

Grec

**Monzeglio, Hope, NMENV**

**From:** Jim Lieb [Jim.Lieb@wnr.com]  
**Sent:** Tuesday, March 11, 2008 7:57 AM  
**To:** Monzeglio, Hope, NMENV; Chavez, Carl J, EMNRD  
**Cc:** Ed Riege; Cheryl Johnson; Allen Hains; Ann Allen; Mark Turri  
**Subject:** Western Refining - Gallup Refinery Laboratory Analytical for Well GWM-2  
**Attachments:** GWM-2 WaterHEALtestdata.pdf

Western Refining - Gallup Refinery found water in GWM-2 during a quarterly inspection that was performed on February 18, 2008. Although recharge was limited, Western was able to obtain enough water sample on February 28, 2008 to conduct analysis for GRO, DRO, MRO and VOCs (8260B) including BTEX and MTBE. GRO, DRO, MRO, and BTEX were not detected in the sample. However, some MTBE was detected (28 ug/l). I have attached the Hall Environmental Analysis Laboratory report to this email.

Western will perform the quarterly inspection and resample the well (if there is sufficient water present in the well) at some point during the first two weeks of the next quarter (April). In the meantime, I will provide you on Friday with a summary of the daily GWM-2 water level measurements from this week.

If you have any questions, please contact me at (505) 722-0227.

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

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

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3/11/2008



## COVER LETTER

Thursday, March 06, 2008

Jim Lieb  
Western Refining Southwest, Gallup  
Rt. 3 Box 7  
Gallup, NM 87301

TEL: (505) 722-3833

FAX (505) 722-0210

RE: GWM-2 Water Sample 22808

Order No.: 0802357

Dear Jim Lieb:

Hall Environmental Analysis Laboratory, Inc. received 1 sample(s) on 2/29/2008 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent.

Reporting limits are determined by EPA methodology. No determination of compounds below these (denoted by the ND or < sign) has been made.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman".

Andy Freeman, Business Manager  
Nancy McDuffie, Laboratory Manager

NM Lab # NM9425

AZ license # AZ0682

ORELAP Lab # NM100001



# Hall Environmental Analysis Laboratory, Inc.

Date: 06-Mar-08

**CLIENT:** Western Refining Southwest, Gallup  
**Lab Order:** 0802357  
**Project:** GWM-2 Water Sample 22808  
**Lab ID:** 0802357-01

**Client Sample ID:** GWM-2  
**Collection Date:** 2/28/2008 2:30:00 PM  
**Date Received:** 2/29/2008  
**Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015B: DIESEL RANGE</b>						Analyst: SCC
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	3/4/2008 5:33:21 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	3/4/2008 5:33:21 PM
Surr: DNOP	118	58-140		%REC	1	3/4/2008 5:33:21 PM
<b>EPA METHOD 8015B: GASOLINE RANGE</b>						Analyst: NSB
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	3/5/2008 5:54:49 PM
Surr: BFB	104	79.2-121		%REC	1	3/5/2008 5:54:49 PM
<b>EPA METHOD 8260B: VOLATILES</b>						Analyst: SMP
Benzene	ND	1.0		µg/L	1	3/3/2008 11:58:17 PM
Toluene	ND	1.0		µg/L	1	3/3/2008 11:58:17 PM
Ethylbenzene	ND	1.0		µg/L	1	3/3/2008 11:58:17 PM
Methyl tert-butyl ether (MTBE)	28	1.0		µg/L	1	3/3/2008 11:58:17 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	3/3/2008 11:58:17 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	3/3/2008 11:58:17 PM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	3/3/2008 11:58:17 PM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	3/3/2008 11:58:17 PM
Naphthalene	ND	2.0		µg/L	1	3/3/2008 11:58:17 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	3/3/2008 11:58:17 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	3/3/2008 11:58:17 PM
Acetone	ND	10		µg/L	1	3/3/2008 11:58:17 PM
Bromobenzene	ND	1.0		µg/L	1	3/3/2008 11:58:17 PM
Bromodichloromethane	ND	1.0		µg/L	1	3/3/2008 11:58:17 PM
Bromoform	ND	1.0		µg/L	1	3/3/2008 11:58:17 PM
Bromomethane	ND	1.0		µg/L	1	3/3/2008 11:58:17 PM
2-Butanone	ND	10		µg/L	1	3/3/2008 11:58:17 PM
Carbon disulfide	ND	10		µg/L	1	3/3/2008 11:58:17 PM
Carbon Tetrachloride	ND	1.0		µg/L	1	3/3/2008 11:58:17 PM
Chlorobenzene	ND	1.0		µg/L	1	3/3/2008 11:58:17 PM
Chloroethane	ND	2.0		µg/L	1	3/3/2008 11:58:17 PM
Chloroform	ND	1.0		µg/L	1	3/3/2008 11:58:17 PM
Chloromethane	ND	1.0		µg/L	1	3/3/2008 11:58:17 PM
2-Chlorotoluene	ND	1.0		µg/L	1	3/3/2008 11:58:17 PM
4-Chlorotoluene	ND	1.0		µg/L	1	3/3/2008 11:58:17 PM
cis-1,2-DCE	ND	1.0		µg/L	1	3/3/2008 11:58:17 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	3/3/2008 11:58:17 PM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	3/3/2008 11:58:17 PM
Dibromochloromethane	ND	1.0		µg/L	1	3/3/2008 11:58:17 PM
Dibromomethane	ND	1.0		µg/L	1	3/3/2008 11:58:17 PM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	3/3/2008 11:58:17 PM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	3/3/2008 11:58:17 PM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	3/3/2008 11:58:17 PM

