GW - ___001___

ENFORCEMENT

DATE:

2008 - Present

Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD
Sent: Thursday, June 02, 2016 11:06 AM
To: 'Philana Thompson'
Cc: Schmaltz, Randy (Randy.Schmaltz@wnr.com); Griswold, Jim, EMNRD; Allen.Hains@wnr.com; Garye Higgins; Jeff Davis; Ryan Davis; Shacie Murray; 'loriking@cbfuel.com'
Subject: RE: Western Refining SW, Inc. Bloomfield Bulk Crude Oil & Fuel Transportation Terminal (GW-001) Transporter: D-Trix Used for Disposal at Agua Moss, LLC

Ladies and Gentlemen:

The New Mexico Oil Conservation Division (OCD) is in receipt of the "Detrick's" C-133 Transporter Form and has contacted Mr. Cummins for updated information.

OCD is working to add Detrick's information into the OCD C-133 List.

Sorry for any inconvenience. Thank you for the prompt response.

Carl J. Chavez, CHMM
Environmental Engineer
Oil Conservation Division- Environmental Bureau
1220 South St. Francis Drive
Santa Fe, New Mexico 87505
Phone: (505) 476-3490
Main Phone: (505) 476-3440
Fax: (505) 476-3462
E-mail: CarlJ.Chavez@state.nm.us
Website: www.emnrd.state.nm.us/ocd
Why not prevent pollution, minimize waste, reduce operation costs, and move forward with the rest of the Nation? To see how, go to "Publications" and "Pollution Prevention" on the OCD Website.

From: Philana Thompson [mailto:pthompson@merrion.bz]
Sent: Thursday, June 02, 2016 10:47 AM
To: Chavez, Carl J, EMNRD <CarlJ.Chavez@state.nm.us>
Cc: Schmaltz, Randy (Randy.Schmaltz@wnr.com) <Randy.Schmaltz@wnr.com>; Griswold, Jim, EMNRD <Jim.Griswold@state.nm.us>; Allen.Hains@wnr.com; Garye Higgins <aguamossghiggins@hotmail.com>; Jeff Davis <jdaguamoss@hotmail.com>; Ryan Davis <RDavis@merrion.bz>; Shacie Murray <shacie@merrion.bz>
Subject: Re: Western Refining SW, Inc. Bloomfield Bulk Crude Oil & Fuel Transportation Terminal (GW-001) Transporter: D-Trix Used for Disposal at Agua Moss, LLC

Carl,
Please see the attached approved C133, I believe the confusion lies with the use of D-Trix (Nickname) instead of the legal name on the documents "Detrick Services". I will let Agua Moss know to use the correct legal name as listed on the C133.

Thank you,
Philana

On Thu, Jun 2, 2016 at 8:53 AM, Chavez, Carl J, EMNRD <CarlJ.Chavez@state.nm.us> wrote:

Randy:

Good morning. The New Mexico Oil Conservation Division (OCD) is currently auditing Agua Moss, LLC's (UICI-005) waste manifests and notices that the Western "Bloomfield Terminal" is utilizing a transporter by the name of "D-Trix" that does not appear to be permitted (C-133 Transporter List) by OCD to haul oilfield fluids in New Mexico per 19.15.34 et seq. NMAC.

In addition, the manifests only list the name "D-Trix" as the transporter who does not appear to be a licensed transporter at all. Please provide contact information for "D-Trix" to OCD within 10 business days of the date of this message or by COB on Thursday, June 16th. Also, please verify that "D-Trix" is permitted by OCD or immediately discontinue transportation services utilizing "D-Trix" and utilize an OCD Permitted C-133 Transporter from now on.

Thank you.

Carl J. Chavez, CHMM

Environmental Engineer

Oil Conservation Division- Environmental Bureau

1220 South St. Francis Drive

Santa Fe, New Mexico 87505

Phone: (505) 476-3490

Main Phone: (505) 476-3440

Fax: (505) 476-3462

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

Website: www.emnrd.state.nm.us/ocd

Why not prevent pollution, minimize waste, reduce operation costs, and move forward with the rest of the Nation? To see how, go to "Publications" and "Pollution Prevention" on the OCD Website.

--
Philana Thompson
Regulatory Compliance
Merrion Oil & Gas Corp
cell 505-486-1171
fax 505-324-5350

Submit a single copy to
Santa Fe Office

State of New Mexico
Energy Minerals and Natural Resources

Form C-133
Revised May 27, 2007

RECEIVED
2007 OCT 22 PM 2 28

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

AUTHORIZATION TO MOVE PRODUCED WATER

Transporter Name: Detrick Services

Address	Office Location (If different)
PO Box 655	115 Michigan Ave.
Bloomfield, NM 87413	Bloomfield NM 87413

Phone Numbers(s): (505)486-4914 or (505) 320-8169

State Corporation Commission Permit No.: 2943199

**Please attach a copy of the New Mexico Public Regulation Commission (PRC) Warrant for Transportation Services, if a corporation name or LLC has not been established with the PRC or a partnership has not been established with the New Mexico Secretary of State Office. In accordance with Section 51 of 19.6.2 NMAC, "the division may deny approval of a form C-133 if:*

(1) the applicant is a corporation or limited liability company, and is not registered with the public regulation commission to do business in New Mexico;

(2) the applicant is a limited partnership, and is not registered with the New Mexico secretary of state to do business in New Mexico;

(3) the applicant does not possess a carrier permit under the single state registration system the public regulation commission administers, if it is required to have such a permit under applicable statutes or rules; or

(4) the applicant or an officer, director or partner in the applicant, or a person with an interest in the applicant exceeding 25 percent, is or was within the past five years an officer, director, partner or person with an interest exceeding 25 percent in another entity that possesses or has possessed an approved form C-133 that has been cancelled or suspended, has a history of violating division rules or other state or federal environmental laws; is subject to a commission or division order, issued after notice and hearing, finding such entity to be in violation of an order requiring corrective action; or has a penalty assessment for violation of division or commission rules or orders that is unpaid more than 70 days after issuance of the order assessing the penalty."

NOTE: It is the responsibility of each holder of an approved Form C-133 to familiarize its personnel with the content of Sections 51 and 52 of 19.15.2 NMAC and to assure operations in compliance therewith. Failure to move and dispose of produced water in accordance with Sections 51 and 52 of 19.15.2 NMAC are cause for cancellation of Form C-133 and the authority to move produced water.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

Signature: [signature] Date: 10-16-07

Printed Name: Timothy D. Cummins Title: Owner

E-mail Address: king1962@qwest.net

(This space for State Use)

Approved by: [signature] Title: EBC

Date: 10/22/07

Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD
Sent: Thursday, June 02, 2016 8:50 AM
To: Schmaltz, Randy (Randy.Schmaltz@wnr.com)
Cc: Griswold, Jim, EMNRD; Allen.Hains@wnr.com
Subject: Western Refining SW, Inc. Bloomfield Bulk Crude Oil & Fuel Transportation Terminal (GW-001) Transporter: D-Trix Used for Disposal at Agua Moss, LLC

Randy:

Good morning. The New Mexico Oil Conservation Division (OCD) is currently auditing Agua Moss, LLC's (UICI-005) waste manifests and notices that the Western "Bloomfield Terminal" is utilizing a transporter by the name of "D-Trix" that does not appear to be permitted (C-133 Transporter List) by OCD to haul oilfield fluids in New Mexico per 19.15.34 et seq. NMAC.

In addition, the manifests only list the name "D-Trix" as the transporter who does not appear to be a licensed transporter at all. Please provide contact information for "D-Trix" to OCD within 10 business days of the date of this message or by COB on Thursday, June 16th. Also, please verify that "D-Trix" is permitted by OCD or immediately discontinue transportation services utilizing "D-Trix" and utilize an OCD Permitted C-133 Transporter from now on.

Thank you.

Carl J. Chavez, CHMM
Environmental Engineer
Oil Conservation Division- Environmental Bureau
1220 South St. Francis Drive
Santa Fe, New Mexico 87505
Phone: (505) 476-3490
Main Phone: (505) 476-3440
Fax: (505) 476-3462
E-mail: CarlJ.Chavez@state.nm.us
Website: www.emnrd.state.nm.us/ocd
Why not prevent pollution, minimize waste, reduce operation costs, and move forward with the rest of the Nation? To see how, go to "Publications" and "Pollution Prevention" on the OCD Website.

Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD
Sent: Wednesday, October 24, 2012 9:19 AM
To: 'Robinson, Kelly'
Cc: Tsinnajinnie, Leona, NMENV; VonGonten, Glenn, EMNRD
Subject: RE: Tank 35 Leak Detection System Release Notification - Western Refining Southwest, Inc. - Bloomfield Refinery

Kelly:

OCD is allowing a 90-day period (on/or before 1/16/2013) to investigate and resolve (Final C-141 with attached corrective action(s)) the Tank 35 leak.

OCD requires tank repairs to comply with applicable API and/or ASTM Methods. Also, please be advised of the OCD Discharge Permit condition(s) related to retrofitting old tanks to current permit requirements. As the OCD discussed with Western on 10/16 the tank inspection and tracking system in place for the refinery and should reflect the inspection and repair work.

Please contact me if you have questions. Thank you.

Carl J. Chavez, CHMM
New Mexico Energy, Minerals & Natural Resources Department
Oil Conservation Division, Environmental Bureau
1220 South St. Francis Drive, Santa Fe, New Mexico 87505
Office: (505) 476-3490
E-mail: CarlJ.Chavez@State.NM.US
Website: http://www.emnrd.state.nm.us/ocd/
"Why Not Prevent Pollution; Minimize Waste; Reduce the Cost of Operations; & Move Forward With the Rest of the Nation?" To see how, please go to: "Pollution Prevention & Waste Minimization" at
http://www.emnrd.state.nm.us/ocd/environmental.htm#environmental

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From: Robinson, Kelly [mailto:Kelly.Robinson@wnr.com]
Sent: Thursday, October 18, 2012 11:22 AM
To: Chavez, Carl J, EMNRD
Subject: RE: Tank 35 Leak Detection System Release Notification - Western Refining Southwest, Inc. - Bloomfield Refinery

Thank you, Sir!

I will be in-touch with up-dates as information and scheduling becomes available.
Have a great day!

Kelly R. Robinson
Environmental Supervisor

Western Refining Southwest, Inc.
111 County Road 4990
Bloomfield, NM87413

(o) 505-632-4166
(c) 505-801-5616
(f) 505-632-4024

(e) kelly.robinson@wnr.com

From: Chavez, Carl J, EMNRD [mailto:CarlJ.Chavez@state.nm.us]
Sent: Thursday, October 18, 2012 9:16 AM
To: Robinson, Kelly
Subject: RE: Tank 35 Leak Detection System Release Notification - Western Refining Southwest, Inc. - Bloomfield Refinery

Kelly:

Received. Thank you.

Carl J. Chavez, CHMM
New Mexico Energy, Minerals & Natural Resources Department
Oil Conservation Division, Environmental Bureau
1220 South St. Francis Drive, Santa Fe, New Mexico 87505
Office: (505) 476-3490
E-mail: CarlJ.Chavez@State.NM.US
Website: http://www.emnrd.state.nm.us/ocd/
"Why Not Prevent Pollution; Minimize Waste; Reduce the Cost of Operations; & Move Forward With the Rest of the Nation?" To see how, please go to: "Pollution Prevention & Waste Minimization" at
http://www.emnrd.state.nm.us/ocd/environmental.htm#environmental

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From: Robinson, Kelly [mailto:Kelly.Robinson@wnr.com]
Sent: Wednesday, October 17, 2012 12:14 PM
To: Chavez, Carl J, EMNRD
Cc: Cobrain, Dave, NMENV; Tsinnajinnie, Leona, NMENV; Schmaltz, Randy; Weaver, Ron
Subject: Tank 35 Leak Detection System Release Notification - Western Refining Southwest, Inc. - Bloomfield Refinery

Good Morning Carl,

I appreciated you taking the time to talk with Randy and I yesterday regarding the issue at the Bloomfield Refinery pertaining to the leak detection system at Tank 35. As we discussed during our conference call with you yesterday morning, crude oil was found dripping from one area of the leak detection system at Tank 35 on Monday morning (October 15, 2012). Western has implemented procedures that include capturing the fluids from the leak detection system and transporting those fluids to the on-site wastewater treatment system. In addition, we have minimized the release of oil from the leak detection system by adding a layer of fresh water to the oil tank. The addition of water keeps the oil from being in-contact with the tank floor, and thus impedes further oil from dripping through the Tank's leak detection system.

As we indicated during our earlier conversation with you, we estimate the leak rate to be approximately one quart per hour. Based on this rate, we are collecting approximately 6 gallons per day from the leak detection system. Based on this rate, the amount released through the leak detection system is currently less than the State reportable amount of 5 barrels. However, pursuant to Condition 9 of the facility's Discharge Permit (GW-001), we wanted to inform OCD that we suspect there is a leak at Tank 35 and are working expediently to correct the situation.

As you requested, attached is an initial C-141 Report that documents this event based on the information we have been able to obtain thus far. We do not yet have a set schedule as to when we will be able to completely remove Tank 35 from service. Operation of this Tank at this time is necessary due to the high crude storage demand and until such time that our Gallup Refinery has returned to full operation following their recent maintenance turnaround activities. Western's priority is to remove Tank 35 from service as quickly as possible so as to be able to inspect the tank and make any necessary repairs. Once a schedule is set to accomplish this, Western will provide OCD with that schedule.

We appreciate your time! If there are any questions, please don't hesitate to contact either Randy or I at your convenience.

Sincerely,

Kelly R. Robinson
Environmental Supervisor

Western Refining Southwest, Inc.
111 County Road 4990
Bloomfield, NM87413

(o) 505-632-4166
(c) 505-801-5616
(f) 505-632-4024
(e) kelly.robinson@wnr.com

Western Refining

LOGISTICS

WNR LISTED NYSE

RECEIVED OCD

2012 APR 26 A 11: 13

April 25, 2011

John E. Kieling, Acting Bureau Chief
New Mexico Environment Department
Hazardous Waste Bureau
2905 Rodeo Park Drive East, Bldg 1
Santa Fe, NM 87505

Certified Mail #: 7009 2250 0002 3833 5070 (delivery to NMED-HWB)
Certified Mail #: 7010 1870 0002 6760 0047 (delivery to OCD)

Re: Giant Refining Company, Bloomfield Refinery Order No. HWB 07-34 (CO)
Background Concentrations Investigation Report Extension Request
EPA ID#: NMD089416416

Dear Mr. Kieling:

Western Refining Southwest, Inc. – Bloomfield Refinery (Western) is currently working to finalize the Background Concentrations Investigation Report for field activities conducted earlier this year. However, due to a delay in receipt of survey information and analytical results that provide critical information in completing the Investigation Report, Western respectfully requests a 60-day deadline extension for the submittal of the Soils Background Investigation Report. This additional time period will allow Western to fully evaluate and incorporate the most recent analytical and survey data received, and will also allow inclusion of analytical results from groundwater samples collected at the newly installed background wells during the most recent groundwater monitoring event.

If you have any questions or would like to discuss this request in more details, please feel free to contact me at (505) 632-4171.

Sincerely,

James R. Schmaltz
Health, Safety, Environmental, & Regulatory Director
Western Refining Southwest, Inc. - Bloomfield Refinery

cc: Dave Cobrain – NMED HWB
Leona Tsinnajinnie – NMED HWB
Carl Chavez – NMOCD
Allen Hains – Western Refining El Paso
Scott Crouch – RPS Austin

Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD
Sent: Tuesday, June 02, 2009 9:01 AM
To: 'Todd.Doyle@wnr.com'
Cc: Schmaltz, Randy
Subject: OCD Stipulated Final Order NM-OCD 2006-100 Tank Inspection Schedule Request Change (TKs#12 & 18)

Mr. Doyle:

The New Mexico Oil Conservation Division hereby approves the schedule change under the condition that you update the tank inspection schedule to reflect the new deadlines as the basis appears to be legitimate.

Tk#12 on or before September 1, 2010
Tk#18 on or before July 1, 2010

Please contact me if you have questions. 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: http://www.emnrd.state.nm.us/ocd/index.htm
(Pollution Prevention Guidance is under "Publications")

CERTIFIED MAIL # 7007 0220 0004 0187 0763

May 18, 2009

Mr. Carl Chavez
New Mexico Oil Conservation Division
1220 S. Saint Francis Drive
Santa Fe, New Mexico 87505

Re: Western Refining Southwest, Inc. Bloomfield Refinery (fka.Giant Bloomfield Refinery) – OCD Stipulated Final Order, NM-OCD 2006-100

Dear Mr. Chavez:

As part of the Stipulated Final Order NM-OCD 2006-100, settlement signed March 1, 2006 Western agreed to a tank inspection schedule. Western has adhered to this schedule. Section IV. COMPROMISE and SETTLEMENT, 18 (b) includes a provision that reads "Giant may request a time extension for accomplishing requirements or recommendations, which the OCD, in its sole discretion, may grant for good cause shown by Giant". Western has two tanks that are due to be inspected by the end of this year (2009) that we would like to request short extensions on. This request is for Tanks # 12 & 18.

We would like to extend Tank #18 to be internally inspected on or before July 1, 2010. This tank's 10 year history has been good. We also continue to due 5 year external inspections which indicate no problems. This tank will be coming out of service on June 1, 2010. It is presently in off-road diesel service which will no longer be made after this date due to new diesel regulations. This tank must be opened, cleaned, inspected, and made ready for a new yet to be determined service. It would be practical to do the 10 year inspection at this time.

We would like to extend Tank #12 inspection to be completed on or before September 1, 2010. The 10 year history on this tank has been good, as well as the 5 year external inspections. The refinery has no backup tank for this service presently so it would be very costly to do this tank now, most likely causing an FCCU outage or possible refinery shut down to get this tank out of service. We will have other tanks available later next year due to the loss of off-road diesel market going away. All other tanks will remain on the current inspection schedule.

We appreciate your consideration in this matter. Please contact Randy Schmaltz at (505) 632-4171 or myself at (505) 632-4104 if you have any questions.

Sincerely,

Todd R. Doyle
Refinery Manager

Cc: Randy Schmaltz

Western Refining

BLOOMFIELD REFINERY

WNR LISTED NYSE

RECEIVED

2008 OCT 30 PM 3 36

Carl Chavez
New Mexico Oil Conservation Division
Environmental Bureau
1220 South St. Francis Dr
Santa Fe, NM 87505

Certified Mail: 7006 0810 0003 7020 7247

October 28, 2008

RE: Western Refining Southwest, Inc. - Bloomfield Refinery
Bloomfield Underground Line, Tanks, and Sumps Inspection, Maintenance, & Reporting (IMR) Compliance with the NMOCD Final Stipulated Order (GW-001)
Final Review & Approval with Conditions

Mr. Chavez,

Please find attached the revised edition of Bloomfield Refinery's "Tanks – Inspection and Repair Schedule" spreadsheet which includes repair dates as requested in your September 18, 2008 e-mail.

Bloomfield Refinery will maintain and include an updated version of the Inspection, Maintenance, and Repair schedule in each Annual Groundwater Monitoring Report.

If you need more information, please contact me at (505) 632-4161.

Sincerely,

Cindy Hurtado

Cindy Hurtado
Environmental Coordinator
Western Refining Southwest, Inc. - Bloomfield Refinery

Cc: Brandon Powell – NMOCD Aztec District Office
Randy Schmaltz – Bloomfield Refinery

BLOOMFIELD REFINERY — TANKS - Inspection & Repair Schedule (*schedule set according to API 650 & 653)

Tank #	Service	Normal Capacity (bbls)	Last Test/ Inspection	Test/ Inspection Method	Next Test/ Inspection Scheduled	Date OCD-SFO Requirements Satisfied	Test/ Inspection Date	Repairs/Maint Needed	Repairs/Maint Completion Date
2*	FILTERED WATER	64,347	2000	Internal	2010	2010	3/30/2000	Cleaned Out Sediment	3/28/2000
3*	MID-GRADE	9,365	2003	Internal	2013	2013	10/1/2003	Seal Replacement	10/8/2003
4*	MID-GRADE	9,365	2003	Internal	2013	2013	9/17/2003	Seal Replacement	9/24/2003
5*	WASTE WATER SURGE	9096	2007	Internal	2017	2007	5/28/2008	None	N/A
8*	CRUDE SLOP	460	2007	Internal	2017	2007	6/7/2007	None	N/A
9*	CRUDE SLOP	460	2004	External (Conrete Liner)	2009	2009	11/2/04	None	N/A
10*	SPENT CAUSTIC	360	2007	Internal	2017	2007	8/24/2007	Repaired Hatch & Floor	8/22/2007
11*	LOW REFORMATE	50,358	2002	Internal	2012	2012	9/11/2002	Seal Replacement	9/18/2002
12*	CAT / POLY GAS	50,358	1999	Internal	2009	2009	10/28/1999	Seal Replacement	11/12/1999
13*	UNLEAD SALES	27,646	2008	Internal	2018	2008	2/20/2008	Seal Repair	2/28/2008
14*	UNLEAD SALES	27,615	2005	Internal	2015	2005	9/21/2005	None	N/A
17*	CAT FEED	38403	2007	Internal	2017	2007	7/8/2007	Floor Repair	7/29/2007
18*	#1 DIESEL SALES	50358	1999	Internal	2009	2009	8/1/1999	Seal Replacement & Floor Repair	8/1/1999
19*	#2 DIESEL SALES	34991	2000	Internal	2010	2010	06/22/00	Roof Replacement	6/20/2000
20*	NAPHTHA	10000	2007	Internal	2017	2007	10/29/07	New Construction	N/A
23*	BASE GASOLINE	38,402	2002	Internal	2012	2012	08/12/02	Seal Repair	8/11/2002
24*	ULS DIESEL	10107	2006	Internal	2016	2006	03/01/06	New Construction	N/A
25*	ULS DIESEL	10107	2006	Internal	2016	2006	02/06/06	New Construction	N/A
26*	SWEET NAPHTHA	3,264	2008	Praxair	2018	2008	05/29/08	None	N/A
27*	HEAVY BURNER FUEL	9,854	2006	Internal	2016	2006	08/31/06	Floor Repair	8/21/2006
28*	CRUDE	77,854	1999	Internal	2009	2009	11/19/99	Floor Repair	11/18/1999
29*	#2 DIESEL/FCC SLOP	16,676	2005	Internal	2015	2005	04/25/05	Repair Auto Gauge & Install Sample Port	4/23/2005
30*	PREMIUM UNLEAD BLEND	16,676	2004	Internal	2014	2004	12/20/04	Repair Seal & Pontoon	12/19/2004
31*	CRUDE	98,676	2003	Internal	2013	2013	01/09/03	Repair Roof Drain	1/8/2003
32*	PREMIUM UNLEAD SALES	17,913	1999	Internal	2009	2009	12/09/99	Repair Seal & Pontoon	12/8/1999
33*	RECOVERY WELL WATER	360	2008	Internal	2018	2008	04/09/08	None	N/A
34*	INJECTION WELL RESERVIOR	360	2002	Internal	2012	2012	11/20/02	Repair Pinhole	1/20/2002
35*	REFORMER FEED	43904	2005	Internal	2015	2005	08/29/05	Repair Seal & Recoat Roof	8/28/2008
36*	CAT / POLY GAS	43904	2005	Internal	2015	2005	08/24/05	None	N/A
37*	FRENCH DRAIN	121	2001	Internal	2011	2011	12/15/01	New Construction	N/A
38*	EAST OUTFALL	302	2003	Internal	2013	2013	04/09/08	None	N/A
41*	CRUDE STORAGE	2798	2008	Praxair	2018	2008	05/29/08	None	N/A
42A*	TERMINALS SLOP	400	2007	API 650	2017	2007	06/01/07	New Construction	N/A
42B*	TERMINALS SLOP	400	2007	API 650	2017	2007	06/01/07	New Construction	N/A
43	TERMINALS SLOP	560	O/S	O/S	O/S	O/S	O/S	Out of Service	O/S
44*	VRU NAPHTHA	1,751	2008	Praxair	2018	2008	05/29/08	None	N/A
45*	ETHANOL	4821	2008	Internal	2018	2008	02/20/08	None	N/A

CERTIFIED MAIL™

Western Refining

P.O. Box 159, Bloomfield, NM 87413

7006 0810 0003 7020 7247

UNITED STATES POSTAGE PITNEY BOWES
02 1P $ 005.32⁰
0004195764 OCT 28 2008
MAILED FROM ZIP CODE 87413

Carl Chavez
NM Oil Conservation Division
Environmental Bureau
1220 South St. Francis Dr.
Santa Fe, NM 87505

1st NOTICE _____
2nd NOTICE _____
RETURNED _____

Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD
Sent: Thursday, September 18, 2008 1:49 PM
To: 'Schmaltz, Randy'; Price, Wayne, EMNRD; Macquesten, Gail, EMNRD
Cc: Allen, Ann; Edmund H. Kendrick
Subject: RE: Bloomfield Underground line, Tanks, and Sumps IMR Compliance with the NMOCD Final Stipulated Order (GW-001) Final Review & Approval with Conditions

Mr. Schmaltz, et. al:

The NMOCD has completed the final review of the above subject matter and approve based on the following conditions.

1) Please provide the date of the repair beside the description in the tables to document when repairs were actually made.

2) Tanks required to be tested on or by March 1, 2013 consist of the following: 2 – 4, 9, 11 – 12, 18 – 19, 23, 28, 31 – 34, and 37 – 38.

3) Please respond with confirmation on the above and submit hardcopies to the OCD for our records.

Upon confirmation of the above, the NMOCD finds Western Refining Southwest- Bloomfield Refinery responses satisfactory for complying with the intent of the Final Stipulated Order. Please contact me if you have questions. Thank you.

Please be advised that NMOCD approval of this plan does not relieve Western Refining Southwest- Bloomfield Refinery of responsibility should their operations fail to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD approval does not relieve Western Refining Southwest- Bloomfield Refinery of responsibility for compliance with any other federal, state, or local laws and/or regulations.

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) 476-3491
Fax: (505) 476-3462
E-mail: CarlJ.Chavez@state.nm.us
Website: http://www.emnrd.state.nm.us/ocd/index.htm
(Pollution Prevention Guidance is under "Publications")

From: Schmaltz, Randy [mailto:Randy.Schmaltz@wnr.com]
Sent: Wednesday, September 10, 2008 11:31 AM
To: Chavez, Carl J, EMNRD; Price, Wayne, EMNRD; Macquesten, Gail, EMNRD
Cc: Allen, Ann; Edmund H. Kendrick
Subject: RE: Bloomfield Underground line, Tanks, and Sumps IMR Compliance with the NMOCD Final Stipulated Order (GW-001)

Mr. Chavez:

Sorry about the oversight. Please find enclosed in this reply the revised Tanks-Inspection & Repair (IMR) Schedule, and the site map with the arrows you requested. Once again sorry for the oversight!

Thanks
Randy Schmaltz

From: Chavez, Carl J, EMNRD [mailto:CarlJ.Chavez@state.nm.us]
Sent: Wednesday, September 10, 2008 10:41 AM
To: Schmaltz, Randy; Price, Wayne, EMNRD; Macquesten, Gail, EMNRD
Cc: Allen, Ann; Edmund H. Kendrick
Subject: RE: Bloomfield Underground line, Tanks, and Sumps IMR Compliance with the NMOCD Final Stipulated Order (GW-001)

Mr. Schmaltz:

Re: NMOCD Final Stipulated Order (FSO) & NMOCD Preliminary Response

The NMOCD is in receipt of your response to my e-mail dated 7/31/2008 related to the FSO. Please note that were no attachments included with your e-mail msg. below in case you intended to resubmit requested items electronically. Please send revised items electronically for NMOCD review of the revisions. Once NMOCD approves, final hard copies may be sent to NMOCD for our file.

A few preliminary comments on your message below are as follows:

Item 1) The NMOCD was unable to locate Tanks 9 – 10, and 34 on the map that was submitted by WRSW. I presume the map has been edited to now show the locations? If not, please help me locate them on the map and/or provide an arrow showing the tanks.

Item 2) Ok. Good.

Item 3) Ok. I will review the updated spreadsheet or table upon receipt.

Item 4) Ok. I will review the updated spreadsheet or table upon receipt.

WRSW has confirmed that Tanks 1, 6 -7, 15 -16, 21 -22, 39, 43, and any other unidentified tanks missing from the table are either non-existent, out-of-service, contain inert fluids, etc. In the case of Tank 43, it is scheduled to be torn down. WRSW is aware of discoveries of contamination and mechanism(s) for reporting any releases to soils, etc. during the decommissioning process to the NMOCD.

Please contact me if you have questions. 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) 476-3491
Fax: (505) 476-3462
E-mail: CarlJ.Chavez@state.nm.us
Website: http://www.emnrd.state.nm.us/ocd/index.htm
(Pollution Prevention Guidance is under "Publications")

From: Schmaltz, Randy [mailto:Randy.Schmaltz@wnr.com]
Sent: Tuesday, September 09, 2008 3:03 PM
To: Chavez, Carl J, EMNRD; Price, Wayne, EMNRD; Macquesten, Gail, EMNRD
Cc: Allen, Ann; Edmund H. Kendrick
Subject: Re: Bloomfield Underground line, Tanks, and Sumps IMR Compliance with the NMOCD Final Stipulated Order (GW-001)

Mr. Carl Chavez

Thank you for your time on Friday 9/5/2008. As we discussed it is Western Refining Southwest, Inc. – Bloomfield Refinery's belief that we have met our obligations as set forth in the OCD Stipulated Final Order (SFO) dated March 2006.

As stated in Section IV.18.(b) of the SFO, Western was required to develop an operation, checking and maintenance schedule spreadsheet for the Refinery to include a one-time testing requirement to be completed within 5 years of the SFO date (March 2006). This spreadsheet was to include the testing schedule for all large petroleum storage tanks, below ground tanks, underground process lines, sumps, and other possible above and underground sources of contamination in the Refinery. As also stated in the SFO, large tanks that have been tested within the past five years (between 2001 and 2006), or are due to be tested within the next five years (between 2006 and 2011) under other regulatory agency rules, regulations or guidelines, or under any other standards accepted by regulatory agencies, such as API Code 653, are exempt from this one-time testing requirement.

Western (Giant) developed a testing schedule spreadsheet in compliance with Section IV.18.(b) of the SFO. Western (Giant) submitted this testing schedule spreadsheet in a timely manner to OCD on July 30, 2007 in accordance with OCD's approval of a deadline extension. This submittal was modified, as requested by OCD, to include denotations for the exempted tanks that had been tested within the past five years (between 2001 and 2006). The modified testing schedule spreadsheet was resubmitted to OCD on July 10, 2008.

In addition to the previous submittal Western is providing the following responses to OCD's requests for additional information as agreed in our 9/5/2008 phone conversation.

Item 1) Cindy Hurtado from Western provided an updated map on July 24, 2008.

Item 2) Western will maintain and include an updated Inspection, Maintenance and Repair (IMR) section in each Annual Ground Water Monitoring Report once approved by the NMOCD.

Item 3) Pits/Ponds have been added to the IMR spreadsheets.

Item 4) Western has revised the "Tanks-Inspection & Repair Schedule" to clarify the inspection dates and is providing the following tank specific information as requested in your 7/31/2008 email:

Tank Number	Capacity	Last Internal Inspection & results	Next Internal Inspection
• Tank 3	9,365 bbls	2003 Passed	2013
• Tank 4	9,365 bbls	2003 Passed	2013
• Tank 5	9,096 bbls	2007 Passed	2017 (OCD-SFO 1-time requirement met in 2007)
• Tank 8	460 bbls	2007 Passed	2017 (OCD-SFO 1-time requirement met in 2007)
• Tank 9	460 bbls	1998 Passed	2008
• Tank 10	360 bbls	2007 Passed	2017 (OCD-SFO 1-time requirement met in 2007)
• Tank 13	27,646 bbls	2008 Passed	2018 (OCD-SFO 1-time requirement met in 2008)
• Tank 14	27,615 bbls	2005 Passed	2015 (OCD-SFO 1-time requirement met in 2005)
• Tank 17	38,403 bbls	2006 Passed	2016 (OCD-SFO 1-time requirement met in 2006)
• Tank 19	34,991 bbls	2000 Passed	2010
• Tank 20	10,000 bbls	2007 Passed	2017 (OCD-SFO 1-time requirement met in 2007)
• Tank 23	38,402 bbls	2002 Passed	2012
• Tank 24	10,107 bbls	2006 Passed	2016 (OCD-SFO 1-time requirement met in 2006)
• Tank 25	10,107 bbls	2006 Passed	2016 (OCD-SFO 1-time requirement met in 2006)
• Tank 26	3,264 bbls	2008 Passed	2018 (OCD-SFO 1-time

requirement met in 2008)

- Tank 27 9,854 bbls 2006 Passed 2016 (OCD-SFO 1-time requirement met in 2006)
- Tank 29 16,676 bbls 2005 Passed 2015 (OCD-SFO 1-time requirement met in 2005)
- Tank 30 16,676 bbls 2004 Passed 2014 (OCD-SFO 1-time requirement met in 2004)
- Tank 32 17,913 bbls 1999 Passed 2009
- Tank 33 360 bbls 2003 Passed 2013
- Tank 34 360 bbls 1999 Passed 2009
- Tank 35 43,904 bbls 2005 Passed 2015 (OCD-SFO 1-time requirement met in 2005)
- Tank 36 43,904 bbls 2005 Passed 2015 (OCD-SFO 1-time requirement met in 2005)
- Tank 37 121 bbls 2001 Passed 2011
- Tank 38 302 bbls 2003 Passed 2013
- Tank 40 400 bbls 2007 Passed 2017 (OCD-SFO 1-time requirement met in 2007)
- Tank 41 2,798 bbls 2008 Passed 2018 (OCD-SFO 1-time requirement met in 2008)
- Tank 42 400 bbls 2007 Passed 2017 (OCD-SFO 1-time requirement met in 2007)
- Tank 44 1,751 bbls 2008 Passed 2018 (OCD-SFO 1-time requirement met in 2008)
- Tank 45 4,821 bbls 2008 Passed 2018 (OCD-SFO 1-time requirement met in 2008)

Western confirms that Tanks 1, 6, 7, 15, 16, 21, 22, & 39 are no longer in existence. Tank 43 is no longer in service and is scheduled to be torn down.

I have also enclosed the revised "Tank- Inspection & Repair Schedule" spreadsheet.

Thanks for your help and consideration

Randy Schmaltz
Western Refining Southwest, Inc.
Bloomfield Refinery
Direct: (505) 632-4171
E-mail: randy.schmaltz@wnr.com

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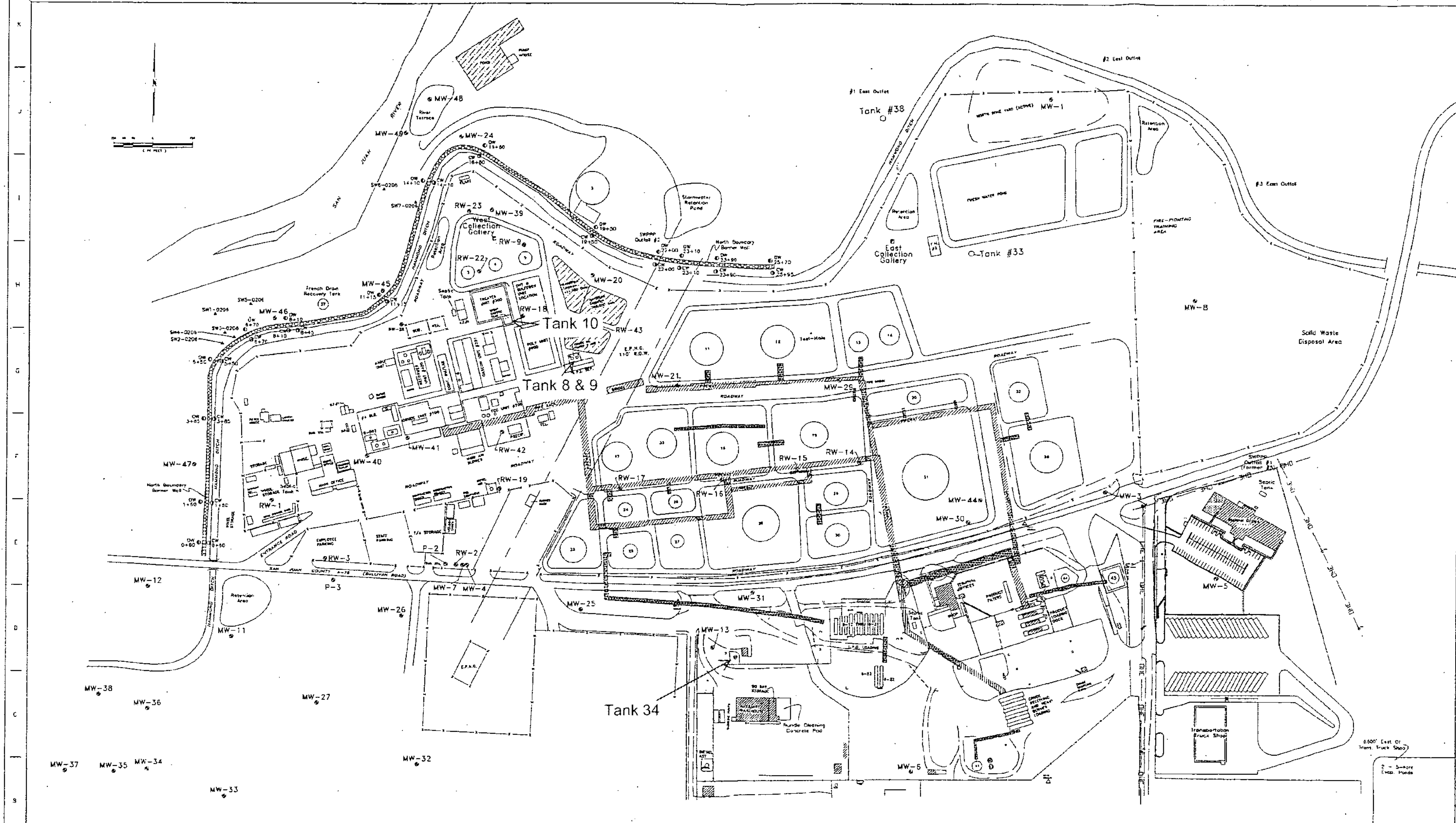

NOTES "MW-XX" – Monitoring Wells Locations
"RW-XX" – Recovery Well Locations
"P" – Piezometer
– Denotes Under Ground Pipe-Way.
– Denotes Above Ground Pipe-Way.
– Denotes Slurry Barrier Wall

"CW" – Collection Well Locations
"OW" – Observation Well Locations
"SW" – Sump Well Locations

NO.	REVISION	JOB No	DRAWN BY	DRAWN DATE	CHECKED BY	CHECKED DATE	APPROVED BY	APPROVED DATE
8	Revised To Indicate Tanks 24 & 25 Addition.		NHB	3/08				
7	Observation, & Collection Wells Added As Per Enviro. Dept. Mark-Ups.		NHB	12/05				
6	Updated To Indicate Changes As Per Enviro. Dept. Red-Line Mark-Ups.		NHB	7/05				
5	Updated To Indicate Changes As Per Enviro. Dept. Red-Line Mark-Ups.		NHB	3/05				
4	Updated To Indicate Changes As Per Enviro. Dept. Red-Line Mark-Ups.		NHB	2/04				
10	Revised As Per Red-Line Mark-Ups From 'C. Hurtado' Enviro. Dept.		NHB	7/07				
9	Revised To Indicate "SW" or Sump Well Locations.		NHB	5/06				
1	Updated As Per Enviromental Dept. Mark Up							

REFERENCE DWGS

SCALE	As Noted	DATE
DRAWN BY	NHB	8/29/02
INITIAL CHK.		
FINAL CHK.		
ENGR.		
APPR. BY		
AFE/WO No.		

