Unit) and Line (Unit) and Construction  Plant Raw Water Supply Utility 6 Carbon Steel Plant Process Wtr./Fire Wtr.  Plant Process Wtr./Fire Wtr.  Utility 8 Carbon Steel South of Bridge @ Tk. #2  Plant Process Wtr./Fire Wtr.  Utility 8 Carbon Steel South of Bridge @ Tk. #2  Plant Process Wtr./Fire Wtr.  Utility 8 Carbon Steel South of Bridge @ Tk. #2  Filter House @ South Side South of Bridge @ Tk. #2  Filter House @ South of Bridge @ Tk. #2  Filter House @ South Side South of Bridge @ Tk. #2  Tk. #2 / Fire Pump House	D-500-800-027	Valve Box @ West of #1 Cooling Twr.	Tk.#2 Pump House/Fire House	Carbon Steel	6	Utility	Plant Process Wtr. Feed	6
Location (Unit) and Line Construction  Plant Raw Water Supply Water Filter Back Flush Plant Process Wtr./Fire Wtr. Utility  Line Construction  Construction  Starting Location  North of Tk. #2 @ Bridge  River Pump Station North of Bridge @ Tk. #2  South of Bridge @ Tk. #2  Filter House @ South Side South of Bridge @ Tk. #2  Filter House @ South Side South of Bridge @ Tk. #2  Filter House @ South Side South of Bridge @ Tk. #2	D-500-800-027	Tk. #2 / Fire Pump House	South of Bridge @ Tk. #2	Carbon Steel	8	Utility	Plant Process Wtr./Fire Wtr.	5
Location (Unit) and Line Construction  Plant Raw Water Supply Utility 6 PVC South of Bridge Tk. #2 East end of East Fresh Wtr. Pd.  Water Filter Back Flush Utility 6 PVC Filter House @ South Side East end of East Fresh Wtr. Pd.	D-500-800-027	South of Bridge @ Tk. #2	Filter House @ South Side	PVC	. 8	Utility	Plant Process Wtr./Fire Wtr.	4
Location (Unit) and Line Construction  Description (Service) test group Size Material Starting Location End Location  Plant Raw Water Supply Utility 6 Carbon Steel River Pump Station North of Tk: #2 @ Bridge  Plant Raw Water Supply Utility 6 PVC South of Bridge @ Tk. #2  East end of East Fresh Wtr. Pd.	D-500-800-027	East end of East Fresh Wtr. Pd.	Filter House @ South Side	PVC	6	Utility	Water Filter Back Flush	3
Location (Unit) and Line Construction  Description (Service) test group Size Material Starting Location End Location  Plant Raw Water Supply Utility 6 Carbon Steel River Pump Station North of Tk:-#2 @ Bridge	D-500-800-027	East end of East Fresh Wtr. Pd.		PVC	6	Utility	Plant Raw Water Supply	2
Location (Unit) and Line Construction Description (Service) test group Size Material Starting Location End Location	D-500-800-027	North of Tk #2 @ Bridge	River Pump Station	Carbon Steel	6	Utility	Plant Raw Water Supply	<u>-1</u>
(Unit) and Line Construction	REFERENCE	End Location	Starting Location		Size	test group	Description (Service)	Number
Location	DRAWING	1	? : :		Line	(Unit) and		Line
						Location		