**Qualifiers:**

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

# Hall Environmental Analysis Laboratory, Inc.

Date: 06-Mar-08

CLIENT: Western Refining Southwest, Gallup  
 Lab Order: 0802357  
 Project: GWM-2 Water Sample 22808  
 Lab ID: 0802357-01

Client Sample ID: GWM-2  
 Collection Date: 2/28/2008 2:30:00 PM  
 Date Received: 2/29/2008  
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8260B: VOLATILES</b>						Analyst: SMP
Dichlorodifluoromethane	ND	1.0		µg/L	1	3/3/2008 11:58:17 PM
1,1-Dichloroethane	ND	1.0		µg/L	1	3/3/2008 11:58:17 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	3/3/2008 11:58:17 PM
1,2-Dichloropropane	ND	1.0		µg/L	1	3/3/2008 11:58:17 PM
1,3-Dichloropropane	ND	1.0		µg/L	1	3/3/2008 11:58:17 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	3/3/2008 11:58:17 PM
1,1-Dichloropropene	ND	1.0		µg/L	1	3/3/2008 11:58:17 PM
Hexachlorobutadiene	ND	1.0		µg/L	1	3/3/2008 11:58:17 PM
2-Hexanone	ND	10		µg/L	1	3/3/2008 11:58:17 PM
Isopropylbenzene	ND	1.0		µg/L	1	3/3/2008 11:58:17 PM
4-Isopropyltoluene	ND	1.0		µg/L	1	3/3/2008 11:58:17 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	3/3/2008 11:58:17 PM
Methylene Chloride	ND	3.0		µg/L	1	3/3/2008 11:58:17 PM
n-Butylbenzene	ND	1.0		µg/L	1	3/3/2008 11:58:17 PM
n-Propylbenzene	ND	1.0		µg/L	1	3/3/2008 11:58:17 PM
sec-Butylbenzene	ND	1.0		µg/L	1	3/3/2008 11:58:17 PM
Styrene	ND	1.0		µg/L	1	3/3/2008 11:58:17 PM
tert-Butylbenzene	ND	1.0		µg/L	1	3/3/2008 11:58:17 PM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	3/3/2008 11:58:17 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	3/3/2008 11:58:17 PM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	3/3/2008 11:58:17 PM
trans-1,2-DCE	ND	1.0		µg/L	1	3/3/2008 11:58:17 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	3/3/2008 11:58:17 PM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	3/3/2008 11:58:17 PM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	3/3/2008 11:58:17 PM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	3/3/2008 11:58:17 PM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	3/3/2008 11:58:17 PM
Trichloroethene (TCE)	ND	1.0		µg/L	1	3/3/2008 11:58:17 PM
Trichlorofluoromethane	ND	1.0		µg/L	1	3/3/2008 11:58:17 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	3/3/2008 11:58:17 PM
Vinyl chloride	ND	1.0		µg/L	1	3/3/2008 11:58:17 PM
Xylenes, Total	ND	1.5		µg/L	1	3/3/2008 11:58:17 PM
Surr: 1,2-Dichloroethane-d4	99.2	68.1-123		%REC	1	3/3/2008 11:58:17 PM
Surr: 4-Bromofluorobenzene	106	53.2-145		%REC	1	3/3/2008 11:58:17 PM
Surr: Dibromofluoromethane	97.1	68.5-119		%REC	1	3/3/2008 11:58:17 PM
Surr: Toluene-d8	101	64-131		%REC	1	3/3/2008 11:58:17 PM