Giant Bloomfield Refinery
Area Plot Plan
Recovery Well & Monitoring
Well Locations

GIANT REFINING CO.
BLOOMFIELD REFINERY — BLOOMFIELD NEW MEXICO
DWG. NO. D-000-900-023 REV. 10

BLOOMFIELD REFINERY

TANKS - Inspection & Repair Schedule

TANK #	Service	Normal Capacity Bbls	Last Inspection	Next Inspection Scheduled	Date OCD-SFO Requirements Satisfied	Inspection Date	Repairs/Maint Needed	Repairs/Maint Completion date
2*	FILTERED WATER	64,347	2000	2010	2010			
3*	MID-GRADE	9,365	2003	2013	2013			
4*	MID-GRADE	9,365	2003	2013	2013			
5*	ISOMERATE	9096	2007	2017	2007	10/22/2007	None	N/A
8*	CRUDE SLOP	460	2007	2017	2007	6/12/2007	None	N/A
9*	CRUDE SLOP	460	1998	2008	2008			
10*	SPENT CAUSTIC	360	2007	2017	2007	8/24/2007	Repaired Hatch	8/24/2007
11*	LOW REFORMATE	50,358	2002	2012	2012			
12*	CAT / POLY GAS	50,358	1999	2009	2009			
13*	UNLEAD SALES	27,646	2008	2018	2008	1/21/2008	Repaired Seal	1/21/2008
14*	UNLEAD SALES	27,615	2005	2015	2005			
17*	CAT FEED	38403	2006	2016	2006	10/20/2006	None	N/A
18*	#1 DIESEL SALES	50358	1999	2009	2009			
19*	#2 DIESEL SALES	34991	2000	2010	2010			
20*	NAPHTHA	10000	2007	2017	2007	1/21/2007	None	N/A
23*	BASE GASOLINE	38,402	2002	2012	2012			
24*	ULS DIESEL	10107	2006	2016	2006			
25*	ULS DIESEL	10107	2006	2016	2006			
26*	SWEET NAPHTHA	3,264	2008	2018	2008	5/29/2008	None	N/A
27*	HEAVY BURNER FUEL	9,854	2006	2016	2006			
28*	CRUDE	77,854	1999	2009	2009			
29*	#2 DIESEL SLOP	16,676	2005	2015	2005			
30*	PREMIUM UNLEAD BLEND	16,676	2004	2014	2004			
31*	CRUDE	98,676	2001	2011	2011			
32*	PREMIUM UNLEAD SALES	17,913	1999	2009	2009			
33*	RECOVERY WELL WATER	360	2003	2013	2013			
34*	INJECTION WELL RESERVIOR	360	1999	2009	2009			
35*	REFORMER FEED	43904	2005	2015	2005			
36*	CAT / POLY GAS	43904	2005	2015	2005			
37*	FRENCH DRAIN	121	2001	2011	2011			
38*	EAST OUTFALL	302	2003	2013	2013			
40*	TERMINALS SLOP	400	2007	2017	2007			
41*	TERMINALS SLOP	2798	2008	2018	2008	5/29/2008	None	N/A
42*	TERMINALS SLOP	400	2007	2017	2007			
44*	VRU NAPHTHA	1,751	2008	2018	2008	5/29/2008	None	N/A
45*	ETHANOL	4821	2008	2018	2008	2/24/2008	None	N/A

* Tank inspection schedule is set according to API 650 & 653

BLOOMFIELD REFINERY

UNDERGROUND PROCESS AND WASTEWATER LINES - Inspection & Repair Schedule

Line Number	Description (Service)	Line Size	Construction Material	Inspection Scheduled	Inspection Date	Inspection Results Pass/Fail	Repairs/Maint Needed	Repairs/Maint Completion date
1	Plant Raw Water Supply	6	Carbon steel	2012				
2	Plant Raw Water Supply	6	PVC	2013				
3	Water Filter Back Flush	6	PVC	2013				
4	Plant Process Wtr./Fire Wtr.	8	PVC	2013				
5	Plant Process Wtr./Fire Wtr.	8	Carbon steel	2013				
6	Plant Process Wtr. Feed	6	Carbon steel	2013				
7	Plant Raw Wtr. Pump Suct.	16	Carbon steel	2013				
8	Effilent Wtr. Transfer Line	6	PVC	2012				
9	Effilent Wtr. Trans. Pump	6	PVC	2012				
10	Effilent Wtr. Pump Disch.	6	PVC	2012				
11	Injection Well Recir. Line	6	PVC	2012				
12	River Terrace Transfer Line	2	PVC	2012				
13	Crude Transfer Line	12	Carbon steel	2008	May-08	Pass	None	N/A
14	Steam Header at Terminals	6	Carbon steel	2011				
15	Condensate Return Header	4	Carbon steel	2011				
16	C-4 To Blend	4	Carbon steel	2008	May-08	Pass	None	N/A
17	Diesel Sales Line	12	Carbon steel	2007	Nov-07	Pass	None	N/A
18	Lite Natural Line	12	Carbon steel	2007	Nov-07	Pass	None	N/A
19	(DEAD) Out Of Service	12	Carbon steel	out of service				
20	Lite Straight Run Product	4	Carbon steel	2011				
21	Poly Material To Storage	3	Carbon steel	2011				
22	Poly Unit Feed Line	3	Carbon steel	2011				
23	LPG Rerun Line	2	Carbon steel	2010				
24	Saturate To Storage	2	Carbon steel	2010				
25	C-4 To Storage	2	Carbon steel	2010				
26	C-3 To Storage	2	Carbon steel	2010				
27	JP-8 Sales Line	8	Carbon steel	out of service				
28	#1 Diesel Sales From Tk.18	6	Carbon steel	2007	Nov-07	Pass	None	N/A
29	Slop Line ToTk. # 221	4	Carbon steel	out of service				
30	Isomerate/Naptha Line	6	Carbon steel	2008	May-08	Pass	None	N/A
31	Premium Sales	8	Carbon steel	2007	Nov-07	Pass	None	N/A
32	Refomate from Tk.s # 3 & 4	6	Carbon steel	2007	Nov-07	Pass	None	N/A
33	Naptha to VRU	4	Carbon steel	2008	May-08	Pass	None	N/A
34	Naphta Feed To VRU Unit	4	Carbon steel	2008	May-08	Pass	None	N/A
35	Naptha Fill/Rerun To Tk. #44	4	Carbon steel	2008	May-08	Pass	None	N/A
36	#1 Diesel To Bays #1 & 2	8	Carbon steel	2007	Nov-07	Pass	None	N/A
37	(Old Kerosene) To Bay # 3	6	Carbon steel	2011				

BLOOMFIELD REFINERY

UNDERGROUND PROCESS AND WASTEWATER LINES - Inspection & Repair Schedule

Line Number	Description (Service)	Line Size	Construction Material	Inspection Scheduled	Inspection Date	Inspection Results Pass/Fail	Repairs/Maint Needed	Repairs/Maint Completion date
38	Premiun Sales Line	10	Carbon steel	2007	Nov-07	Pass	None	N/A
39	Old Unleaded Sales Line	10	Carbon steel	2007	Nov-07	Pass	None	N/A
40	Diesel To Bay # 4	8	Carbon steel	2007	Nov-07	Pass	None	N/A
41	Ethanol Pump Suction Line	8	Carbon steel	2010				
42	Ethanol Unloading Line	4	Carbon steel	2010				
43	Naphtha Unloading Line	6	Carbon steel	2007	Sep-07	Pass	None	N/A
44	Naptha Rundown To Tk.# 35	3	Carbon steel	2010				
45	Naptha Feed Line to Unit	4	Carbon steel	2010				
46	Cooling Water Supply Line	12	Carbon steel	2011				
47	Cooling Water Return Line	12	Carbon steel	2011				
48	Cooling Water Supply Line	20	Carbon steel	2011				
49	Cooling Water Return Line	20	Carbon steel	2011				
50	Sewer Transfer Line	10	Carbon steel	2010				
51	Sewer Transfer Line	10	Carbon steel	2010				
52	Sewer Transfer Line	12	Carbon steel	2010				
53	Sewer Transfer Line	12	Carbon steel	2010				
54	Sewer Transfer Line	14	Carbon steel	2010				
55	Sewer Transfer Line	14	Carbon steel	2010				
56	Sewer Transfer Line	12	Carbon steel	2010				
57	Sewer Transfer Line	12	Carbon steel	2010				
58	Sewer Transfer Line	14	Carbon steel	2010				
59	Sewer Transfer Line	14	Carbon steel	2010				
60	Sewer Transfer Line	14	Carbon steel	2010				
61	Sewer Transfer Line	12/10	Carbon steel	2010				
62	Sewer Collection Manifold	8>4	Carbon steel	2010				
63	Sewer Collection Manifold	10>4	Carbon steel	2010				
64	Sewer Collection Manifold	8>4	Carbon steel	2010				
65	Sewer Collection Manifold	6	Carbon steel	2010				
66	Sewer Collection Manifold	10>4	Carbon steel	2010				
67	Sewer Collection Manifold	10>4	Carbon steel	2010				
68	Sewer Collection Manifold	8>4	Carbon steel	2010				
69	Sewer Collection Manifold	8>4	Carbon steel	2010				
70	Sewer Collection Manifold	8>4	Carbon steel	2010				
71	Sewer Collection Manifold	8>4	Carbon steel	2010				
72	Sewer Collection Manifold	8>4	Carbon steel	2010				
73	Sewer Collection Manifold	8>4	Carbon steel	2010				
74	Sewer Collection Manifold	6>3	Carbon steel	2010				

BLOOMFIELD REFINERY

UNDERGROUND PROCESS AND WASTEWATER LINES - Inspection & Repair Schedule

Line Number	Description (Service)	Line Size	Construction Material	Inspection Scheduled	Inspection Date	Inspection Results Pass/Fail	Repairs/Maint Needed	Repairs/Maint Completion date
75	Sewer Collection Manifold	4	Carbon steel	2010				
76	Sewer Collection Manifold	4	Carbon steel	2009				
77	Sewer Collect./Transfer Line	6	Carbon steel	2009				
78	Sewer Transfer Line	10	Carbon steel	2009				
79	Sewer Transfer Line	10	Carbon steel	2009				
80	Sewer Collection Manifold	6/4	Carbon steel	2009				
81	Sewer Transfer Line	10	Carbon steel	2009				
82	Sewer Transfer Line	10	Carbon steel	2009				
83	Sewer Collection Manifold	10>4	Carbon steel	2009				
84	Sewer Collection Manifold	6>2	Carbon steel	2008				
85	Sewer Transfer Line	10	Carbon steel	2008				
86	Sewer Transfer Line	12	Carbon steel	2008				
87	Sewer Collection Manifold	10>4	Carbon steel	2007	Dec-07	Pass	None	N/A
88	Crude Transfer Line	12	Carbon steel	2008	May-08	Pass	None	N/A
89	Crude Transfer Line	12	Carbon steel	2008	May-08	Pass	None	N/A

BLOOMFIELD REFINERY

SUMPS & SEWER BOXES - Inspection & Repair Schedule

Sump Number	Location	Type Material	Inspection Scheduled	Actual Inspection Date	Inspection results Pass/Fail	Repairs/Maint Needed	Repairs/Maint Completion date
1	Fire Pump House	Concrete	2009				
2	(Crude) Sewer Box # 12	Concrete	2010				
3	(Crude) Sewer Box # 11	Concrete	2010				
4	(Crude) Sewer Box # 9	Concrete	2010				
5	(Crude) Sewer Box # 8	Concrete	2010				
6	(Crude) Sewer Box # 7	Concrete	2010				
7	(Crude) Sewer Box # 5	Concrete	2010				
8	(Crude) Sewer Box # 1	Concrete	2010				
9	(Gas Con) Sewer Box	Concrete	2009				
10	(FCC) Sewer Box # 1	Concrete	2009				
11	(FCC) Sewer Box # 2	Concrete	2009				
12	(Treater) Sewer Box	Concrete	2009				
13	(Treater) Sewer Box	Concrete	2009				
14	(DHT) Sewer Box # 18	Concrete	2008				
15	(DHT) Sewer Box # 17	Concrete	2008				
16	Sump @ S.W. Side Of Tk. 3	Concrete	2008	6/9/2008	Pass	None	
17	Sump Between Tk. 3 & 4	Concrete	2008	6/9/2008	Pass	None	
18	Sump Between Tk. 4 & 5	Concrete	2008	6/9/2008	Pass	None	
19	Sump @ N.Side Of Tk. 5	Concrete	2008	6/9/2008	Fail	Concrete repair	
20	Sump Between Tk. 11 & 12	Concrete	2008	6/10/2008	Pass	None	
21	Sump Between Tk. 13 & 14	Concrete	2008	6/9/2008	Pass	None	
22	Sump @ N. Side Of Tk. 17	Concrete	2008	6/11/2008	Pass	None	
23	Sump @ N.E. Side Of Tk. 18	Concrete	2008	6/10/2008	Pass	None	
24	Sump @ N.E. Side Of Tk. 19	Concrete	2008	6/10/2008	Pass	None	
25	Sump @ S.W. Side Of Tk. 20	DW Steel	2008	6/11/2008	Pass	None	
26	Sump @ S. Side Of Tk. 23	Concrete	2008	6/16/2008	Fail	Replace plate	
27	Sump @ E. Side Of Tk. 24	DW Steel	2008	6/16/2008	Pass	None	
28	Sump @ E. Side Of Tk. 25	DW Steel	2008	6/16/2008	Pass	None	
29	Sump @ N.W. Side Of Tk. 26	Concrete	2008	6/11/2008	Pass	None	
30	Sump @ S.E. Side Of Tk. 27	Concrete	2008	6/10/2008	Pass	None	
31	Sump @ West Side Of Tk. 28	Concrete	2008	6/17/2008	Pass	None	
32	Sump @ N.E. Side Of Tk. 29	Concrete	2008	6/23/2008	Pass	None	
33	Sump @ S.W. Side Of Tk. 30	Concrete	2008	6/16/2008	Pass	None	
34	Sump @ N.W. Side Of Tk. 31	Concrete	2008	6/17/2008	Pass	None	
35	Sump @ S.E. Side Of Tk. 31	Concrete	2008	6/17/2008	Pass	None	
36	Sump @ East Side Of Tk. 32	Concrete	2008	6/10/2008	Pass	None	
37	Sump @ N.E. Side Of Tk. 35	Concrete	2008	6/11/2008	Pass	None	
38	Sump @ N.E. Side Of Tk. 36	DW Steel	2008	6/10/2008	Pass	None	
39	Sump @ S. Side Of Tk. 18	DW Steel	2008	6/11/2008	Pass	None	
40	Sump @ S. Side Of Tk. 19	Concrete	2008	6/11/2008	Pass	None	

Pond - Inspection & Repair Schedule

Pond Number	Location	Type Material	Inspection Scheduled	Actual Inspection Date	Inspection results Pass/Fail	Repairs/Maint Needed
1	API Pond #1	HDPE	2008			
2	API Pond #2	HDPE	2008			
3	API Pond #3	HDPE	2008			
4	North Evaporation Pond	HDPE	2010			
5	South Evaporation Pond	HDPE	2013			

Repairs/Maint Completion date

Chavez, Carl J, EMNRD

From: Schmaltz, Randy [Randy.Schmaltz@wnr.com]
Sent: Wednesday, September 10, 2008 11:31 AM
To: Chavez, Carl J, EMNRD; Price, Wayne, EMNRD; Macquesten, Gail, EMNRD
Cc: Allen, Ann; Edmund H. Kendrick
Subject: RE: Bloomfield Underground line, Tanks, and Sumps IMR Compliance with the NMOCD Final Stipulated Order (GW-001)
Attachments: OCD-Inspection & Repair Schedule for Underground lines, Sumps and Tanks (r2).xls; OCD-site map w-arrows.pdf

Mr. Chavez:

Sorry about the oversight. Please find enclosed in this reply the revised Tanks-Inspection & Repair (IMR) Schedule, and the site map with the arrows you requested. Once again sorry for the oversight!

Thanks
Randy Schmaltz

From: Chavez, Carl J, EMNRD [mailto:CarlJ.Chavez@state.nm.us]
Sent: Wednesday, September 10, 2008 10:41 AM
To: Schmaltz, Randy; Price, Wayne, EMNRD; Macquesten, Gail, EMNRD
Cc: Allen, Ann; Edmund H. Kendrick
Subject: RE: Bloomfield Underground line, Tanks, and Sumps IMR Compliance with the NMOCD Final Stipulated Order (GW-001)

Mr. Schmaltz:

Re: NMOCD Final Stipulated Order (FSO) & NMOCD Preliminary Response

The NMOCD is in receipt of your response to my e-mail dated 7/31/2008 related to the FSO. Please note that were no attachments included with your e-mail msg. below in case you intended to resubmit requested items electronically. Please send revised items electronically for NMOCD review of the revisions. Once NMOCD approves, final hard copies may be sent to NMOCD for our file.

A few preliminary comments on your message below are as follows:

Item 1) The NMOCD was unable to locate Tanks 9 – 10, and 34 on the map that was submitted by WRSW. I presume the map has been edited to now show the locations? If not, please help me locate them on the map and/or provide an arrow showing the tanks.

Item 2) Ok. Good.

Item 3) Ok. I will review the updated spreadsheet or table upon receipt.

Item 4) Ok. I will review the updated spreadsheet or table upon receipt.

WRSW has confirmed that Tanks 1, 6 -7, 15 -16, 21 -22, 39, 43, and any other unidentified tanks missing from the table are either non-existent, out-of-service, contain inert fluids, etc. In the case of Tank 43, it is scheduled to be torn down. WRSW is aware of discoveries of contamination and mechanism(s) for reporting any releases to soils, etc. during the decommissioning process to the NMOCD.

Please contact me if you have questions. 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) 476-3491
Fax: (505) 476-3462
E-mail: CarlJ.Chavez@state.nm.us
Website: http://www.emnrd.state.nm.us/ocd/index.htm
(Pollution Prevention Guidance is under "Publications")

From: Schmaltz, Randy [mailto:Randy.Schmaltz@wnr.com]
Sent: Tuesday, September 09, 2008 3:03 PM
To: Chavez, Carl J, EMNRD; Price, Wayne, EMNRD; Macquesten, Gail, EMNRD
Cc: Allen, Ann; Edmund H. Kendrick
Subject: Re: Bloomfield Underground line, Tanks, and Sumps IMR Compliance with the NMOCD Final Stipulated Order (GW-001)

Mr. Carl Chavez

Thank you for your time on Friday 9/5/2008. As we discussed it is Western Refining Southwest, Inc. – Bloomfield Refinery's belief that we have met our obligations as set forth in the OCD Stipulated Final Order (SFO) dated March 2006.

As stated in Section IV.18.(b) of the SFO, Western was required to develop an operation, checking and maintenance schedule spreadsheet for the Refinery to include a one-time testing requirement to be completed within 5 years of the SFO date (March 2006). This spreadsheet was to include the testing schedule for all large petroleum storage tanks, below ground tanks, underground process lines, sumps, and other possible above and underground sources of contamination in the Refinery. As also stated in the SFO, large tanks that have been tested within the past five years (between 2001 and 2006), or are due to be tested within the next five years (between 2006 and 2011) under other regulatory agency rules, regulations or guidelines, or under any other standards accepted by regulatory agencies, such as API Code 653, are exempt from this one-time testing requirement.

Western (Giant) developed a testing schedule spreadsheet in compliance with Section IV.18.(b) of the SFO. Western (Giant) submitted this testing schedule spreadsheet in a timely manner to OCD on July 30, 2007 in accordance with OCD's approval of a deadline extension. This submittal was modified, as requested by OCD, to include denotations for the exempted tanks that had been tested within the past five years (between 2001 and 2006). The modified testing schedule spreadsheet was resubmitted to OCD on July 10, 2008.

In addition to the previous submittal Western is providing the following responses to OCD's requests for additional information as agreed in our 9/5/2008 phone conversation.

Item 1) Cindy Hurtado from Western provided an updated map on July 24, 2008.

Item 2) Western will maintain and include an updated Inspection, Maintenance and Repair (IMR) section in each Annual Ground Water Monitoring Report once approved by the NMOCD.

Item 3) Pits/Ponds have been added to the IMR spreadsheets.

Item 4) Western has revised the "Tanks-Inspection & Repair Schedule" to clarify the inspection dates and is providing the following tank specific information as requested in your 7/31/2008 email:

Tank Number	Capacity	Last Internal Inspection & results	Next Internal Inspection
• Tank 3	9,365 bbls	2003 Passed	2013
• Tank 4	9,365 bbls	2003 Passed	2013
• Tank 5	9,096 bbls	2007 Passed	2017 (OCD-SFO 1-time requirement met in 2007)
• Tank 8	460 bbls	2007 Passed	2017 (OCD-SFO 1-time requirement met in 2007)

- Tank 9 460 bbls 1998 Passed 2008
- Tank 10 360 bbls 2007 Passed 2017 (OCD-SFO 1-time requirement met in 2007)
- Tank 13 27,646 bbls 2008 Passed 2018 (OCD-SFO 1-time requirement met in 2008)
- Tank 14 27,615 bbls 2005 Passed 2015 (OCD-SFO 1-time requirement met in 2005)
- Tank 17 38,403 bbls 2006 Passed 2016 (OCD-SFO 1-time requirement met in 2006)
- Tank 19 34,991 bbls 2000 Passed 2010
- Tank 20 10,000 bbls 2007 Passed 2017 (OCD-SFO 1-time requirement met in 2007)
- Tank 23 38,402 bbls 2002 Passed 2012
- Tank 24 10,107 bbls 2006 Passed 2016 (OCD-SFO 1-time requirement met in 2006)
- Tank 25 10,107 bbls 2006 Passed 2016 (OCD-SFO 1-time requirement met in 2006)
- Tank 26 3,264 bbls 2008 Passed 2018 (OCD-SFO 1-time requirement met in 2008)
- Tank 27 9,854 bbls 2006 Passed 2016 (OCD-SFO 1-time requirement met in 2006)
- Tank 29 16,676 bbls 2005 Passed 2015 (OCD-SFO 1-time requirement met in 2005)
- Tank 30 16,676 bbls 2004 Passed 2014 (OCD-SFO 1-time requirement met in 2004)
- Tank 32 17,913 bbls 1999 Passed 2009
- Tank 33 360 bbls 2003 Passed 2013
- Tank 34 360 bbls 1999 Passed 2009
- Tank 35 43,904 bbls 2005 Passed 2015 (OCD-SFO 1-time requirement met in 2005)
- Tank 36 43,904 bbls 2005 Passed 2015 (OCD-SFO 1-time requirement met in 2005)
- Tank 37 121 bbls 2001 Passed 2011
- Tank 38 302 bbls 2003 Passed 2013
- Tank 40 400 bbls 2007 Passed 2017 (OCD-SFO 1-time requirement met in 2007)
- Tank 41 2,798 bbls 2008 Passed 2018 (OCD-SFO 1-time requirement met in 2008)
- Tank 42 400 bbls 2007 Passed 2017 (OCD-SFO 1-time requirement met in 2007)
- Tank 44 1,751 bbls 2008 Passed 2018 (OCD-SFO 1-time requirement met in 2008)
- Tank 45 4,821 bbls 2008 Passed 2018 (OCD-SFO 1-time requirement met in 2008)

Western confirms that Tanks 1, 6, 7, 15, 16, 21, 22, & 39 are no longer in existence. Tank 43 is no longer in service and is scheduled to be torn down.

I have also enclosed the revised "Tank- Inspection & Repair Schedule" spreadsheet.

Thanks for your help and consideration

Randy Schmaltz
Western Refining Southwest, Inc.
Bloomfield Refinery
Direct: (505) 632-4171

E-mail: randy.schmaltz@wnr.com

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BLOOMFIELD REFINERY

SUMPS & SEWER BOXES - Inspection & Repair Schedule

Sump Number	Location	Type Material	Inspection Scheduled	Actual Inspection Date	Inspection results Pass/Fail	Repairs/Maint Needed	Repairs/Maint Completion date
1	Fire Pump House	Concrete	2009				
2	(Crude) Sewer Box # 12	Concrete	2010				
3	(Crude) Sewer Box # 11	Concrete	2010				
4	(Crude) Sewer Box # 9	Concrete	2010				
5	(Crude) Sewer Box # 8	Concrete	2010				
6	(Crude) Sewer Box # 7	Concrete	2010				
7	(Crude) Sewer Box # 5	Concrete	2010				
8	(Crude) Sewer Box # 1	Concrete	2010				
9	(Gas Con) Sewer Box	Concrete	2009				
10	(FCC) Sewer Box # 1	Concrete	2009				
11	(FCC) Sewer Box # 2	Concrete	2009				
12	(Treater) Sewer Box	Concrete	2009				
13	(Treater) Sewer Box	Concrete	2009				
14	(DHT) Sewer Box # 18	Concrete	2008				
15	(DHT) Sewer Box # 17	Concrete	2008				
16	Sump @ S.W. Side Of Tk. 3	Concrete	2008	6/9/2008	Pass	None	
17	Sump Between Tk. 3 & 4	Concrete	2008	6/9/2008	Pass	None	
18	Sump Between Tk. 4 & 5	Concrete	2008	6/9/2008	Pass	None	
19	Sump @ N.Side Of Tk. 5	Concrete	2008	6/9/2008	Fail	Concrete repair	
20	Sump Between Tk. 11 & 12	Concrete	2008	6/10/2008	Pass	None	
21	Sump Between Tk. 13 & 14	Concrete	2008	6/9/2008	Pass	None	
22	Sump @ N. Side Of Tk. 17	Concrete	2008	6/11/2008	Pass	None	
23	Sump @ N.E. Side Of Tk. 18	Concrete	2008	6/10/2008	Pass	None	
24	Sump @ N.E. Side Of Tk. 19	Concrete	2008	6/10/2008	Pass	None	
25	Sump @ S.W. Side Of Tk. 20	DW Steel	2008	6/11/2008	Pass	None	
26	Sump @ S. Side Of Tk. 23	Concrete	2008	6/16/2008	Fail	Replace plate	
27	Sump @ E. Side Of Tk. 24	DW Steel	2008	6/16/2008	Pass	None	
28	Sump @ E. Side Of Tk. 25	DW Steel	2008	6/16/2008	Pass	None	
29	Sump @ N.W. Side Of Tk. 26	Concrete	2008	6/11/2008	Pass	None	
30	Sump @ S.E. Side Of Tk. 27	Concrete	2008	6/10/2008	Pass	None	
31	Sump @ West Side Of Tk. 28	Concrete	2008	6/17/2008	Pass	None	
32	Sump @ N.E. Side Of Tk. 29	Concrete	2008	6/23/2008	Pass	None	
33	Sump @ S.W. Side Of Tk. 30	Concrete	2008	6/16/2008	Pass	None	
34	Sump @ N.W. Side Of Tk. 31	Concrete	2008	6/17/2008	Pass	None	
35	Sump @ S.E. Side Of Tk. 31	Concrete	2008	6/17/2008	Pass	None	
36	Sump @ East Side Of Tk. 32	Concrete	2008	6/10/2008	Pass	None	
37	Sump @ N.E. Side Of Tk. 35	Concrete	2008	6/11/2008	Pass	None	
38	Sump @ N.E. Side Of Tk. 36	DW Steel	2008	6/10/2008	Pass	None	
39	Sump @ S. Side Of Tk. 18	DW Steel	2008	6/11/2008	Pass	None	
40	Sump @ S. Side Of Tk. 19	Concrete	2008	6/11/2008	Pass	None	

Pond - Inspection & Repair Schedule

Pond Number	Location	Type Material	Inspection Scheduled	Actual Inspection Date	Inspection results Pass/Fail	Repairs/Maint Needed	Repairs/Maint Completion date
1	API Pond #1	HDPE	2008				
2	API Pond #2	HDPE	2008				
3	API Pond #3	HDPE	2008				
4	North Evaporation Pond	HDPE	2010				
5	South Evaporation Pond	HDPE	2013				

BLOOMFIELD REFINERY

SUMPS & SEWER BOXES - Inspection & Repair Schedule

Sump Number	Location	Type Material	Inspection Scheduled	Actual Inspection Date	Inspection results Pass/Fail	Repairs/Maint Needed	Repairs/Maint Completion date
1	Fire Pump House	Concrete	2009				
2	(Crude) Sewer Box # 12	Concrete	2010				
3	(Crude) Sewer Box # 11	Concrete	2010				
4	(Crude) Sewer Box # 9	Concrete	2010				
5	(Crude) Sewer Box # 8	Concrete	2010				
6	(Crude) Sewer Box # 7	Concrete	2010				
7	(Crude) Sewer Box # 5	Concrete	2010				
8	(Crude) Sewer Box # 1	Concrete	2010				
9	(Gas Con) Sewer Box	Concrete	2009				
10	(FCC) Sewer Box # 1	Concrete	2009				
11	(FCC) Sewer Box # 2	Concrete	2009				
12	(Treater) Sewer Box	Concrete	2009				
13	(Treater) Sewer Box	Concrete	2009				
14	(DHT) Sewer Box # 18	Concrete	2008				
15	(DHT) Sewer Box # 17	Concrete	2008				
16	Sump @ S.W. Side Of Tk. 3	Concrete	2008	6/9/2008	Pass	None	
17	Sump Between Tk. 3 & 4	Concrete	2008	6/9/2008	Pass	None	
18	Sump Between Tk. 4 & 5	Concrete	2008	6/9/2008	Pass	None	
19	Sump @ N.Side Of Tk. 5	Concrete	2008	6/9/2008	Fail	Concrete repair	
20	Sump Between Tk. 11 & 12	Concrete	2008	6/10/2008	Pass	None	
21	Sump Between Tk. 13 & 14	Concrete	2008	6/9/2008	Pass	None	
22	Sump @ N. Side Of Tk. 17	Concrete	2008	6/11/2008	Pass	None	
23	Sump @ N.E. Side Of Tk. 18	Concrete	2008	6/10/2008	Pass	None	
24	Sump @ N.E. Side Of Tk. 19	Concrete	2008	6/10/2008	Pass	None	
25	Sump @ S.W. Side Of Tk. 20	DW Steel	2008	6/11/2008	Pass	None	
26	Sump @ S. Side Of Tk. 23	Concrete	2008	6/16/2008	Fail	Replace plate	
27	Sump @ E. Side Of Tk. 24	DW Steel	2008	6/16/2008	Pass	None	
28	Sump @ E. Side Of Tk. 25	DW Steel	2008	6/16/2008	Pass	None	
29	Sump @ N.W. Side Of Tk. 26	Concrete	2008	6/11/2008	Pass	None	
30	Sump @ S.E. Side Of Tk. 27	Concrete	2008	6/10/2008	Pass	None	
31	Sump @ West Side Of Tk. 28	Concrete	2008	6/17/2008	Pass	None	
32	Sump @ N.E. Side Of Tk. 29	Concrete	2008	6/23/2008	Pass	None	
33	Sump @ S.W. Side Of Tk. 30	Concrete	2008	6/16/2008	Pass	None	
34	Sump @ N.W. Side Of Tk. 31	Concrete	2008	6/17/2008	Pass	None	
35	Sump @ S.E. Side Of Tk. 31	Concrete	2008	6/17/2008	Pass	None	
36	Sump @ East Side Of Tk. 32	Concrete	2008	6/10/2008	Pass	None	
37	Sump @ N.E. Side Of Tk. 35	Concrete	2008	6/11/2008	Pass	None	
38	Sump @ N.E. Side Of Tk. 36	DW Steel	2008	6/10/2008	Pass	None	
39	Sump @ S. Side Of Tk. 18	DW Steel	2008	6/11/2008	Pass	None	
40	Sump @ S. Side Of Tk. 19	Concrete	2008	6/11/2008	Pass	None	

BLOOMFIELD REFINERY

TANKS - Inspection & Repair Schedule

TANK #	Service	Normal Capacity Bbls	Last Inspection	Next Inspection Scheduled	Date OCD-SFO Requirements Satisfied	Inspection Date	Repairs/Maint Needed	Repairs/Maint Completion date
2*	FILTERED WATER	64,347	2000	2010	2010			
3*	MID-GRADE	9,365	2003	2013	2013			
4*	MID-GRADE	9,365	2003	2013	2013			
5*	ISOMERATE	9096	2007	2017	2007	10/22/2007	None	N/A
8*	CRUDE SLOP	460	2007	2017	2007	6/12/2007	None	N/A
9*	CRUDE SLOP	460	1998	2008	2008			
10*	SPENT CAUSTIC	360	2007	2017	2007	8/24/2007	Repaired Hatch	8/24/2007
11*	LOW REFORMATE	50,358	2002	2012	2012			
12*	CAT / POLY GAS	50,358	1999	2009	2009			
13*	UNLEAD SALES	27,646	2008	2018	2008	1/21/2008	Repaired Seal	1/21/2008
14*	UNLEAD SALES	27,615	2005	2015	2005			
17*	CAT FEED	38403	2006	2016	2006	10/20/2006	None	N/A
18*	#1 DIESEL SALES	50358	1999	2009	2009			
19*	#2 DIESEL SALES	34991	2000	2010	2010			
20*	NAPHTHA	10000	2007	2017	2007	1/21/2007	None	N/A
23*	BASE GASOLINE	38,402	2002	2012	2012			
24*	ULS DIESEL	10107	2006	2016	2006			
25*	ULS DIESEL	10107	2006	2016	2006			
26*	SWEET NAPHTHA	3,264	2008	2018	2008	5/29/2008	None	N/A
27*	HEAVY BURNER FUEL	9,854	2006	2016	2006			
28*	CRUDE	77,854	1999	2009	2009			
29*	#2 DIESEL SLOP	16,676	2005	2015	2005			
30*	PREMIUM UNLEAD BLEND	16,676	2004	2014	2004			
31*	CRUDE	98,676	2001	2011	2011			
32*	PREMIUM UNLEAD SALES	17,913	1999	2009	2009			
33*	RECOVERY WELL WATER	360	2003	2013	2013			
34*	INJECTION WELL RESERVIOR	360	1999	2009	2009			
35*	REFORMER FEED	43904	2005	2015	2005			
36*	CAT / POLY GAS	43904	2005	2015	2005			
37*	FRENCH DRAIN	121	2001	2011	2011			
38*	EAST OUTFALL	302	2003	2013	2013			
40*	TERMINALS SLOP	400	2007	2017	2007			
41*	TERMINALS SLOP	2798	2008	2018	2008	5/29/2008	None	N/A
42*	TERMINALS SLOP	400	2007	2017	2007			
44*	VRU NAPHTHA	1,751	2008	2018	2008	5/29/2008	None	N/A
45*	ETHANOL	4821	2008	2018	2008	2/24/2008	None	N/A

* Tank inspection schedule is set according to API 650 & 653

BLOOMFIELD REFINERY

UNDERGROUND PROCESS AND WASTEWATER LINES - Inspection & Repair Schedule

Line Number	Description (Service)	Line Size	Construction Material	Inspection Scheduled	Inspection Date	Inspection Results Pass/Fail	Repairs/Maint Needed	Repairs/Maint Completion date
1	Plant Raw Water Supply	6	Carbon steel	2012				
2	Plant Raw Water Supply	6	PVC	2013				
3	Water Filter Back Flush	6	PVC	2013				
4	Plant Process Wtr./Fire Wtr.	8	PVC	2013				
5	Plant Process Wtr./Fire Wtr.	8	Carbon steel	2013				
6	Plant Process Wtr. Feed	6	Carbon steel	2013				
7	Plant Raw Wtr. Pump Suct.	16	Carbon steel	2013				
8	Effilent Wtr. Transfer Line	6	PVC	2012				
9	Effilent Wtr. Trans. Pump	6	PVC	2012				
10	Effilent Wtr. Pump Disch.	6	PVC	2012				
11	Injection Well Recir. Line	6	PVC	2012				
12	River Terrace Transfer Line	2	PVC	2012				
13	Crude Transfer Line	12	Carbon steel	2008	May-08	Pass	None	N/A
14	Steam Header at Terminals	6	Carbon steel	2011				
15	Condensate Return Header	4	Carbon steel	2011				
16	C-4 To Blend	4	Carbon steel	2008	May-08	Pass	None	N/A
17	Diesel Sales Line	12	Carbon steel	2007	Nov-07	Pass	None	N/A
18	Lite Natural Line	12	Carbon steel	2007	Nov-07	Pass	None	N/A
19	(DEAD) Out Of Service	12	Carbon steel	out of service				
20	Lite Straight Run Product	4	Carbon steel	2011				
21	Poly Material To Storage	3	Carbon steel	2011				
22	Poly Unit Feed Line	3	Carbon steel	2011				
23	LPG Rerun Line	2	Carbon steel	2010				
24	Saturate To Storage	2	Carbon steel	2010				
25	C-4 To Storage	2	Carbon steel	2010				
26	C-3 To Storage	2	Carbon steel	2010				
27	JP-8 Sales Line	8	Carbon steel	out of service				
28	#1 Diesel Sales From Tk.18	6	Carbon steel	2007	Nov-07	Pass	None	N/A
29	Slop Line ToTk. # 221	4	Carbon steel	out of service				
30	Isomerate/Naptha Line	6	Carbon steel	2008	May-08	Pass	None	N/A
31	Premium Sales	8	Carbon steel	2007	Nov-07	Pass	None	N/A
32	Refomate from Tk.s # 3 & 4	6	Carbon steel	2007	Nov-07	Pass	None	N/A
33	Naptha to VRU	4	Carbon steel	2008	May-08	Pass	None	N/A
34	Naphta Feed To VRU Unit	4	Carbon steel	2008	May-08	Pass	None	N/A
35	Naptha Fill/Rerun To Tk. #44	4	Carbon steel	2008	May-08	Pass	None	N/A
36	#1 Diesel To Bays #1 & 2	8	Carbon steel	2007	Nov-07	Pass	None	N/A
37	(Old Kerosene) To Bay # 3	6	Carbon steel	2011				
38	Premiun Sales Line	10	Carbon steel	2007	Nov-07	Pass	None	N/A
39	Old Unleaded Sales Line	10	Carbon steel	2007	Nov-07	Pass	None	N/A
40	Diesel To Bay # 4	8	Carbon steel	2007	Nov-07	Pass	None	N/A
41	Ethanol Pump Suction Line	8	Carbon steel	2010				
42	Ethanol Unloading Line	4	Carbon steel	2010				
43	Naphtha Unloading Line	6	Carbon steel	2007	Sep-07	Pass	None	N/A
44	Naptha Rundown To Tk.# 35	3	Carbon steel	2010				
45	Naptha Feed Line to Unit	4	Carbon steel	2010				
46	Cooling Water Supply Line	12	Carbon steel	2011				
47	Cooling Water Return Line	12	Carbon steel	2011				

BLOOMFIELD REFINERY

UNDERGROUND PROCESS AND WASTEWATER LINES - Inspection & Repair Schedule

Line Number	Description (Service)	Line Size	Construction Material	Inspection Scheduled	Inspection Date	Inspection Results Pass/Fail	Repairs/Maint Needed	Repairs/Maint Completion date
48	Cooling Water Supply Line	20	Carbon steel	2011				
49	Cooling Water Return Line	20	Carbon steel	2011				
50	Sewer Transfer Line	10	Carbon steel	2010				
51	Sewer Transfer Line	10	Carbon steel	2010				
52	Sewer Transfer Line	12	Carbon steel	2010				
53	Sewer Transfer Line	12	Carbon steel	2010				
54	Sewer Transfer Line	14	Carbon steel	2010				
55	Sewer Transfer Line	14	Carbon steel	2010				
56	Sewer Transfer Line	12	Carbon steel	2010				
57	Sewer Transfer Line	12	Carbon steel	2010				
58	Sewer Transfer Line	14	Carbon steel	2010				
59	Sewer Transfer Line	14	Carbon steel	2010				
60	Sewer Transfer Line	14	Carbon steel	2010				
61	Sewer Transfer Line	12/10	Carbon steel	2010				
62	Sewer Collection Manifold	8>4	Carbon steel	2010				
63	Sewer Collection Manifold	10>4	Carbon steel	2010				
64	Sewer Collection Manifold	8>4	Carbon steel	2010				
65	Sewer Collection Manifold	6	Carbon steel	2010				
66	Sewer Collection Manifold	10>4	Carbon steel	2010				
67	Sewer Collection Manifold	10>4	Carbon steel	2010				
68	Sewer Collection Manifold	8>4	Carbon steel	2010				
69	Sewer Collection Manifold	8>4	Carbon steel	2010				
70	Sewer Collection Manifold	8>4	Carbon steel	2010				
71	Sewer Collection Manifold	8>4	Carbon steel	2010				
72	Sewer Collection Manifold	8>4	Carbon steel	2010				
73	Sewer Collection Manifold	8>4	Carbon steel	2010				
74	Sewer Collection Manifold	6>3	Carbon steel	2010				
75	Sewer Collection Manifold	4	Carbon steel	2010				
76	Sewer Collection Manifold	4	Carbon steel	2009				
77	Sewer Collect./Transfer Line	6	Carbon steel	2009				
78	Sewer Transfer Line	10	Carbon steel	2009				
79	Sewer Transfer Line	10	Carbon steel	2009				
80	Sewer Collection Manifold	6/4	Carbon steel	2009				
81	Sewer Transfer Line	10	Carbon steel	2009				
82	Sewer Transfer Line	10	Carbon steel	2009				
83	Sewer Collection Manifold	10>4	Carbon steel	2009				
84	Sewer Collection Manifold	6>2	Carbon steel	2008				
85	Sewer Transfer Line	10	Carbon steel	2008				
86	Sewer Transfer Line	12	Carbon steel	2008				
87	Sewer Collection Manifold	10>4	Carbon steel	2007	Dec-07	Pass	None	N/A
88	Crude Transfer Line	12	Carbon steel	2008	May-08	Pass	None	N/A
89	Crude Transfer Line	12	Carbon steel	2008	May-08	Pass	None	N/A

Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD
Sent: Wednesday, September 10, 2008 10:41 AM
To: 'Schmaltz, Randy'; Price, Wayne, EMNRD; Macquesten, Gail, EMNRD
Cc: Allen, Ann; Edmund H. Kendrick
Subject: RE: Bloomfield Underground line, Tanks, and Sumps IMR Compliance with the NMOCD Final Stipulated Order (GW-001)

Mr. Schmaltz:

Re: NMOCD Final Stipulated Order (FSO) & NMOCD Preliminary Response

The NMOCD is in receipt of your response to my e-mail dated 7/31/2008 related to the FSO. Please note that were no attachments included with your e-mail msg. below in case you intended to resubmit requested items electronically. Please send revised items electronically for NMOCD review of the revisions. Once NMOCD approves, final hard copies may be sent to NMOCD for our file.

A few preliminary comments on your message below are as follows:

Item 1) The NMOCD was unable to locate Tanks 9 – 10, and 34 on the map that was submitted by WRSW. I presume the map has been edited to now show the locations? If not, please help me locate them on the map and/or provide an arrow showing the tanks.

Item 2) Ok. Good.

Item 3) Ok. I will review the updated spreadsheet or table upon receipt.

Item 4) Ok. I will review the updated spreadsheet or table upon receipt.

WRSW has confirmed that Tanks 1, 6 -7, 15 -16, 21 -22, 39, 43, and any other unidentified tanks missing from the table are either non-existent, out-of-service, contain inert fluids, etc. In the case of Tank 43, it is scheduled to be torn down. WRSW is aware of discoveries of contamination and mechanism(s) for reporting any releases to soils, etc. during the decommissioning process to the NMOCD.

Please contact me if you have questions. 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) 476-3491
Fax: (505) 476-3462
E-mail: CarlJ.Chavez@state.nm.us
Website: http://www.emnrd.state.nm.us/ocd/index.htm
(Pollution Prevention Guidance is under "Publications")

From: Schmaltz, Randy [mailto:Randy.Schmaltz@wnr.com]
Sent: Tuesday, September 09, 2008 3:03 PM
To: Chavez, Carl J, EMNRD; Price, Wayne, EMNRD; Macquesten, Gail, EMNRD
Cc: Allen, Ann; Edmund H. Kendrick
Subject: Re: Bloomfield Underground line, Tanks, and Sumps IMR Compliance with the NMOCD Final Stipulated Order (GW-001)

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In addition to the previous submittal Western is providing the following responses to OCD's requests for additional information as agreed in our 9/5/2008 phone conversation.

