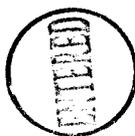


Ciniza 08

Monzeglio, Hope, NMENV

From: Jim Lieb [Jim.Lieb@wnr.com]
Sent: Tuesday, January 29, 2008 5:19 PM
To: Monzeglio, Hope, NMENV
Cc: Chavez, Carl J, EMNRD; Ed Riege; Mark Turri; Ann Allen; Allen Hains; Bryon Holbrook
Subject: MTBE Trend at Western Refining - Gallup
Attachments: MTBE Trend.xls; MTBEdiagramOW30andOW14.pdf; _0129122359_001.pdf

Hope:

I received the annual GW monitoring data from HEAL today for sampling for RY2007. Looking at the data for OW-14 and OW-30 I noticed that both wells show MTBE results greater than the USEPA suggested MTBE level (0.20 mg/l) and the NMED's Soil Screening Levels Tapwater criteria for MTBE (0.061 mg/l). I prepared a simple table (attached) showing sampling data for these wells over the previous 3 years period. Compared to previous year's testing, MTBE has increased in the most recent sampling events in both wells. MTBE was stored for several years in Tank 568 which is up-gradient from both these wells. The tank was taken out of MTBE use in 2005. An inspection of the tank in 2006 showed it to be in generally good condition (no leaks). For your convenience, I also include a diagram showing the location of the wells and Tank 568. Also, benzene was detected in OW-14 at 0.014 mg/l which is greater than the WQCC 20 NMAC threshold of 0.01 mg/l Benzene was non-detect (<0.001 mg/l) in OW-30.

I also attached installation diagrams for OW-14 and OW-30.

If you wish to discuss, please contact me at (505) 722-0227. I will be out of the office most of tomorrow.

Regards,
Jim Lieb

Environmental Engineer
Western Refining, Inc.
Gallup Refinery
I-40, Exit 39
Jamestown, NM 87347
(505) 722-0227
fax (505) 722-0210
jim.lieb@wnr.com

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

1/30/2008

MTBE Trend at Western Refining - Gallup Refinery

OW-14

<u>Date</u>	<u>MTBE (mg/l)</u>
1/8/2008	0.920
12/28/2006	0.180
10/27/2006	0.016
9/27/2005	0.077
12/8/2004	0.065

OW-30

<u>Date</u>	<u>MTBE (mg/l)</u>
12/28/2007	0.290
10/27/2006	0.018
9/27/2005	<0.0025
12/8/2004	<0.0025