## **BLOOMFIELD REFINERY**

# **UNDERGROUND PROCESS AND WASTEWATER LINES - INDEX**

	roly and DHT units	Sullerox	Calboll Steel	dileiox 1024	DU1/Sulleiox	Sewel Collection Marillold	Į,
	To Inlet Manifold @ API Basin Area	From Sewer Box # 17		T	로 모 모 모 로	Sewer Transfer Line	86
D-500-500-097	To Sewer Box # 17 @ S.E. Corner of Poly	From Sewer Box # 18 @ DHT Unit		10	DHT	Sewer Transfer Line	85
D-500-500-126	To Inlet Bay @ API	Area In & Around Poly Unit		ly 6>2	Poly	Sewer Collection Manifold	84
D-500-500-122	To Treater Sewer Box At South Side Of Unit	Area In & Around Treater Unit			Treater	Sewer Collection Manifold	83
D-500-500-105	To 20" Inlet @ API	From Main Sewer Box @ C-204		ater 10	Treater	Sewer Transfer Line	82
D-500-500-166	To (New) MainSewer Box S.E. Of C-204	From Treater Main Sewer Box # 4		ater 10	Treater	Sewer Transfer Line	81
D-201-500-001	To Gas Con. Unit Sewer Collection Manhole	Area @ & Around Gas Con. Unit			Gas Con	Sewer Collection Manifold	80
D-500-500-106	To 20" Inlet @ API	From FCC Sewer Box M.H. # 2			FCC	Sewer Transfer Line	79
D-500-500-102	To FCC Sewer Box Manhole # 2 (Roadway)	From FCC Sewer Box M.H. # 1		C 10	FCC	Sewer Transfer Line	78
D-500-500-102	To FCC Sewer Box Manhole # 1 (Roadway)	Gas Con Unit Collection M.H.		Con. 6	Gas Con.	Sewer Collect./Transfer Line	77
N/A	To Sewer Transfer Line From FCC Process	P-224 Pump & Cat Surface Drain			FCC	Sewer Collection Manifold	76
D-500-500-160	To Sewer Transfer Line( Box # 1 to API)	Area Drains @ Air Building			Air Building	Sewer Collection Manifold	75
D-600-500-127	To Observation Access Can (Precipitator)	Area @ Burner Fuel Loading		r Fuel 6>3	Burner Fue	Sewer Collection Manifold	74
D-500-500-134	To Northwest Side Of Sewer Box # 3	& Around Mair		ide 8>4	Crude	Sewer Collection Manifold	73
D-500-500-124	To North Side Of Sewer Box #8	Area @ & Around Heavy Oil Exch.		de 8>4	Crude	Sewer Collection Manifold	72
D-500-500-124	To Northwest Side Of Sewer Box # 8	Area @ & Around T-123 Tower		de 8>4	Crude	Sewer Collection Manifold	71
D-500-500-124	To North Side Of Sewer Box # 9	Area @ & Around P101 Charge P.		de 8>4	Crude	Sewer Collection Manifold	70
D-500-500-124	To West Side Of Sewer Box # 9	Area @ & Around T-101 Tower		ide 8>4	Crude	Sewer Collection Manifold	69
D-500-500-124	To Observation Access Can (Desalter)	Area @ & Around V101 Desalter			Desalter	Sewer Collection Manifold	68
D-500-500-098	To Observation Access Can	Area Along East Side of Reformer		rmer 10>4	Reformer	Sewer Collection Manifold	67
D-500-500-098	To Observation Access Can	Area Thru Reformer Pump Row		rmer 10>4	Reformer	Sewer Collection Manifold	66
D-500-500-124	To East Side Of Sewer Box # 10	Area @ V-101A Desalter		de 6	Crude	Sewer Collection Manifold	65
D-500-500-124	To Northwest Of Sewer Box # 10	Area @ & Around E-106A & B		de 8>4	Crude	Sewer Collection Manifold	64
D-500-500-124	To North Side Of Sewer Box # 11	Area @ & Around Crude Twr.		ide 10>4	Crude	Sewer Collection Manifold	63
D-500-500-124	To North Side of Sewer Box # 12	Area East Side of # 4 Boiler		ide 8>4	Crude	Sewer Collection Manifold	62
D-500-500-106	To Inlet @ API Seperator	From Main Sewer Box # 1	_	1	Crude	Sewer Transfer Line	61
D-500-500-134	To Main Sewer Box #1	From Observation Access Can			Crude	Sewer Transfer Line	60
D-500-500-134	To Observation Access Can (Precipitator)			ide 14	Crude	Sewer Transfer Line	59
D-500-500-134	To Main Sewer Box #3	From Main Sewer Box # 7			Crude	Sewer Transfer Line	58
D-500-500-134	To Main Sewer Box # 7	From Main Sewer Box # 8		<u>de</u> 12	Crude	Sewer Transfer Line	57
D-500-500-134	To Main Sewer Box #8	From Main Sewer Box # 9			Crude	Sewer Transfer Line	56
D-500-500-134	To Main Sewer Box #3	From Observation Access Can			Crude	Sewer Transfer Line	55
D-500-500-134	To Observation Access Can (Desalter)	From Main Sewer Box # 5			Crude	Sewer Transfer Line	54
D-500-500-134	To Main Sewer Box # 5	From Observation Access Can		_	Crude/Reforme	Sewer Transfer Line	53
D-500-500-134	To Observation Access Can	From Observation Access Can			Crude	Sewer Transfer Line	52
D-500-500-134	To Observation Access Can	From Main Sewer Box # 11		de 10	Crude	Sewer Transfer Line	51
D-500-500-134	To Main Sewer Box # 11				Crude	Sewer Transfer Line	50
D-201-500-123	To # 2 Cooling Tower Water Inlet	From South End of FCC Unit		ity 20	Utility	Cooling Water Return Line	49
D-201-500-123	To S. End of FCC Unit @ Twr. 207 Area	From # 2 Cooling Tower Pumps		_	Utility	Cooling Water Supply Line	48
D-500-500-011	To #1 Cooling Tower Water Inlet	From Rack Area @ Reformer		ity 12	Utility	Cooling Water Return Line	47
D-500-500-011	To Rack Area @ Reformer Unit	From # 1 Cooling Tower Pumps	<u> </u>		Utility	Cooling Water Supply Line	46
B-600-500-236	To North Pipe Rack Feed To Units	From P-607A Pump Discharge		Farm 4	Tank Farm	Naptha Feed Line to Unit	45
B-600-500-232	To Tk. # 35 Fill Nozzle	Line From North Pipe Rack Area	Carbon Steel	Farm 3	Tank Farm	Naptha Rundown To Tk.# 35	44
REFERENCE	End Location	Starting Location	ze Material	roup Size	test group	Description (Service)	Number
DRAWING			Construction		(Unit) and		Line
				tion	Location		

## **BLOOMFIELD REFINERY**

# UNDERGROUND PROCESS AND WASTEWATER LINES - INDEX

	88 Crude Transfer Line	Line Number Description (Service)
Taminala	Terminals	Location (Unit) and Line test group Size
3	12	Line Size
Carbon Steel	Carbon Steel	Construction Material
Pine Back South Of Crude Unloading	Pipe Rack East Of LPG Stg Tks.	Starting Location
Berm South of Tank # 43	Pipe Rack South Of Crude Unloading	End Location
Z/A	N/A	DRAWING REFERENCE