Item 1) Cindy Hurtado from Western provided an updated map on July 24, 2008.

Item 2) Western will maintain and include an updated Inspection, Maintenance and Repair (IMR) section in each Annual Ground Water Monitoring Report once approved by the NMOCD.

Item 3) Pits/Ponds have been added to the IMR spreadsheets.

Item 4) Western has revised the "Tanks-Inspection & Repair Schedule" to clarify the inspection dates and is providing the following tank specific information as requested in your 7/31/2008 email:

Tank Number	Capacity	Last Internal Inspection & results	Next Internal Inspection
• Tank 3	9,365 bbls	2003 Passed	2013
• Tank 4	9,365 bbls	2003 Passed	2013
• Tank 5	9,096 bbls	2007 Passed	2017 (OCD-SFO 1-time requirement met in 2007)
• Tank 8	460 bbls	2007 Passed	2017 (OCD-SFO 1-time requirement met in 2007)
• Tank 9	460 bbls	1998 Passed	2008
• Tank 10	360 bbls	2007 Passed	2017 (OCD-SFO 1-time requirement met in 2007)
• Tank 13	27,646 bbls	2008 Passed	2018 (OCD-SFO 1-time requirement met in 2008)
• Tank 14	27,615 bbls	2005 Passed	2015 (OCD-SFO 1-time requirement met in 2005)
• Tank 17	38,403 bbls	2006 Passed	2016 (OCD-SFO 1-time requirement met in 2006)
• Tank 19	34,991 bbls	2000 Passed	2010
• Tank 20	10,000 bbls	2007 Passed	2017 (OCD-SFO 1-time requirement met in 2007)
• Tank 23	38,402 bbls	2002 Passed	2012
• Tank 24	10,107 bbls	2006 Passed	2016 (OCD-SFO 1-time requirement met in 2006)
• Tank 25	10,107 bbls	2006 Passed	2016 (OCD-SFO 1-time requirement met in 2006)

- Tank 26 3,264 bbls 2008 Passed 2018 (OCD-SFO 1-time requirement met in 2008)
- Tank 27 9,854 bbls 2006 Passed 2016 (OCD-SFO 1-time requirement met in 2006)
- Tank 29 16,676 bbls 2005 Passed 2015 (OCD-SFO 1-time requirement met in 2005)
- Tank 30 16,676 bbls 2004 Passed 2014 (OCD-SFO 1-time requirement met in 2004)
- Tank 32 17,913 bbls 1999 Passed 2009
- Tank 33 360 bbls 2003 Passed 2013
- Tank 34 360 bbls 1999 Passed 2009
- Tank 35 43,904 bbls 2005 Passed 2015 (OCD-SFO 1-time requirement met in 2005)
- Tank 36 43,904 bbls 2005 Passed 2015 (OCD-SFO 1-time requirement met in 2005)
- Tank 37 121 bbls 2001 Passed 2011
- Tank 38 302 bbls 2003 Passed 2013
- Tank 40 400 bbls 2007 Passed 2017 (OCD-SFO 1-time requirement met in 2007)
- Tank 41 2,798 bbls 2008 Passed 2018 (OCD-SFO 1-time requirement met in 2008)
- Tank 42 400 bbls 2007 Passed 2017 (OCD-SFO 1-time requirement met in 2007)
- Tank 44 1,751 bbls 2008 Passed 2018 (OCD-SFO 1-time requirement met in 2008)
- Tank 45 4,821 bbls 2008 Passed 2018 (OCD-SFO 1-time requirement met in 2008)

Western confirms that Tanks 1, 6, 7, 15, 16, 21, 22, & 39 are no longer in existence. Tank 43 is no longer in service and is scheduled to be torn down.

I have also enclosed the revised "Tank- Inspection & Repair Schedule" spreadsheet.

Thanks for your help and consideration

Randy Schmaltz
Western Refining Southwest, Inc.
Bloomfield Refinery
Direct: (505) 632-4171
E-mail: randy.schmaltz@wnr.com

This inbound email has been scanned by the MessageLabs Email Security System.

Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD

Sent: Thursday, July 31, 2008 3:02 PM

To: 'Schmaltz, Randy'

Cc: Hurtado, Cindy; Macquesten, Gail, EMNRD; Price, Wayne, EMNRD; Monzeglio, Hope, NMENV; Perrin, Charlie, EMNRD

Subject: RE: Bloomfield Underground line, Tanks, and Sumps IMR Compliance with the NMOCD Final Stipulated Order

Mr. Schmaltz::

Re: Compliance with Western Refining Southwest (WRSW)- Bloomfield Refinery (GW-001) New Mexico Oil Conservation Division Stipulated Order & Tracking of Inspections, Maintenance & Reporting (IMR) Revisions

The New Mexico Oil Conservation Division (NMOCD) has completed its review of your July 10, 2008 submittal intended to address "Item 4" below (see Historical Correspondence- red text below). The submittal appears to be in order; however, the following revisions and/or responses are required:

1) An updated aerial plot map is required displaying all of the tanks listed in the table and any forgotten tanks. The NMOCD was unable to locate Tanks 9 – 10, and 34 on the map that was submitted by WRSW. In addition, some tank numbers appear to be missing from the table.

2) The operator shall maintain and include an updated IMR section in each Annual Ground Water Monitoring Report once approved by the NMOCD.

3) Pits/Ponds need to be added to the spreadsheets.

4) The dates need to be revised up through March 1, 2013 for all locations or units to undergo inspection/testing. Only large tanks (>50,000 bbls.) are exempted from testing within the next 5 years. WRSW shall revise the "Tanks- Inspection & Repair Schedule" to denote tanks that are exempted and tanks that are not exempted in the spreadsheet with the new date for inspection (< March 1, 2013, based on the less than 50,000 bbl limit.

Consequently, the following tanks must all be tested before March 1, 2013: Tanks 3 – 5, 8 -10; 13 – 14, 17, 19 – 20, 23 -27, 29 - 30, 32 -38, 40 – 42, and 44 – 45. WRSW shall also confirm that Tanks 1, 6 -7, 15 -16, 21 -22, 39, 43, and any other unidentified tanks missing from the table are either non-existent, out-of-service, contain inert fluids, etc.

The above revisions shall be submitted 30 days from receipt of this message or by a date approved by the NMOCD. Please contact me if you have questions. Thank you.

HISTORICAL CORRESPONDENCE:

From: Schmaltz, Randy [mailto: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

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

This inbound email has been scanned by the MessageLabs Email Security System.

From: Chavez, Carl J, EMNRD
Sent: Tuesday, April 29, 2008 12:27 PM
To: Macquesten, Gail, EMNRD
Cc: Sanchez, Daniel J., EMNRD; Price, Wayne, EMNRD; Randy Schmaltz
Subject: RE: Giant Refining Company

Gail:

Western Refining SW- Bloomfield Refinery had completed a spreadsheet to address the Item #4 below and the OCD Final Stipulated Order and included it in Section 10 of a report entitled, "OCD Discharge Plan Application For Modification" (July 2007).

According to OCD- EB records, and the time line of messages provided below, I believe that the OCD is still waiting for Western Refining SW- Bloomfield Refinery to address OCD comments on Item #4 below in red text to complete compliance with the OCD Final Stipulated Order. I believe Western Refining SW has satisfied all items of the Final Stipulated Order with the exception of Item #4 below.

Randy Schmaltz (Western Refinery SW- Bloomfield Refinery), by receipt of this message, could you please provide the OCD with an update on Item #4 below to address the OCD Final Stipulated Order? Perhaps you updated it and sent it to me electronically or in hardcopy, but I cannot find it?

Thank you.

4) Section 10 requirements are to be completed one time within the next 5 years (OCD extended to 3/1/2013) and are as follows:

a) An electronic version of the spreadsheet is requested to assist OCD with tracking the inspections, maintenance and reporting (IMR).
b) Columns for "Inspection, Maintenance, and Repair" shall be added to the spreadsheet to track one and/or multiple items performed at the same unit at the same time. A field with "date", "ok" or "problem" (also denoted w/ an asterisk to explain at the bottom of the spreadsheet what action was conducted to correct the problem) shall be added to the spreadsheet to report the results of the IMR to the OCD. The OCD recommends that WRSW provides separate spreadsheets for different locations or units (i.e., sumps, tanks, API, etc.) for simplified review of compliance with dates, etc. of the SFO. The operator shall provide an annual report in a format that satisfies the above with the Annual Ground Water Monitoring Report.
c) A storage tank numbering system shall be implemented at the facility with tank number references in the spreadsheet to show the exact tank of concern. A numbering system for other units is recommended.
d) Pits/Ponds shall be added to the spreadsheet.
e) The dates need to be revised up through March 1, 2013 for all locations or units to undergo testing. Only large tanks are exempted (see paragraph below) and WRSW needs to denote tanks that are exempted in the spreadsheet with the new date for the inspection.

The "OCD Tank Inspection" spreadsheet indicates a 10 year inspection frequency; however, the SFO indicates that all locations or units are required on a one time basis to be tested within 5 years of the SFO date (3/1/2006) or by March 1, 2011. Exempted from this one time testing requirement are large tanks that have been tested

within the past five years or are due to be tested within the next five years under other regulatory agency rules, regulations or guidelines, or under any other standards accepted by regulatory agencies, such as API Code 653, provided that the tanks shall be identified in the spreadsheet and test dates and results provided to the OCD. WRSW may request a time extension for accomplishing requirement or recommendations, which the OCD, in its sole discretion, may grant for good cause shown by WRSW. The OCD extends the end of the one time five year date to March 1, 2013 for good cause.

In conclusion, the OCD concludes that WRSW has complied with SFO Section I.V. Compromise and Settlement (Section 18(a)(c). WRSW shall address Item #4 above to satisfy Section 18(b) of the SFO. Regarding Section 18 (c), the OCD has opted to address the modification in the discharge permit renewal process for good cause.

Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD

Sent: Tuesday, September 02, 2008 3:22 PM

To: Chavez, Carl J, EMNRD; 'Schmaltz, Randy'

Cc: 'Hurtado, Cindy'; Macquesten, Gail, EMNRD; Price, Wayne, EMNRD; Monzeglio, Hope, NMENV; Perrin, Charlie, EMNRD; 'Allen, Ann'

Subject: RE: Bloomfield Underground line, Tanks, and Sumps IMR Compliance with the NMOCD Final Stipulated Order (GW-001)

Mr. Schmaltz:

Western Refining Southwest- Bloomfield Refinery appears to have missed the August 31, 2008 due date stipulated below. This matter has been turned over to Ms. Gail Macquesten (NMOCD Attorney) for final resolution.

Please contact me if you have questions. 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) 476-3491
Fax: (505) 476-3462
E-mail: CarlJ.Chavez@state.nm.us
Website: http://www.emnrd.state.nm.us/ocd/index.htm
(Pollution Prevention Guidance is under "Publications")

From: Chavez, Carl J, EMNRD
Sent: Thursday, July 31, 2008 3:02 PM
To: 'Schmaltz, Randy'
Cc: Hurtado, Cindy; Macquesten, Gail, EMNRD; Price, Wayne, EMNRD; Monzeglio, Hope, NMENV; Perrin, Charlie, EMNRD
Subject: RE: Bloomfield Underground line, Tanks, and Sumps IMR Compliance with the NMOCD Final Stipulated Order

Mr. Schmaltz::

Re: Compliance with Western Refining Southwest (WRSW)- Bloomfield Refinery (GW-001) New Mexico Oil Conservation Division Stipulated Order & Tracking of Inspections, Maintenance & Reporting (IMR) Revisions

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Cc: Hurtado, Cindy
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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.

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Thanks
Randy

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Cc: Sanchez, Daniel J., EMNRD; Price, Wayne, EMNRD; Randy Schmaltz
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Randy Schmaltz (Western Refinery SW- Bloomfield Refinery), by receipt of this message, could you please

provide the OCD with an update on Item #4 below to address the OCD Final Stipulated Order? Perhaps you updated it and sent it to me electronically or in hardcopy, but I cannot find it?

Thank you.

4) Section 10 requirements are to be completed one time within the next 5 years (OCD extended to 3/1/2013) and are as follows:

a) An electronic version of the spreadsheet is requested to assist OCD with tracking the inspections, maintenance and reporting (IMR).

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CERTIFIED MAIL 7006 0810 0003 7020 6998

July 29, 2008

James Bearzi, Bureau Chief
New Mexico Environment Department
Hazardous Waste Bureau
2905 Rodeo Park Drive East, Bldg 1
Santa Fe, NM 87505

Re: Response to May 9, 2008 NOTICE OF DISAPPROVAL
Financial Assurance Cost Estimate
Per Order No. HWB 07-34 (CO)
Western Refining, Bloomfield Refinery
EPA ID# NMD089416416
HWB-GRCB-MISC

Dear Mr. Bearzi:

Western Refining Southwest, Inc.- Bloomfield Refinery has prepared the following responses to your comments (dated May 9, 2008) on the financial assurance cost estimate. The revised cost estimate is enclosed.

Comment 1

The cost estimates provided by Western are presented in table format wit the following column headings: "Soil Borings, Monitor Wells, Total Investigation Costs, O&M Costs, and Total Costs." Western must define the headings and discuss their meanings and, if appropriate, their components. For example, it is not clear what costs comprise the "Total Investigation Costs" and what activities or costs are represented by "Monitor Wells". In addition, the cost estimates within these headings must be broken down with greater detail (e.g., "Total Remediation Costs" for Interim Status Unit shows $35,532, but it is not clear how the $35,532 is allocated.) In general, NMED must be able to account all costs, discern the cost allocation, and determine how the costs were derived. All cost estimates must include NMED's document review fees. Revise the tables accordingly.

Response: The financial assurance cost estimate summary table has been revised pursuant to the New Mexico Environment Department's (NMED) comments. Based on comment 3, the columns with headings Soil Borings, Monitor Wells, and Total Investigation Costs have been deleted since these costs will have been incurred before any remedies are selected. This leaves only columns related to remediation costs and these have been revised to reflect the division of costs as required in Section X.F.10.f of the Order. This section focuses on the anticipated costs of implementing the corrective measures and specifies that the "costs shall be divided into :1) capital costs associated with construction, installation, pilot testing, evaluation, permitting, and reporting of the effectiveness of the alternative; and 2) continuing costs associated with operating, maintaining, monitoring, testing, and reporting on the use and effectiveness of the

50 Road 4990, Bloomfield, New Mexico 87413 • 505 632-8013 • www.wnr.com
Mail: P.O. Box 159, Bloomfield, New Mexico 87413

technology." The two respective columns have headings of Capital Costs and Operation and Maintenance Costs.

The costs presented in the summary table will be supplemented with SWMU/AOC specific costs tables as remedies are selected for the various SWMU/AOCs. A detailed cost table for Interim Status Unit No. 1 is enclosed. Similarly, detailed cost tables are included for the various interim measures. Where costs are not yet applicable (e.g., for SWMUs where a remedy has not yet been selected), $0 is entered for the current costs.

Comment 2
The cost estimate submitted for the Interim Status Unit No. 1 (North and South Aeration Lagoons) must be revised to address Comment 1.

Response: A detailed cost estimate table for Interim Status Unit No. 1 is enclosed.

Comment 3
Western must revise the cost estimates for all SWMUs as follows:

a. *Cost estimates are not needed at the present time for SWMUs or AOCs because remedies for these sites have not yet been selected. Group 2 will be the first group of SWMUs that will need cost estimates if and when remedies are selected.*
b. *Cost estimates must address Comment 1.*

Response: See response to comment 1 above.

Comment 4
Western must revise the cost estimates for the Interim Measures and Facility Wide Groundwater Monitoring operations and maintenance cost to address Comment 1.

Response: Detailed cost estimates are enclosed for each of the activities associated with the Interim Measures and Facility-Wide Groundwater Monitoring.

If you have questions or would like to discuss the revised cost estimates, please contact me at (505) 632-4171.

Sincerely,

James R. Schmaltz
Western Refining, Bloomfield Refinery

Enclosures
cc: Hope Monzeglio – NMED HWB
Wayne Price - NMOCD
Dave Cobrain – NMED HWB
John Kieling – NMED HWB
C. Frischkorn – NMED HWB
Laurie King – EPA Region 6
Allen Hains – Western Refining El Paso

Western Refining Southwest, INC.
Bloomfield, New Mexico Refinery
NMED Order No. HWB 07-34 (CO) -- Financial Assurance Cost Estimate
7/29/2008

Waste Management Area	NMED Order Provision	Capital Costs[1]	Operation & Maintenance Costs[2]	NMED Review Fees	Total Costs	Explanation
Solid Waste Management Units (SWMU's) Investigation, Remediation, & associated reports						
Group 1						
Interim Status Unit No. 1: North & South Aeration Lagoons - Closure Plan Implementation	IV.B.5	$35,532	$0		$35,532	Closure costs taken from 2008 Closure Plan, See Table A for detailed explanation of costs
Remedy Completion Report	VI.D.6			$4,500	$4,500	
				subtotal	$40,032	
Group 2						
SWMU No. 2: Drum Storage Area - North Bone Yard	IV.B.6	$0	$0		$0	
SWMU No. 8: Inactive Landfill	IV.B.6	$0	$0		$0	
SWMU No. 9: Landfill Pond	IV.B.6	$0	$0		$0	
SWMU No. 11: Spray Irrigation Area	IV.B.6	$0	$0		$0	
SWMU No. 18: Warehouse Yard	IV.B.6	$0	$0		$0	
Corrective Measures Implementation Plan	VI.D.2			$0	$0	
Progress Report	VI.D.5			$0	$0	
Remedy Completion Report	VI.D.6			$0	$0	
				subtotal	$0	
Group 3						
SWMU No. 4: Transportation Terminal Sump	IV.B.6	$0	$0		$0	
SWMU No. 5: Heat Exchanger Bundle Cleaning Area & AOC No. 25: Auxiliary Warehouse and 90-day Storage Area	IV.B.6	$0	$0		$0	
AOC No. 22: Product Loading Rack & Crude Receiving Loading Racks	IV.B.6	$0	$0		$0	
AOC No. 23: Southeast Holding Ponds	IV.B.6	$0	$0		$0	
AOC No. 24: Tank Areas 41 and 43	IV.B.6	$0	$0		$0	
AOC No. 26: Tank Area 44 and 45	IV.B.6	$0	$0		$0	
Corrective Measures Implementation Plan	VI.D.2			$0	$0	
Progress Report	VI.D.5			$0	$0	

Western Refining Southwest, INC.
Bloomfield, New Mexico Refinery
NMED Order No. HWB 07-34 (CO) -- Financial Assurance Cost Estimate
7/29/2008

Waste Management Area	NMED Order Provision	Capital Costs[1]	Operation & Maintenance Costs[2]	NMED Review Fees	Total Costs	Explanation
Remedy Completion Report	VI.D.6			$0	$0	
				subtotal	$0	
Group 4						
SWMU No. 7 Raw Water Ponds	IV.B.6	$0	$0		$0	
SWMU No. 10: Fire Training Area	IV.B.6	$0	$0		$0	
SWMU No. 16: Active Landfill	IV.B.6	$0	$0		$0	
Corrective Measures Implementation Plan	VI.D.2			$0	$0	
Progress Report	VI.D.5			$0	$0	
Remedy Completion Report	VI.D.6			$0	$0	
				subtotal	$0	
Group 5						
SWMU No. 15: Tank Farm Area	IV.B.6	$0	$0		$0	
Corrective Measures Implementation Plan	VI.D.2			$0	$0	
Progress Report	VI.D.5			$0	$0	
Remedy Completion Report	VI.D.6			$0	$0	
				subtotal	$0	
Group 6						
AOC No. 19: Seep North of MW-45	IV.B.6	$0	$0		$0	
AOC No. 20: Seep North of MW-46	IV.B.6	$0	$0		$0	
AOC No. 21: Seep North of MW-47	IV.B.6	$0	$0		$0	
Corrective Measures Implementation Plan	VI.D.2			$0	$0	
Progress Report	VI.D.5			$0	$0	
Remedy Completion Report	VI.D.6			$0	$0	
				subtotal	$0	
Group 7						
SWMU No. 17: River Terrace Area	IV.B.6	$0	$0		$0	
Corrective Measures Implementation Plan	VI.D.2			$0	$0	
Progress Report	VI.D.5			$0	$0	

Western Refining Southwest, INC.
Bloomfield, New Mexico Refinery
NMED Order No. HWB 07-34 (CO) -- Financial Assurance Cost Estimate
7/29/2008

Waste Management Area	NMED Order Provision	Capital Costs[1]	Operation & Maintenance Costs[2]	NMED Review Fees	Total Costs	Explanation
Remedy Completion Report	VI.D.6			$0	$0	
				subtotal	$0	
Group 8						
SWMU No. 3: Underground Piping Currently in Use	IV.B.6	$0	$0		$0	
SWMU No. 6: Abandoned Underground Piping	IV.B.6	$0	$0		$0	
Corrective Measures Implementation Plan	VI.D.2			$0	$0	
Progress Report	VI.D.5			$0	$0	
Remedy Completion Report	VI.D.6			$0	$0	
				subtotal	$0	
Group 9						
SWMU No. 13; Process Area	IV.B.6	$0	$0		$0	
SWMU No. 14: Tanks 3, 4, and 5	IV.B.6	$0	$0		$0	
SWMU No. 12: API Separator	IV.B.6	$0	$0		$0	
Corrective Measures Implementation Plan	VI.D.2				$0	
Progress Report	VI.D.5				$0	
Remedy Completion Report	VI.D.6				$0	
				subtotal	$0	

Western Refining Southwest, INC.
Bloomfield, New Mexico Refinery
NMED Order No. HWB 07-34 (CO) -- Financial Assurance Cost Estimate
7/29/2008

Waste Management Area	NMED Order Provision	Capital Costs[1]	Operation & Maintenance Costs[2]	NMED Review Fees	Total Costs	Explanation
Other Areas						
To be determined?	III.Q.1	$0	$0		$0	Section III.G.2 of the NMED Order specifies that either NMED or Western may identify additional areas for corrective action. At this time, no additional areas have been identified.
Corrective Measures Implementation Plan	VI.D.2				$0	
Progress Report	VI.D.5				$0	
Remedy Completion Report	VI.D.6				$0	
				subtotal	$0	
Interim Measures & Facility Wide Ground Water Monitoring						
River Terrace Area Analytical	V.B.1		$129,000		$129,000	5 yrs. Monitoring @$25,800/yr - see detail Table B
River Terrace Annual Report	V.B.1		$17,500	$10,000	$27,500	5 yrs. reporting @$3,500/annual report & NMED fees of $2,000/annual rpt
River Terrace Operation & Maintenance	III.P.1 & V.B.		$40,000		$40,000	GAC filters & maintenance $8,000/yr x 5 yrs
North Barrier Wall collection operations	III.P.1		$116,400		$116,400	Bi-weekly fluid level measurements and passive recovery of PSH (labor 4hrs/biweekly event @ $65/hr = $6,760/yr & equipment $1,000/yr x 15 years)
Facility Wide Ground Water Monitoring (including North Barrier Wall & Tank Farm) analytical costs	IV.A.		$763,305		$763,305	Table C provides detailed cost on a annual basis($50,887) which is multiplied by 15 years pursuant to the Order.
Facility-Wide Annual Monitoring Report (including North Barrier Wall)	IV.A.2.		$105,000	$30,000	$135,000	15 yrs. Monitoring @ $7,000/annual report & NMED fees of $2,000/annual rpt
1# East Outfall	V.C.		$10,650		$10,650	See Table D for detailed estimate; annual cost of $710/yr x 15 years
San Juan River samples			$89,520		$89,520	See Table D for detailed estimate; assume 15 years @$5,968/yr
				subtotal	**$1,311,375**	
CURRENT TOTAL ESTIMATED COSTS TO IMPLEMENT NMED ORDER					**$1,351,407**	

1- capital costs associated with construction, installation, pilot testing, evaluation, permitting, and reporting of the effectiveness of the alternative
2 -continuing costs associated with operating, maintaining, monitoring, testing, and reporting on the use and effectiveness of the technology

TABLE A

Interim Status Unit No. 1 Cost Estimate	
Activity	Cost
Vigorous aeration with diesel pump	
- Operator: 168 hours @ $30/hr	$5,040
- Fuel for Pump: 8 gph x $3.00/gal x 168 hrs	$4,032
Testing of treated water	
- Benzene: 15 samples @ $120/sample	$1,800
Testing of residual solids	
- TCLP: 15 samples @ $500/sample	$7,500
Removal of residual solids	
- Labor: 2 workers @ 40 hrs/ea x $30/hr	$2,400
- Disposal: 40,000 lbs x $0.20/lb + $2,200 freight	$10,200
Washing of impoundments	
- Mobil wash: 24 hours x $80/hr	$1,920
Flushing of equipment	
- Mobil wash: 8 hrs x $80.hr	$640
- Final testing and certification	$2,000
Total Closure Cost	**$35,532**

gph - gallons per hour

TABLE B
RIVER TERRACE SAMPLING COST ESTIMATE

RIVER TERRACE - AQUEOUS					
Analysis	**Frequency**	**# of Samples**	**Cost/Sample**	**Cost per QTR**	**Cost per Year**
8021B	4 X yr	16	$45	$720	$2,880
8015B (GRO, DRO)	4 X yr	16	$70	$1,120	$4,480
Total Pb, Cr, Ba (6010B)	1 X yr	14	$50	$700	$700
Total Pb (6010B)	3 X yr	14	$30	$420	$1,260
Total Hg (7470)	4 X yr	1	$30	$30	$120
RIVER TERRACE - Vapor					
Analysis	**Frequency**	**# of Samples**	**Cost/Sample**	**Cost per QTR**	**Cost per Year**
8021B	4 X yr	16	$45	$720	$2,880
8015B (GRO)	4 X yr	16	$35	$560	$2,240
Tedlar Bags	4 X yr	16	$10	$160	$640
Level 4 Data Packet	4 X yr		$400		$1,600
River Terrace Labor	4 X yr	3 days of 7 hour days	$65/hour	$1,365	$5,460
GAC Breakthrough Sampling					
8021B	12 x yr	1	$45	$345	$540
8015B (GRO, DRO)	12 x yr	1	$70		$840
8021B	4 x yr	3	$45	$135	$540
8015B (GRO, DRO)	4 x yr	3	$70	$210	$840
				Annual analytical costs	$25,020
Annual Sampling Labor -- 12 hours X $65/hr					$780
				Total Annual River Terrace Sampling Costs	$25,800

River terrace sampling conducted pursuant to May 2008 Facility-Wide Groundwater Monitoring Plan (Section 5.4) and Bioventing Monitoring Plan (Revised) River Terrace Voluntary Corrective Measures dated October 28, 2005

TABLE C

Facility-Wide Groundwater Monitoring Cost Estimate

Annual Refinery Complex (33 Wells and East Outfall #2 & #3) [2]				
Analysis	**Frequency**	**# of Samples**	**Cost/Sample**	**Cost per Year**
8260B	Annual	35	$115	$4,025
8015B (GRO, DRO)	Annual	35	$70	$2,450
8270C	Annual	35	$280	$9,800
CO2/Alkalinity (310.1)	Annual	35	$15	$525
Cation Anion Balance + Diss Metals	Annual	35	$229	$8,015
RCRA 8 Metals	Annual	35	$100	$3,500
Ph	Annual	35	$10	$350
Filters		35	$12	$420
Level 4 Data Packet	Annual	1	$3,500	$3,500
Semi-Annual - Refinery Complex MW/RW [2]				
Analysis	**Frequency**	**# of Samples**	**Cost/Sample**	**Cost per Year**
8260B	Semi-Annual [1]	11	$45	$495
8015B (GRO, DRO)	Semi-Annual [1]	11	$70	$770
Level 4 Data Packet	Semi-Annual [1]	1	$200	$200
Semi-Annual - North Barrier Wall OW/CW [3]				
Analysis	**Frequency**	**# of Samples**	**Cost/Sample**	**Cost per Year**
8260B	Semi-Annual	16	$45	$1,440
8015B (GRO, DRO)	Semi-Annual	16	$70	$2,240
Level 4 Data Packet	Semi-Annual	1	$200	$400
Semi-Annual River Bluff (Outfall 2 & 3, & Seeps 1, 6, 7, 8, & 9) [4]				
Analysis	**Frequency**	**# of Samples**	**Cost/Sample**	**Cost per Year**
8260B	Semi-Annual	7	$45	$630
8270C	Semi-Annual	5	$280	$2,800
8015B (GRO, DRO)	Semi-Annual	2	$70	$280
CO2/Alkalinity (310.1)	Semi-Annual	7	$15	$210
Cation Anion Balance + Diss Metals	Semi-Annual	7	$229	$3,199
RCRA 8 Metals	Semi-Annual	2	$100	$400
Ph	Semi-Annual	2	$10	$40
Filters		2	$12	$48
Level 4 Data Packet	Semi-Annual	2	$150	$600
Sampling Labor	Semi-Annual & Annual events	10 Days of 7 hour days	$65/hour	$4,550
Total Annual - Facility-Wide Groundwater Sampling & Analysis				$50,887

1 - The other "semiannual event" is included with the Refinery Complex annual event

2 - Sampling pursuant to May 2008 Facility-Wide Groundwater Monitoring Plan, Section 5.1

3 - Sampling pursuant to May 2008 Facility-Wide Groundwater Monitoring Plan, Section 5.2

4 - Sampling pursuant to May 2008 Facility-Wide Groundwater Monitoring Plan, Section 5.3

TABLE D

#1 East Outfall (Tank 33) Cost Estimate [1]

Analysis	Frequency	# of Samples	Cost/Sample	Cost per year
8260B	4 X yr	1	$45	$180
Level 4 Data Packet	4 X yr	1	$100	$400
			Annual analytical costs	$580
Sampling Labor	2 X yr	1 hour each event	$65/hour	$130
			Total Annual #1 East Outfall Sampling Costs	$710

TABLE E

San Juan River Sampling Cost Estimate [2]

Analysis	Frequency	# of Samples	Cost/Sample	Cost per year
8260B	2 X yr	4	$45	$360
8015B (GRO, DRO)	2 X yr	4	$70	$560
CO2/Alkalinity (310.1)	2 X yr	4	$15	$120
Cation Anion Balance + Diss Metals	2 X yr	4	$229	$1,832
RCRA 8 Metals	2 X yr	4	$100	$800
Ph	2 X yr	4	$10	$80
Filters		4	$12	$96
Level 4 Data Packet	2 X yr	1	$800	$1,600
			Annual analytical costs	$5,448
Sampling Labor	Semi-Annual	4 hours each event	$65/hour	$520
			Total Annual San Juan River Sampling Costs	$5,968

1 - Sampling pursuant to May 2008 Facility-Wide Groundwater Monitoring Plan, Section 5.3
2 - Sampling pursuant to May 2008 Facility-Wide Groundwater Monitoring Plan, Section 5.4

Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD

Sent: Thursday, July 31, 2008 3:02 PM

To: 'Schmaltz, Randy'

Cc: Hurtado, Cindy; Macquesten, Gail, EMNRD; Price, Wayne, EMNRD; Monzeglio, Hope, NMENV; Perrin, Charlie, EMNRD

Subject: RE: Bloomfield Underground line, Tanks, and Sumps IMR Compliance with the NMOCD Final Stipulated Order

Mr. Schmaltz::

Re: Compliance with Western Refining Southwest (WRSW)- Bloomfield Refinery (GW-001) New Mexico Oil Conservation Division Stipulated Order & Tracking of Inspections, Maintenance & Reporting (IMR) Revisions

The New Mexico Oil Conservation Division (NMOCD) has completed its review of your July 10, 2008 submittal intended to address "Item 4" below (see Historical Correspondence- red text below). The submittal appears to be in order; however, the following revisions and/or responses are required:

1) An updated aerial plot map is required displaying all of the tanks listed in the table and any forgotten tanks. The NMOCD was unable to locate Tanks 9 – 10, and 34 on the map that was submitted by WRSW. In addition, some tank numbers appear to be missing from the table.

2) The operator shall maintain and include an updated IMR section in each Annual Ground Water Monitoring Report once approved by the NMOCD.

3) Pits/Ponds need to be added to the spreadsheets.

4) The dates need to be revised up through March 1, 2013 for all locations or units to undergo inspection/testing. Only large tanks (>50,000 bbls.) are exempted from testing within the next 5 years. WRSW shall revise the "Tanks- Inspection & Repair Schedule" to denote tanks that are exempted and tanks that are not exempted in the spreadsheet with the new date for inspection (< March 1, 2013, based on the less than 50,000 bbl limit.

Consequently, the following tanks must all be tested before March 1, 2013: Tanks 3 – 5, 8 -10; 13 – 14, 17, 19 – 20, 23 -27, 29 - 30, 32 -38, 40 – 42, and 44 – 45. WRSW shall also confirm that Tanks 1, 6 -7, 15 -16, 21 -22, 39, 43, and any other unidentified tanks missing from the table are either non-existent, out-of-service, contain inert fluids, etc.

The above revisions shall be submitted 30 days from receipt of this message or by a date approved by the NMOCD. Please contact me if you have questions. Thank you.

HISTORICAL CORRESPONDENCE:

From: Schmaltz, Randy [mailto: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

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

This inbound email has been scanned by the MessageLabs Email Security System.

From: Chavez, Carl J, EMNRD
Sent: Tuesday, April 29, 2008 12:27 PM
To: Macquesten, Gail, EMNRD
Cc: Sanchez, Daniel J., EMNRD; Price, Wayne, EMNRD; Randy Schmaltz
Subject: RE: Giant Refining Company

Gail:

Western Refining SW- Bloomfield Refinery had completed a spreadsheet to address the Item #4 below and the OCD Final Stipulated Order and included it in Section 10 of a report entitled, "OCD Discharge Plan Application For Modification" (July 2007).

According to OCD- EB records, and the time line of messages provided below, I believe that the OCD is still waiting for Western Refining SW- Bloomfield Refinery to address OCD comments on Item #4 below in red text to complete compliance with the OCD Final Stipulated Order. I believe Western Refining SW has satisfied all items of the Final Stipulated Order with the exception of Item #4 below.

Randy Schmaltz (Western Refinery SW- Bloomfield Refinery), by receipt of this message, could you please provide the OCD with an update on Item #4 below to address the OCD Final Stipulated Order? Perhaps you updated it and sent it to me electronically or in hardcopy, but I cannot find it?

Thank you.

4) Section 10 requirements are to be completed one time within the next 5 years (OCD extended to 3/1/2013) and are as follows:

a) An electronic version of the spreadsheet is requested to assist OCD with tracking the inspections, maintenance and reporting (IMR).
b) Columns for "Inspection, Maintenance, and Repair" shall be added to the spreadsheet to track one and/or multiple items performed at the same unit at the same time. A field with "date", "ok" or "problem" (also denoted w/ an asterisk to explain at the bottom of the spreadsheet what action was conducted to correct the problem) shall be added to the spreadsheet to report the results of the IMR to the OCD. The OCD recommends that WRSW provides separate spreadsheets for different locations or units (i.e., sumps, tanks, API, etc.) for simplified review of compliance with dates, etc. of the SFO. The operator shall provide an annual report in a format that satisfies the above with the Annual Ground Water Monitoring Report.
c) A storage tank numbering system shall be implemented at the facility with tank number references in the spreadsheet to show the exact tank of concern. A numbering system for other units is recommended.
d) Pits/Ponds shall be added to the spreadsheet.
e) The dates need to be revised up through March 1, 2013 for all locations or units to undergo testing. Only large tanks are exempted (see paragraph below) and WRSW needs to denote tanks that are exempted in the spreadsheet with the new date for the inspection.

The "OCD Tank Inspection" spreadsheet indicates a 10 year inspection frequency; however, the SFO indicates that all locations or units are required on a one time basis to be tested within 5 years of the SFO date (3/1/2006) or by March 1, 2011. Exempted from this one time testing requirement are large tanks that have been tested

within the past five years or are due to be tested within the next five years under other regulatory agency rules, regulations or guidelines, or under any other standards accepted by regulatory agencies, such as API Code 653, provided that the tanks shall be identified in the spreadsheet and test dates and results provided to the OCD. WRSW may request a time extension for accomplishing requirement or recommendations, which the OCD, in its sole discretion, may grant for good cause shown by WRSW. The OCD extends the end of the one time five year date to March 1, 2013 for good cause.

In conclusion, the OCD concludes that WRSW has complied with SFO Section I.V. Compromise and Settlement (Section 18(a)(c). WRSW shall address Item #4 above to satisfy Section 18(b) of the SFO. Regarding Section 18 (c), the OCD has opted to address the modification in the discharge permit renewal process for good cause.