Qualifiers: \* Value exceeds Maximum Contaminant Level  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 ND Not Detected at the Reporting Limit  
 S Spike recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank  
 H Holding times for preparation or analysis exceeded  
 MCL Maximum Contaminant Level  
 RL Reporting Limit

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup  
 Project: GWM-2 Water Sample 22808

Work Order: 0802357

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
<b>Method: EPA Method 8015B: Diesel Range</b>									
Sample ID: MB-15278		MBLK							
Diesel Range Organics (DRO)	ND	mg/L	1.0						
Motor Oil Range Organics (MRO)	ND	mg/L	5.0						
Sample ID: LCS-15278		LCS							
Diesel Range Organics (DRO)	5.326	mg/L	1.0	107	74	157			
Sample ID: LCSD-15278		LCSD							
Diesel Range Organics (DRO)	4.843	mg/L	1.0	96.9	74	157	9.50	23	

<b>Method: EPA Method 8015B: Gasoline Range</b>									
Sample ID: 5ML RB		MBLK							
Gasoline Range Organics (GRO)	ND	mg/L	0.050						
Sample ID: 2.5UG GRO LCS		LCS							
Gasoline Range Organics (GRO)	0.4604	mg/L	0.050	92.1	80	115			
Sample ID: 2.5UG GRO LCSD		LCSD							
Gasoline Range Organics (GRO)	0.4618	mg/L	0.050	92.4	80	115	0.304	8.39	

Qualifiers:

- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup  
 Project: GWM-2 Water Sample 22808

Work Order: 0802357

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 8260B: VOLATILES

Sample ID: 5ml rb

MBLK

Batch ID: R27552 Analysis Date: 3/3/2008 6:03:36 AM

Benzene	ND	µg/L	1.0						
Toluene	ND	µg/L	1.0						
Ethylbenzene	ND	µg/L	1.0						
Methyl tert-butyl ether (MTBE)	ND	µg/L	1.0						
1,2,4-Trimethylbenzene	ND	µg/L	1.0						
1,3,5-Trimethylbenzene	ND	µg/L	1.0						
1,2-Dichloroethane (EDC)	ND	µg/L	1.0						
1,2-Dibromoethane (EDB)	ND	µg/L	1.0						
Naphthalene	ND	µg/L	2.0						
1-Methylnaphthalene	ND	µg/L	4.0						
2-Methylnaphthalene	ND	µg/L	4.0						
Acetone	ND	µg/L	10						
Bromobenzene	ND	µg/L	1.0						
Bromodichloromethane	ND	µg/L	1.0						
Bromoform	ND	µg/L	1.0						
Bromomethane	ND	µg/L	1.0						
2-Butanone	ND	µg/L	10						
Carbon disulfide	ND	µg/L	10						
Carbon Tetrachloride	ND	µg/L	1.0						
Chlorobenzene	ND	µg/L	1.0						
Chloroethane	ND	µg/L	2.0						
Chloroform	ND	µg/L	1.0						
Chloromethane	ND	µg/L	1.0						
2-Chlorotoluene	ND	µg/L	1.0						
4-Chlorotoluene	ND	µg/L	1.0						
cis-1,2-DCE	ND	µg/L	1.0						
cis-1,3-Dichloropropene	ND	µg/L	1.0						
1,2-Dibromo-3-chloropropane	ND	µg/L	2.0						
Dibromochloromethane	ND	µg/L	1.0						
Dibromomethane	ND	µg/L	1.0						
1,2-Dichlorobenzene	ND	µg/L	1.0						
1,3-Dichlorobenzene	ND	µg/L	1.0						
1,4-Dichlorobenzene	ND	µg/L	1.0						
Dichlorodifluoromethane	ND	µg/L	1.0						
1,1-Dichloroethane	ND	µg/L	1.0						
1,1-Dichloroethene	ND	µg/L	1.0						
1,2-Dichloropropane	ND	µg/L	1.0						
1,3-Dichloropropane	ND	µg/L	1.0						
2,2-Dichloropropane	ND	µg/L	2.0						
1,1-Dichloropropene	ND	µg/L	1.0						
Hexachlorobutadiene	ND	µg/L	1.0						
2-Hexanone	ND	µg/L	10						
Isopropylbenzene	ND	µg/L	1.0						
4-Isopropyltoluene	ND	µg/L	1.0						