MONITORING WELL LOCATIONS

List of Solid Waste Management Units

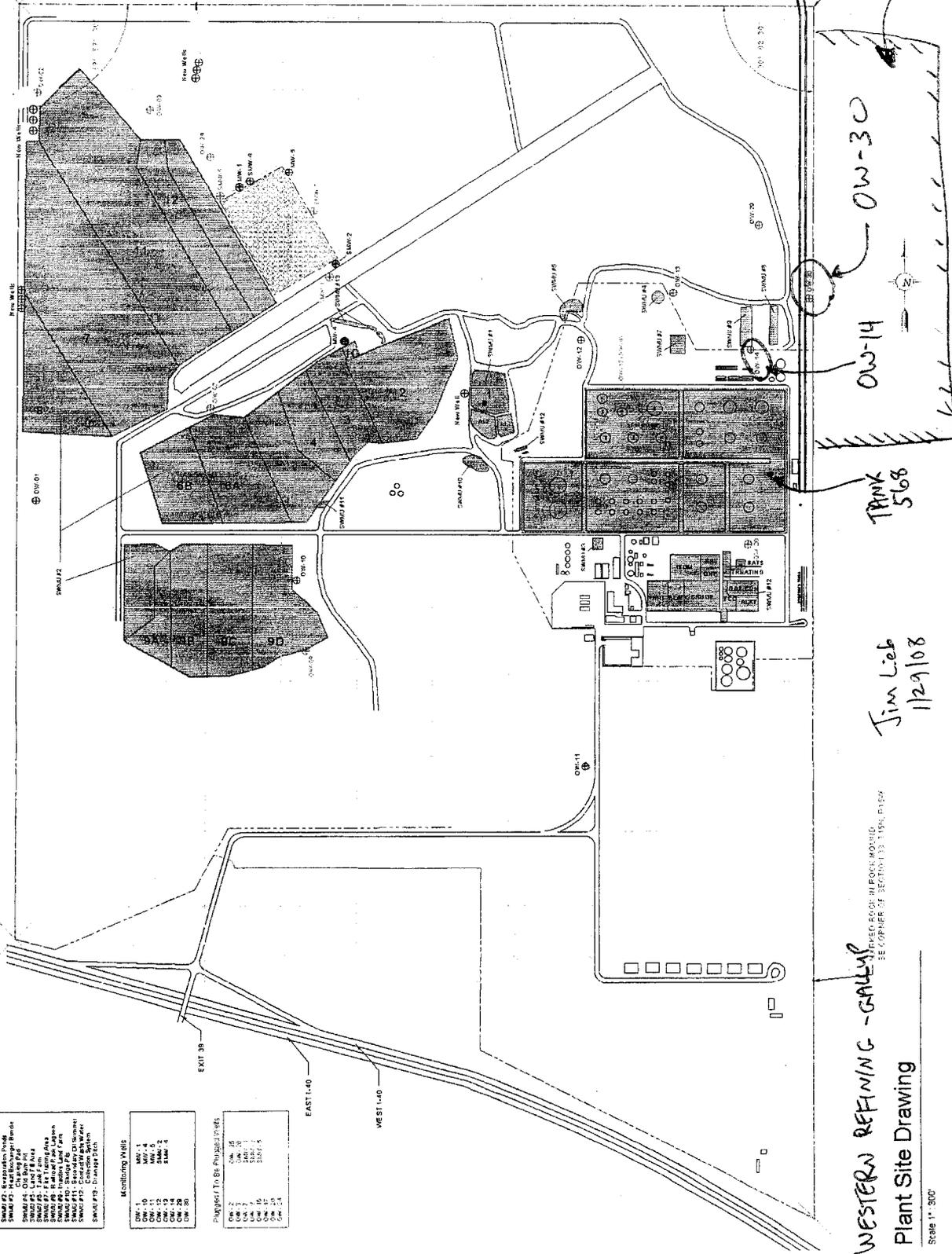
SWMP#1	1. Solid Waste
SWMP#2	2. Evaporator Pans
SWMP#3	3. Chlorine Pans
SWMP#4	4. Oil Pans
SWMP#5	5. Fuel Pans
SWMP#6	6. Solid Waste
SWMP#7	7. Solid Waste
SWMP#8	8. Solid Waste
SWMP#9	9. Solid Waste
SWMP#10	10. Solid Waste
SWMP#11	11. Solid Waste
SWMP#12	12. Solid Waste
SWMP#13	13. Solid Waste
SWMP#14	14. Solid Waste
SWMP#15	15. Solid Waste
SWMP#16	16. Solid Waste
SWMP#17	17. Solid Waste
SWMP#18	18. Solid Waste
SWMP#19	19. Solid Waste
SWMP#20	20. Solid Waste
SWMP#21	21. Solid Waste
SWMP#22	22. Solid Waste
SWMP#23	23. Solid Waste
SWMP#24	24. Solid Waste
SWMP#25	25. Solid Waste
SWMP#26	26. Solid Waste
SWMP#27	27. Solid Waste
SWMP#28	28. Solid Waste
SWMP#29	29. Solid Waste
SWMP#30	30. Solid Waste
SWMP#31	31. Solid Waste
SWMP#32	32. Solid Waste
SWMP#33	33. Solid Waste
SWMP#34	34. Solid Waste
SWMP#35	35. Solid Waste
SWMP#36	36. Solid Waste
SWMP#37	37. Solid Waste
SWMP#38	38. Solid Waste
SWMP#39	39. Solid Waste
SWMP#40	40. Solid Waste
SWMP#41	41. Solid Waste
SWMP#42	42. Solid Waste
SWMP#43	43. Solid Waste
SWMP#44	44. Solid Waste
SWMP#45	45. Solid Waste
SWMP#46	46. Solid Waste
SWMP#47	47. Solid Waste
SWMP#48	48. Solid Waste
SWMP#49	49. Solid Waste
SWMP#50	50. Solid Waste

Monitoring Wells

OW-1	MW-1
OW-2	MW-2
OW-3	MW-3
OW-4	MW-4
OW-5	MW-5
OW-6	MW-6
OW-7	MW-7
OW-8	MW-8
OW-9	MW-9
OW-10	MW-10
OW-11	MW-11
OW-12	MW-12
OW-13	MW-13
OW-14	MW-14
OW-15	MW-15
OW-16	MW-16
OW-17	MW-17
OW-18	MW-18
OW-19	MW-19
OW-20	MW-20
OW-21	MW-21
OW-22	MW-22
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OW-24	MW-24
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OW-29	MW-29
OW-30	MW-30
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OW-33	MW-33
OW-34	MW-34
OW-35	MW-35
OW-36	MW-36
OW-37	MW-37
OW-38	MW-38
OW-39	MW-39
OW-40	MW-40
OW-41	MW-41
OW-42	MW-42
OW-43	MW-43
OW-44	MW-44
OW-45	MW-45
OW-46	MW-46
OW-47	MW-47
OW-48	MW-48
OW-49	MW-49
OW-50	MW-50