BLOOMFIELD REFINERY

TANKS - INDEX

TANK #	Service	Normal Capacity Bbls	Capacity Gallons
2	FILTERED WATER	64,347	2702574
3	MID-GRADE	9,365	393330
4	MID-GRADE	9,365	393330
5	ISOMERATE	9096	382032
8	CRUDE SLOP	460	19320
9	CRUDE SLOP	460	19320
10	SPENT CAUSTIC	360	15120
11	LOW REFORMATE	50,358	2115036
12	CAT / POLY GAS	50,358	2115036
13	UNLEAD SALES	27,646	1161132
14	UNLEAD SALES	27,615	1159830
17	CAT FEED	38403	1612926
18	#1 DIESEL SALES	50358	2115036
19	#2 DIESEL SALES	34991	1469622
20	NAPHTHA	10000	420000
23	BASE GASOLINE	38,402	1612884
24	ULS DIESEL	10107	424494
25	ULS DIESEL	10107	424494
26	SWEET NAPHTHA	3,264	137088
27	HEAVY BURNER FUEL	9,854	413868
28	CRUDE	77,854	3269868
29	#2 DIESEL SLOP	16,676	700392
30	PREMIUM UNLEAD BLEND	16,676	700392
31	CRUDE	98,676	4144392
32	PREMIUM UNLEAD SALES	17,913	752346
33	RECOVERY WELL WATER	360	15120
34	INJECTION WELL RESERVOIR	360	15120
35	REFORMER FEED	43904	1843968
36	CAT / POLY GAS	43904	1843968
37	FRENCH DRAIN	121	5082
38	EAST OUTFALL	302	12684
40	TERMINALS SLOP	400	16800
41	TERMINALS SLOP	2798	117516
42	TERMINALS SLOP	400	16800
44	VRU NAPHTHA	1,751	73542
45	ETHANOL	4821	202482

BLOOMFIELD REFINERY

SUMPS & SEWER BOXES - INDEX

Sump Number	Location	Description (Service)	Type Material	Length Size	Width Size	Depth/ft	Unit/Group	Capicity Gal.	DRAWING REFERENCE
1	Fire Pump House	Blow Down Sump	Concrete	4	4	8	Tank # 2	957.4	N/A
2	(Crude) Sewer Box # 12	Sewer Collection Box	Concrete	4	4	4.7	Crude Unit	562.5	D-500-100-032
3	(Crude) Sewer Box # 11	Sewer Collection Box	Concrete	4	4	4.9	Crude Unit	586.4	D-500-100-032
4	(Crude) Sewer Box # 9	Sewer Collection Box	Concrete	4	4	6.01	Crude Unit	719.3	D-500-100-032
5	(Crude) Sewer Box # 8	Sewer Collection Box	Concrete	4	4	6.26	Crude Unit	749.2	D-500-100-032
6	(Crude) Sewer Box # 7	Sewer Collection Box	Concrete	4	4	6.53	Crude Unit	781.5	D-500-100-032
7	(Crude) Sewer Box # 5	Sewer Collection Box	Concrete	4	4	6.25	Crude Unit	748.0	D-500-100-032
8	(Crude) Sewer Box # 1	Sewer Collection Box	Concrete	4	4	7.87	Crude Unit	941.9	D-500-100-032
9	(Gas Con) Sewer Box	Sewer Collection Box	Concrete	3	3	3	Gas Con Unit	202.0	N/A
10	(FCC) Sewer Box # 1	Sewer Collection Box	Concrete	3.5	3.5	4	FCC Unit	366.5	N/A
11	(FCC) Sewer Box # 2	Sewer Transfer Box	Concrete	3.5	3.5	4	FCC Unit	366.5	N/A
12	(Treater) Sewer Box	Sewe Collection Box	Concrete	4	4	4	Treater Unit	478.7	N/A
13	(Treater) Sewer Box	Sewer Collection Box	Concrete	4	4	6	Wet Gas Comp.	718.1	N/A
14	(DHT) Sewer Box # 18	Sewer Collection Box	Concrete	4	4	5	DHT Unit	598.4	N/A
15	(DHT) Sewer Box # 17	Sewer Transfer Box	Concrete	4	4	4.62	Poly Unit	552.9	N/A
16	Sump @ S.W. Side Of Tk. 3	Tank Drain Sump	Concrete	4	4	4	Tank Farm	478.7	N/A
17	Sump Between Tk. 3 & 4	Tank Drain Sump	Concrete	4	4	4	Tank Farm	478.7	N/A
18	Sump Between Tk. 4 & 5	Tank Drain Sump	Concrete	6	10	4	Tank Farm	1795.2	N/A
19	Sump @ N.Side Of Tk. 5	Tank Drain Sump	Concrete	4	4	4	Tank Farm	478.7	N/A
20	Sump Between Tk. 11 & 12	Tank Drain Sump	Concrete	6	10	4	Tank Farm	1795.2	N/A
21	Sump Between Tk. 13 & 14	Tank Drain Sump	Concrete	6	10	4	Tank Farm	1795.2	N/A
22	Sump @ N. Side Of Tk. 17	Tank Drain Sump	Concrete	4	4	4	Tank Farm	478.7	N/A
23	Sump @ N.E. Side Of Tk. 18	Tank Drain Sump	Concrete	6	10	4	Tank Farm	1795.2	N/A
24	Sump @ N.E. Side Of Tk. 19	Tank Drain Sump	Concrete	6	10	4	Tank Farm	1795.2	N/A
25	Sump @ S.W. Side Of Tk. 20	Tank Drain Sump	DW Steel	4	4	4	Tank Farm	478.7	N/A
26	Sump @ S. Side Of Tk. 23	Tank Drain Sump	Concrete	4	8	4	Tank Farm	957.4	N/A
27	Sump @ E. Side Of Tk. 24	Tank Drain Sump	DW Steel	4	4	4	Tank Farm	478.7	N/A
28	Sump @ E. Side Of Tk. 25	Tank Drain Sump	Concrete	4	4	4	Tank Farm	478.7	N/A
29	Sump @ N.W. Side Of Tk. 26	Tank Drain Sump	Concrete	4	4	4	Tank Farm	478.7	N/A
30	Sump @ S.E. Side Of Tk. 27	Tank Drain Sump	Concrete	6	10	4	Tank Farm	1795.2	N/A
31	Sump @ West Side Of Tk. 28	Tank Drain Sump	Concrete	6	10	4	Tank Farm	1795.2	N/A
32	Sump @ N.E. Side Of Tk. 29	Tank Drain Sump	Concrete	6	10	4	Tank Farm	1795.2	N/A
33	Sump @ S.W. Side Of Tk. 30	Tank Drain Sump	Concrete	6	10	4	Tank Farm	1795.2	N/A
34	Sump @ N.W. Side Of Tk. 31	Tank Drain Sump	Concrete	6	10	4	Tank Farm	1795.2	N/A
35	Sump @ S.E. Side Of Tk. 31	Tank Drain Sump	Concrete	6	10	4	Tank Farm	1795.2	N/A
36	Sump @ East Side Of Tk. 32	Tank Drain Sump	Concrete	4	4	4	Tank Farm	478.7	N/A
37	Sump @ N.E. Side Of Tk. 35	Tank Drain Sump	Concrete	7.8' Dia	N/A	5.5	Tank Farm	1680.0	N/A
38	Sump @ N.E. Side Of Tk. 36	Tank Drain Sump	Concrete	7.8' Dia.	N/A	5.5	Tank Farm	1680.0	N/A
39	Sump @ S. Side Of Tk. 18	Tank Drain Sump	DW Steel	4	4	4	Tank Farm	478.7	N/A
40	Sump @ S. Side Of Tk. 19	Tank Drain Sump	Concrete	2	2	12	Tank Farm	359.0	N/A

BLOOMFIELD REFINERY

TANKS - Inspection & Repair Schedule

TANK #	Service	Normal Capacity Bbls	Capacity Gallons	Last Inspection	Next Inspection Scheduled	Inspection Date	Repairs/Maint Needed	Repairs/Maint Completion date
2*	FILTERED WATER	64,347	2702574	2000	2010			
3*	MID-GRADE	9,365	393330	2003	2013			
4*	MID-GRADE	9,365	393330	2003	2013			
5*	ISOMERATE	9096	382032	2007	2017	10/22/2007	None	N/A
8*	CRUDE SLOP	460	19320	2007	2017	6/12/2007	None	N/A
9*	CRUDE SLOP	460	19320	1998	2008			
10*	SPENT CAUSTIC	360	15120	2007	2017	8/24/2007	Repaired Hatch	8/24/2007
11*	LOW REFORMATE	50,358	2115036	2002	2012			
12*	CAT / POLY GAS	50,358	2115036	1999	2009			
13*	UNLEAD SALES	27,646	1161132	2008	2018	1/21/2008	Repaired Seal	1/21/2008
14*	UNLEAD SALES	27,615	1159830	2005	2015			
17*	CAT FEED	38403	1612926	2006	2016	10/20/2006	None	N/A
18*	#1 DIESEL SALES	50358	2115036	1999	2009			
19*	#2 DIESEL SALES	34991	1469622	2000	2010			
20*	NAPHTHA	10000	420000	2007	2017	1/21/2007	None	N/A
23*	BASE GASOLINE	38,402	1612884	2002	2012			
24*	ULS DIESEL	10107	424494	2006	2016			
25*	ULS DIESEL	10107	424494	2006	2016			
26*	SWEET NAPHTHA	3,264	137088	2008	2018	5/29/2008	None	N/A
27*	HEAVY BURNER FUEL	9,854	413868	2006	2016			
28*	CRUDE	77,854	3269868	1999	2009			
29*	#2 DIESEL SLOP	16,676	700392	2005	2015			
30*	PREMIUM UNLEAD BLEND	16,676	700392	2004	2014			
31*	CRUDE	98,676	4144392	2001	2011			
32*	PREMIUM UNLEAD SALES	17,913	752346	1999	2009			
33*	RECOVERY WELL WATER	360	15120	2003	2013			
34*	INJECTION WELL RESERVIOR	360	15120	1999	2009			
35*	REFORMER FEED	43904	1843968	2005	2015			
36*	CAT / POLY GAS	43904	1843968	2005	2015			
37*	FRENCH DRAIN	121	5082	2001	2011			
38*	EAST OUTFALL	302	12684	2003	2013			
40*	TERMINALS SLOP	400	16800	2007	2017			
41*	TERMINALS SLOP	2798	117516	2008	2018	5/29/2008	None	N/A
42*	TERMINALS SLOP	400	16800	2007	2017			
44*	VRU NAPHTHA	1,751	73542	2008	2018	5/29/2008	None	N/A
45*	ETHANOL	4821	202482	2008	2018	2/24/2008	None	N/A

* Tank inspection schedule is set according to API 650 & 653

BLOOMFIELD REFINERY

SUMPS & SEWER BOXES - Inspection & Repair Schedule

Sump Number	Location	Type Material	Inspection Scheduled	Actual Inspection Date	Inspection results Pass/Fail	Repairs/Maint Needed	Repairs/Maint Completion date
1	Fire Pump House	Concrete	2009				
2	(Crude) Sewer Box # 12	Concrete	2010				
3	(Crude) Sewer Box # 11	Concrete	2010				
4	(Crude) Sewer Box # 9	Concrete	2010				
5	(Crude) Sewer Box # 8	Concrete	2010				
6	(Crude) Sewer Box # 7	Concrete	2010				
7	(Crude) Sewer Box # 5	Concrete	2010				
8	(Crude) Sewer Box # 1	Concrete	2010				
9	(Gas Con) Sewer Box	Concrete	2009				
10	(FCC) Sewer Box # 1	Concrete	2009				
11	(FCC) Sewer Box # 2	Concrete	2009				
12	(Treater) Sewer Box	Concrete	2009				
13	(Treater) Sewer Box	Concrete	2009				
14	(DHT) Sewer Box # 18	Concrete	2008				
15	(DHT) Sewer Box # 17	Concrete	2008				
16	Sump @ S.W. Side Of Tk. 3	Concrete	2008	6/9/2008	Pass	None	
17	Sump Between Tk. 3 & 4	Concrete	2008	6/9/2008	Pass	None	
18	Sump Between Tk. 4 & 5	Concrete	2008	6/9/2008	Pass	None	
19	Sump @ N.Side Of Tk. 5	Concrete	2008	6/9/2008	Fail	Concrete repair	
20	Sump Between Tk. 11 & 12	Concrete	2008	6/10/2008	Pass	None	
21	Sump Between Tk. 13 & 14	Concrete	2008	6/9/2008	Pass	None	
22	Sump @ N. Side Of Tk. 17	Concrete	2008	6/11/2008	Pass	None	
23	Sump @ N.E. Side Of Tk. 18	Concrete	2008	6/10/2008	Pass	None	
24	Sump @ N.E. Side Of Tk. 19	Concrete	2008	6/10/2008	Pass	None	
25	Sump @ S.W. Side Of Tk. 20	DW Steel	2008	6/11/2008	Pass	None	
26	Sump @ S. Side Of Tk. 23	Concrete	2008	6/16/2008	Fail	Replace plate	
27	Sump @ E. Side Of Tk. 24	DW Steel	2008	6/16/2008	Pass	None	
28	Sump @ E. Side Of Tk. 25	DW Steel	2008	6/16/2008	Pass	None	
29	Sump @ N.W. Side Of Tk. 26	Concrete	2008	6/11/2008	Pass	None	
30	Sump @ S.E. Side Of Tk. 27	Concrete	2008	6/10/2008	Pass	None	
31	Sump @ West Side Of Tk. 28	Concrete	2008	6/17/2008	Pass	None	
32	Sump @ N.E. Side Of Tk. 29	Concrete	2008	6/23/2008	Pass	None	
33	Sump @ S.W. Side Of Tk. 30	Concrete	2008	6/16/2008	Pass	None	
34	Sump @ N.W. Side Of Tk. 31	Concrete	2008	6/17/2008	Pass	None	
35	Sump @ S.E. Side Of Tk. 31	Concrete	2008	6/17/2008	Pass	None	
36	Sump @ East Side Of Tk. 32	Concrete	2008	6/10/2008	Pass	None	
37	Sump @ N.E. Side Of Tk. 35	Concrete	2008	6/11/2008	Pass	None	
38	Sump @ N.E. Side Of Tk. 36	DW Steel	2008	6/10/2008	Pass	None	
39	Sump @ S. Side Of Tk. 18	DW Steel	2008	6/11/2008	Pass	None	
40	Sump @ S. Side Of Tk. 19	Concrete	2008	6/11/2008	Pass	None	

BLOOMFIELD REFINERY

UNDERGROUND PROCESS AND WASTEWATER LINES - Inspection & Repair Schedule

Line Number	Description (Service)	Line Size	Construction Material	Inspection Scheduled	Inspection Date	Inspection Results Pass/Fail	Repairs/Maint Needed	Repairs/Maint Completion date
1	Plant Raw Water Supply	6	Carbon steel	2012				
2	Plant Raw Water Supply	6	PVC	2013				
3	Water Filter Back Flush	6	PVC	2013				
4	Plant Process Wtr./Fire Wtr.	8	PVC	2013				
5	Plant Process Wtr./Fire Wtr.	8	Carbon steel	2013				
6	Plant Process Wtr. Feed	6	Carbon steel	2013				
7	Plant Raw Wtr. Pump Suct.	16	Carbon steel	2013				
8	Effilent Wtr. Transfer Line	6	PVC	2012				
9	Effilent Wtr. Trans. Pump	6	PVC	2012				
10	Effilent Wtr. Pump Disch.	6	PVC	2012				
11	Injection Well Recir. Line	6	PVC	2012				
12	River Terrace Transfer Line	2	PVC	2012				
13	Crude Transfer Line	12	Carbon steel	2008	May-08	Pass	None	N/A
14	Steam Header at Terminals	6	Carbon steel	2011				
15	Condensate Return Header	4	Carbon steel	2011				
16	C-4 To Blend	4	Carbon steel	2008	May-08	Pass	None	N/A
17	Diesel Sales Line	12	Carbon steel	2007	Nov-07	Pass	None	N/A
18	Lite Natural Line	12	Carbon steel	2007	Nov-07	Pass	None	N/A
19	(DEAD) Out Of Service	12	Carbon steel	out of service				
20	Lite Straight Run Product	4	Carbon steel	2011				
21	Poly Material To Storage	3	Carbon steel	2011				
22	Poly Unit Feed Line	3	Carbon steel	2011				
23	LPG Rerun Line	2	Carbon steel	2010				
24	Saturate To Storage	2	Carbon steel	2010				
25	C-4 To Storage	2	Carbon steel	2010				
26	C-3 To Storage	2	Carbon steel	2010				
27	JP-8 Sales Line	8	Carbon steel	out of service				
28	#1 Diesel Sales From Tk.18	6	Carbon steel	2007	Nov-07	Pass	None	N/A
29	Slop Line ToTk. # 22l	4	Carbon steel	out of service				
30	Isomerate/Naptha Line	6	Carbon steel	2008	May-08	Pass	None	N/A
31	Premium Sales	8	Carbon steel	2007	Nov-07	Pass	None	N/A
32	Refomate from Tk.s # 3 & 4	6	Carbon steel	2007	Nov-07	Pass	None	N/A
33	Naptha to VRU	4	Carbon steel	2008	May-08	Pass	None	N/A
34	Naphta Feed To VRU Unit	4	Carbon steel	2008	May-08	Pass	None	N/A
35	Naptha Fill/Rerun To Tk. #44	4	Carbon steel	2008	May-08	Pass	None	N/A
36	#1 Diesel To Bays #1 & 2	8	Carbon steel	2007	Nov-07	Pass	None	N/A
37	(Old Kerosene) To Bay # 3	6	Carbon steel	2011				

BLOOMFIELD REFINERY

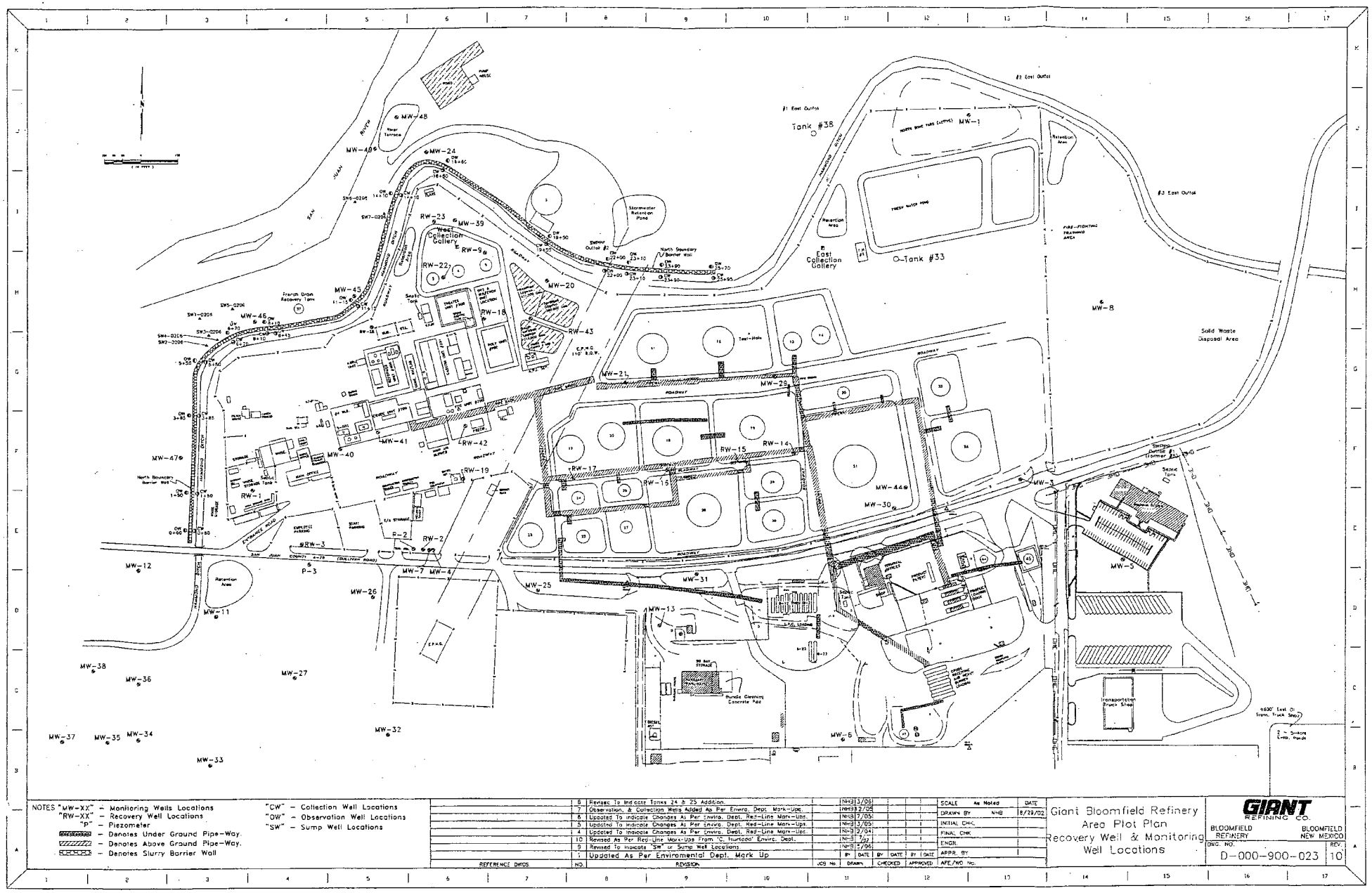
UNDERGROUND PROCESS AND WASTEWATER LINES - Inspection & Repair Schedule

Line Number	Description (Service)	Line Size	Construction Material	Inspection Scheduled	Inspection Date	Inspection Results Pass/Fail	Repairs/Maint Needed	Repairs/Maint Completion date
38	Premiun Sales Line	10	Carbon steel	2007	Nov-07	Pass	None	N/A
39	Old Unleaded Sales Line	10	Carbon steel	2007	Nov-07	Pass	None	N/A
40	Diesel To Bay # 4	8	Carbon steel	2007	Nov-07	Pass	None	N/A
41	Ethanol Pump Suction Line	8	Carbon steel	2010				
42	Ethanol Unloading Line	4	Carbon steel	2010				
43	Naphtha Unloading Line	6	Carbon steel	2007	Sep-07	Pass	None	N/A
44	Naptha Rundown To Tk.# 35	3	Carbon steel	2010				
45	Naptha Feed Line to Unit	4	Carbon steel	2010				
46	Cooling Water Supply Line	12	Carbon steel	2011				
47	Cooling Water Return Line	12	Carbon steel	2011				
48	Cooling Water Supply Line	20	Carbon steel	2011				
49	Cooling Water Return Line	20	Carbon steel	2011				
50	Sewer Transfer Line	10	Carbon steel	2010				
51	Sewer Transfer Line	10	Carbon steel	2010				
52	Sewer Transfer Line	12	Carbon steel	2010				
53	Sewer Transfer Line	12	Carbon steel	2010				
54	Sewer Transfer Line	14	Carbon steel	2010				
55	Sewer Transfer Line	14	Carbon steel	2010				
56	Sewer Transfer Line	12	Carbon steel	2010				
57	Sewer Transfer Line	12	Carbon steel	2010				
58	Sewer Transfer Line	14	Carbon steel	2010				
59	Sewer Transfer Line	14	Carbon steel	2010				
60	Sewer Transfer Line	14	Carbon steel	2010				
61	Sewer Transfer Line	12/10	Carbon steel	2010				
62	Sewer Collection Manifold	8>4	Carbon steel	2010				
63	Sewer Collection Manifold	10>4	Carbon steel	2010				
64	Sewer Collection Manifold	8>4	Carbon steel	2010				
65	Sewer Collection Manifold	6	Carbon steel	2010				
66	Sewer Collection Manifold	10>4	Carbon steel	2010				
67	Sewer Collection Manifold	10>4	Carbon steel	2010				
68	Sewer Collection Manifold	8>4	Carbon steel	2010				
69	Sewer Collection Manifold	8>4	Carbon steel	2010				
70	Sewer Collection Manifold	8>4	Carbon steel	2010				
71	Sewer Collection Manifold	8>4	Carbon steel	2010				
72	Sewer Collection Manifold	8>4	Carbon steel	2010				
73	Sewer Collection Manifold	8>4	Carbon steel	2010				
74	Sewer Collection Manifold	6>3	Carbon steel	2010				

BLOOMFIELD REFINERY

UNDERGROUND PROCESS AND WASTEWATER LINES - Inspection & Repair Schedule

Line Number	Description (Service)	Line Size	Construction Material	Inspection Scheduled	Inspection Date	Inspection Results Pass/Fail	Repairs/Maint Needed	Repairs/Maint Completion date
75	Sewer Collection Manifold	4	Carbon steel	2010				
76	Sewer Collection Manifold	4	Carbon steel	2009				
77	Sewer Collect./Transfer Line	6	Carbon steel	2009				
78	Sewer Transfer Line	10	Carbon steel	2009				
79	Sewer Transfer Line	10	Carbon steel	2009				
80	Sewer Collection Manifold	6/4	Carbon steel	2009				
81	Sewer Transfer Line	10	Carbon steel	2009				
82	Sewer Transfer Line	10	Carbon steel	2009				
83	Sewer Collection Manifold	10>4	Carbon steel	2009				
84	Sewer Collection Manifold	6>2	Carbon steel	2008				
85	Sewer Transfer Line	10	Carbon steel	2008				
86	Sewer Transfer Line	12	Carbon steel	2008				
87	Sewer Collection Manifold	10>4	Carbon steel	2007	Dec-07	Pass	None	N/A
88	Crude Transfer Line	12	Carbon steel	2008	May-08	Pass	None	N/A
89	Crude Transfer Line	12	Carbon steel	2008	May-08	Pass	None	N/A



NOTES "MW-XX" – Monitoring Wells Locations
"RW-XX" – Recovery Well Locations
"P" – Piezometer
– Denotes Under Ground Pipe-Way.
– Denotes Above Ground Pipe-Way.
– Denotes Slurry Barrier Wall

"CW" – Collection Well Locations
"OW" – Observation Well Locations
"SW" – Sump Well Locations

REFERENCE DWGS

NO.	REVISION	BY	DATE	BY	DATE
8	Revised To Indicate Tanks 24 & 25 Addition.	NHB	3/06		
7	Observation, & Collection Wells Added As Per Enviro. Dept. Mark-Ups.	NHB	2/05		
6	Updated To Indicate Changes As Per Enviro. Dept. Red-Line Mark-Ups.	NHB	7/05		
5	Updated To Indicate Changes As Per Enviro. Dept. Red-Line Mark-Ups.	NHB	2/05		
4	Updated To Indicate Changes As Per Enviro. Dept. Red-Line Mark-Ups.	NHB	2/04		
10	Revised As Per Red-Line Mark-Ups From "C. Trumbo" Enviro. Dept.	NHB	7/07		
9	Revised To Indicate "SW" or Sump Well Locations	NHB	5/06		
1	Updated As Per Environmental Dept. Mark Up				

JOB No. | DRAWN | CHECKED | APPROVED | APE/WO No.

SCALE As Noted | DATE
DRAWN BY NHB | 8/29/02
INITIAL CHK.
FINAL CHK.
ENGR.
APPR. BY

Giant Bloomfield Refinery Area Plot Plan Recovery Well & Monitoring Well Locations

GIANT REFINING CO.
BLOOMFIELD REFINERY — BLOOMFIELD NEW MEXICO

DWG. NO. D-000-900-023 | REV. 10

Western Refining
BLOOMFIELD REFINERY

WNR LISTED NYSE

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June 25, 2008

James Bearzi, Bureau Chief
New Mexico Environmental Department
Hazardous Waste Bureau
2905 Rodeo Park Drive East, Building 1
Santa Fe, New Mexico 87505-6303

Re: Giant Refining Company, Bloomfield Refinery Order No. HWB 07-34 (CO)
Solid Waste Management Unit (SWMU) Group No. 3 Investigation Work Plan

Dear Mr. Bearzi:

Giant Refining Company, Bloomfield Refinery submits the referenced Investigation Work Plan pursuant to Section IV.B.4 of the July 2007 HWB Order. The Investigation Work Plan covers SWMU Group No. 3, which includes SWMU No. 4 Transportation Terminal Sump; SWMU No. 5 Heat Exchanger Bundle Cleaning Area; AOC No. 22 Product Loading Rack and Crude Receiving Loading Racks; AOC No. 23 Southwest Holding Ponds; AOC No. 24 Tank Areas 41 and 43; AOC No. 25 Auxiliary Warehouse and 90-Day Storage Area; and AOC No. 26 Tank Area 44 and 45. The Investigation Work Plan was developed and formatted to meet the requirements of Section X.B of the July 2007 HWB Order.

If you have any questions or would like to discuss the Investigation Work Plan, please contact me at (505) 632-4171.

Sincerely,

James R. Schmaltz
Environmental Manager
Western Refining Southwest, Inc.
Bloomfield Refinery

cc: Hope Monzeglio – NMED HWB
Wayne Price – NMOCD (w/attachment)
Dave Cobrain – NMED HWB
Cheryl. Frischkorn – NMED HWB
Laurie King – EPA Region 6 (w/attachment)
Todd Doyle – Bloomfield Refinery
Allen Hains – Western Refining El Paso

RPS JDC

404 Camp Craft Rd., Austin, TX 78746
Tel: (512) 347 7588 Fax: (512) 347 8243
Internet: www.rpsgroup.com/energy

INVESTIGATION WORK PLAN

Group 3 (SWMU No. 4 Transportation Terminal Sump, SWMU No. 5 Heat Exchanger Bundle Cleaning Area, AOC No. 22 Product Loading Rack and Crude Receiving Loading Racks, AOC No. 23 Southeast Holding Ponds, AOC No. 24 Tank Areas 41 and 43, AOC No. 25 Auxiliary Warehouse and 90-Day Storage Area, and AOC No. 26 Tank Area 44 and 45)

Bloomfield Refinery
Western Refining Southwest, Inc.
#50 Rd 4990
Bloomfield, New Mexico 87413

June 2008

James R. Schmaltz
Environmental Manager
Western Refining Southwest, Inc.
Bloomfield Refinery

Scott T. Crouch, P.G.
Senior Consultant

RPS JDC, Inc.
404 Camp Craft Rd.
Austin, Texas 78746

RPS JDC

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Executive Summary

The Bloomfield Refinery, which is located in the Four Corners Area of New Mexico, has been in operation since the late 1950s. Past inspections by State and federal environmental inspectors have identified locations where releases to the environment may have occurred. These locations are generally referred to as Solid Waste Management Units (SWMUs) or Areas of Concern (AOCs).

Pursuant to the terms and conditions of an Order issued on July 27, 2007 by the New Mexico Environment Department (NMED) to San Juan Refining Company and Giant Industries Arizona, Inc. for the Bloomfield Refinery, this Investigation Work Plan has been prepared for the SWMUs designated as Group 3. A Class I permit modification was approved on June 10, 2008 to reflect the change in ownership of the refinery to Western Refining Southwest, Inc. The operator is now Western Refining Southwest, Inc. – Bloomfield Refinery

The planned investigation activities include soil and groundwater samples, which will be collected and analyzed for potential site-related constituents. The specific sampling locations, sample collection procedures, and analytical methods are included. These activities are based, in part, on the results of previous site investigation activities.

SWMU Group 3 includes SWMU No. 4 Transportation Terminal Sump, SWMU No. 5 Heat Exchanger Bundle Cleaning Area, AOC No. 22 Product Loading Rack and Crude Receiving Loading Racks, AOC No. 23 Southeast Holding Ponds, AOC No. 24 Tank Areas 41 and 43, AOC No. 25 Auxiliary Warehouse and 90-Day Storage Area, and AOC No. 26 Tank Areas 44 and 45. The Order requires that San Juan Refining Company and Giant Industries Arizona, Inc. ("Western") determine and evaluate the presence, nature, and extent of historical releases of contaminants at the aforementioned SWMUs.

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Section 1
Introduction

The Bloomfield Refinery is located immediately south of Bloomfield, New Mexico in San Juan County (Figure 1). The physical address is #50 Road 4990, Bloomfield, New Mexico 87413. The Bloomfield Refinery is located on 285 acres (0.45 square miles). Bordering the facility is a combination of federal and private properties. Public property managed by the Bureau of Land Management lies to the south. The majority of undeveloped land in the vicinity of the facility is used extensively for oil and gas production and, in some instances, grazing. U.S. Highway 44 is located approximately one-half mile west of the facility. The topography of the main portion of the site is generally flat with steep bluffs to the north where the San Juan River intersects Tertiary terrace deposits.

The Bloomfield Refinery is a crude oil refinery currently owned by Western Refining Southwest, Inc., which is a wholly owned subsidiary of Western Refining Company, and it is operated by Western Refining Southwest, Inc. – Bloomfield Refinery. The Bloomfield Refinery has an approximate refining capacity of 18,000 barrels per day. Various process units are operated at the facility, including crude distillation, reforming, fluidized catalytic cracking, sulfur recovery, merox treater, catalytic polymerization and diesel hydrotreating. Current and past operations have produced gasoline, diesel fuels, jet fuels, kerosene, propane, butane, naphtha, residual fuel, fuel oils, and LPG.

On July 27, 2007, the New Mexico Environment Department (NMED) issued an Order to San Juan Refining Company and Giant Industries Arizona, Inc. ("Western") requiring investigation and corrective action at the Bloomfield Refinery. This Investigation Work Plan has been prepared for the Solid Waste Management Units (SWMUs) and Areas of Concern (AOCs) designated as Group 3 in the Order. This includes:

- SWMU No. 4 Transportation Terminal Sump;
- SWMU No. 5 Heat Exchanger Bundle Cleaning Area;
- AOC No. 22 Product Loading Rack and Crude Receiving Loading Racks;
- AOC No. 23 Southeast Holding Ponds;
- AOC No. 24 Tank Areas 41 and 43;
- AOC No. 25 Auxiliary Warehouse and 90-Day Storage Area; and
- AOC No. 26 Tank Areas 44 and 45.

The location of the individual SWMUs and AOCs is shown on Figure 2 and all of the SWMUs and AOCs are located on the southeastern portion of the refinery property.

The purpose of the site investigation is to determine and evaluate the presence, nature, and extent of releases of contaminants in accordance with 20.4.1.500 New Mexico Administrative Code (NMAC) incorporating 40 Code of Federal Regulations (CFR) Section 264.101. The investigation activities will be conducted in accordance with Section IV of the Order.

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Section 2
Background

This section presents background information for each of the SWMUs, including a review of historical waste management activities for each location to identity the following:

- type and characteristics of all waste and all contaminants handled in the subject SWMU/AOC;
- known and possible sources of contamination;
- history of releases; and
- known extent of contamination.

2.1 SWMU No. 4 Transportation Terminal Sump

The Transportation Terminal Sump is located across the road to the northeast of the auxiliary warehouse/90-day storage area and immediately west of bullet tanks B-22 and B-23. In the past this area was used as truck cleaning location but this practice was stopped in 1986 and the sump was backfilled. There are no documented specific instances of releases at the sump but use of the area for truck cleaning may have resulted in small releases over time.

During an inspection conducted by EPA in 1984, two water samples (an aqueous phase and oily phase) and one soil sample were collected and analyzed. A concentration of 2.2 ppm of cadmium was reported in the soil sample and an oily phase water sample contained 1.3 ppm cadmium and 40 ppm chromium (Giant, 2003). During a subsequent Phase II RCRA Facility Investigation (RFI) conducted in 1994, two soil borings (B-1 and B-2) were installed near the sump (Figure 2). Samples were collected continuously at each boring to a depth of 12 feet. Based on the highest photo ionization detection (PID) readings, one sample was collected from each boring for analysis. The samples were analyzed for volatile organic compounds (VOCs; USEPA method 8240), semi-volatile organic compounds (SVOCs; USEPA method 8270), total petroleum hydrocarbons (TPH; USEPA method 418.1), and metals (USEPA method 6010/7000 series). The results of these soil analyses are summarized in Table 5. Because no organic constituents were detected in both samples and the metal concentrations were reported to have been within background ranges, Giant Refining Company requested No Further Action (NFA) for this SWMU in their Solid Waste Management Unit Assessment Report (Giant, 2003).

2.2 SWMU No. 5 Heat Exchanger Bundle Cleaning Area

The Heat Exchanger Bundle Cleaning Area, which has been identified as SWMU No. 5, is located at the east end of the auxiliary warehouse (Figure 2). Heat exchanger bundles are periodically cleaned at this location to remove scale deposits. The cleaning usually takes place on a concrete slab at the east end of the auxiliary warehouse, which has concrete curbs, portable side wall curtains, and drains to a sump located inside the warehouse. There are large metal doors that open at the east end of the warehouse and occasionally during the winter, cleaning operations take place inside the warehouse in a fully enclosed room with sheet metal walls, concrete floor, and concrete lined collection sump. The sump, which is designed to collect all washwater and any waste materials generated during cleaning operations, is approximately four feet wide, four feet deep and 50 feet long. Any sludge that collects in the sump is removed upon completion of cleaning operations, containerized and sent off-site for disposal to comply with 90-day on-site storage regulations. There is no indication of documented spills in this area. The likely constituents of concern are organic petroleum compounds and metals, which could precipitate on the heat exchangers.

No soil samples have been collected and analyzed from the Heat Exchanger Bundle Cleaning Area in the past; however, groundwater quality has been assessed down-gradient of this area. Figure 5 shows the potentiometric surface of the shallow groundwater, which underlies the refinery property. Monitor well MW-13 is located approximately 250 feet down-gradient and groundwater samples have been routinely collected from this well and analyzed for potential constituents of concern. The only detection, which could be representative of site-related impacts, is low concentrations of methyl tertiary butyl ether (MTBE). The groundwater analyses are summarized in Tables 1 through 4.

2.3 AOC No. 22 Product Loading Rack and Crude Receiving Loading Racks

The loading racks are used to unload crude oil, which is transported to the refinery via tanker trucks, and to load out refined product onto tanker trucks for distribution at retail gasoline stations. The primary constituents of concern are petroleum constituents and to a lesser extent additives (e.g., MTBE and ethanol), which may be present in the area of the product loading racks. Documented releases of petroleum products and crude oil have occurred at the loading racks.

Two soil borings (B-3 and B-4) were installed at the loading racks during the Phase II RFI in 1994 (Figure 2). Each boring was completed to a depth of 12 feet with soil samples continuously collected and screened with a PID. No indication of contamination was recorded at the B-3 location and a sample was collected from the 6-8' interval based on the depth of underground piping in the area. The 10-12' interval was selected at B-4 based on the highest PID reading. These samples were analyzed for VOCs, SVOCs, TPH, and metals, and the results are presented in Table 5. Only one organic constituent was detected in the sample collected at B-3 (methylene chloride at 0.11 mg/kg). Benzene, toluene, ethylbenzene, and xylene (BTEX) were detected at low concentrations in sample B-4. Metals were detected in both samples but were reported to be within background ranges (Groundwater Technology, Inc., 1994).

2.4 AOC No. 23 Southeast Holding Ponds

The southeast holding ponds are located at the southeastern most corner of the active portion of the refinery property (Figure 2). There are two ponds, which each cover approximately 4.5 acres. The "ponds" are actually double lined (60-milimeter high density polyethylene) surface impoundments with a leak detection system. They were constructed in 1995 to provide temporary storage of treated wastewater, which is routinely disposed in the on-site injection well. The temporary storage only occurs when the injection well is not available due to maintenance related issues and most of the water is routinely removed from the ponds once the injection well becomes operational.

There have not been any indication of leaks from the ponds. As the pond are used sporadically to store treated wastewater, the potential constituents of concern would be petroleum constituents.

2.5 AOC No. 24 Tank Areas 41 and 43

Tanks 41 and 43 are located at the southern edge of the active portion of the refinery property (Figure 2). These tanks are associated with the crude oil receiving racks and are used to temporarily store crude oil, which contains an unacceptably high fraction of water. There was a small spill of approximately 100 to 150 gallons of oily water that spilled near Tank 43 in 2006.

No soil investigations have been conducted in this area but a monitor well (MW-6) was installed immediately to the west during the 1994 RFI. This well was dry when installed and remains dry.

2.6 AOC No. 25 Auxiliary Warehouse and 90-Day Storage Area

The auxiliary warehouse and 90-day storage area are located in the same building, which is approximately 300 feet south of Sullivan road and 650 feet west of the crude oil loading rack (Figure 2). Pictures of the area are provided in Appendix A. The metal building was originally used as a truck terminal prior to construction of the terminal at its current location in some time prior to 1984. The truck terminal was used for general maintenance and repair of the tanker trucks and auxiliary equipment. No drains or sumps are located within the portion of the building used as the warehouse but as described above, there is a sump in the 90-Day Storage Area that collects water, which drains from the Heat Exchanger Bundle Cleaning Pad. There are no documented releases associated with the historical truck terminal operations; however, the types of potential constituents of concern associated with these activities include petroleum constituents (e.g., fuels, motor oil, transmission fluids, etc.) and chlorinated solvents (e.g., tetrachloroethylene and trichloroethylene).

The auxiliary warehouse is currently used to store dry materials (e.g., large bags of catalyst beads) and auxiliary equipment (e.g., small pumps and generators). An employee health center is located in the far western end of the warehouse. There have been no documented spills at the warehouse and there are no associated potential types of constituents for assessment beyond those identified above for the historical truck terminal operations. The 90-day storage area is used for temporary storage of materials that are shipped off-site for disposal at approved disposal facilities. The types of materials stored include mostly recovered materials from small spills (e.g., contaminated soil and absorbent materials, heat exchange bundle sludge, tank bottoms, etc.) All materials are containerized in steel drums or plastic lined totes, the storage area has a roof to prevent contact with stormwater, a concrete floor and a large concrete lined sump to collect any material that may leak. There have not been any documented releases from the 90-day storage area and any spills within the 90-day storage area are immediately removed to prevent a release to the environment.

No soil samples have been collected and analyzed from the area near the auxiliary warehouse or 90-day storage area; however, groundwater quality has been assessed down-gradient of this area. Figure 5 shows the potentiometric surface of the shallow ground water, which underlies the refinery property. Monitor well MW-13 is located approximately 250 feet down-gradient and ground water samples have been routinely collected from this well and analyzed for potential constituents of concern. The only detection, which could be representative of site-related

impacts, is low concentrations of methyl tertiary butyl ether (MTBE). The ground water analyses are summarized in Tables 1 through 4.

2.7 AOC No. 26 Tank Areas 44 and 45

Tanks 44 and 45 are located a short distance south of Sullivan road and immediately northeast of the product loading rack (Figure 2). These tanks are used to store additives, which are blended at the product loading racks. The materials stored in the tanks have included MTBE, naphtha, and ethanol. There are no documented reportable spills from these tanks.

No soil samples or ground water samples have been collected in the immediate vicinity of tanks 44 and 45. The types of potential constituents of concern in the area of tanks 44 and 45 include petroleum constituents, MTBE and ethanol.

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Section 3
Site Conditions

The conditions at the site, including surface and subsurface conditions that could affect the fate and transport of any contaminants, are discussed below. This information is based on recent visual observations and historical subsurface investigations.

3.1 Surface Conditions

Regionally, the surface topography slopes toward the floodplain of the San Juan River, which runs along the northern boundary of the refinery complex. To the south of the refinery, the drainage is to the northwest. North of the refinery, surface water flows in a southeasterly direction toward the San Juan River. The active portion of the refinery property, where the process units and storage tanks are located, is generally of low relief with an overall northwest gradient of approximately 0.02 ft/ft. The refinery sits on an alluvial floodplain terrace deposit and there is a steep bluff (approx. drop of 90 feet) at the northern boundary of the refinery where the San Juan River intersects the floodplain terrace, which marks the southern boundary of the floodplain.

There are two locally significant arroyos, one immediately east and another immediately west of the refinery, which collect most of the surface water flows in the area, thus significantly reducing surface water flows across the refinery. A minor drainage feature is located on the eastern portion of the refinery, where the Landfill Pond (SWMU No. 9) is located and there are several steep arroyos along the northern refinery boundary that primarily capture only local surface water flows and minor ground water discharges.

The refinery complex is bisected by County Rd #4990 (Sulivan Road), which runs east-west. The process units, storage tanks (crude oil and liquid products), and wastewater treatment systems are located north of the county road. The crude oil and product loading racks, LPG storage tanks and loading racks, maintenance buildings/90-day storage area, pipeline offices, transportation truck shop, and the Class I injection well are located south of the county road. There is very little vegetation throughout these areas with most surfaces composed of concrete, asphalt, or gravel. The area between the refinery and the San Juan River does have limited vegetation on slopes that are not too steep to support vegetation.

3.2 Subsurface Conditions

Numerous soil borings and monitoring wells have been completed across the refinery property during previous site investigations and installation of the slurry wall, which runs along the northern and western refinery boundary. Based on the available site-specific and regional subsurface information, the site is underlain by the Quaternary Jackson Lake terrace deposits, which unconformably overlie the Tertiary Nacimiento Formation. The Jackson Lake deposits consist of fine grained sand, silt and clay that grades to coarse sand, gravel and cobble size material closer to the contact with the Nacimiento Formation. The Jackson Lake Formation is over 40 feet thick near the southeast portion of the site and generally thins to the northwest toward the San Juan River. The Nacimiento Formation is primarily composed of fine grained materials (e.g., carbonaceous mudstone/claystone with interbedded sandstones) with a reported local thickness of approximately 570 feet (Groundwater Technology Inc., 1994).

Figures 3 and 4 present cross-sections of the shallow subsurface based on borings logs from on-site monitoring well completions. The uppermost aquifer is under water table conditions and occurs within the sand and gravel deposits of the Jackson Lake Formation. The Nacimiento Formation functions as an aquitard at the site and prevents site related contaminants from migrating to deeper aquifers. The potentiometric surface as measured in April 2007 is presented as Figure 5 and shows the groundwater flowing to the northwest, toward the San Juan River.

Previous site investigations have identified and delineated impacts to groundwater from historical site operations. Figure 6 shows the distribution of SPH in the subsurface based on the apparent thickness of SPH measured in monitoring wells. Dissolved-phase impacts are depicted on Figure 7.

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Section 4
Scope of Services

4.1 Anticipated Activities

Pursuant to Section IV of the Order, a scope of services was developed to determine and evaluate the presence, nature, extent, fate, and transport of contaminants. To accomplish this objective, soil and groundwater samples will be collected at the SWMU No. 4 Transportation Terminal Sump, SWMU No. 5 Heat Exchanger Bundle Cleaning Area, AOC No. 22 Product Loading Rack and Crude Receiving Loading Racks, AOC No. 23 Southeast Holding Ponds, AOC No. 24 Tank Areas 41 and 43, AOC No. 25 Auxiliary Warehouse and 90-Day Storage Area, and AOC No. 26 Tank Areas 44 and 45. Soil borings will be installed and samples collected as discussed in Section 5.2. The installation of monitoring wells and collection of groundwater samples is discussed in Section 5.3.

4.2 Background Information Research

Documents containing the results of previous investigations and subsequent routine groundwater monitoring data from monitoring wells were reviewed to facilitate development of this work plan. In addition, the results of tracer analytical data from line testing were evaluated. The previously collected data provides very good information on the overall subsurface conditions, including hydrogeology and contaminant distribution within groundwater on a site-wide basis. The data collected under this scope of services will supplement the existing groundwater information and provide SWMU-specific information regarding contaminant occurrence and distribution within soils and groundwater.