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	S	Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup  
 Project: GWM-2 Water Sample 22808

Work Order: 0802357

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 8260B: VOLATILES

Sample ID: 5ml rb MBLK Batch ID: R27552 Analysis Date: 3/3/2008 6:03:36 AM

4-Methyl-2-pentanone	ND	µg/L	10						
Methylene Chloride	ND	µg/L	3.0						
n-Butylbenzene	ND	µg/L	1.0						
n-Propylbenzene	ND	µg/L	1.0						
sec-Butylbenzene	ND	µg/L	1.0						
Styrene	ND	µg/L	1.0						
tert-Butylbenzene	ND	µg/L	1.0						
1,1,1,2-Tetrachloroethane	ND	µg/L	1.0						
1,1,2,2-Tetrachloroethane	ND	µg/L	2.0						
Tetrachloroethene (PCE)	ND	µg/L	1.0						
trans-1,2-DCE	ND	µg/L	1.0						
trans-1,3-Dichloropropene	ND	µg/L	1.0						
1,2,3-Trichlorobenzene	ND	µg/L	1.0						
1,2,4-Trichlorobenzene	ND	µg/L	1.0						
1,1,1-Trichloroethane	ND	µg/L	1.0						
1,1,2-Trichloroethane	ND	µg/L	1.0						
Trichloroethene (TCE)	ND	µg/L	1.0						
Trichlorofluoromethane	ND	µg/L	1.0						
1,2,3-Trichloropropane	ND	µg/L	2.0						
Vinyl chloride	ND	µg/L	1.0						
Xylenes, Total	ND	µg/L	1.5						

Sample ID: 100ng lcs LCS Batch ID: R27552 Analysis Date: 3/3/2008 7:13:13 AM

Benzene	21.40	µg/L	1.0	107	72.4	126			
Toluene	22.20	µg/L	1.0	111	79.2	115			
Chlorobenzene	21.71	µg/L	1.0	109	83.1	111			
1,1-Dichloroethene	25.82	µg/L	1.0	129	81.4	122			S
Trichloroethene (TCE)	20.10	µg/L	1.0	100	64.4	118			

Qualifiers:

- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

# Hall Environmental Analysis Laboratory, Inc.

## Sample Receipt Checklist

Client Name WESTERN REFINING GALLU

Date Received:

2/29/2008

Work Order Number 0802357

Received by: AT

Checklist completed by:

*[Signature]*  
Signature

2/29/08  
Date

Sample ID labels checked by

*[Signature]*  
Initials

Matrix

Carrier name Client drop-off

- Shipping container/cooler in good condition? Yes  No  Not Present
- Custody seals intact on shipping container/cooler? Yes  No  Not Present  Not Shipped
- Custody seals intact on sample bottles? Yes  No  N/A
- Chain of custody present? Yes  No
- Chain of custody signed when relinquished and received? Yes  No
- Chain of custody agrees with sample labels? Yes  No
- Samples in proper container/bottle? Yes  No
- Sample containers intact? Yes  No
- Sufficient sample volume for indicated test? Yes  No
- All samples received within holding time? Yes  No
- Water - VOA vials have zero headspace? No VOA vials submitted  Yes  No
- Water - Preservation labels on bottle and cap match? Yes  No  N/A
- Water - pH acceptable upon receipt? Yes  No  N/A
- Container/Temp Blank temperature? 5° <6° C Acceptable  
If given sufficient time to cool.