Plugs in To Be Plugged Wells

OW-1	OW-15
OW-2	OW-16
OW-3	OW-17
OW-4	OW-18
OW-5	OW-19
OW-6	OW-20
OW-7	OW-21
OW-8	OW-22
OW-9	OW-23
OW-10	OW-24
OW-11	OW-25
OW-12	OW-26
OW-13	OW-27
OW-14	OW-28
OW-15	OW-29
OW-16	OW-30
OW-17	OW-31
OW-18	OW-32
OW-19	OW-33
OW-20	OW-34
OW-21	OW-35
OW-22	OW-36
OW-23	OW-37
OW-24	OW-38
OW-25	OW-39
OW-26	OW-40
OW-27	OW-41
OW-28	OW-42
OW-29	OW-43
OW-30	OW-44
OW-31	OW-45
OW-32	OW-46
OW-33	OW-47
OW-34	OW-48
OW-35	OW-49
OW-36	OW-50



WESTERN REFINING - GALVESTON
 PLANT SITE DRAWING
 Scale 1" = 300'

Jim Lieb
 1129108

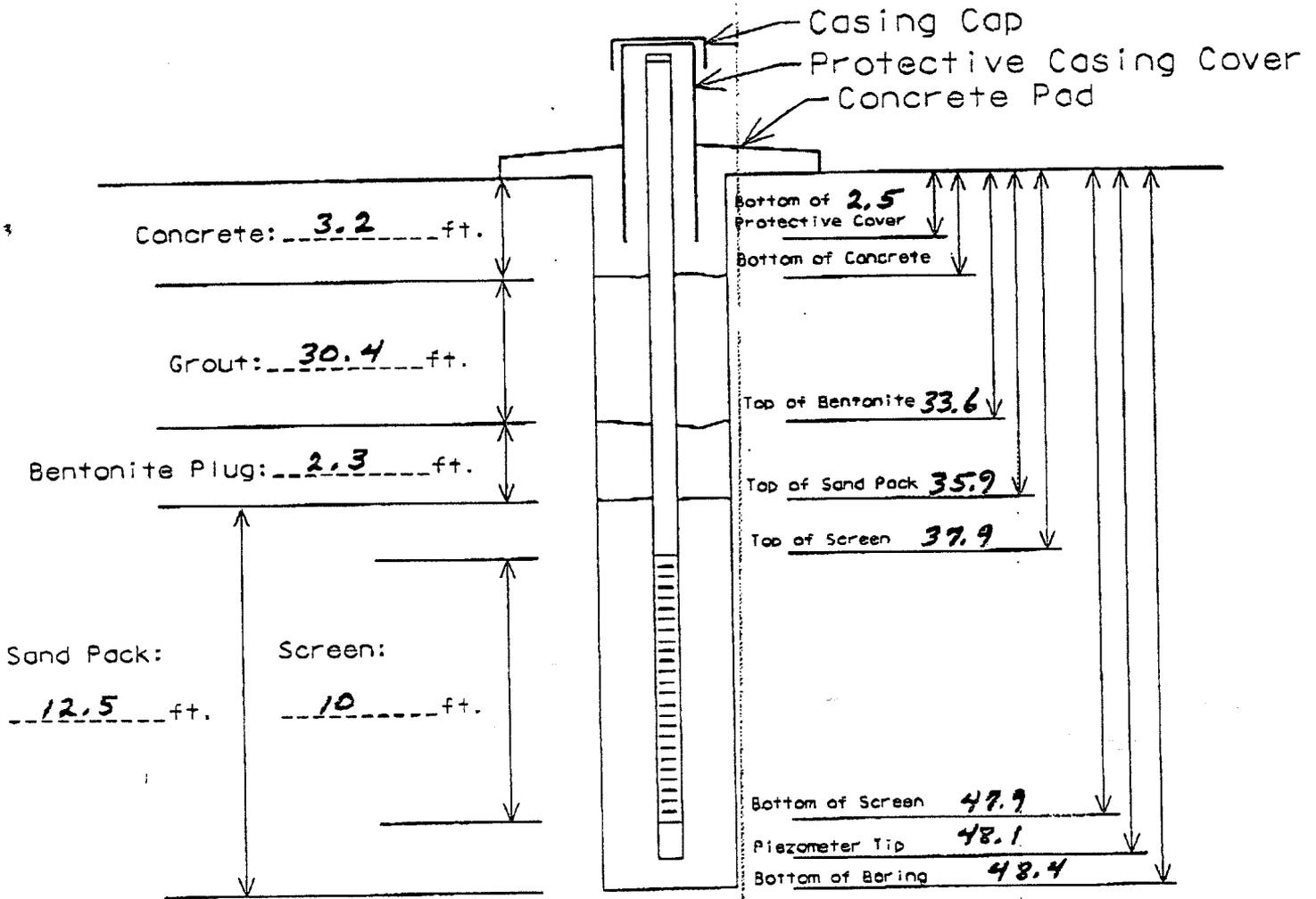
TRANK
 568

OW-14
 OW-30

WESTERN REFINING
 PROPERTY
 EXTENDS TO EAST

Installation Diagram

Monitoring Well No. 0W-30



Boring Diameter: 8 5/8"