4.3 Collection and Management of Investigation Derived Waste

Drill cuttings, excess sample material and decontamination fluids, and all other investigation derived waste (IDW) associated with soil borings will be contained and characterized using methods based on the boring location, boring depth, drilling method, and type of contaminants suspected or encountered. All purged groundwater and decontamination water will be characterized prior to disposal unless it is disposed in the refinery wastewater treatment system upstream of the API Separator. An IDW management plan is included as Appendix B.

4.4 Surveys

The horizontal coordinates and elevation of each surface sampling location; the surface coordinates and elevation of each boring or test pit, the top of each monitoring well casing, and

the ground surface at each monitoring well location; and the locations of all other pertinent structures will be determined by a registered New Mexico professional land surveyor in accordance with the State Plane Coordinate System (NMSA 1978 47-1-49-56 (Repl. Pamp. 1993)). Alternate survey methods may be proposed by the Respondents in site-specific work plans. Any proposed survey method must be approved by the Department prior to implementation. The surveys will be conducted in accordance with Sections 500.1 through 500.12 of the Regulations and Rules of the Board of Registration for Professional Engineers and Surveyors Minimum Standards for Surveying in New Mexico. Horizontal positions will be measured to the nearest 0.1-ft, and vertical elevations will be measured to the nearest 0.01-ft.

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Section 5
Investigation Methods

The purpose of the site investigation is to determine and evaluate the presence, nature, and extent of releases of contaminants. Guidance on selecting and developing sampling plans as provided in *Guidance for Choosing a Sampling Design for Environmental Data Collection* (EPA, 2000) was utilized to select the appropriate sampling strategy for each of the SWMUs.

5.1 Drilling Activities

Soil and monitoring well borings will be drilled using either hollow-stem auger or if necessary, air rotary methods. Monitoring well construction/completions will be conducted in accordance with the requirements of Section IX of the Order. The preferred method will be hollow-stem auger to increase the ability to recover undisturbed samples and potential contaminants. The drilling equipment will be properly decontaminated before drilling each boring.

All soil borings will be drilled to the water table if possible without potentially causing vertical migration of contamination. The NMED will be notified as early as practicable if conditions arise or are encountered that do not allow the advancement of borings to the specified depths or at planned sampling locations. Appropriate actions (e.g., installation of protective surface casing or relocation of borings to a less threatening location) will be taken to minimize any negative impacts from investigative borings. If contamination is detected at the water table, then the boring will be drilled five feet below the water table or to refusal. Soil borings to be completed as permanent monitoring wells will be drilled to the top of bedrock (Nacimiento Formation) and the anticipated completion depth ranges from 35 to 40 feet. Soil samples will be collected continuously and logged by a qualified geologist or engineer. Slotted (0.01 inch) PVC well screen will be placed at the bottom of the well and will extend for 15 feet to ensure that the entire saturated zone is open to the well. A 10/20 sand filter pack will be installed to two feet over the top of the well screen.

The drilling and sampling will be accomplished under the direction of a qualified engineer or geologist who will maintain a detailed log of the materials and conditions encountered in each boring. Both sample information and visual observations of the cuttings and core samples will be recorded on the boring log. Known site features and/or site survey grid markers will be used as references to locate each boring prior to surveying the location as described in Section 4.4. The

boring locations will be measured to the nearest foot, and locations will be recorded on a scaled site map upon completion of each boring.

5.2 Soil Sampling

SWMU No. 4 is the former Transportation Terminal Sump. In the past this area was used as a truck cleaning location but this practice was stopped in 1986 and the sump was backfilled. During a RCRA RFI conducted in 1994, two soil borings (B-1 and B-2) were installed near the sump (Figure 2). Samples were collected continuously at each boring to a depth of 12 feet. No organic constituents were detected in either sample and the metal concentrations were reported to have been within background ranges. To further evaluate the potential for any releases, a soil boring will be installed at the location of the former sump and drilled to the water table (Figure 8). The boring will be completed as a permanent monitoring well (see Section 5.3.2).

SWMU No. 5 is the Heat Exchanger Bundle Cleaning Area. The cleaning usually takes place on a concrete slab at the east end of the auxiliary warehouse, which has concrete curbs, portable side wall curtains, and drains to a sump located inside the warehouse. There is the potential for contaminants to have been physically washed off the heat exchangers onto the adjacent surface soils. This supports a judgmental sampling design and six surface soil samples have been located around the edge of the concrete pad (Figure 8). To assess the potential for a release from the sump, which collects the washwater inside the eastern end of the warehouse building, a soil boring has been located just outside the warehouse building in a down-gradient direction from the sump. The soil boring will be completed as a permanent monitoring well (see Section 5.3.2).

AOC No. 22 includes the crude oil and product loading racks. The loading racks are used to unload crude oil, which is transported to the refinery via tanker trucks, and to load out refined product onto tanker trucks for distribution at retail gasoline stations. Documented releases of petroleum products and crude oil have occurred at the loading racks primarily in the location of the sumps. At each loading rack, the trucks are parked on a concrete pad that drains to a single sump. If the sump over flows, then there is a small earthen impoundment located down slope that collects the overage. Soils borings (B-3 and B-4) were installed near the sumps during the 1994 RFI. No organic contaminants were detected at B-3 but there were detections at the bottom (12') of B-4. To assess the potential for constituents to have migrated or been transported off the concrete pad, surface soil samples are located where trucks exit the loading

racks (Figure 8). A soil boring is located near earlier boring B-4 to assess potential releases at the sump, which drains the product loading rack. Soil borings have been located at the center of both of the earthen impoundments to evaluate vertical impacts and four surface samples are located around each earthen impoundment to assess lateral impacts (Figure 8). In addition, soil borings, which will be completed as permanent monitoring wells, are located in a down-gradient direction from the both of the loading racks to assess potential impacts to groundwater (see Section 5.3.2).

The evaporation ponds (AOC No. 23) have double liners with a leak detection system and are used to store only minimal amounts of water, thus reducing the potential leaks. In addition, the two closest down-gradient monitoring wells (MW-5 and MW-6) are both dry. A new monitoring well will be installed immediately down-gradient of the ponds to determine if there are any impacts to groundwater from the ponds (Figure 9).

AOC No. 24 includes the area where Tanks 41 and 43 are located. These tanks are used to temporarily store crude oil with a high water fraction. There was a small spill of approximately 100 to 150 gallons of oily water near Tank 43 in 2006. To assess potential impacts from this and any other past spills near the tanks, four surface samples and two soil borings are located within the immediate area of the tanks and a third boring is located just northwest of the heater treater. All three soil borings are located to the northwest of the tanks and heater treater, which should be in a down-gradient direction if groundwater is present. Monitor well MW-6 is located down-gradient approx. 150 feet to the west and is dry. The boring to the northwest of the heater treater will be completed as a permanent monitoring well if there is any indication of saturation in any of the three soil borings completed in this area.

AOC No. 25 includes the auxiliary warehouse and the 90-day storage area, which is located within the eastern most bay of the warehouse building. The 90-day storage area is enclosed, has a concrete floor, with a concrete sump that is used mainly to collect wash water from the adjacent heat exchanger bundle cleaning pad. Any releases in the 90-day storage area would be contained in the sump. As discussed above, a soil boring will be installed just outside the 90-day storage area in the down-gradient direction and it will be completed as a permanent monitoring well (Figure 8). Groundwater samples collected at this location should be able to detect any release to groundwater from either the bundle cleaning operations or releases at the 90-day storage area.

The warehouse is currently used to store dry materials and mechanical equipment and as an employee health center, and as such does not present a threat of release to the environment. Historical operations as a truck terminal may have presented a threat of a release but the only sump present is located in what is now the 90-day storage area. There are no floor drains or other obvious areas for potential releases. There is a back door on the south side of building, which could have been used to discard waste materials and a surface soil sample will be located off the concrete in this area (Figure 8). In addition, surface water flows to the southeast corner of the building where it enters a drainage pipe. One of the surface soil samples, which are discussed above for the heat exchanger bundle cleaning pad, is located at the entrance to a storm water collection pipe and should be able to detect the presence of contaminants washed or otherwise discharged from the warehouse building.

Tanks 44 and 45 are included as AOC No. 26. These tanks are used to store additives (e.g., MTBE, naphtha, and ethanol), which are blended at the product loading racks. Three surface soil samples will be collected within the tank dikes at both of the tanks and an additional surface soil sample will be collected near the station where additives are off-loaded for filling into the storage tanks. Two soils borings, which will be completed as permanent monitoring wells, are located down-gradient of the tanks.

A decontaminated split-barrel sampler or continuous five-foot core barrel will be used to obtain samples during the drilling of each boring. Surface samples may be collected using decontaminated, hand-held stainless steel sampling device, shelby tube, or thin-wall sampler, or a pre-cleaned disposable sampling device. A portion of the sample will be placed in pre-cleaned, laboratory-prepared sample containers for laboratory chemical analysis. The use of an Encore® Sampler or other similar device will be used during collection of soil samples for VOC analysis. The remaining portions of the sample will be used for logging and field screening as discussed in Section 5.2.1. Sample handling and chain-of-custody procedures will be in accordance with the procedures presented below in Section 5.4.

Discrete soil samples will be collected for laboratory analyses at the following intervals:

- 0-6" (all borings);
- 18-24" (all borings);
- from the 6" interval at the top of saturation;

- the sample from each boring with the greatest apparent degree of contamination, based on field observations and field screening; and
- any additional intervals as determined based on field screening results.

Quality Assurance/Quality Control (QA/QC) samples will be collected to monitor the validity of the soil sample collection procedures as follows:

- field duplicates will be collected at a rate of 10 percent;
- equipment blanks will be collected from all sampling apparatus at a frequency of 10 percent or one per day if disposable sampling equipment is used; and
- field blanks will be collected at a frequency of one per day.

5.2.1 Soil Sample Field Screening and Logging

Samples obtained from the borings will be screened in the field on 2.5 foot intervals for evidence of contaminants. Field screening results will be recorded on the exploratory boring and excavation logs. Field screening results will be used to aid in the selection of soil samples for laboratory analysis. The primary screening methods include: (1) visual examination, (2) olfactory examination, and (3) headspace vapor screening for volatile organic compounds. Additional screening for site- or release-specific characteristics such as pH or for specific compounds using field test kits may be conducted where appropriate.

Visual screening includes examination of soil samples for evidence of staining caused by petroleum-related compounds or other substances that may cause staining of natural soils such as elemental sulfur or cyanide compounds. Headspace vapor screening targets volatile organic compounds and involves placing a soil sample in a plastic sample bag or a foil sealed container allowing space for ambient air. The container will be sealed and then shaken gently to expose the soil to the air trapped in the container. The sealed container will be allowed to rest for a minimum of 5 minutes while vapors equilibrate. Vapors present within the sample bag's headspace will then be measured by inserting the probe of the instrument in a small opening in the bag or through the foil. The maximum value and the ambient air temperature will be recorded on the field boring or test pit log for each sample.

The monitoring instruments will be calibrated each day to the manufacturer's standard for instrument operation. A photo-ionization detector (PID) equipped with a 10.6 or higher electron volt (eV) lamp or a combustible gas indicator will be used for VOC field screening. Field screening results may be site- and boring-specific and the results may vary with instrument type,

the media screened, weather conditions, moisture content, soil type, and type of contaminant, therefore, all conditions capable of influencing the results of field screening will be recorded on the field logs.

The physical characteristics of the samples (such as mineralogy, ASTM soil classification, moisture content, texture, color, presence of stains or odors, and/or field screening results), depth where each sample was obtained, method of sample collection, and other observations will be recorded in the field log by a qualified geologist or engineer. Detailed logs of each boring will be completed in the field by a qualified engineer or geologist. Additional information, such as the presence of water-bearing zones and any unusual or noticeable conditions encountered during drilling, will be recorded on the logs.

5.3 Groundwater Water Monitoring

5.3.1 Groundwater Levels

Groundwater level and SPH thickness measurements will be obtained at each new monitoring well prior to purging in preparation for a sampling event. Measurement data and the date and time of each measurement will be recorded on a site monitoring data sheet. The depth to groundwater and SPH thickness levels will be measured to the nearest 0.01 ft. The depth to groundwater and SPH thickness will be recorded relative to the surveyed well casing rim or other surveyed datum. A corrected water table elevation will be provided in wells containing SPH by adding 0.8 times the measured SPH thickness to the measured water table elevation. Groundwater and SPH levels will be measured in all wells within 48 hours of the start of obtaining water level measurements. All automated and manual extraction of SPH and water from recovery wells, observation wells, and collection wells, which is close enough to affect measurements at the new wells, will be discontinued for 48 hours prior to the measurement of water and product levels.

Groundwater level and SPH thickness measurements will also be obtained at each new monitoring well during the next regularly scheduled facility-wide groundwater sampling event to facilitate preparation of a facility-wide potentiometric surface map.

5.3.2 Groundwater Sampling

Eight new monitoring wells will be completed in locations as shown on Figures 8 and 9. The locations were chosen to evaluate groundwater quality immediately down-gradient of potential

source areas. In addition, if any other soil borings encounter groundwater, then a groundwater sample will be collected for analysis prior to plugging the boring.

New monitoring wells will be developed once all new wells have been completed and it may take several days to complete well development. Groundwater samples will initially be obtained from newly constructed monitoring wells no later than five days after the completion of well development. A second round of groundwater monitoring and sampling will be conducted no sooner than 30 days and not later than 75 days of the initial sampling event. Subsequent sampling events will be dependent upon the analytical results of the first two sampling events and as specified by the NMED. All monitoring wells scheduled for sampling during a groundwater sampling event will be sampled within 15 days of the start of the monitoring and sampling event. Groundwater samples will be collected from borings not intended to be completed as monitoring wells prior to abandonment of the borings, if ground water is encountered.

5.3.3 Well Purging

All zones in each monitoring well will be purged by removing groundwater with a dedicated bailer or disposable bailer prior to sampling in order to ensure that formation water is being sampled. Purge volumes (a minimum of three well volumes including filter pack) will be determined by monitoring, at a minimum, groundwater pH, specific conductance, dissolved oxygen concentrations, oxidation- reduction potential, and temperature after every two gallons or each well volume, whichever is less, has been purged from the well. Purging will continue, as needed, until the specific conductance, pH, and temperature readings are within 10 percent between readings for three consecutive measurements. Field water quality parameters will also be compared to historical data provided in Table 6 to ensure that the measurements are indicative of formation water. The volume of groundwater purged, the instruments used, and the readings obtained at each interval will be recorded on the field-monitoring log. Well purging may also be conducted in accordance with the NMED's Position Paper *Use of Low-Flow and other Non-Traditional Sampling Techniques for RCRA Compliant Groundwater Monitoring* (October 30, 2001, as updated).

5.3.4 Groundwater Sample Collection

Groundwater samples will be collected within 24 hours of the completion of well purging using dedicated bailers or disposal bailers. Alternatively, well sampling may also be conducted in

accordance with the NMED's Position Paper *Use of Low-Flow and other Non-Traditional Sampling Techniques for RCRA Compliant Groundwater Monitoring* (October 30, 2001, as updated). Sample collection methods will be documented in the field monitoring reports. The samples will be transferred to the appropriate, clean, laboratory-prepared containers provided by the analytical laboratory. Sample handling and chain-of-custody procedures will be in accordance with the procedures presented below in Section 5.4.

Groundwater samples intended for metals analysis will be submitted to the laboratory as total metals samples. QA/QC samples will be collected to monitor the validity of the groundwater sample collection procedures as follows:

- Field duplicate water samples will be obtained at a frequency of ten percent, with a minimum, of one duplicate sample per sampling event;
- Field blanks will be obtained at a minimum frequency of one per day per site or unit. Field blanks will be generated by filling sample containers in the field with deionized water and submitting the samples, along with the groundwater samples, to the analytical laboratory for the appropriate analyses.
- Equipment rinsate blanks will be obtained for chemical analysis at the rate of ten percent or a minimum of one rinsate blank per sampling day. Equipment rinsate blanks will be collected at a rate of one per sampling day if disposable sampling equipment is used. Rinsate samples will be generated by rinsing deionized water through unused or decontaminated sampling equipment. The rinsate sample will be placed in the appropriate sample container and submitted with the groundwater samples to the analytical laboratory for the appropriate analyses.
- Trip blanks will accompany laboratory sample bottles and shipping and storage containers intended for VOC analyses. Trip blanks will consist of a sample of analyte-free deionized water prepared by the laboratory and placed in an appropriate sample container. The trip blank will be prepared by the analytical laboratory prior to the sampling event and will be kept with the shipping containers and placed with other water samples obtained from the site each day. Trip blanks will be analyzed at a frequency of one for each shipping container of samples to be analyzed for VOCs.

5.4 Sample Handling

At a minimum, the following procedures will be used at all times when collecting samples during investigation, corrective action, and monitoring activities:

1. Neoprene, nitrile, or other protective gloves will be worn when collecting samples. New disposable gloves will be used to collect each sample;

2. All samples collected of each medium for chemical analysis will be transferred into clean sample containers supplied by the project analytical laboratory with the exception of soil, rock, and sediment samples obtained in Encore® samplers. Sample container volumes and preservation methods will be in accordance with the most recent standard EPA and industry accepted practices for use by accredited analytical laboratories. Sufficient sample volume will be obtained for the laboratory to complete the method-specific QC analyses on a laboratory-batch basis; and

3. Sample labels and documentation will be completed for each sample following procedures discussed below. Immediately after the samples are collected, they will be stored in a cooler with ice or other appropriate storage method until they are delivered to the analytical laboratory. Standard chain-of-custody procedures, as described below, will be followed for all samples collected. All samples will be submitted to the laboratory soon enough to allow the laboratory to conduct the analyses within the method holding times. At a minimum, all samples will be submitted to the laboratory within 48 hours after their collection.

Chain-of-custody and shipment procedures will include the following:

1. Chain-of-custody forms will be completed at the end of each sampling day, prior to the transfer of samples off site.

2. Individual sample containers will be packed to prevent breakage and transported in a sealed cooler with ice or other suitable coolant or other EPA or industry-wide accepted method. The drainage hole at the bottom of the cooler will be sealed and secured in case of sample container leakage. Temperature blanks will be included with each shipping container.

3. Each cooler or other container will be delivered directly to the analytical laboratory.

4. Glass bottles will be separated in the shipping container by cushioning material to prevent breakage.

5. Plastic containers will be protected from possible puncture during shipping using cushioning material.

6. The chain-of-custody form and sample request form will be shipped inside the sealed storage container to be delivered to the laboratory.

7. Chain-of-custody seals will be used to seal the sample-shipping container in conformance with EPA protocol.

8. Signed and dated chain-of-custody seals will be applied to each cooler prior to transport of samples from the site.

9. Upon receipt of the samples at the laboratory, the custody seals will be broken, the chain-of-custody form will be signed as received by the laboratory, and the conditions of the samples will be recorded on the form. The original chain-of-custody form will remain with the laboratory and copies will be returned to the relinquishing party.

10. Copies of all chain-of-custody forms generated as part of sampling activities will be maintained on-site.

5.5 Decontamination Procedures

The objective of the decontamination procedures is to minimize the potential for cross-contamination. A designated decontamination area will be established for decontamination of drilling equipment, reusable sampling equipment and well materials. The drilling rig will be decontaminated prior to entering the site or unit. Drilling equipment or other exploration equipment that may come in contact with the borehole will be decontaminated by steam cleaning, by hot-water pressure washing, or by other methods approved by the Department prior to drilling each new boring.

Sampling or measurement equipment, including but not limited to, stainless steel sampling tools, split-barrel or core samplers, well developing or purging equipment, groundwater quality measurement instruments, and water level measurement instruments, will be decontaminated in

accordance with the following procedures or other methods approved by the Department before each sampling attempt or measurement:

1. Brush equipment with a wire or other suitable brush, if necessary or practicable, to remove large particulate matter;
2. Rinse with potable tap water;
3. Wash with nonphosphate detergent or other detergent approved by the Department (examples include Fantastik™, Liqui-Nox®);
4. Rinse with potable tap water; and
5. Double rinse with deionized water.

All decontamination solutions will be collected and stored temporarily as described in Section 4.3. Decontamination procedures and the cleaning agents used will be documented in the daily field log.

5.6 Field Equipment Calibration Procedures

Field equipment requiring calibration will be calibrated to known standards, in accordance with the manufacturers' recommended schedules and procedures. At a minimum, calibration checks will be conducted daily, or at other intervals approved by the Department, and the instruments will be recalibrated, if necessary. Calibration measurements will be recorded in the daily field logs. If field equipment becomes inoperable, its use will be discontinued until the necessary repairs are made. In the interim, a properly calibrated replacement instrument will be used.

5.7 Documentation of Field Activities

Daily field activities, including observations and field procedures, will be recorded in a field log book. The original field forms will be maintained at the Facility. Copies of the completed forms will be maintained in a bound and sequentially numbered field file for reference during field activities. Indelible ink will be used to record all field activities. Photographic documentation of field activities will be performed, as appropriate. The daily record of field activities will include the following:

1. Site or unit designation;
2. Date;
3. Time of arrival and departure;
4. Field investigation team members including subcontractors and visitors;
5. Weather conditions;
6. Daily activities and times conducted;

7. Observations;
8. Record of samples collected with sample designations and locations specified;
9. Photographic log;
10. Field monitoring data, including health and safety monitoring;
11. Equipment used and calibration records, if appropriate;
12. List of additional data sheets and maps completed;
13. An inventory of the waste generated and the method of storage or disposal; and
14. Signature of personnel completing the field record.

5.8 Chemical Analyses

All samples collected for laboratory analysis will be submitted to an accredited laboratory. The laboratory will use the most recent standard EPA and industry-accepted analytical methods for target analytes as the testing methods for each medium sampled. Chemical analyses will be performed in accordance with the most recent EPA standard analytical methodologies and extraction methods.

Groundwater and soil samples will be analyzed by the following methods:

- SW-846 Method 8260 volatile organic compounds;
- SW-846 Method 8270 semi-volatile organic compounds; and
- SW-846 Method 8015B gasoline and diesel range organics.

Groundwater and soil samples will also be analyzed for the following metals using the indicated analytical methods.

Analyte	Analytical Method
Antimony	SW-846 method 6010/6020
Arsenic	SW-846 method 6010/6020
Barium	SW-846 method 6010/6020
Beryllium	SW-846 method 6010/6020
Cadmium	SW-846 method 6010/6020
Chromium	SW-846 method 6010/6020
Cobalt	SW-846 method 6010/6020
Cyanide	SW-846 method 335.4/335.2 mod
Lead	SW-846 method 6010/6020
Mercury	SW-846 method 7470/7471
Nickel	SW-846 method 6010/6020
Selenium	SW-846 method 6010/6020
Silver	SW-846 method 6010/6020
Vanadium	SW-846 method 6010/6020
Zinc	SW-846 method 6010/6020

In addition, groundwater samples will also be analyzed for the following general chemistry parameters.

Analyte	Analytical Method
Bicarbonate	SM-2320B
Chloride	EPA method 300.0
Sulfate	EPA method 300.0
Calcium	EPA method 6010/6020
Magnesium	EPA method 6010/6020
Sodium	EPA method 6010/6020
Potassium	EPA method 6010/6020
Manganese	SW-846 method 6010/6020
Nitrate/nitrite	EPA method 300.0
Ferric/ferrous Iron	SW-846 method 6010/6020 & SM 3500Fe2+

As discussed in section 5.3.3, field measurements will be obtained for pH, specific conductance, dissolved oxygen concentrations, oxidation-reduction potential, and temperature.

5.9 Data Quality Objectives

The Data Quality Objectives (DQOs) were developed to ensure that newly collected data are of sufficient quality and quantity to address the projects goals, including Quality Assurance/Quality Control (QA/QC) issues. The project goals are established in the Order and are to determine and evaluate the presence, nature, and extent of releases of contaminants at specified SWMUs. The type of data required to meet the project goals includes chemical analyses of soil and groundwater to determine if there has been a release of contaminants at the individual SWMUs.

The quantity of data is SWMU specific and is based on the historical operations at individual locations. The quality of data that is required is consistent across locations and is specified in Section VIII.D.7.c of the Order. In general, method detection limits should be 20% or less of the applicable background levels, cleanup standards and screening levels.

Additional DQOs include precision, accuracy, representativeness, completeness, and comparability. Precision is a measurement of the reproducibility of measurements under a given set of circumstances and is commonly stated in terms of standard deviation or coefficient of variation (EPA, 1987). Precision is also specific to sampling activities and analytical performance. Sampling precision will be evaluated through the analyses of duplicate field samples and laboratory replicates will be utilized to assess laboratory precision.

Accuracy is a measurement in the bias of a measurement system and may include many sources of potential error, including the sampling process, field contamination, preservation, handling, sample matrix, sample preparation, and analysis techniques (EPA, 1987). An evaluation of the accuracy will be performed by reviewing the results of field/trip blanks, matrix spikes, and laboratory QC samples.

Representativeness is an expression of the degree to which the data accurately and precisely represent the true environmental conditions. Sample locations and the number of samples have been selected to ensure the data is representative of actual environmental conditions. Based on SWMU specific conditions, this may include either biased (i.e., judgmental) locations/depths or unbiased (systematic grid samples) locations, as discussed in Section 5.2 for soils and 5.3.2 for groundwater. In addition, sample collection techniques (e.g., purging of monitoring wells to collect formation water) will be utilized to help ensure representative results. An evaluation of on-going groundwater monitoring results will be performed to assess representativeness.

Completeness is defined as the percentage of measurements taken that are actually valid measurements, considering field QA and laboratory QC problems. EPA Contract Laboratory Program (CLP) data has been found to be 80-85% complete on a nationwide basis and this has been extrapolated to indicate that Level III, IV, and V analytical techniques will generate data that are approximately 80% complete (EPA, 1986). As an overall project goal, the completeness goal is 85%; however, some samples may be critical base on location or field screening results and thus a sample –by-sample evaluation will be performed to determine if the completeness goals have been obtained.

Comparability is a qualitative parameter, which expresses the confidence with which one data set can be compared to another. Industry standard sample collection techniques and routine EPA analytical methods will be utilized to help ensure data are comparable to historical and future data. Analytical results will be reported in appropriate units for comparison to historical data and cleanup levels.

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Section 6
Monitoring and Sampling Program

6.1 Groundwater Monitoring

After the initial investigation activities are completed, a second round of groundwater samples will be collected to confirm the initial groundwater analyses for samples collected at new monitoring wells. The groundwater samples will be collected no sooner than 30 days after the initial sampling event and no later than 75 days after the initial sampling event. If possible, the second sampling event will be timed to coincide with the regularly scheduled semiannual groundwater sampling events. The samples will be analyzed for the same constituents for which the first samples were analyzed.

Any subsequent sampling events will be based on the results of the first two analyses and will be approved by the NMED prior to implementation.

RPS JDC

Section 7
Schedule

This investigation work plan will be implemented within 90 days of NMED approval. The estimated timeframes for each of the planned activities is as shown below:

- field work (inclusive of all soil and initial groundwater sampling) -- five weeks;
- laboratory analyses for initial sampling event – four weeks;
- data reduction and validation (soils and initial groundwater event) – three weeks;
- second groundwater sampling event – one week;
- laboratory analyses for second groundwater sampling event – three weeks;
- data reduction and validation (second groundwater event) – two weeks; and
- data gap analysis – three weeks.

Completion of the data gap analysis will complete all activities conducted under this investigation workplan. If the data gap analysis indicates that additional investigation activities are necessary to satisfy the site investigation objectives, then Western may notify the NMED of the need to conduct additional assessment at the conclusion of the data gap analysis. If such notification is provided to NMED, any and all relevant information collected by Western will be provided to NMED, which pertains to the determination that additional assessment is required. If so directed by NMED, then Western will prepare and submit a revised investigation workplan to collect the data identified in the data gap analysis. This revised investigation workplan will be submitted to the NMED for review and approval within 60 days of notice to proceed. Otherwise, Western will prepare an investigation report pursuant to Section X.C of the Order. The investigation report will be submitted to the NMED within 120 days of completion of the data gap analysis.

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Section 8
References

EPA, 1987, Data Quality Objectives for Remedial Response Activities; United States Environmental Protection Agency, Office of Emergency and Remedial Response and Office of Waste Programs Enforcement, OSWER Directive 9355.0-7B, 85p

EPA, 1991, Human Health Evaluation Manual, Part B: "Development of Risk-Based Preliminary Remediation Goals; United States Environmental Protection Agency, Office of Solid Waste and Emergency Response; Memorandum December 13, 1991, OSWER Directive 9285.7-01B, 54p.

EPA, 1996, Soil Screening Guidance: User's Guide; United States Environmental Protection Agency, Office of Solid Waste and Emergency Response; Publication 9355.4-23, p. 123.

EPA, 2000, Guidance on Choosing a Sampling Design for Environmental Data Collection, EPA/240/R-02/005, EPA QA/G-5S, 168 p.

EPA, 2006, Guidance on Systematic Planning Using the Data Quality Objectives Process, United States Environmental Protection Agency, Office of Environmental Information; EPA/240/B-06/001, p. 111.

Giant Industries, 2003, Solid Waste Management Unit Assessment Report, Giant Refining Company Bloomfield Refinery.

Groundwater Technology Inc., 1994, RCRA Facility Investigation/Corrective Measures Study Report Bloomfield Refining Company #50 County Road 4990 Bloomfield, New Mexico, p.51.

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Tables

Table 1
Volatile Organic Ground Water Analytical Results Summary
Group 3 Investigation Work Plan
Bloomfield Refinery - Bloomfield, New Mexico

		Parameters				
		Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylene (mg/L)	MTBE (mg/L)
WQCC 20NMAC 6.2.3103 (mg/L):		0.005 (2)	0.75 (1)	0.7 (2)	0.62 (1)	0.011 (3)
Well ID:	**Date Sampled:**					
MW #3	4/5/2006	<0.001	<0.001	<0.001	<0.003	<0.0025
	8/5/2005	<0.001	<0.001	<0.001	<0.001	<0.001
	4/11/2005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0025
	8/21/2003	<0.001	<0.001	<0.001	<0.001	<0.001
MW-5	Dry					
MW-6	Dry					
MW #13	4/1/2007	<0.001	<0.001	<0.001	<0.002	0.0048
	8/15/2006	<0.001	<0.001	<0.001	<0.003	0.007
	4/5/2006	<0.001	<0.001	<0.001	<0.003	0.01
	8/5/2005	<0.001	<0.001	<0.001	<0.001	0.015
	4/11/2005	<0.0005	<0.0005	<0.0005	<0.0005	0.014
	8/23/2004	<0.0005	<0.0005	<0.0005	<0.0005	0.027
	3/3/2004	<0.0005	<0.0005	<0.0005	<0.0005	0.02
	8/21/2003	<0.001	<0.001	<0.001	<0.001	0.061
	3/3/2003	<0.0005	<0.0005	<0.0005	0.0012	0.049
MW #30	4/1/2007	5.7	3.3	5.4	21	<0.620
	4/5/2006	3.5	1.4	2.6	6.8	<0.620
	4/11/2005	5.7	3.7	4.4	12	<0.10
	8/23/2004	1.7	0.37	1.9	2.5	<0.10
MW #31	4/1/2007	4.3	<0.100	1.4	4.7	<0.250
	4/5/2006	6.1	1.5	0.94	4.5	<0.120
	4/11/2005	2.6	0.062	0.45	1.2	<0.250
	8/23/2004	3.7	0.4	0.32	1.2	<0.250
MW #44	4/1/2007	<0.001	0.0058	0.0026	0.034	<0.0025
	4/5/2006	<0.001	<0.001	<0.001	<0.003	0.0028
	4/11/2005	<0.0005	<0.0005	<0.0005	<0.0005	0.0041

Notes:
mg/L = milligram per liter
MW = monitoring well
RW = recovery well
NA = not analyzed
NE = not established
MTBE = methyl tertiary butyl ether
1 - WQCC 20NMAC 6.2.33103 = New Mexico Standard for Groundwater of 10,000 ug/L TDS or less.
2 - EPA Maximum Contaminant Level
3 - EPA Region VI Human Health Medium-Specific Screening Level 2007

Table 2
Total Metals Ground Water Analytical Results Summary
Group 3 Investigation Work Plan
Bloomfield Refinery - Bloomfield, New Mexico

		Parameters							
		Arsenic (mg/L)	Barium (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Lead (mg/L)	Selenium (mg/L)	Silver (mg/L)	Mercury (mg/L)
40 CFR 141.62 MCL (mg/L):		**0.01** (1)	**2.0**	**0.005**	**0.10**	**0.015**	**0.05**	**0.1** (2)	**0.002**
Well ID:	**Date Sampled:**								
MW #3	8/5/2005	NA	NA	NA	0.016	<0.005	NA	NA	NA
	8/21/2003	NA	NA	NA	0.029	**0.022**	NA	NA	<0.0002
MW-5	Dry								
MW-6	Dry								
MW #13	8/15/2006	<0.02	0.025	<0.002	<0.006	0.0078	<0.05	<0.005	<0.0002
	8/5/2005	NA	NA	NA	0.012	<0.005	NA	NA	NA
	8/23/2004	<0.02	0.028	<0.002	0.085	<0.005	<0.05	<0.005	<0.0002
	8/21/2003	NA	NA	NA	0.45	<0.005	NA	NA	<0.0002
MW #30	8/23/2004	<0.02	0.24	<0.002	0.0073	0.011	<0.05	<0.005	0.00023
MW #31	8/23/2004	<0.02	0.35	<0.002	0.0088	<0.005	<0.05	<0.005	0.00022
MW #44	8/23/2004	<0.02	0.084	<0.002	0.1	0.036	<0.05	<0.005	0.00033

Notes:
mg/L = milligram per liter
MW = monitoring well
RW = recovey well
NA= not analyzed

NE = not established

40 CFR 141.62 MCL = National Primar Drinking Water Regulations: Maxiumum Contaminant Levels and Maximum Residual Disinfectant Levels

(1) MCL as of 1/23/2006

(2) National secondary drinking water regulation

Table 3
Dissolved Metals Ground Water Analytical Results Summary
Group 3 Investigation Work Plan
Bloomfield Refinery- Bloomfield, New Mexico

		Parameters															
		Arsenic (mg/L)	Barium (mg/L)	Cadmium (mg/L)	Calcium (mg/L)	Chromium (mg/L)	Copper (mg/L)	Iron (mg/L)	Lead (mg/L)	Magnesium (mg/L)	Manganese (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Silver (mg/L)	Sodium (mg/L)	Uranium (mg/L)	Zinc (mg/L)
WQCC 20NMAC 6.2.3103 (mg/L):		**0.01**	**1.0**	**0.01**	**NE**	**0.05**	**1.0**	**1.0**	**0.05**	**NE**	**0.20**	**NE**	**0.05**	**0.05**	**NE**	**0.03 (1)**	**10.0**
Well ID:	**Date Sampled:**																
MW #3	8/5/2005	<0.02	0.018	<0.002	480	<0.006	<0.006	0.047	<0.005	130	**0.43**	7.6	<0.05	<0.005	1300	<0.1	0.018
	8/21/2003	<0.02	0.3	<0.002	490	<0.006	<0.006	0.27	<0.005	140	**0.58**	10	0.024	<0.005	1100	<0.1	0.094
MW-5	Dry																
MW-6	Dry																
MW #13	8/15/2006	<0.02	0.025	<0.002	250	<0.006	0.0063	<0.02	0.0078	82	1.1	3.6	<0.05	<0.005	620	<0.10	0.061
	8/5/2005	<0.02	0.028	<0.002	240	<0.006	<0.006	<0.02	<0.005	85	1.1	3.8	<0.05	<0.005	570	<0.1	0.0088
	8/23/2004	<0.02	0.022	<0.002	210	<0.006	<0.006	0.046	<0.005	80	0.58	3.6	<0.05	<0.005	610	<0.1	0.021
	8/21/2003	<0.02	0.33	<0.002	270	<0.006	0.0096	0.04	<0.005	110	1.1	5.3	0.16	<0.005	680	<0.1	0.09
MW #30	8/23/2004	<0.02	0.13	<0.002	350	<0.006	0.0061	4.7	0.0051	88	2.1	<10.0	<0.05	<0.005	750	<0.1	0.046
MW #31	8/23/2004	<0.02	0.35	<0.002	220	<0.006	<0.006	0.46	<0.005	67	0.58	4.8	<0.05	<0.005	640	<0.1	0.019
MW #44	8/23/2004	<0.02	0.046	<0.002	520	0.034	0.027	76	0.015	87	1.7	44	<0.05	<0.005	970	<0.10	0.084

Notes:
mg/L = milligram per liter
MW = monitoring well
RW = recovery well
NE = not established
NA = Not Analyzed
WQCC 20NMAC 6.2.33103 = New Mexico Standard for Groundwater of 10,000 ug/L or less

Table 4
General Chemistry Ground Water Analytical Results Summary
Group 3 Investigation Work Plan
Bloomfield Refinery - Bloomfield, New Mexico

		Parameters										
		Fluoride (mg/L)	Chloride (mg/L)	Bromide (mg/L)	Nitrite (mg/L)	Nitrogen (mg/L)	Phosphorus (mg/L)	Sulfate (mg/L)	TDS (mg/L)	E.C. (umhos/cm)	CO_2 (mg/L)	Alk (mg/L)
WQCC 20NMAC 6.2.3103 (mg/L):		**1.6**	**250**	**NE**	**NE**	**10**	**NE**	**600**	**1000**	**NE**	**NE**	**NE**
Well ID:	**Date Sampled:**											
MW #3	8/5/2005	0.33	1200	4.5	<0.50	42	<0.50	2300	6200	8300	680	680
	8/21/2003	0.17	1400	22	NA	41	<0.50	1900	5700	8500	NA	NA
MW-5	Dry											
MW-6	Dry											
MW #13	8/15/2006	0.12	310	3.7	8.3	NA	<0.50	1100	3000	4300	910	960
	8/5/2005	0.15	320	4.6	0.23	6.1	<0.50	1000	3000	4600	1000	1000
	8/23/2004	0.2	330	4.3	1.6	6.6	<0.50	950	2800	3400	860	950
	8/21/2003	0.19	510	13	<0.10	12	<0.50	840	3100	5000	1000	917
MW #30	8/23/2004	0.18	360	5.6	<0.10	<0.10	<0.10	720	3100	3900	1200	1400
MW #31	8/23/2004	0.19	370	7.2	<0.10	0.14	<0.50	750	2800	3700	980	1100
MW #44	8/23/2004	0.3	210	0.79	<0.10	<0.10	<0.50	2800	4800	5200	400	450

Notes:
Alk = alkalinity, total.
CO_2 = Carbon Dioxide
E.C. = electrical conductivity
TDS = total dissolved solids
umhos/cm = micro-mhos per centimeter
mg/L = milligram per liter
NE = not established
NA = not analyzed
MW = monitoring well
RW = recovery well
WQCC 20NMAC 6.2.33103 = New Mexico Standard for Groundwater of 10,000 ug/L or less

Table 5
Soil Analytical Results Summary
Group 3 Investigation Work Plan
Bloomfield Refinery - Bloomfield, New Mexico

			Parameters																
			Acetone (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	m.p-Xylene (mg/kg)	o-Xylene (mg/kg)	Methylene chloride (mg/kg)	Semi-Volatile Organics	Total Petroleum Hydrocarbons	Beryllium (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Thallium (mg/kg)	Zinc (mg/kg)
	Soil Screening Levels (mg/kg):		19.1 [3]	0.02 [3]	21.7 [3]	20.2 [3]	2.06 [3]	81.4 [3]	0.17 [3]	NA	NA	56.2 [2]	27.5 [3]	100,000 [4]	1030 [3]	800 [1]	953 (3)	3.43	13,600 [3]
Sample No.	Sample Location	Date Sampled																	
B-1 (2.5-4.5')	at SWMU No. 4	2/22/1994	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.66	4.5	9.7	12	ND	9.8	25	46
B-2 (10-12')	at SWMU No. 4	2/22/1994	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.53	3	8.5	8.9	ND	7	15	34
B-3 (6-8')	at AOC No. 22	2/22/1994	ND	ND	ND	ND	ND	ND	0.11	ND	ND	0.54	3.2	8	8.8	ND	7.4	15	35
B-4 (10-12')	at AOC No. 22	2/22/1994	ND	0.012	0.023	0.004J	0.031	0.022	ND	ND	ND	0.53	3.1	9.9	8.2	ND	7.2	19	32

Notes:
mg/kg = milligram per kilogram
ND - not detected, quantitation limit not provided in 1994 RFI Investigatio Report
NA = not available
NE = not established
The listed soil screening level is the lowest of the available NMED industrial/occupational, construction, and soil-to-ground water DAF 20 screening levels (Rev. 4 6/2006)
1 - Industrial/Occupational Soil Screening Level
2 - Construction Work Soil Screening Level
3 - Soil-to-Ground Water Screening Level

Table 5
Soil Analytical Results Summary
Group 3 Investigation Work Plan
Bloomfield Refinery - Bloomfield, New Mexico

			Parameters																
			Acetone (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	m.p-Xylene (mg/kg)	o-Xylene (mg/kg)	Methylene chloride (mg/kg)	Semi-Volatile Organics	Total Petroleum Hydrocarbons	Beryllium (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Thallium (mg/kg)	Zinc (mg/kg)
	Soil Screening Levels (mg/kg):		19.1 [3]	0.02 [3]	21.7 [3]	20.2 [3]	2.06 [3]	81.4 [3]	0.17 [3]	NA	NA	56.2 [2]	27.5 [3]	100,000 [4]	1030 [3]	800 [1]	953 (3)	3.43	13,600 [3]
Sample No.	**Sample Location**	**Date Sampled**																	
B-1 (2.5-4.5')	at SWMU No. 4	2/22/1994	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.66	4.5	9.7	12	ND	9.8	25	46
B-2 (10-12')	at SWMU No. 4	2/22/1994	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.53	3	8.5	8.9	ND	7	15	34
B-3 (6-8')	at AOC No. 22	2/22/1994	ND	ND	ND	ND	ND	ND	0.11	ND	ND	0.54	3.2	8	8.8	ND	7.4	15	35
B-4 (10-12')	at AOC No. 22	2/22/1994	ND	0.012	0.023	0.004J	0.031	0.022	ND	ND	ND	0.53	3.1	9.9	8.2	ND	7.2	19	32

