

**Monzeglio, Hope, NMENV**

From: Rajen, Gaurav [Gaurav.Rajen@wnr.com]
Sent: Thursday, March 12, 2009 2:28 PM
To: Monzeglio, Hope, NMENV
Cc: Cobrain, Dave, NMENV; Riege, Ed; Turri, Mark
Subject: Quarterly sampling results for NAPIS and OW wells
Attachments: 0902201-February 2009.pdf; 1st quarter OW wells.pdf; 1ST QTR 2009 OW WELL LOG.xls; 1ST QTR 2009 NAPIS WELL LOG.xls; Table 1-February 2009 and November 2008.doc

Dear Hope:

It is a pleasure to send to you our latest sampling results for OW-13, OW-14, OW-30 and OW-29, as well as the NAPIS wells, NAPIS-1 (formerly KA-1R), NAPIS-2 (formerly KA-2R), and NAPIS-3 (formerly KA-3R), and well KA-3 (that you have asked us to add given that well NAPIS-3 is sometimes dry). The laboratory analytical results that we have received till now are attached.

As before, I have compiled a table of the results for the NAPIS wells, and compared our latest February 2009 data with the data we obtained in November 2008. You will note that levels of MTBE for the NAPIS wells are either going down or have stayed constant at low levels. The MTBE levels are either below or very close to the NMED standard for groundwater remediation of MTBE of 0.1 mg/L. For the OW wells, in some of the wells, trace levels of MTBE detected earlier have dropped to Non-detectable levels, while others are staying fairly constant around 1 mg/L.

I have also included separate tables of the volumes of water purged from each well and the water depth records our staff obtained. I would like you to note that at the time of the February sampling event for the NAPIS wells our staff members were unable to collect in the field water quality parameters, such as pH, Temperature, Dissolved Oxygen, etc. We will collect these data next week. For the OW wells, basic water quality data are provided along with the well purge logs.

If you need any further clarification, please do not hesitate to contact me at your convenience.

Best regards,

Raj

From: Monzeglio, Hope, NMENV [mailto:hope.monzeglio@state.nm.us]
Sent: Wednesday, March 11, 2009 11:32 AM
To: Rajen, Gaurav
Cc: Cobrain, Dave, NMENV; Riege, Ed
Subject: quarterly sampling results

Raj

Please let me know when I can be expecting the quarterly MTBE sampling results for OW-13, OW-14, OW-30, and OW-29 and the quarterly sampling results for the KA-1R, KA-2R, and KA-3r (the NAPIS wells)?

Hope

Hope Monzeglio
Environmental Specialist
New Mexico Environment Department
Hazardous Waste Bureau
2905 Rodeo Park Drive East, BLDG 1
Santa Fe NM 87505
Phone: (505) 476-6045; Main No.: (505)-476-6000

3/12/2009

Table 1: Sampling Results for NAPIS Wells – February 2009 and November 2008

Parameter	Date	NAPIS 1	NAPIS 2	NAPIS 3	KA-3
Benzene	2/17/2009	ND	0.019 mg/L	ND	0.0021 mg/L
	11/10/08	ND	0.025 mg/L	ND	ND
Toluene	2/17/2009	ND	ND	ND	ND
	11/10/08	ND	ND	ND	ND
Ethylbenzene	2/17/2009	ND	0.0077 mg/L	ND	ND
	11/10/08	ND	0.011 mg/L	ND	ND
Xylenes, Total	2/17/2009	ND	ND	ND	ND
	11/10/08	ND	ND	ND	ND
1,2,4 Trimethylbenzene	2/17/2009	ND	ND	ND	ND
	11/10/08	ND	0.011 mg/L	ND	ND
1,3,5 Trimethylbenzene	2/17/2009	ND	ND	ND	ND
	11/10/08	ND	ND	ND	ND
MTBE	2/17/2009	ND	0.091 mg/L	ND	0.13 mg/L
	11/10/08	ND	0.18 mg/L	ND	0.13 mg/L

WESTERN REFINING - GALLUP REFINERY WELL SAMPLING DATA

WELL #	NAPIS 1 (KA-1R)	NAPIS 2 (KA-2R)	NAPIS 3 (KA-3R)	KA-3		
PURGE DATE	2/17/2009	2/17/2009	2/17/2009	2/17/2009		
PURGE TIME	0815 HRS	0955 HRS	0840 HRS	0940 HRS		
LIQUID DEPTH	8.88	9.29	8.86	9.23		
DEPTH TO BTM	14	14.5	30.7	25		
DIFFERENCE	5.12	5.21	21.84	15.77		
1WVA = 0.163	0.83456	0.84923	3.55992	2.57051		
3WVA'S	2.50368	2.54769	10.67976	7.71153		
NAPIS 1	Sample Day 2/17/2009	Sample Time 1130 HRS				

Weather: Windy, snowy day. Temp 30-20 Deg. On 2/17/09 started bailing with new bailer at 0815 hrs. First bail clear no apparent odor. 3 well volumes = 2.50 gals. Bailed approximately 2.75 gals.