Sand Type: 20-40

Bollards: Type/Size: NONE

Bentonite: PELPLUL, TA-30
3/8" PELLETS

Screen Type/Size: 4 1/2" x 10, SCH 40 PVC

Cement/Grout: 6% BENTONITE/CEMENT

Riser Type/Size: 4 1/2" SCH 40, PVC

Water: POTABLE

Locking Expandable Casing Plug? YES

Other: _____

Bottom Cap Used? YES

Project #: 96-134

Project Name: CINIZA REFINERY INVESTIGATION



505-523-7674

Site Northing: 4599.3

Site Easting: 30.0

Elevation: 6921.6

BORING OW-14

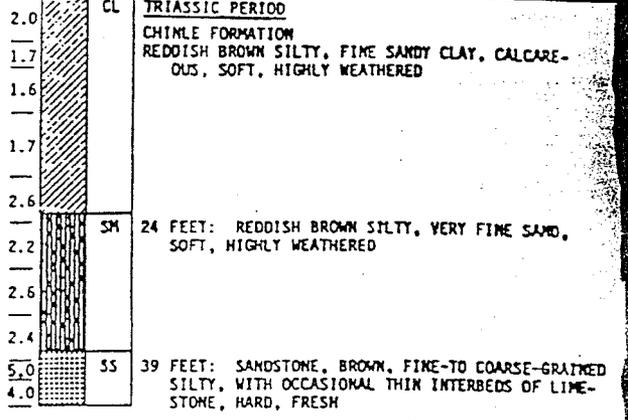
SURFACE ELEVATION: 6923 FEET

LABORATORY TEST DATA								
DEPTH IN FEET	TESTS REPORTED ELSEWHERE	ATTERBERG LIMITS		STRENGTH TEST DATA			MOISTURE CONTENT (%)	DRY DENSITY (PCF)
		LIQUID LIMIT (%)	PLASTICITY INDEX (%)	TYPE OF TEST	NORMAL OR CONFINING PRESSURE (PSF)	SHEAR STRENGTH (PSF)		
0								
10								
20								
30								
40								
50								
60								
70								
80								
90								
100								
110								
120								
130								
140								
150								
160								

PENETRATION RATE
MINUTES/FOOT

SYMBOLS

DESCRIPTION



BORING COMPLETED AT 45.0 FEET ON 12/17/80.
4-INCH PVC PIEZOMETER INSTALLED WITH PERFORATIONS FROM 35.0 TO 45.0 FEET.
GRAVEL PLACED FROM 30.0 TO 45.0 FEET AND BORING SEALED WITH BENTONITE AND CEMENT TO SURFACE.
GROUND WATER LEVEL MEASURED AT 25.8 FEET BELOW GROUND ON 1/5/81.

BAD LOG

LOG OF BORINGS

Monzeglio, Hope, NMENV

From: Jim Lieb [Jim.Lieb@wnr.com]
Sent: Wednesday, January 30, 2008 8:25 AM
To: Monzeglio, Hope, NMENV
Cc: Ed Riege; Allen Hains; Ann Allen; Cobrain, Dave, NMENV; Chavez, Carl J, EMNRD
Subject: RE: MTBE

Hope

I believe you mean OW-29 for MW-29. The OW-29 MTBE result was 0.0043mg/l (12/28/07collection date) and OW-13 MTBE was 0.0013 mg/l (12/27/07 collection date).

My summary table of the test data for OW-14 and OW-29 had an incorrect collection date for OW-14 of 1/8/08. It should be 1/1/08.

If you need more information please let me know.

Regards,
Jim Lieb

From: Monzeglio, Hope, NMENV [mailto:hope.monzeglio@state.nm.us]
Sent: Wednesday, January 30, 2008 7:53 AM
To: Jim Lieb
Cc: Cobrain, Dave, NMENV; Frischkorn, Cheryl, NMENV; Chavez, Carl J, EMNRD; Ed Riege
Subject: MTBE

Jim

Was MTBE detected in MW-29 and/or OW-13, if so what were the values.

Thanks
Hope

Hope Monzeglio
Environmental Specialist
New Mexico Environment Department
Hazardous Waste Bureau
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Santa Fe NM 87505
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Hazardous Waste Bureau