Notes:
mg/kg = milligram per kilogram
ND - not detected, quantitation limit not provided in 1994 RFI Investigatio Report
NA = not available
NE = not established
The listed soil screening level is the lowest of the available NMED industrial/occupational, construction, and soil-to-ground water DAF 20 screening levels (Rev. 4 6/2006)
1 - Industrial/Occupational Soil Screening Level
2 - Construction Work Soil Screening Level
3 - Soil-to-Ground Water Screening Level

Table 5
Soil Analytical Results Summary
Group 3 Investigation Work Plan
Bloomfield Refinery - Bloomfield, New Mexico

				Parameters															
			Acetone (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	m.p-Xylene (mg/kg)	o-Xylene (mg/kg)	Methylene chloride (mg/kg)	Semi-Volatile Organics	Total Petroleum Hydrocarbons	Beryllium (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Thallium (mg/kg)	Zinc (mg/kg)
	Soil Screening Levels (mg/kg):		19.1 [3]	0.02 [3]	21.7 [3]	20.2 [3]	2.06 [3]	81.4 [3]	0.17 [3]	NA	NA	56.2 [2]	27.5 [3]	100,000 [4]	1030 [3]	800 [1]	953 (3)	3.43	13,600 [3]
Sample No.	Sample Location	Date Sampled																	
B-1 (2.5-4.5')	at SWMU No. 4	2/22/1994	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.66	4.5	9.7	12	ND	9.8	25	46
B-2 (10-12')	at SWMU No. 4	2/22/1994	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.53	3	8.5	8.9	ND	7	15	34
B-3 (6-8')	at AOC No. 22	2/22/1994	ND	ND	ND	ND	ND	ND	0.11	ND	ND	0.54	3.2	8	8.8	ND	7.4	15	35
B-4 (10-12')	at AOC No. 22	2/22/1994	ND	0.012	0.023	0.004J	0.031	0.022	ND	ND	ND	0.53	3.1	9.9	8.2	ND	7.2	19	32

Notes:
mg/kg = milligram per kilogram
ND - not detected, quantitation limit not provided in 1994 RFI Investigatio Report
NA = not available
NE = not established
The listed soil screening level is the lowest of the available NMED industrial/occupational, construction, and soil-to-ground water DAF 20 screening levels (Rev. 4 6/2006)
1 - Industrial/Occupational Soil Screening Level
2 - Construction Work Soil Screening Level
3 - Soil-to-Ground Water Screening Level

Table 5
Soil Analytical Results Summary
Group 3 Investigation Work Plan
Bloomfield Refinery - Bloomfield, New Mexico

			Parameters																
			Acetone (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	m.p-Xylene (mg/kg)	o-Xylene (mg/kg)	Methylene chloride (mg/kg)	Semi-Volatile Organics	Total Petroleum Hydrocarbons	Beryllium (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Thallium (mg/kg)	Zinc (mg/kg)
	Soil Screening Levels (mg/kg):		19.1 [3]	0.02 [3]	21.7 [3]	20.2 [3]	2.06 [3]	81.4 [3]	0.17 [3]	NA	NA	56.2 [2]	27.5 [3]	100,000 [4]	1030 [3]	800 [1]	953 (3)	3.43	13,600 [3]
Sample No.	Sample Location	Date Sampled																	
B-1 (2.5-4.5')	at SWMU No. 4	2/22/1994	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.66	4.5	9.7	12	ND	9.8	25	46
B-2 (10-12')	at SWMU No. 4	2/22/1994	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.53	3	8.5	8.9	ND	7	15	34
B-3 (6-8')	at AOC No. 22	2/22/1994	ND	ND	ND	ND	ND	ND	0.11	ND	ND	0.54	3.2	8	8.8	ND	7.4	15	35
B-4 (10-12')	at AOC No. 22	2/22/1994	ND	0.012	0.023	0.004J	0.031	0.022	ND	ND	ND	0.53	3.1	9.9	8.2	ND	7.2	19	32

Notes:
mg/kg = milligram per kilogram
ND - not detected, quantitation limit not provided in 1994 RFI Investigatio Report
NA = not available
NE = not established
The listed soil screening level is the lowest of the available NMED industrial/occupational, construction, and soil-to-ground water DAF 20 screening levels (Rev. 4 6/2006)
1 - Industrial/Occupational Soil Screening Level
2 - Construction Work Soil Screening Level
3 - Soil-to-Ground Water Screening Level

Table 5
Soil Analytical Results Summary
Group 3 Investigation Work Plan
Bloomfield Refinery - Bloomfield, New Mexico

			Parameters																
			Acetone (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	m.p-Xylene (mg/kg)	o-Xylene (mg/kg)	Methylene chloride (mg/kg)	Semi-Volatile Organics	Total Petroleum Hydrocarbons	Beryllium (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Thallium (mg/kg)	Zinc (mg/kg)
	Soil Screening Levels (mg/kg):		19.1 [3]	0.02 [3]	21.7 [3]	20.2 [3]	2.06 [3]	81.4 [3]	0.17 [3]	NA	NA	56.2 [2]	27.5 [3]	100,000 [4]	1030 [3]	800 [1]	953 (3)	3.43	13,600 [3]
Sample No.	Sample Location	Date Sampled																	
B-1 (2.5-4.5')	at SWMU No. 4	2/22/1994	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.66	4.5	9.7	12	ND	9.8	25	46
B-2 (10-12')	at SWMU No. 4	2/22/1994	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.53	3	8.5	8.9	ND	7	15	34
B-3 (6-8')	at AOC No. 22	2/22/1994	ND	ND	ND	ND	ND	ND	0.11	ND	ND	0.54	3.2	8	8.8	ND	7.4	15	35
B-4 (10-12')	at AOC No. 22	2/22/1994	ND	0.012	0.023	0.004J	0.031	0.022	ND	ND	ND	0.53	3.1	9.9	8.2	ND	7.2	19	32

Notes:
mg/kg = milligram per kilogram
ND - not detected, quantitation limit not provided in 1994 RFI Investigatio Report
NA = not available
NE = not established
The listed soil screening level is the lowest of the available NMED industrial/occupational, construction, and soil-to-ground water DAF 20 screening levels (Rev. 4 6/2006)
1 - Industrial/Occupational Soil Screening Level
2 - Construction Work Soil Screening Level
3 - Soil-to-Ground Water Screening Level

Table 5
Soil Analytical Results Summary
Group 3 Investigation Work Plan
Bloomfield Refinery - Bloomfield, New Mexico

			Parameters																
			Acetone (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	m.p-Xylene (mg/kg)	o-Xylene (mg/kg)	Methylene chloride (mg/kg)	Semi-Volatile Organics	Total Petroleum Hydrocarbons	Beryllium (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Thallium (mg/kg)	Zinc (mg/kg)
	Soil Screening Levels (mg/kg):		19.1 [3]	0.02 [3]	21.7 [3]	20.2 [3]	2.06 [3]	81.4 [3]	0.17 [3]	NA	NA	56.2 [2]	27.5 [3]	100,000 [4]	1030 [3]	800 [1]	953 (3)	3.43	13,600 [3]
Sample No.	Sample Location	Date Sampled																	
B-1 (2.5-4.5')	at SWMU No. 4	2/22/1994	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.66	4.5	9.7	12	ND	9.8	25	46
B-2 (10-12')	at SWMU No. 4	2/22/1994	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.53	3	8.5	8.9	ND	7	15	34
B-3 (6-8')	at AOC No. 22	2/22/1994	ND	ND	ND	ND	ND	ND	0.11	ND	ND	0.54	3.2	8	8.8	ND	7.4	15	35
B-4 (10-12')	at AOC No. 22	2/22/1994	ND	0.012	0.023	0.004J	0.031	0.022	ND	ND	ND	0.53	3.1	9.9	8.2	ND	7.2	19	32

Notes:
mg/kg = milligram per kilogram
ND - not detected, quantitation limit not provided in 1994 RFI Investigatio Report
NA = not available
NE = not established
The listed soil screening level is the lowest of the available NMED industrial/occupational, construction, and soil-to-ground water DAF 20 screening levels (Rev. 4 6/2006)
1 - Industrial/Occupational Soil Screening Level
2 - Construction Work Soil Screening Level
3 - Soil-to-Ground Water Screening Level

Table 6
Field Measurement Summary
Group 3 Investigation Work Plan
Western Refinery Company - Bloomfield, New Mexico

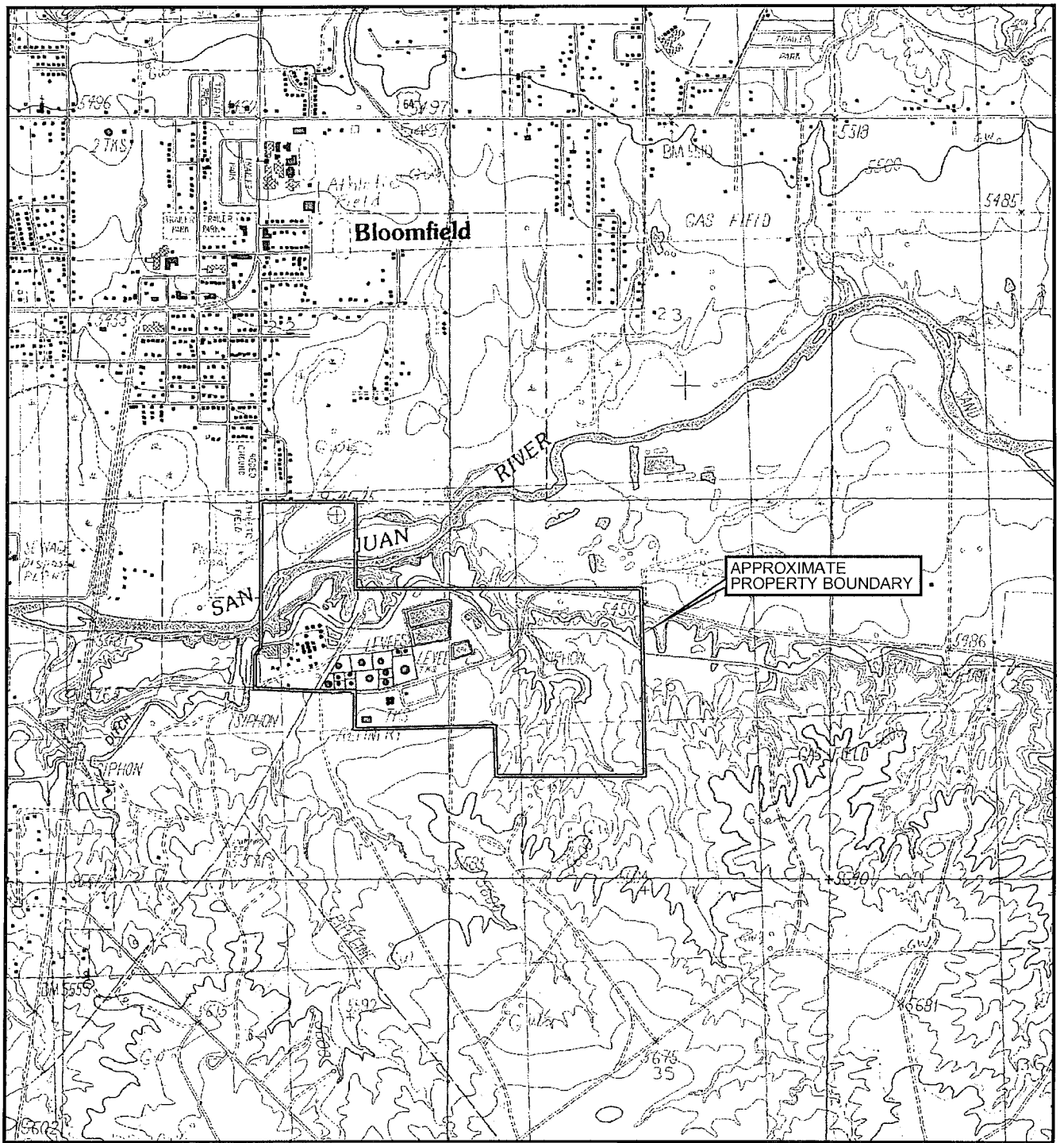
		Field Measurements				
Well ID:	**Date Sampled:**	**E.C. (umhos/cm)**	**pH (s.u.)**	**Temperature (deg F)**	**DO (mg/L)**	**ORP (–)**
MW #3	8/15/2006	NS	NS	NS	NS	NS
	4/6/2006	7212	7.02	65	NR	NR
	8/1/2005	7685	6.98	67	NS	-44
	4/6/2005	2535	7.02	61	NS	NS
	8/23/2004	7558	6.96	64	NS	-11
	8/25/2003	7818	6.96	66	NM	57
MW #5	8/15/2006	DRY				
	4/6/2006	DRY				
	8/1/2005	DRY				
	4/4/2005	DRY				
	8/23/2004	DRY				
	8/25/2003	DRY				
MW #6	8/15/2006	DRY				
	4/6/2006	DRY				
	8/1/2005	DRY				
	4/4/2005	DRY				
	8/24/2004	DRY				
	3/2/2004	DRY				
	8/25/2003	DRY				
	3/3/2003	DRY				
MW #13	8/15/2006	3993	6.93	62	0.56	246
	4/6/2006	4108	7.06	63	NR	NR
	8/1/2005	4113	6.94	63	6.2	166
	4/5/2005	4038	7.05	60	NR	NR
	8/18/2004	3638	6.79	62	5.0	158
	3/3/2004	3895	6.96	59	NM	NM
	8/21/2003	4573	6.77	64	5.6	86
	3/3/2003	4153	6.65	58	NM	NM
MW #30	8/15/2006	NR	NR	NR	NR	NR
	4/6/2006	3246.3	6.9	65.1	NR	NR
	8/1/2005	NR	NR	NR	NR	NR
	4/12/2005	3349	6.99	61	NR	NR
	8/23/2004	4480	6.90	62	over range	-196
MW #31	8/15/2006	NR	NR	NR	NR	NR
	4/6/2006	3891.7	7.0	63.5	NR	NR
	8/1/2005	NR	NR	NR	NR	NR
	4/5/2005	3731	7.01	61	NR	NR
	8/25/2004	3945	7.07	64	3.4	-19
MW #44	8/15/2006	NR	NR	NR	NR	NR
	4/6/2006	5585.3	6.8	62.5	NR	NR
	8/1/2005	NR	NR	NR	NR	NR
	4/12/2005	5559	6.93	59	NR	NR
	8/23/2004	5589	6.90	60	5.3	-52

Notes:

deg F = degrees Fahrenheit
E.C. = electrical conductivity
mg/L = milligrams per liter
MW = monitoring well
NM = not measured
NR = not required
ORP = Oxidation-reduction potential
SPH = separate phase hydrocarbon contained in well, not sampled
s.u. = standard units (recorded by portable pH meter)
umhos/cm = micro-mhos per centimeter
NS = not sampled, well is dry
NPP = no product present

RPS JDC

Figures

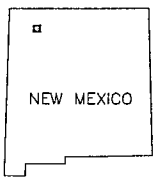


Map Source: USGS 7.5 Min. Quad Sheet BLOOMFIELD, NM., 1985.

N

0 2000

SCALE IN FEET



QUADRANGLE LOCATION

Western Refining

WESTERN REFINING COMPANY

PROJ. NO.: Western Refining	DATE: 6/19/08	FILE: WestRef-A25

FIGURE 1
SITE LOCATION MAP
GIANT BLOOMFIELD REFINERY

404 Camp Craft Road
Austin, Texas 78746
RPS JDC

Western Refining

WESTERN REFINING COMPANY

PROJ. NO.: Western Refining | DATE: 6/18/08 | FILE:WestRef-B03

FIGURE 2
SWMU GROUP No. 3
SAMPLE LOCATIONS
GIANT BLOOMFIELD REFINERY

RPS JDC

404 Camp Craft Road
Austin, Texas 78746

AOC No. 23

AOC No. 26

AOC No. 22

AOC No. 24

SWMU No. 4

SWMU No. 5

AOC No. 25

LEGEND

- MW-1 ● MONITORING WELL LOCATION AND IDENTIFICATION NUMBER
- RW-1 ⊘ RECOVERY WELL LOCATION AND IDENTIFICATION NUMBER
- OW 1+50 ◐ OBSERVATION WELL LOCATION AND IDENTIFICATION NUMBER
- CW 1+50 ◑ COLLECTION WELL LOCATION AND IDENTIFICATION NUMBER
- SW1-0206 ▲ SUMP WELL LOCATION AND IDENTIFICATION NUMBER
- ⊘ PROPOSED SOIL BORING LOCATION
- W PROPOSED MONITORING WELL COMPLETION
- P-2 PIEZOMETER IDENTIFICATION
- ⊗ SURFACE SOIL SAMPLE
- B-1 ⊠ 1994 RFI SOIL BORING

- UNDER GROUND PIPE-WAY
- ABOVE GROUND PIPE-WAY
- SLURRY BARRIER WALL
- A —— A' CROSS SECTION LINE

N

0 300
SCALE IN FEET

WEST
A

EAST
A'

5540
5530
5520
5510
5500
5490
5480
ELEVATION
(FT MSL)

RW-1 MW-40 MW-41 RW-42 RW-17 RW-16 RW-15 RW-14 MW-44 MW-3

OW 1+50
CW 1+50

SILT, SAND
SAND, GRAVEL
GRAVEL
SAND
NACIMIENTO FORMATION
SANDSTONE
SHALE
SLURRY WALL

CLAY, SILTY, SANDY
SAND, SILT
GRAVEL, COBBLES

CLAY
SAND
CLAY
SAND, COBBLES

SILT SANDY
SAND
CLAY SANDY
SAND
GRAVEL

?
SAND, GRAVEL

?
SAND, GRAVEL

?
SAND, GRAVEL

SAND
CLAY
SAND
GRAVEL SANDY
SANDSTONE ARGILLACEOUS

SILT, CLAY
SAND
CLAY SANDY
SAND, COBBLES
SANDSTONE CLAYEY

EXPLANATION

MW-3 ← WELL IDENTIFICATION

WELL

SCREEN INTERVAL

LITHOLOGIC CONTACTS

▽ – POTENTIOMETRIC SURFACE MEASURED APRIL 2007

10
0
200
SCALE IN FEET
VERTICAL EXAGGERATION = 20X

Western Refining

WESTERN REFINING COMPANY

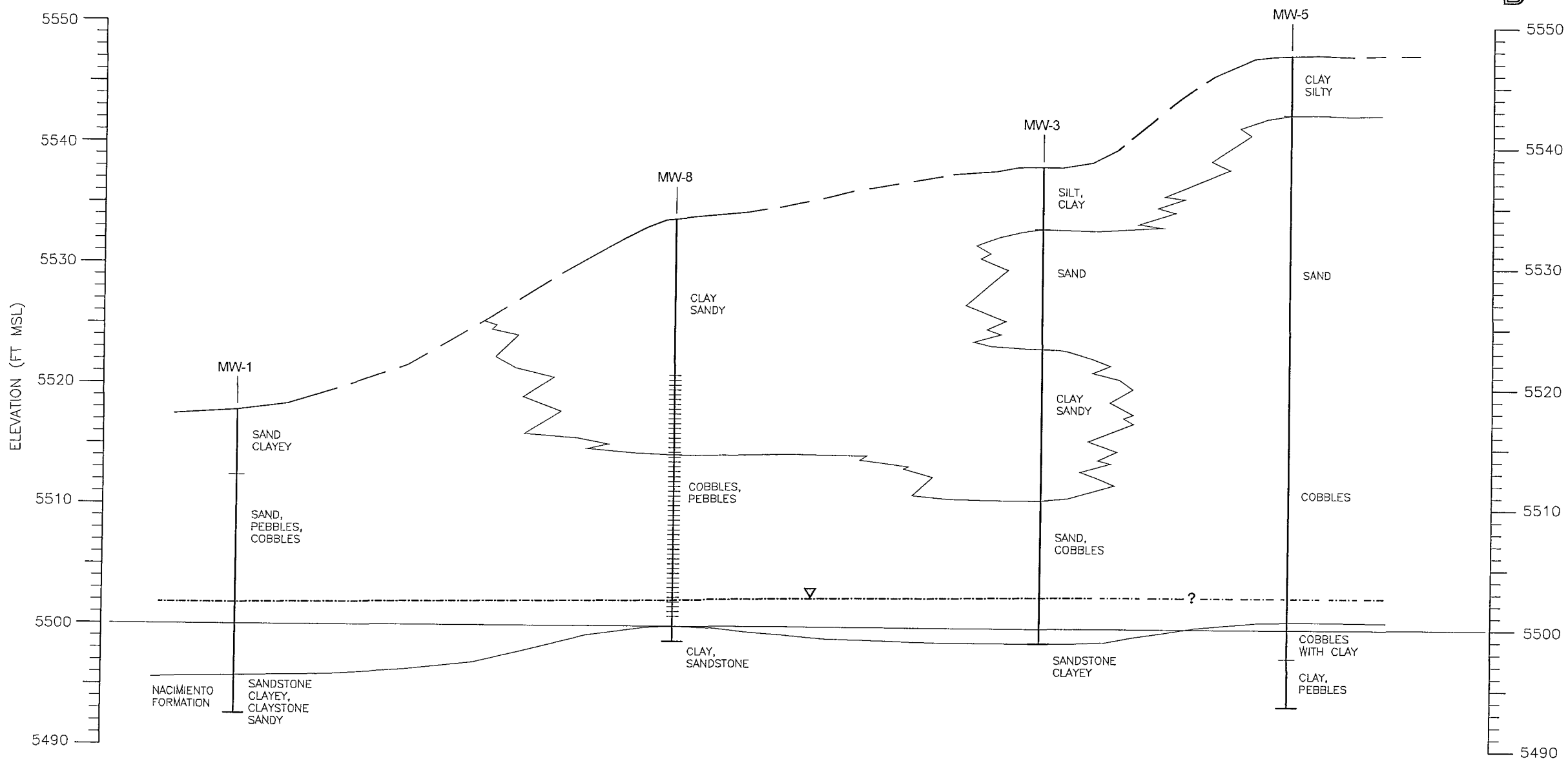
PROJ. NO.: Western Refining	DATE: 6/19/08	FILE: WestRef-B06

FIGURE 3
CROSS SECTION A-A'
WEST TO EAST
GIANT BLOOMFIELD REFINERY

RPS JDC
404 Camp Craft Road
Austin, Texas 78746

NORTH
B

SOUTH
B'



EXPLANATION

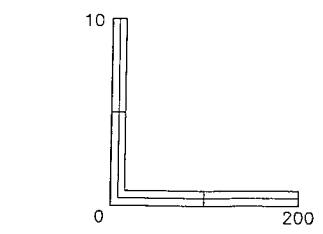
MW-3 ← WELL IDENTIFICATION

WELL

SCREEN INTERVAL

LITHOLOGIC CONTACTS

– POTENTIOMETRIC SURFACE MEASURED APRIL 2007



SCALE IN FEET
VERTICAL EXAGGERATION = 20X

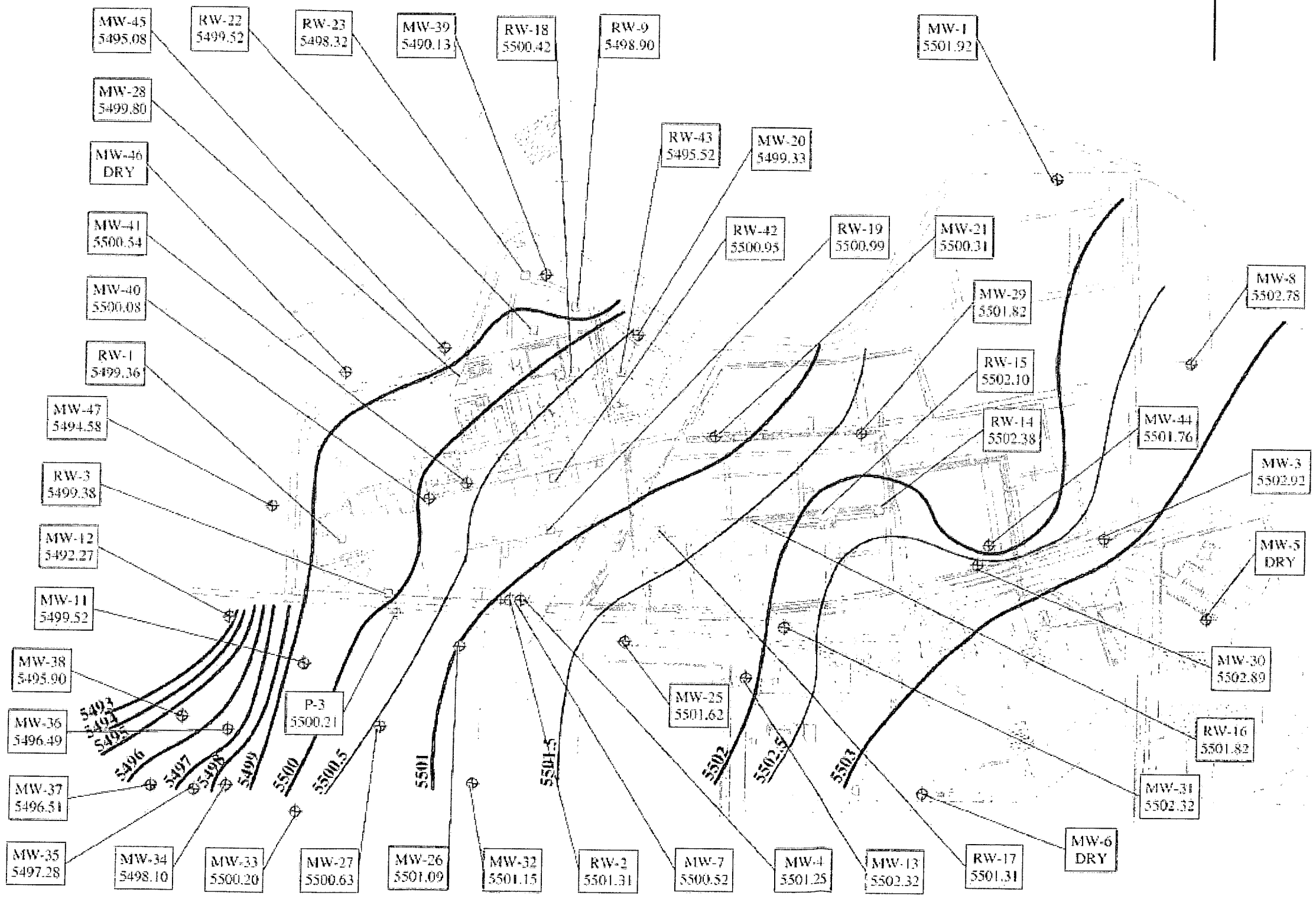
Western Refining

WESTERN REFINING COMPANY

PROJ. NO.: Western Refining	DATE: 6/19/08	FILE:WestRef-B07

FIGURE 4
CROSS SECTION B-B'
NORTH TO SOUTH
GIANT BLOOMFIELD REFINERY

RPS JDC
404 Camp Craft Road
Austin, Texas 78746



Map Source: Malcolm–Pirnie Facility–Wide Groundwater Monitoring Plan, Western Refining Bloomfield Refinery, Figure 7 Groundwater.mxd, July 2007.

N

0 1200
SCALE IN FEET

Legend

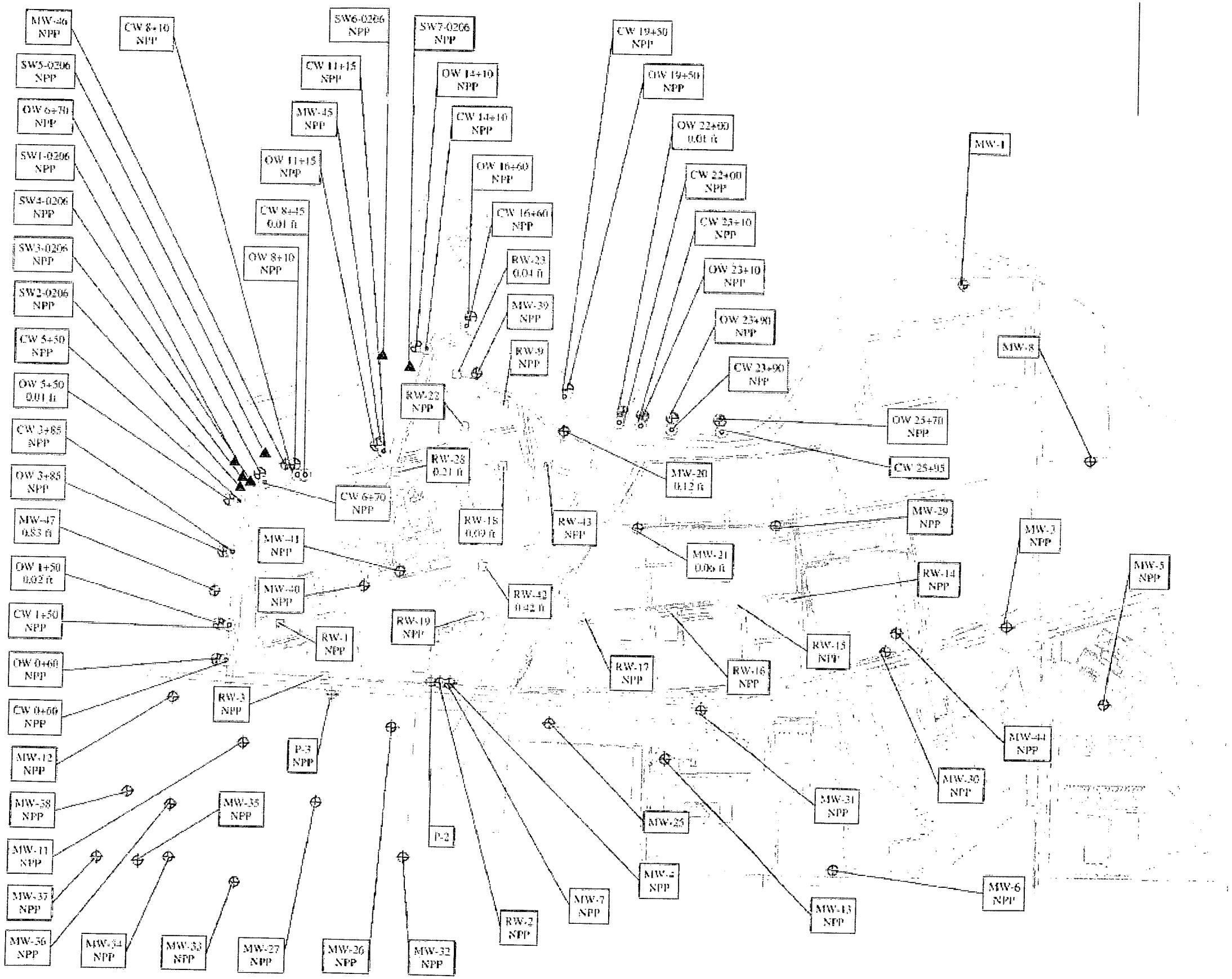
- Monitoring Well
- Recovery Well
- Piezometer
- Groundwater Elevation Contours
- Site
- RW-2 5501.31 - Well ID - Groundwater Elevation (ft amsl)

Western Refining
WESTERN REFINING COMPANY

PROJ. NO.: Western Refining | DATE: 6/19/08 | FILE:WestRef–B08

FIGURE 5
APRIL 2007
POTENTIOMETRIC SURFACE
GIANT BLOOMFIELD REFINERY

RPS JDC
404 Camp Craft Road
Austin, Texas 78746



Map Source: Malcolm–Pirnie Facility–Wide Groundwater Monitoring Plan, Western Refining Bloomfield Refinery, Figure 8 Separate Phase Hydrocarbon Map.mxd, July 2007.

N

0 1200
SCALE IN FEET

Legend

- Monitoring Well
- Observation Well
- Recovery Well
- Piezometer
- Collection Well
- Sump Well
- Site

MW-35 NPP - Well ID

ft = Feet

NPP = No Product Present
NA = Not Available

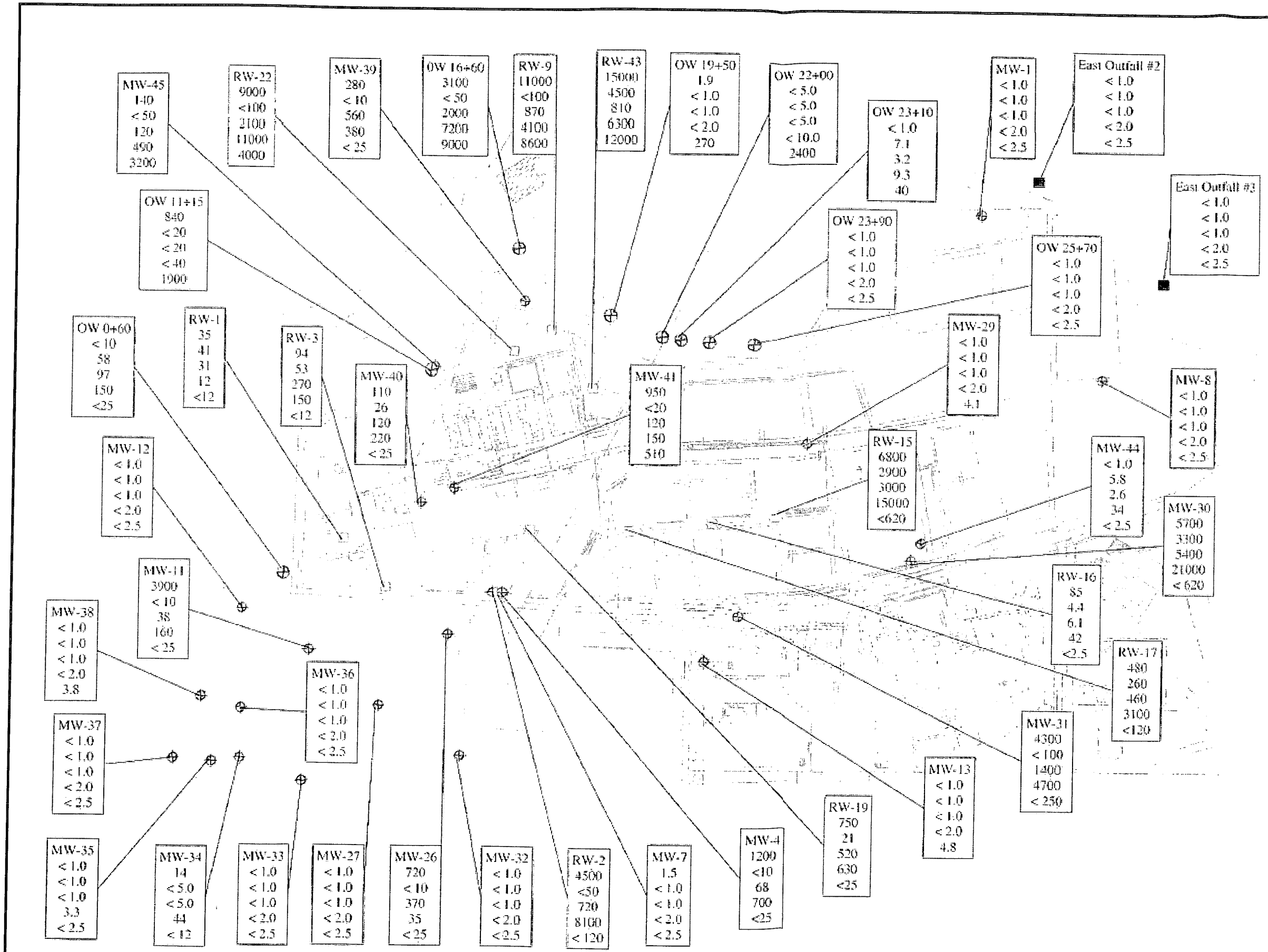
Note:
OWs and CWs were collected on 1/15/07
SWs were collected on 1/2/07

Western Refining
WESTERN REFINING COMPANY

PROJ. NO.: Western Refining | DATE: 6/19/08 | FILE:WestRef–B09

FIGURE 6
SPRING 2007
SEPARATE PHASE
HYDROCARBON THICKNESS MAP
GIANT BLOOMFIELD REFINERY

RPS JDC
404 Camp Croft Road
Austin, Texas 78746



Map Source: Malcolm–Pirnie Facility–Wide Groundwater Monitoring Plan, Western Refining Bloomfield Refinery, Figure 4 Concentration Map.mxd, July 2007.

N

0 1200
SCALE IN FEET

Legend

- Monitoring Well
- Observation Well
- Outfall
- Recovery Well
- Site

< 1.0	- Benzene
< 1.0	- Toluene
< 1.0	- Ethylbenzene
3.3	- Xylenes, Total
< 2.5	- MTBE

All concentrations in micrograms per liter (ug/L)

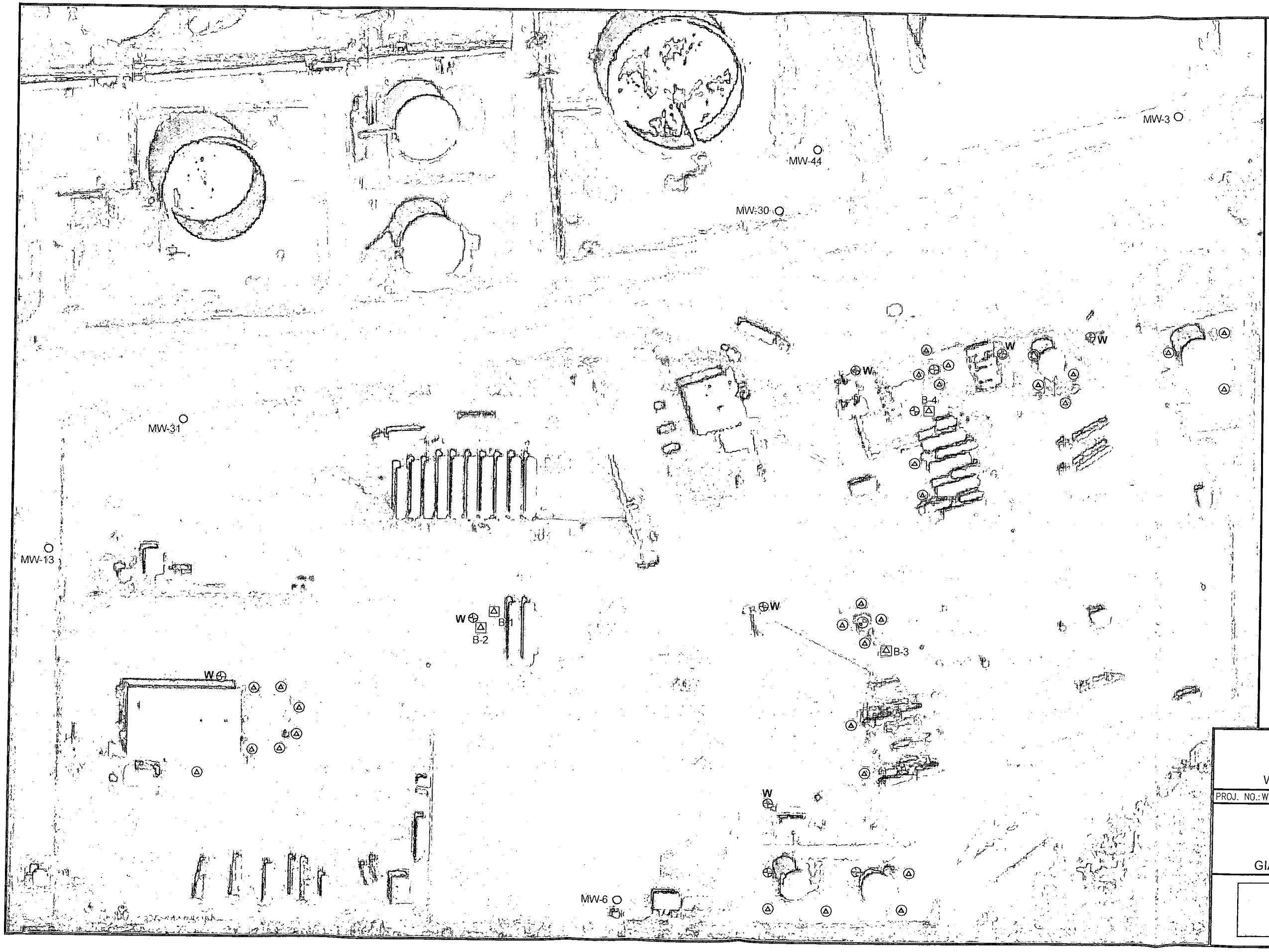
Western Refining

WESTERN REFINING COMPANY

PROJ. NO.: Western Refining | DATE: 6/19/08 | FILE:WestRef–B10

FIGURE 7
SPRING 2007
DISSOLVED-PHASE
GROUNDWATER DATA
GIANT BLOOMFIELD REFINERY

RPS JDC
404 Camp Craft Road
Austin, Texas 78746



Aerial Map Source: Google Maps, 2008 DigitalGlobe.