COMMENTS:

Client contacted \_\_\_\_\_ Date contacted: \_\_\_\_\_ Person contacted \_\_\_\_\_

Contacted by: \_\_\_\_\_ Regarding \_\_\_\_\_

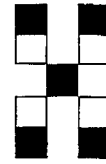
Comments: \_\_\_\_\_

Corrective Action \_\_\_\_\_



# CHAIN-OF-CUSTODY RECORD

QA/QC Package:  
 Std  Level 4   
 Other: \_\_\_\_\_



**HALL ENVIRONMENTAL ANALYSIS LABORATORY**  
 4901 Hawkins NE, Suite D  
 Albuquerque, New Mexico 87109  
 Tel. 505.345.3975 Fax 505.345.4107  
 www.hallenvironmental.com

Client: *Western Refining - Gallup*  
 Address: *Route 3 Box 7 Gallup NM 87301*

Project Name: *GWM-2 Water Sample 22808*

Project #: \_\_\_\_\_

Project Manager: *Jim Lieb*

Phone #: *505 722 3833*  
 Fax #: *505 722 0210*

Sample: *Steam Monitor*  
 Sample Temperature: *5 on ice*

## ANALYSIS REQUEST

Date	Time	Matrix	Sample I.D. No.	Number/Volume	Preservative		HEAL No.
					HgCl <sub>2</sub>	HNO <sub>3</sub>	
<i>2-28-08</i>	<i>1430</i>	<i>H<sub>2</sub>O</i>	<i>GWM-2</i>	<i>6</i>			<i>6902357-1</i>

BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gasoline Only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	EDC (Method 8021)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F, Cl, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub> )	8081 Pesticides / PCB's (8082)	8260B (VOA)	8270 (Semi-VOA)									Air Bubbles or Headspace (Y or N)	
		X								X											

Date: *2/29/08* Time: *3:52PM* Relinquished By: (Signature) *[Signature]*

Received By: (Signature) *[Signature]*  
 Received By: (Signature) *2/29/08 1552*

Remarks: \_\_\_\_\_

**Monzeglio, Hope, NMENV**

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**From:** Jim Lieb [Jim.Lieb@wnr.com]  
**Sent:** Thursday, March 06, 2008 4:00 PM  
**To:** Monzeglio, Hope, NMENV  
**Cc:** Ed Riege; Cheryl Johnson; Chavez, Carl J, EMNRD  
**Subject:** RE: GWM-2 at Western Refining - Gallup  
**Attachments:** \_0306144127\_001.pdf; GWM-2WaterLevels.xls; \_0306155807\_001.pdf

Hope:

I am providing the report for GWM-2 now. We have measured water levels over the week. The initial sample date we found water in the well was on 2/18/08. I prepared a table summarizing the well measurements of GWM-2 to date. Steve Morris was able to obtain a sample for analysis on 2/28/08 which has been delivered to HEAL in Albuquerque for TPH and VOCs (8260B) analysis. Not enough water was present in the well to provide sufficient sample for additional analysis. I have not yet received the lab results but will forward them to you when I receive them. Steve measured the riser and his report including some additional well data is attached.

GWM-2 is at the far northwestern side of aeration lagoon adjacent to evap. pond 1. GWM-2 is located close to GWM-1. I attached a section of one of Kingsley's maps showing the location of GWM-2. This is from Figure 3 in the 2006 GW Report.

We will continue taking water level measurements until you tell us to stop.

If you need additional info or have a question please contact me at 505-722-0227 or reply email.