N

0 100
SCALE IN FEET

LEGEND

- ⊕ PROPOSED SOIL BORING LOCATION
- W PROPOSED MONITORING WELL COMPLETION
- MW-6 ○ MONITORING WELL LOCATION
- ◬ SURFACE SOIL SAMPLE
- B-1 △ 1994 RFI SOIL BORING

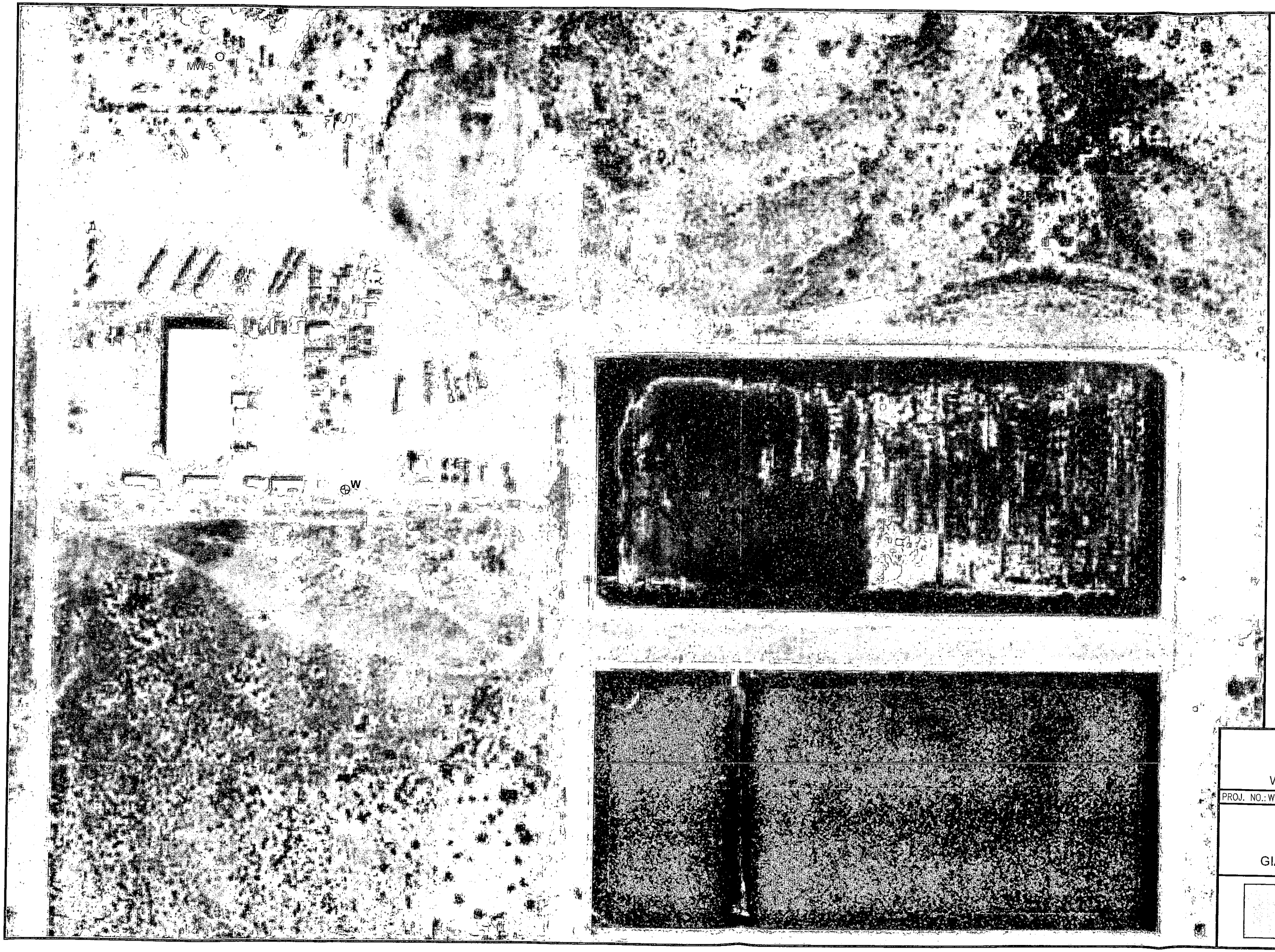
Western Refining

WESTERN REFINING COMPANY

PROJ. NO.: Western Refining	DATE: 6/18/08	FILE:WestRef-B04

FIGURE 8
SWMU No. 4 AND No. 5,
AOC No. 22, 24, 25 AND 26
SAMPLE LOCATIONS MAP
GIANT BLOOMFIELD REFINERY

RPS JDC
404 Camp Craft Road
Austin, Texas 78746



Aerial Map Source: Google Maps, 2008 DigitalGlobe.

N

0 120
SCALE IN FEET

LEGEND

- ⊕ PROPOSED SOIL BORING LOCATION
- W PROPOSED MONITORING WELL COMPLETION
- MW-5 ○ MONITORING WELL LOCATION

Western Refining

WESTERN REFINING COMPANY

PROJ. NO.: Western Refining	DATE: 6/18/08	FILE: WestRef-B05

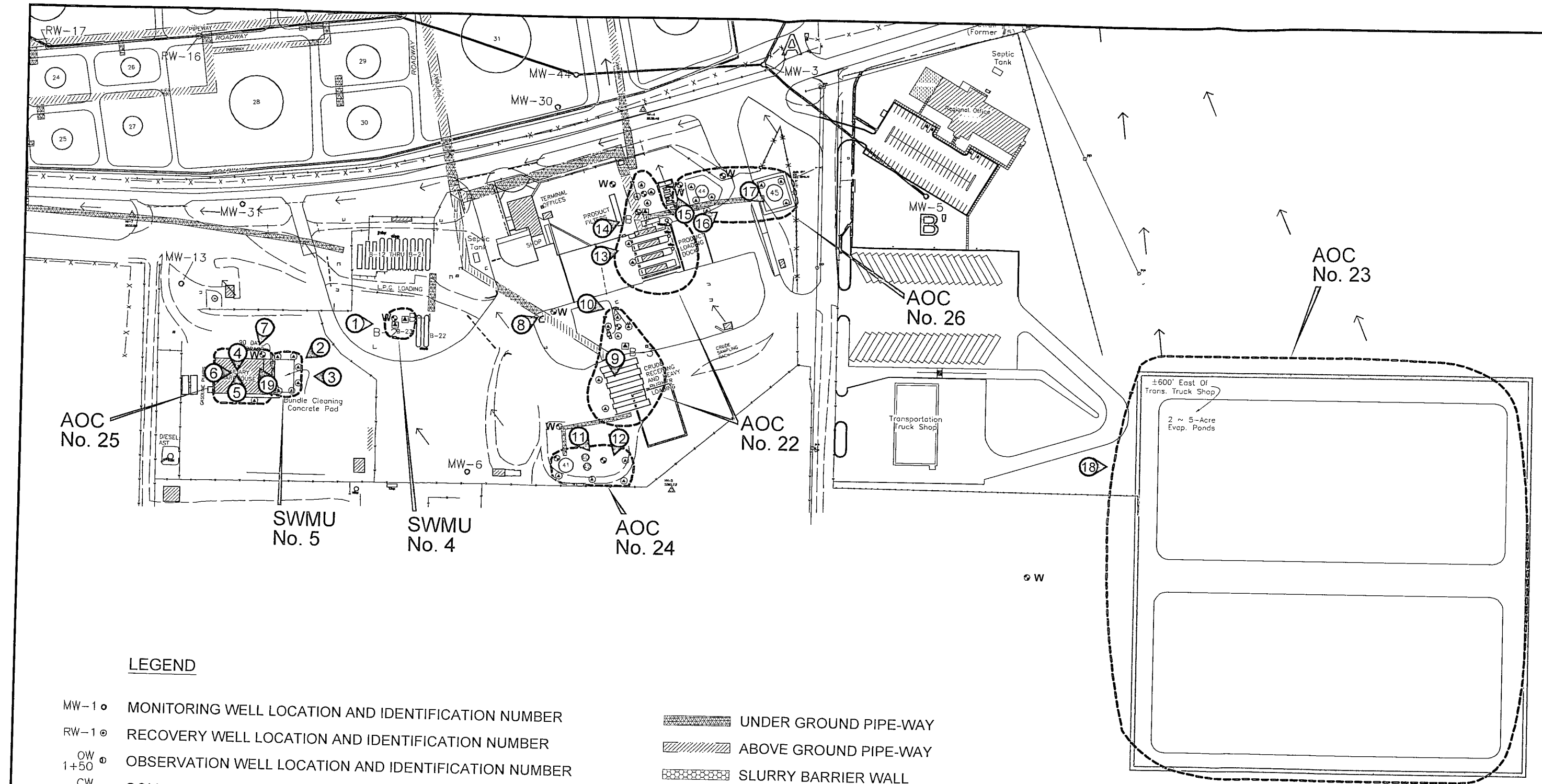
FIGURE 9
AOC No. 23
SAMPLE LOCATIONS MAP
GIANT BLOOMFIELD REFINERY

RPS JDC
404 Camp Craft Road
Austin, Texas 78746

RPS JDC

Appendix A

Photographs



LEGEND

- MW-1 ⊙ MONITORING WELL LOCATION AND IDENTIFICATION NUMBER
- RW-1 ⊙ RECOVERY WELL LOCATION AND IDENTIFICATION NUMBER
- OW 1+50 ⊙ OBSERVATION WELL LOCATION AND IDENTIFICATION NUMBER
- CW 1+50 ⊙ COLLECTION WELL LOCATION AND IDENTIFICATION NUMBER
- SW1-0206 ▲ SUMP WELL LOCATION AND IDENTIFICATION NUMBER
- ⊙ PROPOSED SOIL BORING LOCATION
- W PROPOSED MONITORING WELL COMPLETION
- P-2 PIEZOMETER IDENTIFICATION
- ⊙ SURFACE SOIL SAMPLE
- B-1 ⊡ 1994 RFI SOIL BORING

- UNDER GROUND PIPE-WAY
- ABOVE GROUND PIPE-WAY
- SLURRY BARRIER WALL
- A — A' CROSS SECTION LINE
- ◁1 PHOTO LOCATION

N

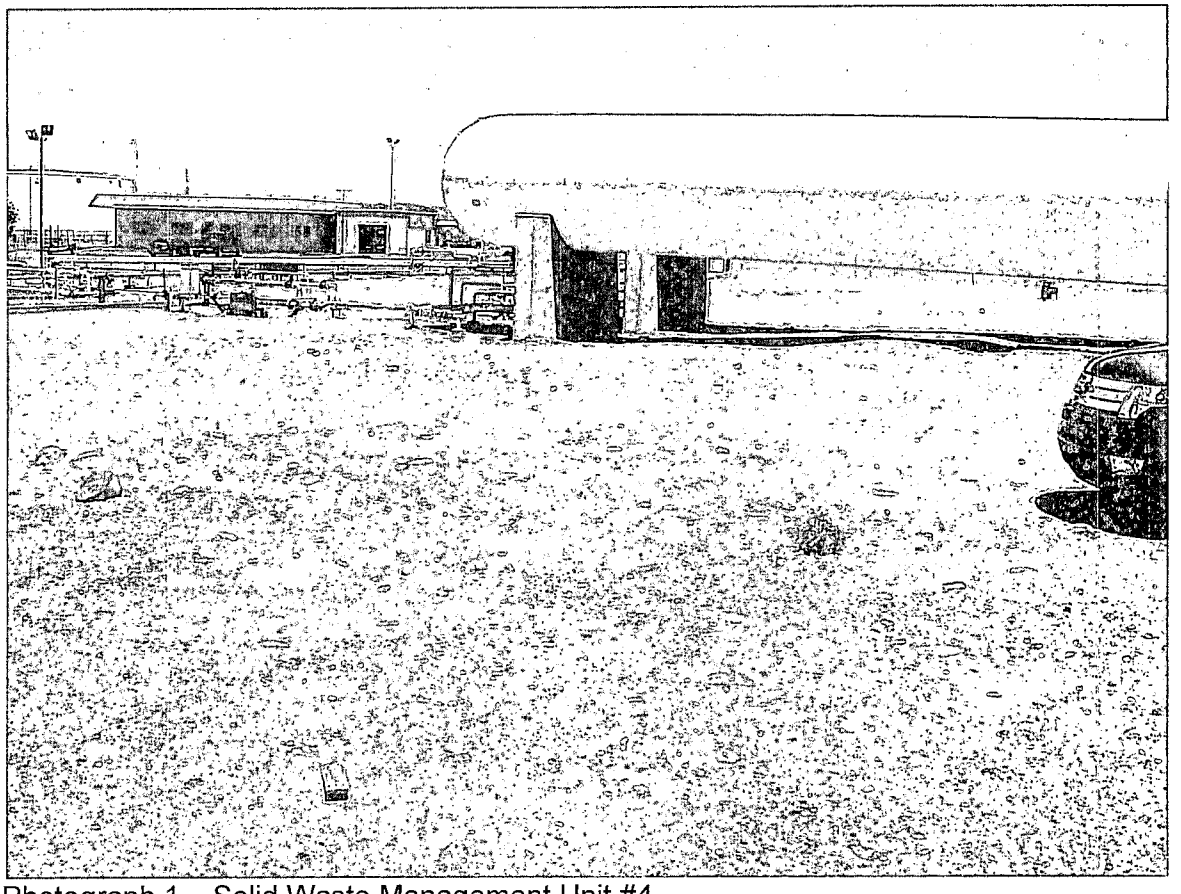
0 200
SCALE IN FEET

Western Refining
WESTERN REFINING COMPANY

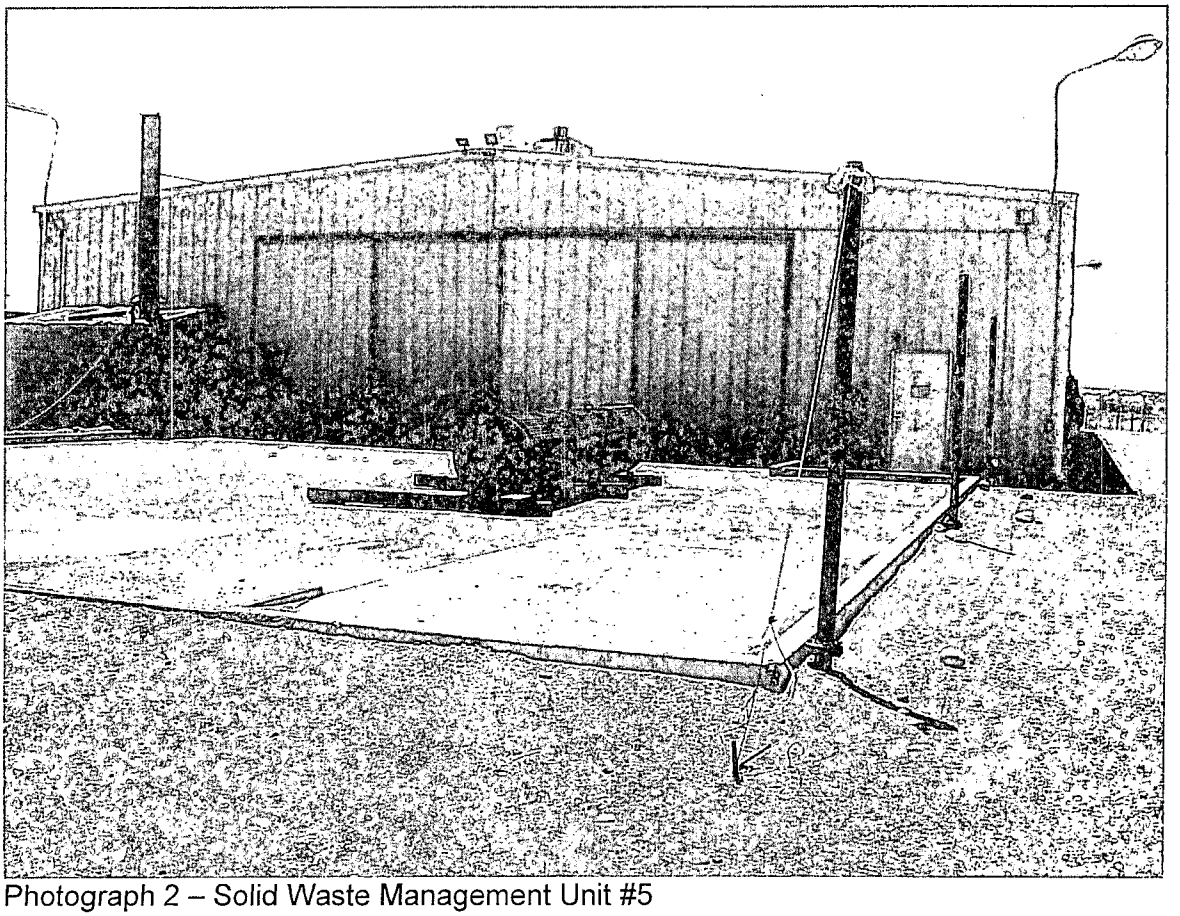
PROJ. NO.: Western Refining | DATE: 6/19/08 | FILE: WestRef-B11

PHOTO LOCATIONS
GIANT BLOOMFIELD REFINERY

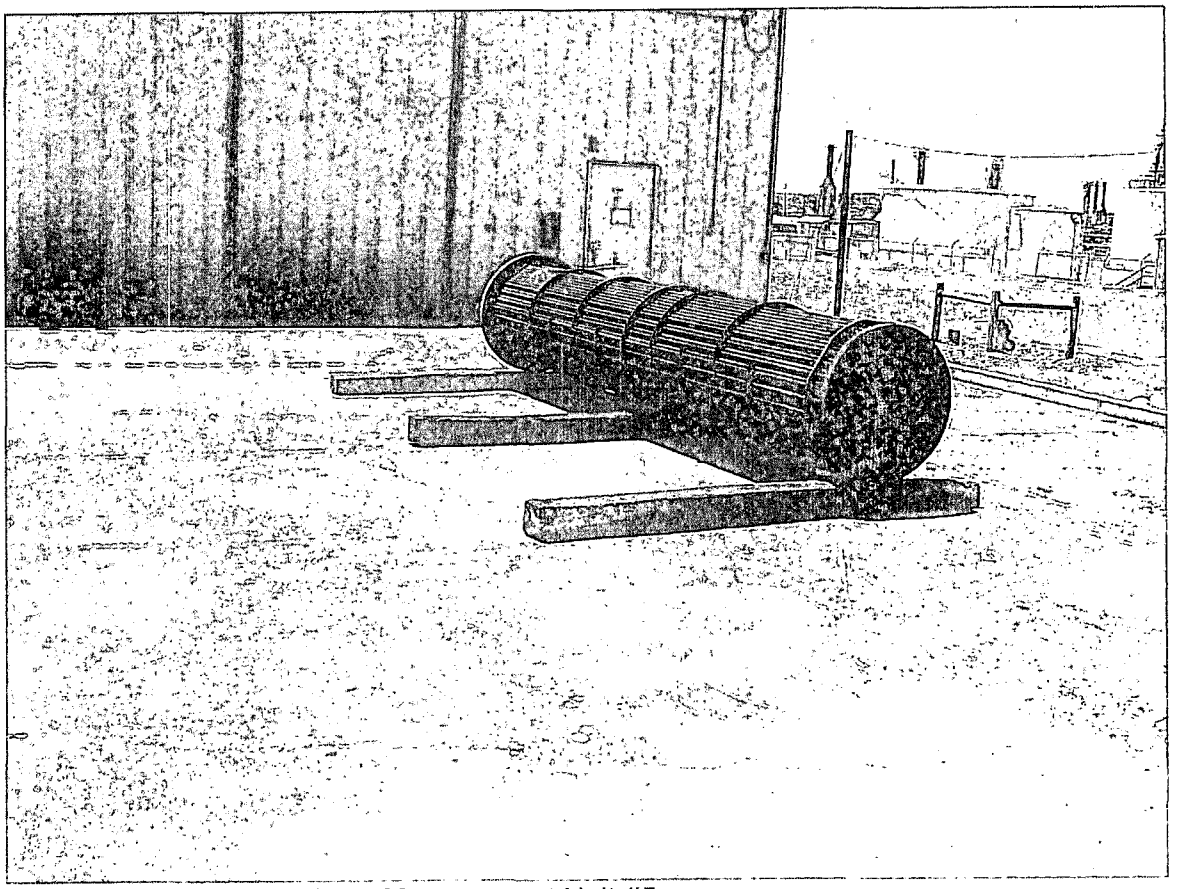
RPS JDC
404 Camp Craft Road
Austin, Texas 78746



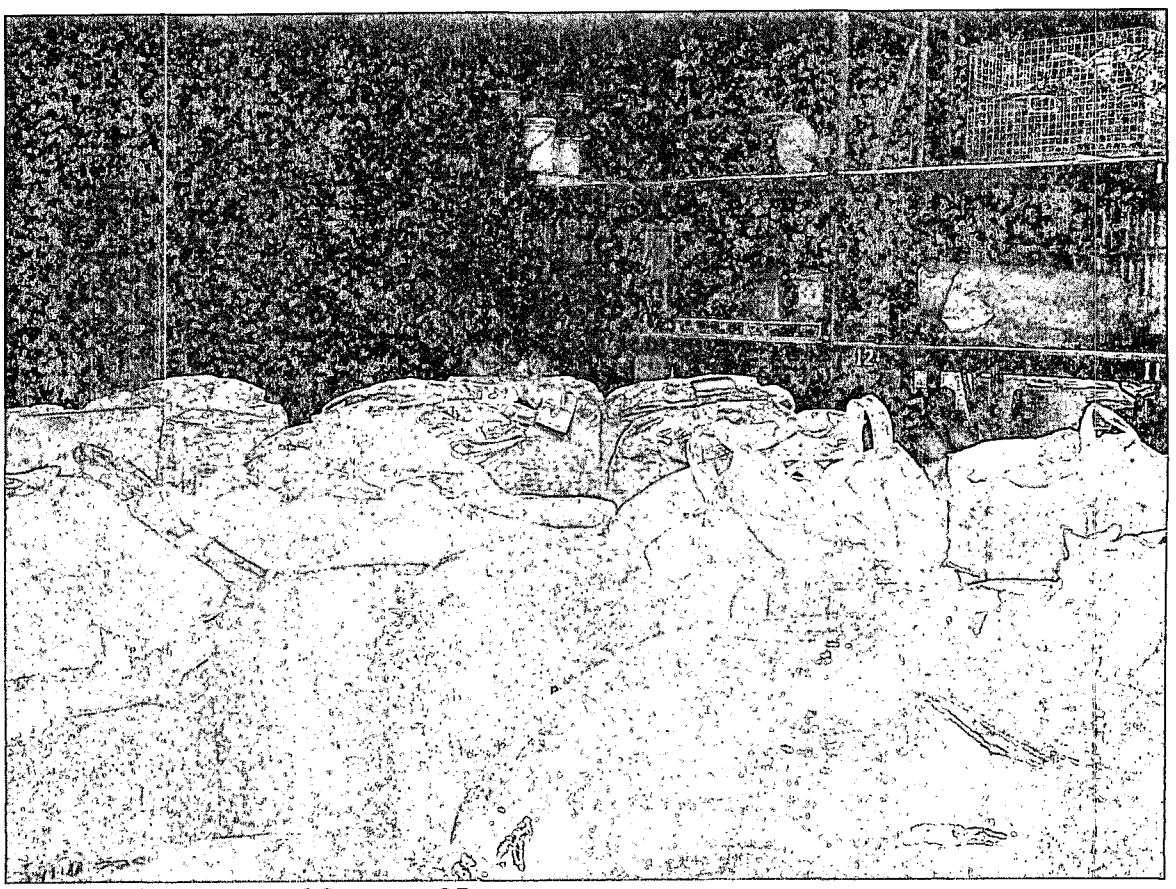
Photograph 1 – Solid Waste Management Unit #4



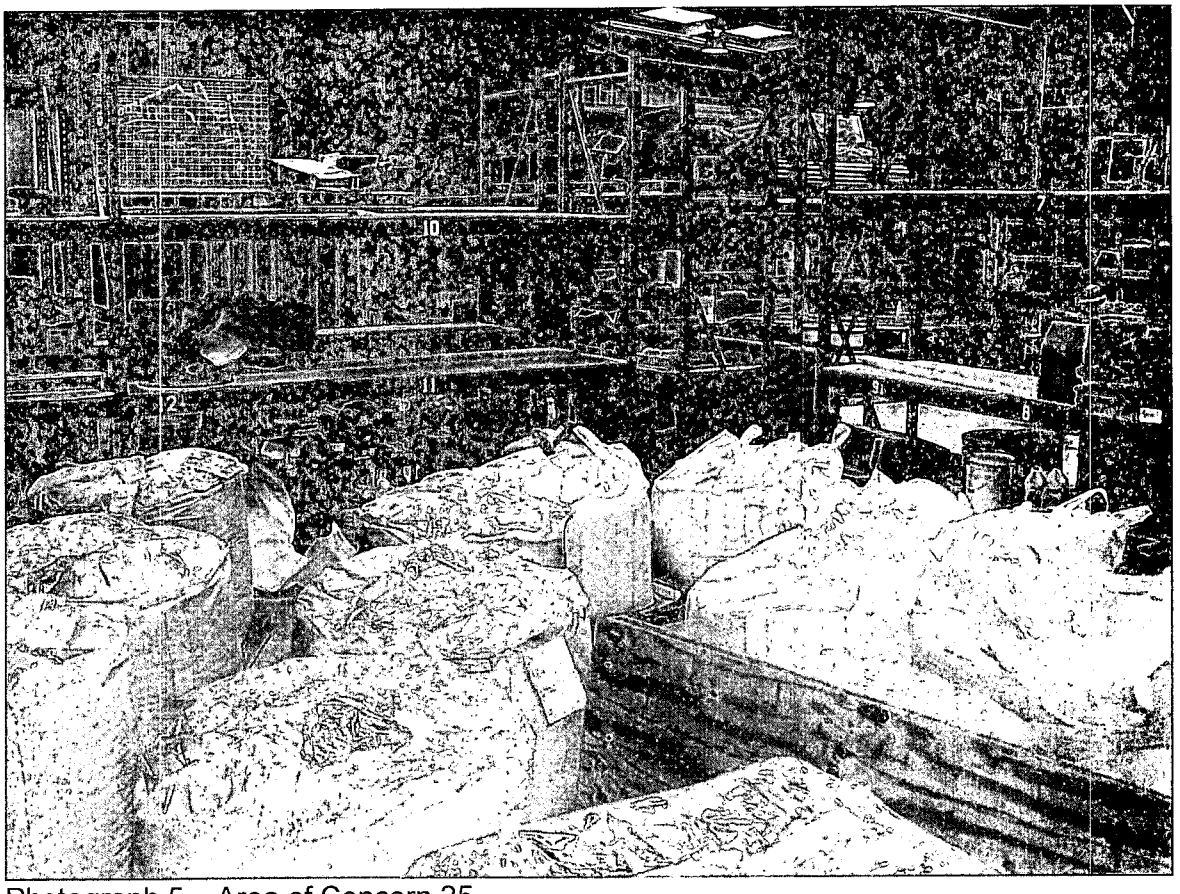
Photograph 2 – Solid Waste Management Unit #5



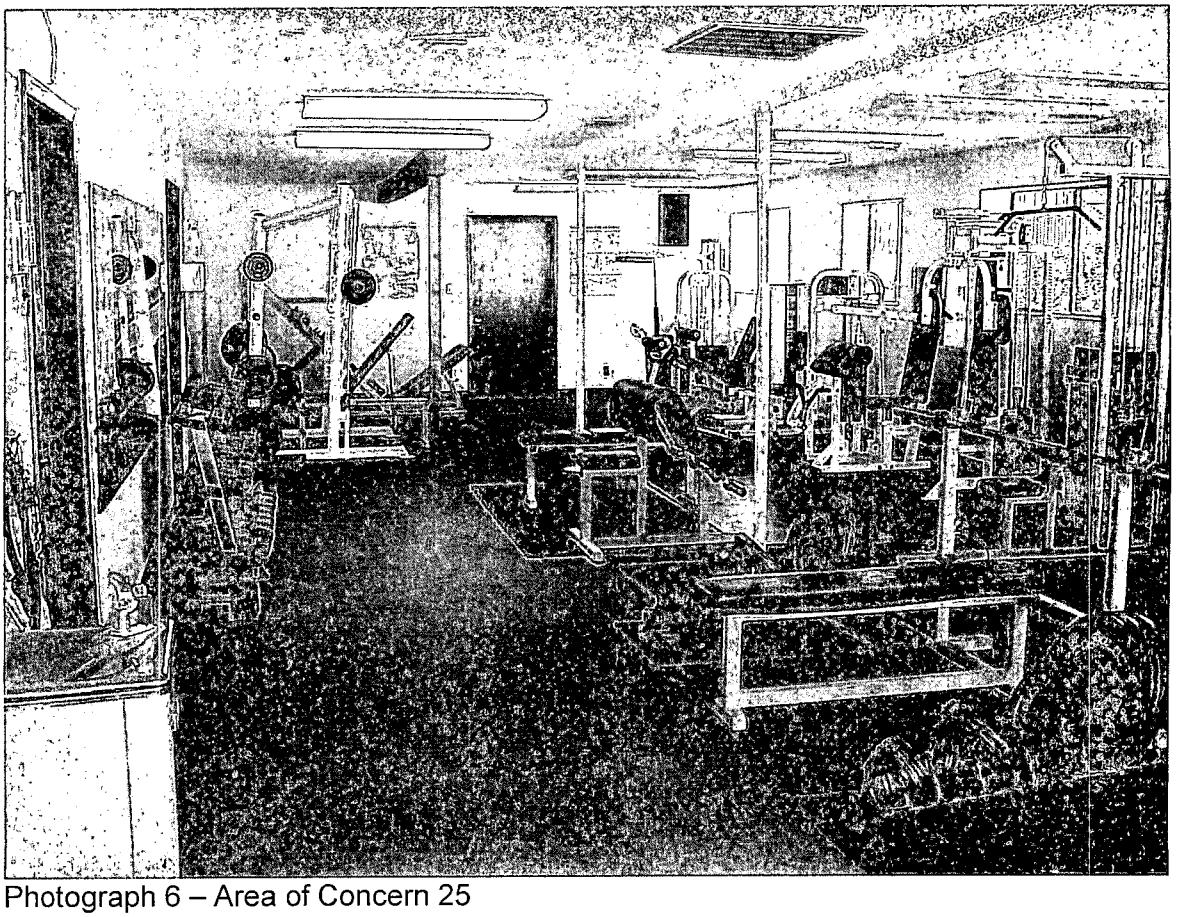
Photograph 3 – Solid Waste Management Unit #5



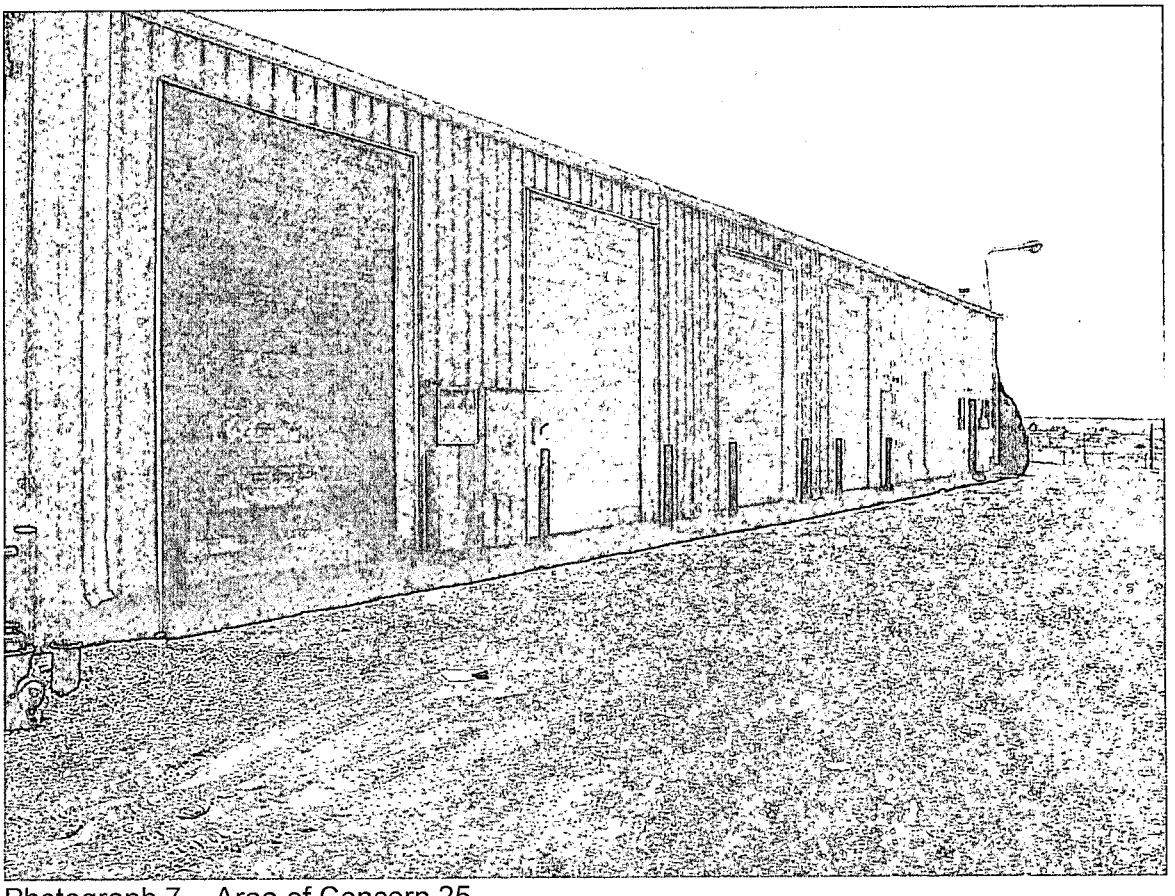
Photograph 4 – Area of Concern 25



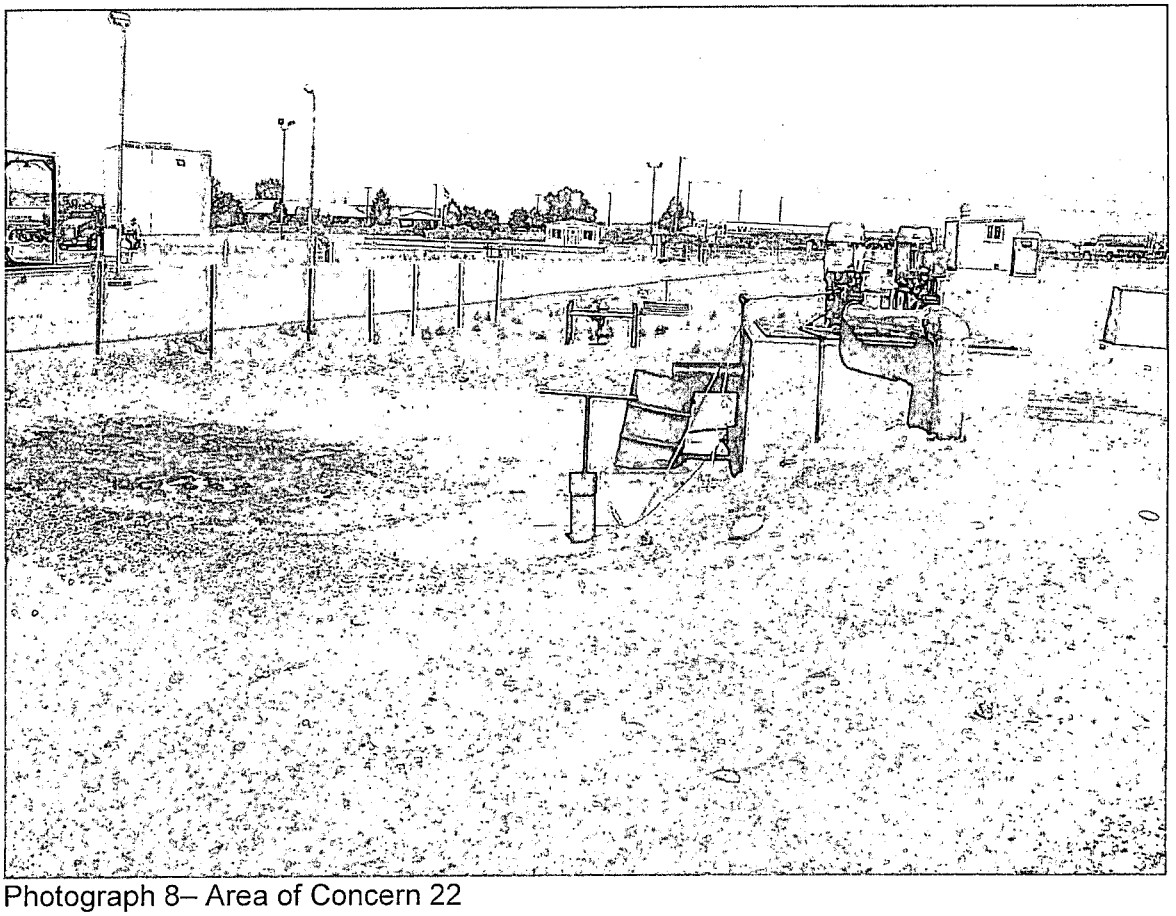
Photograph 5 – Area of Concern 25



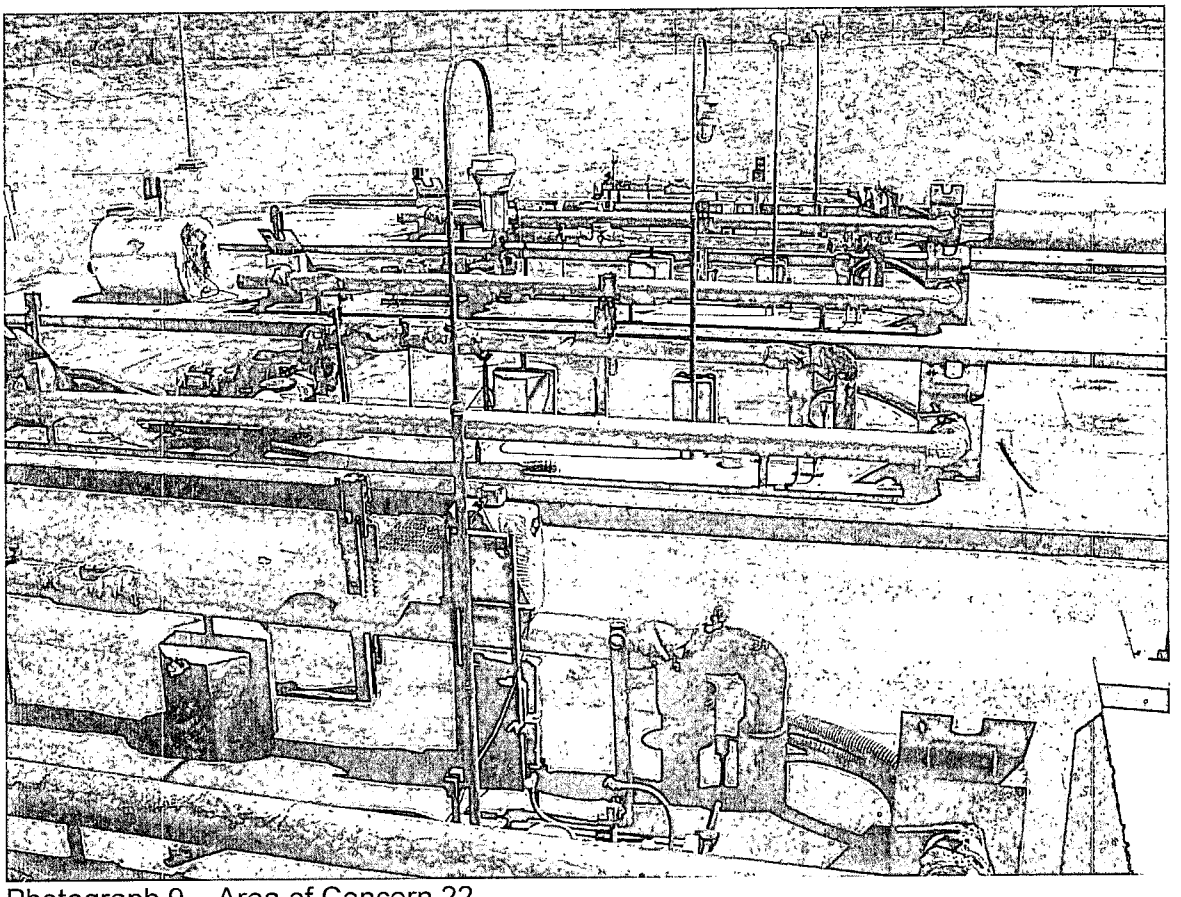
Photograph 6 – Area of Concern 25



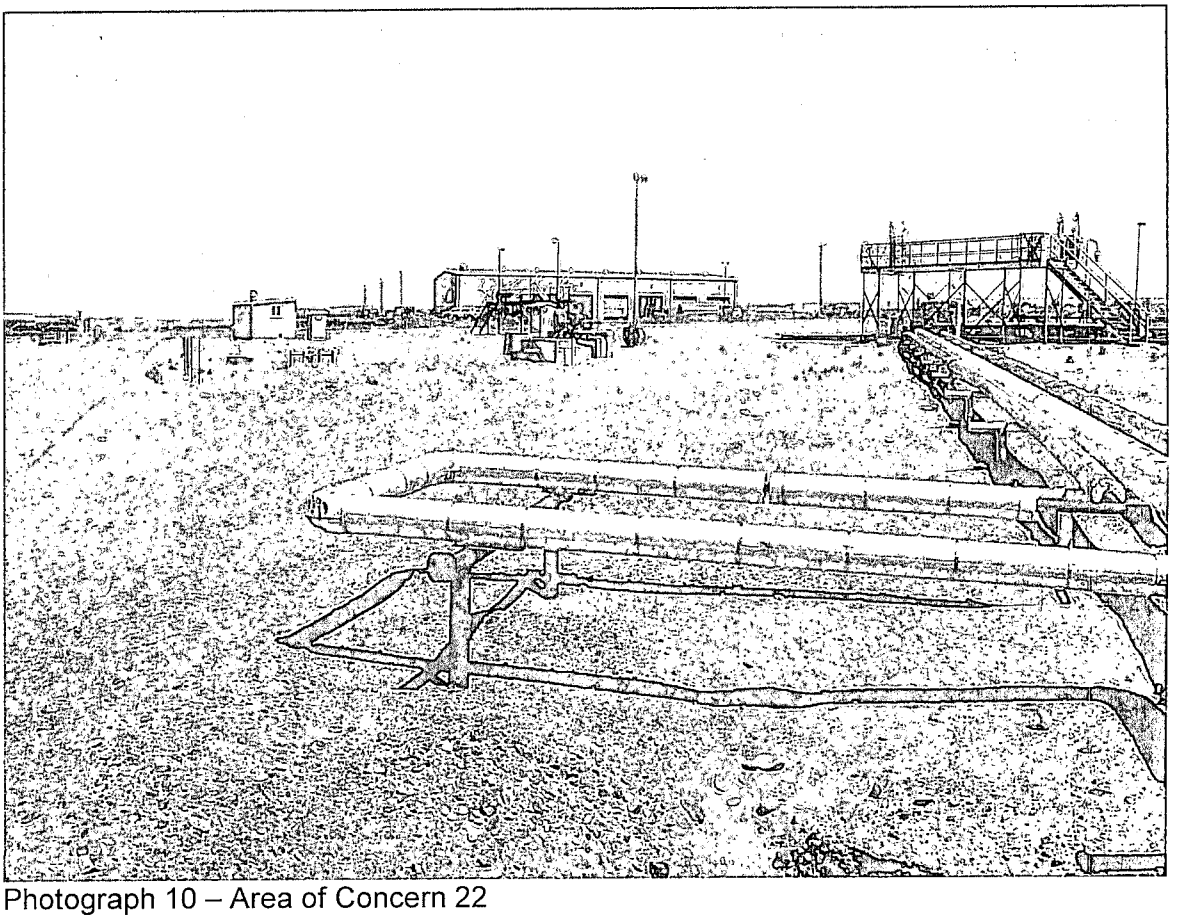
Photograph 7 – Area of Concern 25



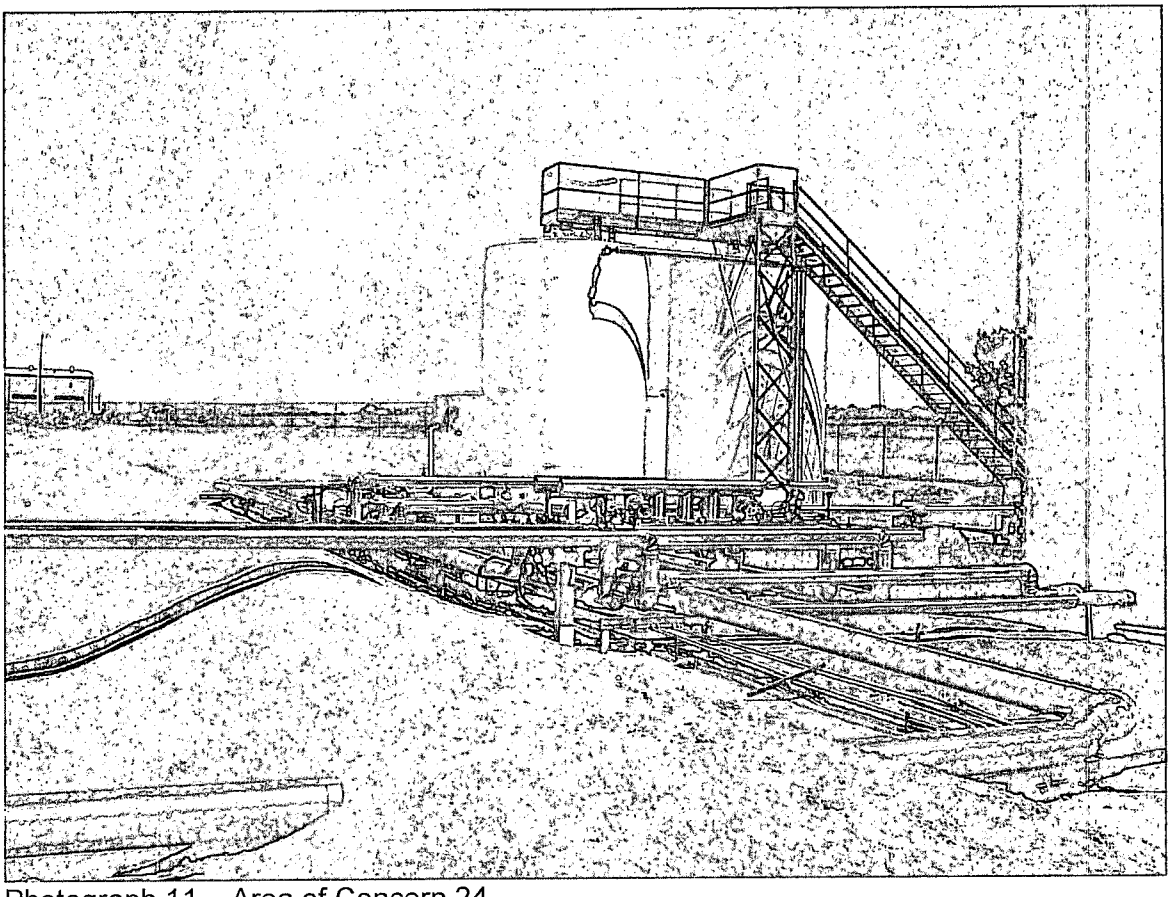
Photograph 8– Area of Concern 22



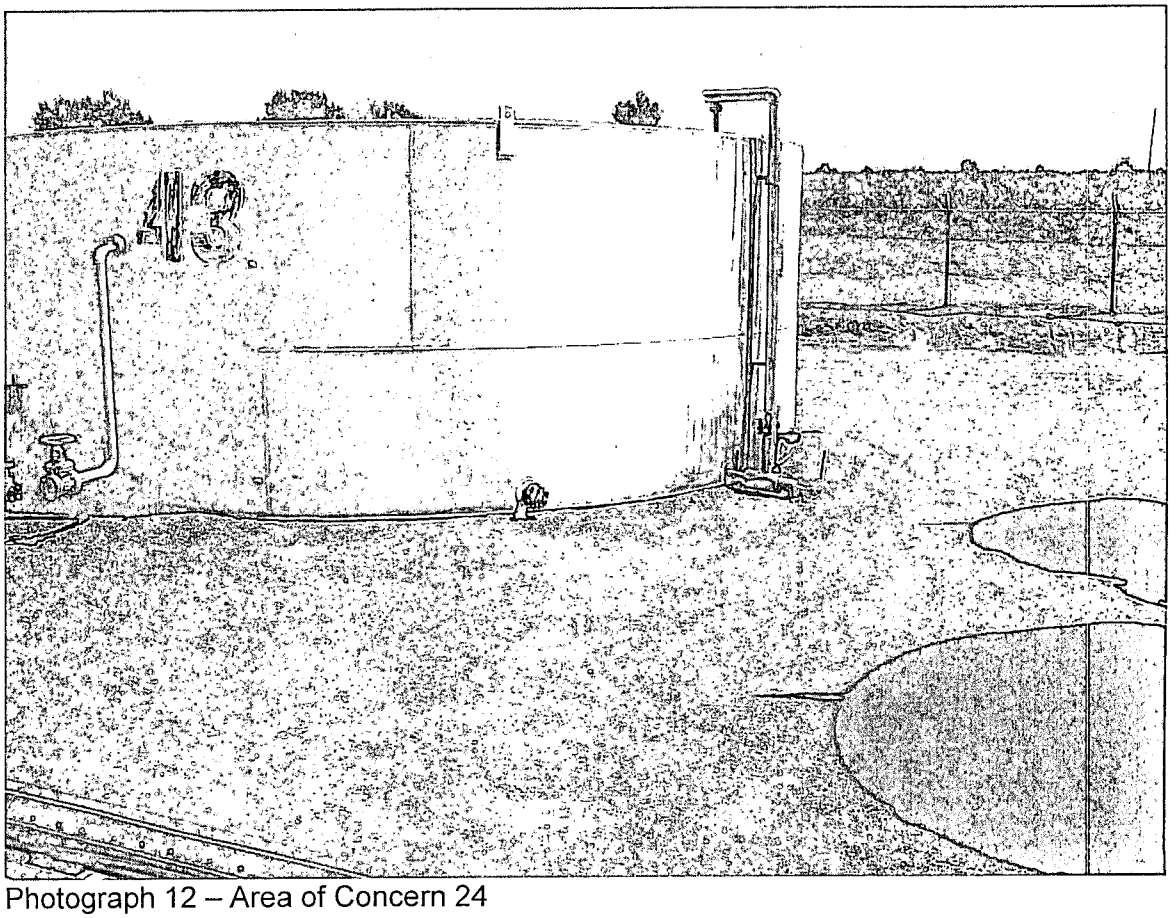
Photograph 9 – Area of Concern 22



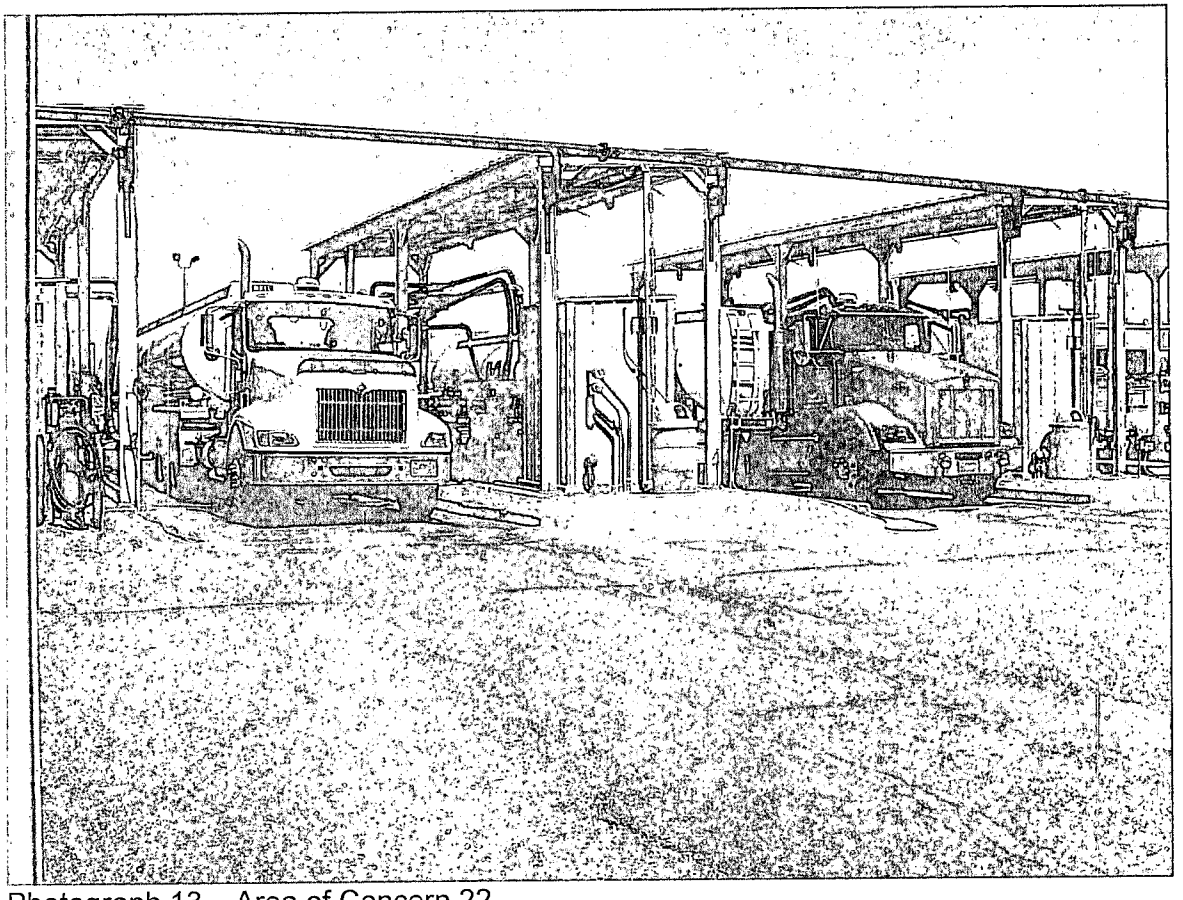
Photograph 10 – Area of Concern 22



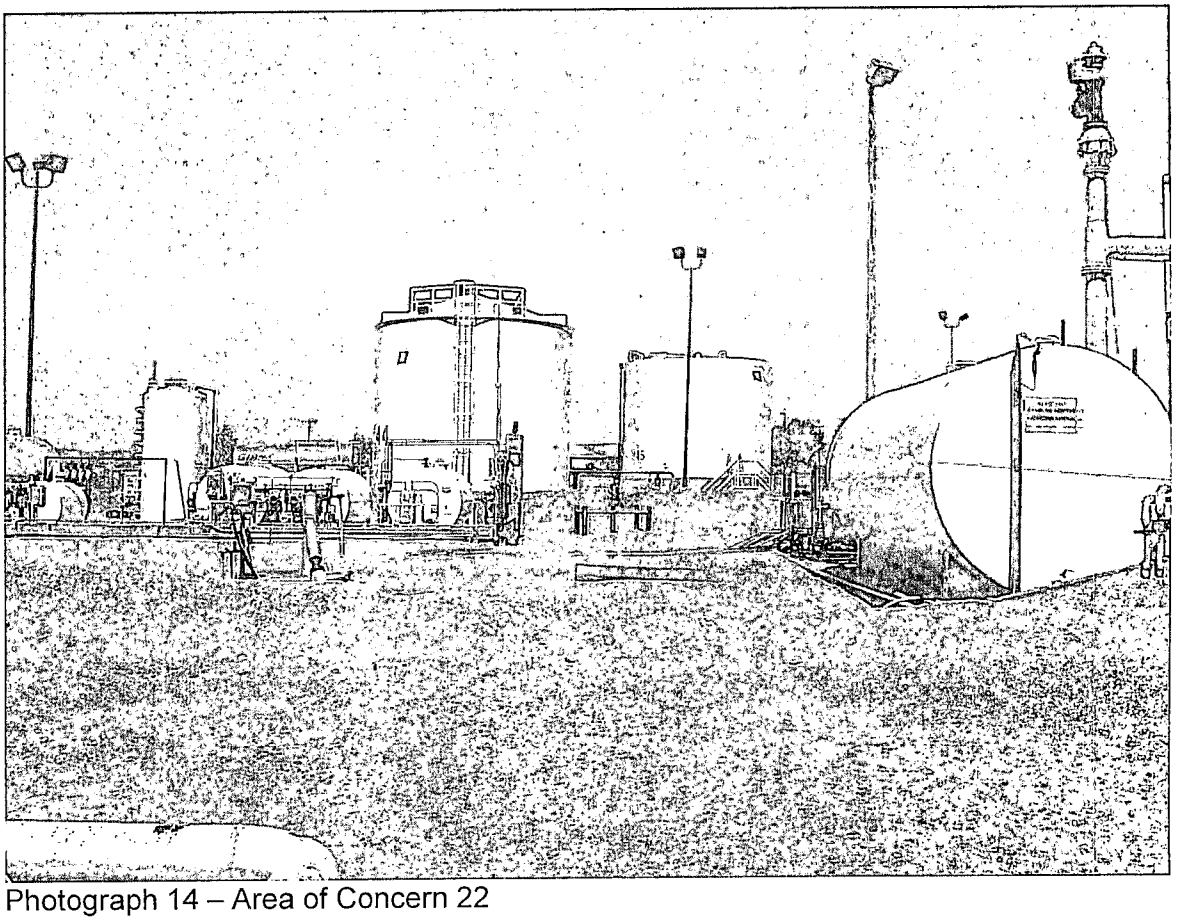
Photograph 11 – Area of Concern 24



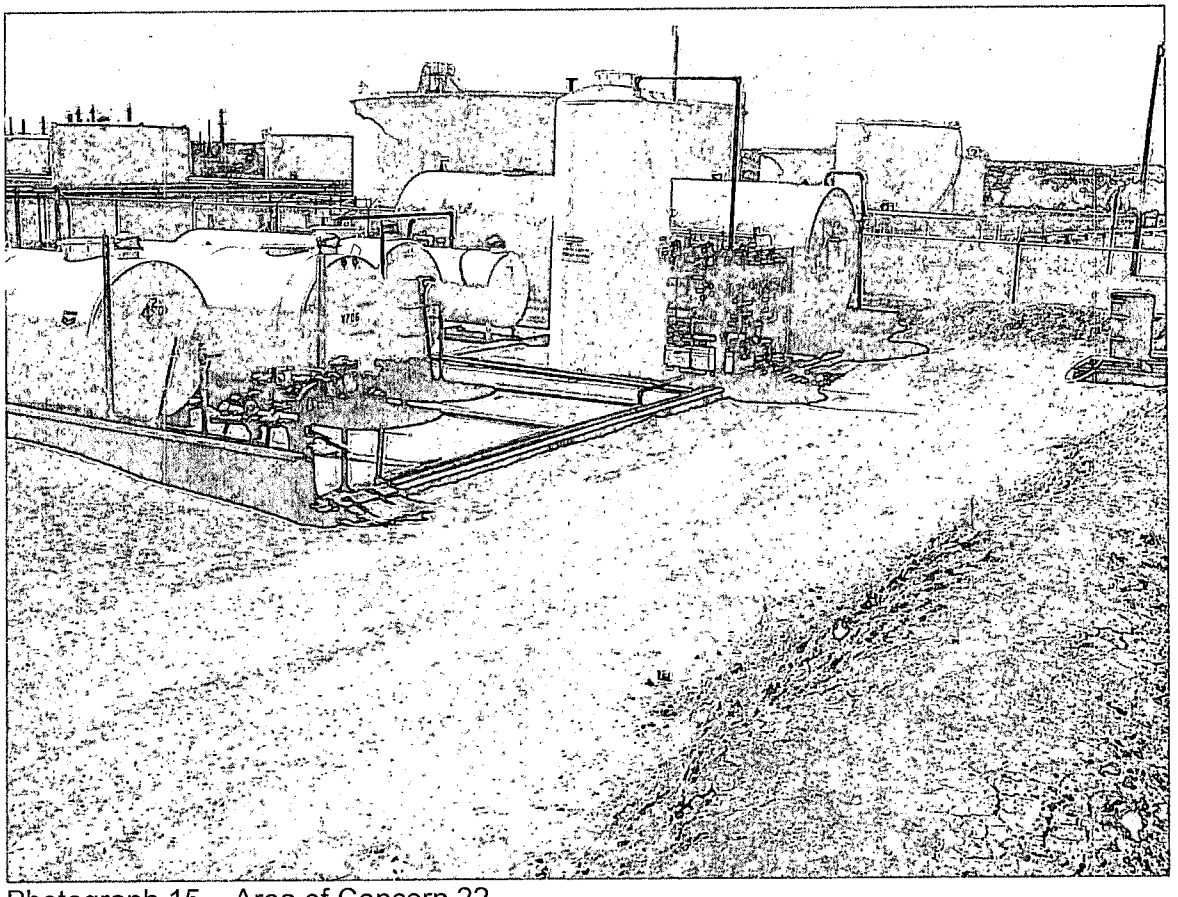
Photograph 12 – Area of Concern 24



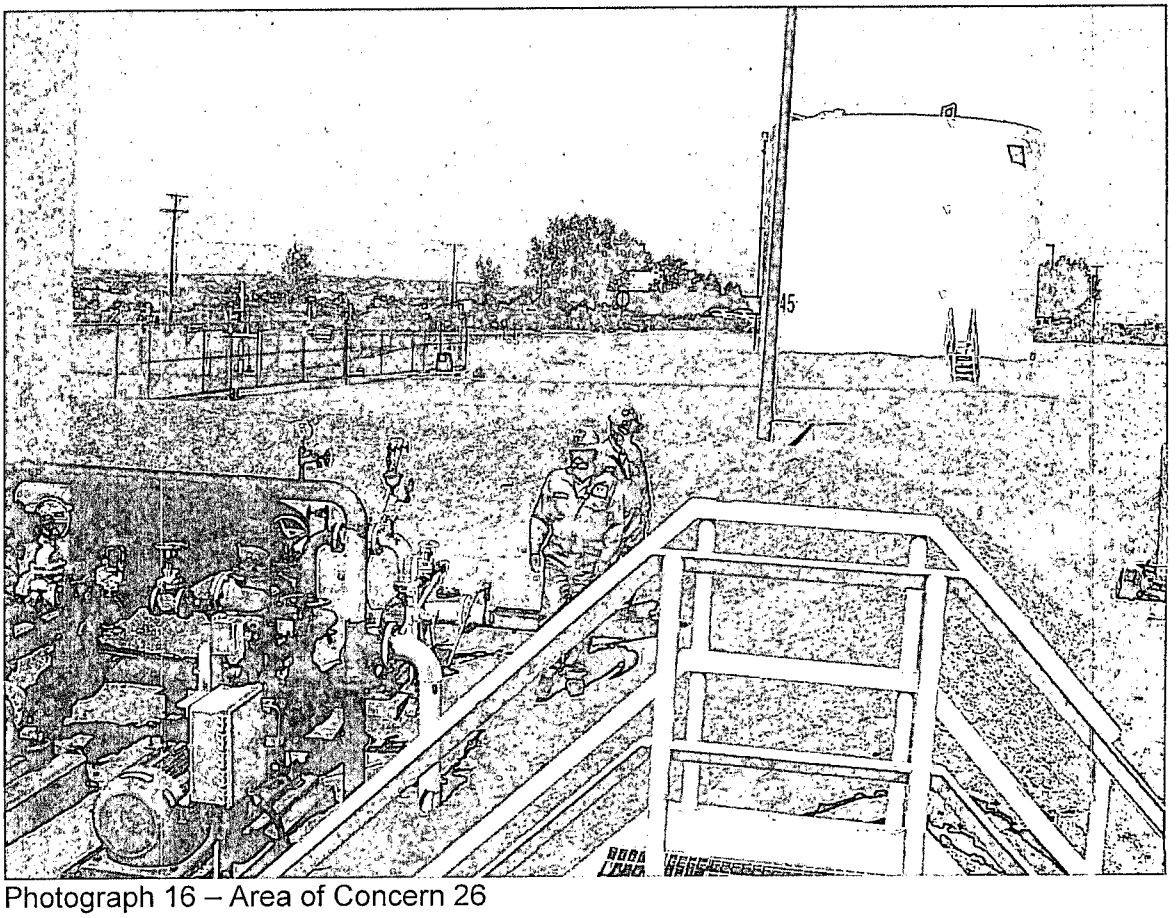
Photograph 13 – Area of Concern 22



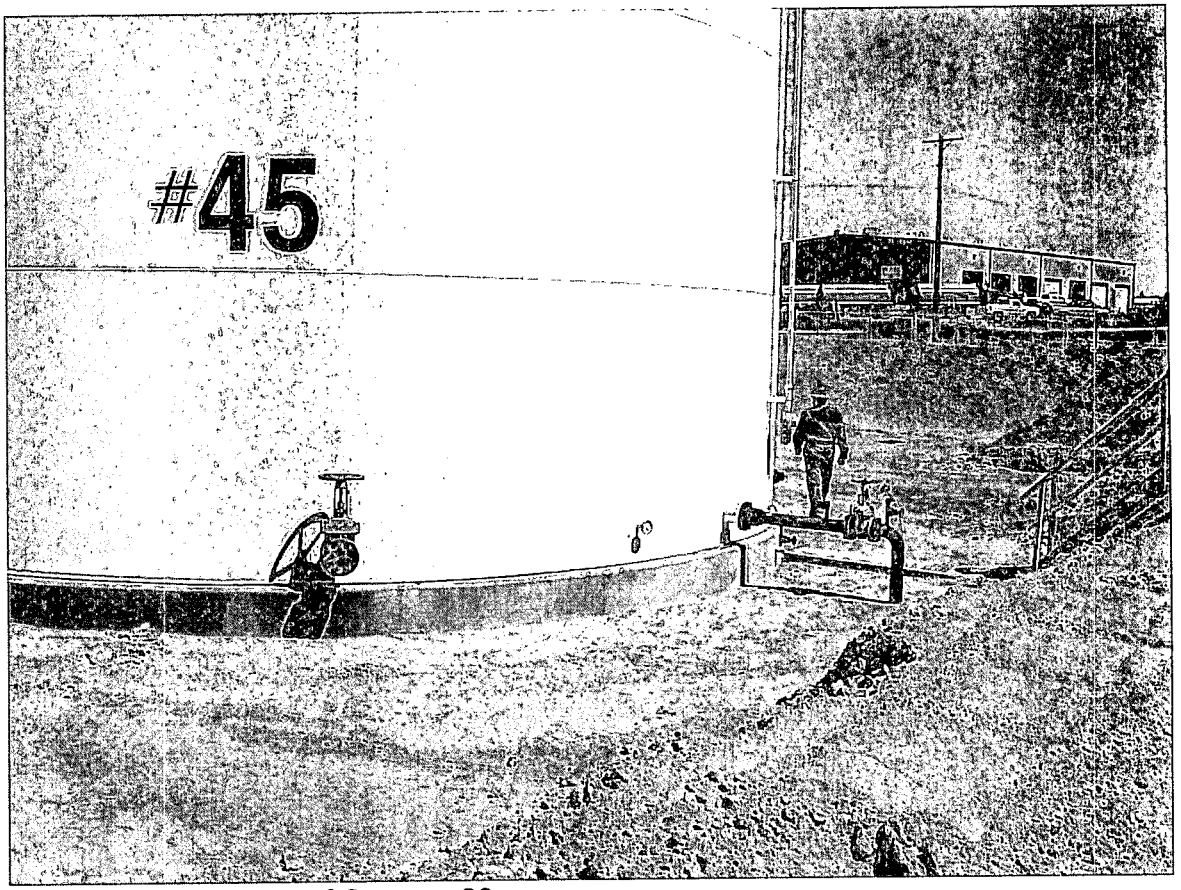
Photograph 14 – Area of Concern 22



Photograph 15 – Area of Concern 22



Photograph 16 – Area of Concern 26



Photograph 17 – Area of Concern 26

Photograph 18 – Area of Concern 27

Photograph 19 – Area of Concern 25

RPS JDC

Appendix B

Investigation Derived Waste (IDW) Management Plan

RPS JDC

IDW Management Plan

All IDW will be properly characterized and disposed of in accordance with all federal, State, and local rules and regulations for storage, labeling, handling, transport, and disposal of waste. The IDW may be characterized for disposal based on the known or suspected contaminants potentially present in the waste. It is assumed that there are no listed wastes present in environmental media at any of the planned investigation areas.

A dedicated decontamination area will be setup prior to any sample collection activities. The decontamination pad will be constructed so as to capture and contain all decontamination fluids (e.g., wash water and rinse water) and foreign materials washed off the sampling equipment. The fluids will be pumped directly into suitable storage containers (e.g., labeled 55-gallon drums), which will be located at satellite accumulation areas until the fluids are disposed in the refinery wastewater treatment system upstream of the API separator. The solids captured in the decontamination pad will be shoveled into 55-gallon drums and stored at the designated satellite accumulation area pending proper waste characterization for off-site disposal.

Drill cuttings generated during installation of soil borings and monitoring wells will be placed directly into 55-gallon drums and staged in the satellite accumulation area pending results of the waste characterization sampling. The portion of soil cores, which are not retained for analytical testing, will be placed into the same 55-gallon drums used to store the associated drill cuttings.

The solids (e.g., drill cuttings and used soil cores) will be characterized by testing to determine if there are any hazardous characteristics in accordance with 40 Code of Federal Regulations (CFR) Part 261. This includes tests for ignitability, corrosivity, reactivity, and toxicity. If the materials are not characteristically hazardous, then further testing will be performed pursuant to the requirements of the facility to which the materials will be transported. Theto determine their classification

Purge water generated during groundwater sampling activities will be containerized in 55-gallons drums and then disposed in the refinery wastewater treatment system upstream of the API separator. All miscellaneous waste materials (e.g., discarded gloves, packing materials, etc.) will be placed into the refinery's solid waste storage containers for off-site disposal.

RPS JDC

IDW Management Plan

All IDW will be properly characterized and disposed of in accordance with all federal, State, and local rules and regulations for storage, labeling, handling, transport, and disposal of waste. The IDW may be characterized for disposal based on the known or suspected contaminants potentially present in the waste. It is assumed that there are no listed wastes present in environmental media at any of the planned investigation areas.

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The solids (e.g., drill cuttings and used soil cores) will be characterized by testing to determine if there are any hazardous characteristics in accordance with 40 Code of Federal Regulations (CFR) Part 261. This includes tests for ignitability, corrosivity, reactivity, and toxicity. If the materials are not characteristically hazardous, then further testing will be performed pursuant to the requirements of the facility to which the materials will be transported. Depending upon the results of analyses for individual investigation soil samples, additional analyses may TPH and polynuclear aromatic hydrocarbons.

Purge water generated during groundwater sampling activities will be containerized in 55-gallons drums and then disposed in the refinery wastewater treatment system upstream of the API separator. All miscellaneous waste materials (e.g., discarded gloves, packing materials, etc.) will be placed into the refinery's solid waste storage containers for off-site disposal.

Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD
Sent: Friday, June 20, 2008 8:27 AM
To: 'Randy Schmaltz'
Cc: Price, Wayne, EMNRD; Ann Allen; Macquesten, Gail, EMNRD
Subject: Facility-Wide Groundwater Monitoring Plan- FWGWMP (December 2007)

Randy:

Could you please send me the electronic version of the Facility-Wide Groundwater Monitoring Plan (December 2007 (Revised May 2008) sample table. The OCD would like to incorporate the FWGWMP into the upcoming discharge permit renewal.

Also, what is the status of the table or spreadsheet requested in Section 10 below? The OCD had granted an extension to Western Refining Southwest (WRSW)- Bloomfield Refinery for good cause to provide a spreadsheet to address the SFO (see paragraph below), which was to commence on 3/1/2008; however, to date the OCD has not received the final spreadsheet addressing the OCD comments (see red text below) below. If SRSW has mailed the spreadsheet to the OCD, please confirm the date of the documentation.

You may recall that WRSW submitted a letter dated July 30, 2007 with a report (Report) entitled, "OCD Discharge Plan Application For Modification" (July 2007) to the OCD. The report was developed to address OCD Administrative Compliance Order (ACO) and Stipulated Final Order (SFO) No. NM-OCD 2006-100, and an EPA Administrative Order on Consent (Docket No. VI-303-H). Section 9 of the report contained proposed modifications to resolve contamination issues associated with the refinery. A FWGWMP was developed in Appendix D of the report along with Section 10 (Inspection, Maintenance & Reporting) to address state and federal requirements.

OCD comments and/or recommendations on the report and letter aforementioned are as follows:

Section 10 requirements are to be completed one time within the next 5 years (OCD extended to 3/1/2013) and are as follows:

a) An electronic version of the spreadsheet is requested to assist OCD with tracking the inspections, maintenance and reporting (IMR).
b) Columns for "Inspection, Maintenance, and Repair" shall be added to the spreadsheet to track one and/or multiple items performed at the same unit at the same time. A field with "date", "ok" or "problem" (also denoted w/ an asterisk to explain at the bottom of the spreadsheet what action was conducted to correct the problem) shall be added to the spreadsheet to report the results of the IMR to the OCD. The OCD recommends that WRSW provides separate spreadsheets for different locations or units (i.e., sumps, tanks, API, etc.) for simplified review of compliance with dates, etc. of the SFO. The operator shall provide an annual report in a format that satisfies the above with the Annual Ground Water Monitoring Report.
c) A storage tank numbering system shall be implemented at the facility with tank number references in the spreadsheet to show the exact tank of concern. A numbering system for other units is recommended.
d) Pits/Ponds shall be added to the spreadsheet.
e) The dates need to be revised up through March 1, 2013 for all locations or units to undergo testing. Only large tanks are exempted (see paragraph below) and WRSW needs to denote tanks that are exempted in the spreadsheet with the new date for the inspection.

The "OCD Tank Inspection" spreadsheet indicates a 10 year inspection frequency; however, the SFO indicates that all locations or units are required on a one time basis to be tested within 5 years of the SFO date (3/1/2006) or by March 1, 2011. Exempted from this one time testing requirement are large tanks that have been tested within the past five years or are due to be tested within the next five years under other regulatory agency rules, regulations or guidelines, or under any other standards accepted by regulatory agencies, such as API Code 653, provided that the tanks shall be identified in the spreadsheet and test dates and results provided to the OCD. WRSW may request a time extension for accomplishing requirement or recommendations, which the OCD, in its sole discretion, may grant for good cause shown by WRSW. The OCD extends the end of the one time five year

date to March 1, 2013 for good cause.

In conclusion, the OCD concludes that WRSW has complied with SFO Section I.V. Compromise and Settlement (Section 18(a)(c). WRSW shall address Item #4 above satisfy Section 18(b) of the SFO. Regarding Section 18 (c), the OCD has opted to address the modification in the discharge permit renewal process for good cause as stated in Item #1 above

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) 476-3491
Fax: (505) 476-3462
E-mail: CarlJ.Chavez@state.nm.us
Website: http://www.emnrd.state.nm.us/ocd/index.htm
(Pollution Prevention Guidance is under "Publications")

Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD
Sent: Tuesday, April 29, 2008 12:27 PM
To: Macquesten, Gail, EMNRD
Cc: Sanchez, Daniel J., EMNRD; Price, Wayne, EMNRD; Randy Schmaltz
Subject: RE: Giant Refining Company

Gail:

Western Refining SW- Bloomfield Refinery had completed a spreadsheet to address the Item #4 below and the OCD Final Stipulated Order and included it in Section 10 of a report entitled, "OCD Discharge Plan Application For Modification" (July 2007).

According to OCD- EB records, and the time line of messages provided below, I believe that the OCD is still waiting for Western Refining SW- Bloomfield Refinery to address OCD comments on Item #4 below in red text to complete compliance with the OCD Final Stipulated Order. I believe Western Refining SW has satisfied all items of the Final Stipulated Order with the exception of Item #4 below.

Randy Schmaltz (Western Refinery SW- Bloomfield Refinery), by receipt of this message, could you please provide the OCD with an update on Item #4 below to address the OCD Final Stipulated Order? Perhaps you updated it and sent it to me electronically or in hardcopy, but I cannot find it?

Thank you.

From: Carl Chavez
Fri 2/22/2008 3:47 PM

Mr. Schmaltz:

Good afternoon. The New Mexico Oil Conservation Division (OCD) has reviewed Western Refining Southwest, Inc.'s (WRSW) letter (letter) dated January 29, 2008 regarding the above subject associated with EPA ID# NMD089416416 (HWB-GRCB-07-003). WRSW's letter indicates that it is their intent for the Facility-Wide Groundwater Monitoring Plan (FWGWMP) to be accepted by both the New Mexico Environment Department (NMED) and OCD as the prevailing document for comprehensive groundwater monitoring at the Bloomfield Refinery. The OCD regards WRSW's letter with attachments dated January 29, 2008 to the NMED as the updated version of Appendix D from the report in the paragraph below.

Previously, WRSW submitted a letter dated July 30, 2007 with a report (Report) entitled, "OCD Discharge Plan Application For Modification" (July 2007) to the OCD. The report was developed to address OCD Administrative Compliance Order (ACO) and Stipulated Final Order (SFO) No. NM-OCD 2006-100, and an EPA Administrative Order on Consent (Docket No. VI-303-H). Section 9 of the report contained proposed modifications to resolve contamination issues associated with the refinery. A FWGWMP was developed in Appendix D of the report along with Section 10 (Inspection, Maintenance & Reporting) to address state and federal requirements.

OCD comments and/or recommendations on the report and letter aforementioned are as follows:

1) The OCD will continue to work with the NMED and WRSW to complete a FWGWMP before the discharge permit renewal date in order to include it as part of the discharge permit renewal with the understanding that the OCD may modify the monitoring requirements as specified under its WQCC discharge plan or permit at any time based on inspections or additional inspection requirements. A finalized version of the FWGWMP in the form of a table (electronic file requested) will assist the OCD with the incorporation of the FWGWMP into the OCD discharge permit. According to OCD records, the existing discharge permit is set to expire on June 7, 2009.

2) The OCD notices the on-site landfill disposal provisions for Fluid Catalytic Cracking Unit (FCCU) Catalyst and

Sulfur Byproducts. The OCD is aware of Discharge Permit Items #21 (Active Landfill) and 22 (In-Active Landfill), and the closure plans requested under the permit by December 1, 2005. The OCD is concerned about the proximity of the landfills to the San Juan River; the RCRA ramifications (SWMU vs. AOC) of the landfills; and will likely seek to phase out the existing active landfill at the facility during the discharge permit renewal application process. The permit is set to expire on June 7, 2009. Please prepare to discuss and plan accordingly for above.

3) The Report references "GW-130" for the facility Underground Injection Control (UIC) Class I Non-Hazardous Injection Well; however, the well is now permitted under OCD records as "UICL-9." Please refer to the UIC Class I Well permit as "UICL-9" from now on.

4) Section 10 requirements are to be completed one time within the next 5 years (OCD extended to 3/1/2013) and are as follows:

a) An electronic version of the spreadsheet is requested to assist OCD with tracking the inspections, maintenance and reporting (IMR).

b) Columns for "Inspection, Maintenance, and Repair" shall be added to the spreadsheet to track one and/or multiple items performed at the same unit at the same time. A field with "date", "ok" or "problem" (also denoted w/ an asterisk to explain at the bottom of the spreadsheet what action was conducted to correct the problem) shall be added to the spreadsheet to report the results of the IMR to the OCD. The OCD recommends that WRSW provides separate spreadsheets for different locations or units (i.e., sumps, tanks, API, etc.) for simplified review of compliance with dates, etc. of the SFO. The operator shall provide an annual report in a format that satisfies the above with the Annual Ground Water Monitoring Report.

c) A storage tank numbering system shall be implemented at the facility with tank number references in the spreadsheet to show the exact tank of concern. A numbering system for other units is recommended.

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e) The dates need to be revised up through March 1, 2013 for all locations or units to undergo testing. Only large tanks are exempted (see paragraph below) and WRSW needs to denote tanks that are exempted in the spreadsheet with the new date for the inspection.

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In conclusion, the OCD concludes that WRSW has complied with SFO Section I.V. Compromise and Settlement (Section 18(a)(c). WRSW shall address Item #4 above satisfy Section 18(b) of the SFO. Regarding Section 18 (c), the OCD has opted to address the modification in the discharge permit renewal process for good cause as stated in Item #1 above.

Please contact me if you have questions. Thank you.

Note: Please be advised that NMOCD approval of this plan does not relieve Western Refining Southwest, Inc., Bloomfield Refinery of responsibility should their operations pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD approval does not relieve Western Refining Southwest, Inc., Bloomfield Refinery of responsibility for compliance with any other federal, state, or local laws and/or regulations.

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) 476-3491
Fax: (505) 476-3462
E-mail: CarlJ.Chavez@state.nm.us
Website: http://www.emnrd.state.nm.us/ocd/index.htm

(Pollution Prevention Guidance is under "Publications")

From Carl Chavez
Fri 2/22/2008 9:51 AM

Randy:

Thanks. I'll write up an OCD review of the document either today or Monday. Thanks.

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) 476-3491
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E-mail: CarlJ.Chavez@state.nm.us
Website: http://www.emnrd.state.nm.us/ocd/index.htm
(Pollution Prevention Guidance is under "Publications")

From: Randy Schmaltz [mailto:Randy.Schmaltz@wnr.com]
Sent: Friday, February 22, 2008 9:16 AM
To: Price, Wayne, EMNRD; Chavez, Carl J, EMNRD
Subject: Bloomfield UnderLine and Tank Testing

Good morning Gents,

The underground line, tanks bottoms and sump, testing schedule is included in the Discharge Plan application. It is Section 10 titled "Inspection, Maintenance and Reporting".

If you have any questions please call.

Thanks
Randy

From: Wayne Price
Thu 6/21/2007 12:09 PM

Approved!

From: Randy Schmaltz [mailto:rschmaltz@giant.com]
Sent: Wednesday, June 20, 2007 2:41 PM
To: Price, Wayne, EMNRD; Chavez, Carl J, EMNRD
Cc: Ed Riege
Subject: Discharge Plan Extension

Wayne,

The New Mexico Environment Department Hazardous Waste Bureau is in the final stages of the draft Compliance Order process. The Bloomfield refinery is anticipating the Compliance Order to be issued the early part of July. Due to this fact Bloomfield requests to extend the submittal date of the OCD Discharge Plan to July 31, 2007. This extension will allow Bloomfield to incorporate any new compliance requirements into the Discharge Plan.

Your consideration into this matter is greatly appreciated!

Randy Schmaltz
Giant Refining Company
(505) 632-4171
(505) 320-6989 cell

Carl J. Chavez, CHMM
New Mexico Energy, Minerals & Natural Resources Dept.
Oil Conservation Division, Environmental Bureau
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Office: (505) 476-3491
Fax: (505) 476-3462
E-mail: CarlJ.Chavez@state.nm.us
Website: http://www.emnrd.state.nm.us/ocd/index.htm
(Pollution Prevention Guidance is under "Publications")

From: Macquesten, Gail, EMNRD
Sent: Friday, April 25, 2008 5:02 PM
To: Chavez, Carl J, EMNRD
Cc: Sanchez, Daniel J., EMNRD
Subject: Giant Refining Company

Carl – Would you please help me update the status on "Stipulated Final Order NM-OCD 2006-100" regarding Giant Refining Company's Bloomfield Oil Refinery?

The order provides that $60,000 of the penalty will be waived if Giant does the following (more detail can be found in the order itself):

1. provide an acceptable assessment remediation and contingency plan to the OCD by Dec. 22, 2005.
2. develop an operation, checking and maintenance schedule spreadsheet for the refinery by July 1, 2006
3. submit an application to modify discharge plan GW-01 to the OCD by July 1, 2006.

From the legal file, it appears that Giant was given at least one extension on submitting the discharge plan and the maintenance schedule spreadsheet. But that deadline would have expired back in 2006.

Would you please let me know when Giant met its obligations under the order, and if any further extensions were granted, so I can figure out if the penalties are due. If Giant has not yet met its obligations under the order, and is not subject to any extensions, please let me know so we can take further enforcement action.

Thanks- Gail