Regards,  
Jim Lieb

---

**From:** Monzeglio, Hope, NMENV [mailto:hope.monzeglio@state.nm.us]  
**Sent:** Thursday, February 28, 2008 8:34 AM  
**To:** Jim Lieb; Price, Wayne, EMNRD; Chavez, Carl J, EMNRD; Ed Riege  
**Cc:** Cobrain, Dave, NMENV; Frischkorn, Cheryl, NMENV  
**Subject:** GWM-2

GWM-2 update

Western Gallup found ~5 inches or less of water in GWM-2. There is not enough water for a sample. NMED is having Western bail down the 5 inches of water as much as possible and will check the water levels daily. Jim will send an email update on March 7th. Jim is also going to inquire about the well cap being sealed prior to the water level measurement. Jim mentioned that they have had a lot of snow and rain fall this winter and rain over the weekend (Feb 23). Jim is also going to find out the length of the riser above ground.

Jim in your message you said GWM-2 was between Aeration lagoon (AL) 1 and AL-2. The map shows GWM-2 between AL-2 and Evaporation Pond 1. Please clarify the location for me. What day was the water level measured?

Thanks  
Hope

Hope Monzeglio  
Environmental Specialist  
New Mexico Environment Department  
Hazardous Waste Bureau  
2905 Rodeo Park Drive East, BLDG 1  
Santa Fe NM 87505  
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Fax: (505)-476-6060  
[hope.monzeglio@state.nm.us](mailto:hope.monzeglio@state.nm.us)

3/6/2008

**Websites:**  
**New Mexico Environment Department**  
**Hazardous Waste Bureau**

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## Jim Lieb

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**From:** Stephen Morris [smorris@trihydro.com]  
**Sent:** Friday, February 29, 2008 9:12 AM  
**To:** Jim Lieb  
**Subject:** GWM-2 2-28-2008

Jim,

Alvin and I checked and sampled GWM-2 on Feb. 28, 2008:

Depth to water - 18.55 feet.

Sampled well using new plastic bailer for 8260 and 8015 GRO/DRO at 1430 hrs.

There was not enough water to sample well for General Chemistry.

Depth to water after sampling - 18.78 feet.

Total well depth measured - 18.98 feet.

Top of casing measured to concrete well pad (stick up) - 2.646 feet.

Top of casing measured to ground at well (stick up) - 2.812 feet.

Thanks, Steve

# CHAIN-OF-CUSTODY RECORD

Client: *Western Refining - Gallup*

Address: *Route 3 Box 7 Gallup NM 87301*

Phone #: *505 722 8833*

Fax #: *505 722 0210*

QA/QC Package:  
 Std  Level 4   
 Other: \_\_\_\_\_

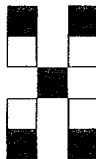
Project Name: *GUM-2 Water Sample 22808*

Project #:

Project Manager: *Jim Lieb*

Sampler: *John Hines*

Sample Temperature:



**HALL ENVIRONMENTAL ANALYSIS LABORATORY**  
 4901 Hawkins NE, Suite D  
 Albuquerque, New Mexico 87109  
 Tel. 505.345.3975 Fax 505.345.4107  
 www.hallenvironmental.com

## ANALYSIS REQUEST

Date	Time	Matrix	Sample I.D. No.	Number/Volume	Preservative		HEAL No.	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gasoline Only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	EDC (Method 8021)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F, Cl, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub> )	8081 Pesticides / PCB's (8082)	8260B (VOA)	8270 (Semi-VOA)	Air Bubbles or Headspace (Y or N)	
					HgCl <sub>2</sub>	HNO <sub>3</sub>															
<i>2-28-08</i>	<i>1430</i>	<i>W</i>	<i>GUM-2</i>	<i>6</i>						<i>X</i>								<i>X</i>			

Date: <i>2/28/08</i>	Time: <i>1430</i>	Relinquished By: (Signature) <i>[Signature]</i>	Received By: (Signature) <i>[Signature]</i>
Date:	Time:	Relinquished By: (Signature)	Received By: (Signature)

Remarks:

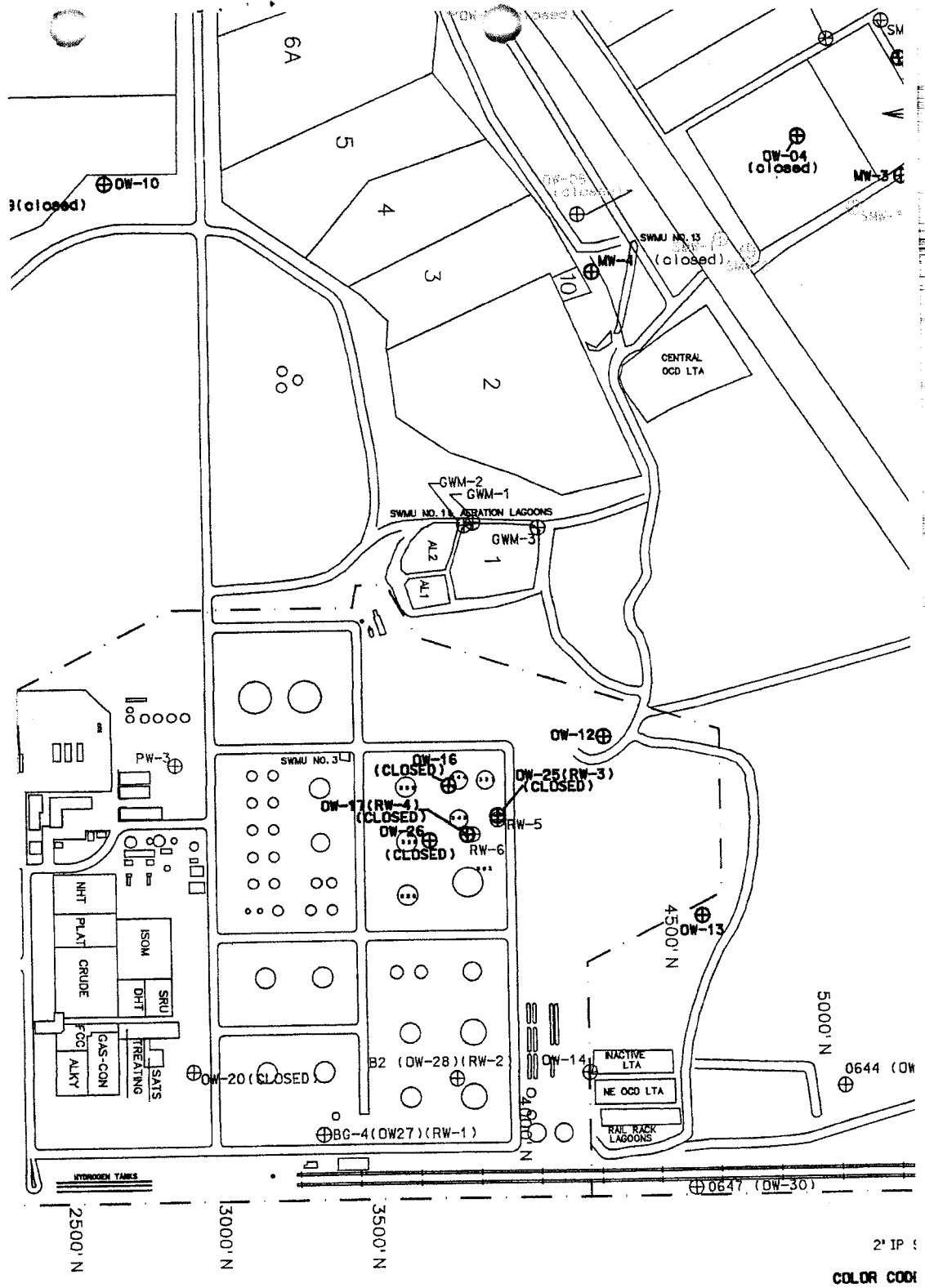
**GWM-2 Inspections**  
**Western Refining - Gallup Refinery**

<b>Date</b>	<b>Time</b>	<b>Depth to Water (feet)</b>	<b>Sampler</b>
2/18/2008	2:12 PM	18.38	CJ
2/28/2008*	2:30 PM	18.55	SM
3/4/2008	1:00 PM	18.68	CJ
3/5/2008	9:00 AM	18.68	CJ
3/6/2008	8:45 AM	18.68	CJ

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\* The well water was sampled and delivered to HEAL for TPH and VOCs analysis  
The well depth is before the sample was taken.

Note: Depth to well bottom = 18.98 feet measured 2-28-08 by Steve Morris



NOTE: CLOSED = ABANDONED

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32 (00 + 2006)

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I  
J