Took sample = 3 VOA's (HCl preservative) at 1130 hours for 8021B sampling. Labeled accordingly.

NAPIS 2	Sample Day 2/17/2009	Sample Time 1140 HRS
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Weather: Windy, snowy day. Temp 30-20 Deg. On 2/17/09 started bailing at 0840 hrs. Bailer was decontaminated with Alconox/water mixture and rinsed with distilled water before use. First bail water has a slight yellowish tint, no apparent odor. 3 well volumes = 2.54 gals. Bailed approximately 2.75 gals.

Took sample = 3 VOA's (HCl preservative) at 1140 hours for 8021B sampling. Labeled accordingly.

NAPIS 3	Sample Day 2/17/2009	Sample Time 1200 HRS
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Weather: Windy, snowy day. Temp 30-20 Deg. On 2/17/09 started bailing at 0955 hrs. Bailer was decontaminated with Alconox/water mixture and rinsed with distilled water before use. First bail water is clear in color, no apparent odor. 3 well volumes = 10.67 gals. Bailed only 8 gals of water, level low. Water was clear at start but turned cloudy at end of bailing due to water level being low and disturbance of sediment.

Took sample = 3 VOA's (HCl preservative) at 1200 hours for 8021B sampling. Labeled accordingly.

KA-3	Sample Day 2/17/2009	Sample Time 1150 HRS
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Weather: Windy, snowy day. Temp 30-20 Deg. On 2/17/09 started bailing at 0910 hrs. Bailer was decontaminated with Alconox/water mixture and rinsed with distilled water before use. First bail water has a slight yellowish tint, no apparent odor. 3 well volumes = 7.71 gals. Bailed 8 gals of water. Water was clear at start but turned murky at end of bailing due to water level being low and disturbance of sediment.

Took sample = 3 VOA's (HCl preservative) at 1150 hours for 8021B sampling. Labeled accordingly.

NOTES:

Samples kept on ice and shipped UPS RED on 2/18/09 at 1200 hours to Hall Labs.

SAMPLER NAME/TITLE:



COVER LETTER

Monday, February 23, 2009

Gaurav Rajen
Western Refining Southwest, Gallup
Rt. 3 Box 7
Gallup, NM 87301

TEL: (505) 722-0227
FAX (505) 722-0210

RE: 1st QTR 2009

Order No.: 0902201

Dear Gaurav Rajen:

Hall Environmental Analysis Laboratory, Inc. received 4 sample(s) on 2/19/2009 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. Below is a list of our accreditations. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites.

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 'Nancy McDuffie', is written over the typed name.

Andy Freeman, Business Manager
Nancy McDuffie, Laboratory Manager

NM Lab # NM9425
AZ license # AZ0682
ORELAP Lab # NM100001
Texas Lab# T104704424-08-TX



Hall Environmental Analysis Laboratory, Inc.

Date: 23-Feb-09

CLIENT: Western Refining Southwest, Gallup
 Project: 1st QTR 2009

Lab Order: 0902201

Lab ID: 0902201-01

Collection Date: 2/17/2009 11:30:00 AM

Client Sample ID: NAPIS-1

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Analyst: DAM						
EPA METHOD 8021B: VOLATILES						
Methyl tert-butyl ether (MTBE)	ND	2.5		µg/L	1	2/19/2009 11:04:02 PM
Benzene	ND	1.0		µg/L	1	2/19/2009 11:04:02 PM
Toluene	ND	1.0		µg/L	1	2/19/2009 11:04:02 PM
Ethylbenzene	ND	1.0		µg/L	1	2/19/2009 11:04:02 PM
Xylenes, Total	ND	2.0		µg/L	1	2/19/2009 11:04:02 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	2/19/2009 11:04:02 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	2/19/2009 11:04:02 PM
Surr: 4-Bromofluorobenzene	87.8	65.9-130		%REC	1	2/19/2009 11:04:02 PM

Lab ID: 0902201-02

Collection Date: 2/17/2009 11:40:00 AM

Client Sample ID: NAPIS-2

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Analyst: DAM						
EPA METHOD 8021B: VOLATILES						
Methyl tert-butyl ether (MTBE)	91	13		µg/L	5	2/19/2009 11:36:54 PM
Benzene	19	1.0		µg/L	1	2/20/2009 12:12:50 PM
Toluene	ND	1.0		µg/L	1	2/20/2009 12:12:50 PM
Ethylbenzene	7.7	1.0		µg/L	1	2/20/2009 12:12:50 PM
Xylenes, Total	ND	2.0		µg/L	1	2/20/2009 12:12:50 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	2/20/2009 12:12:50 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	2/20/2009 12:12:50 PM
Surr: 4-Bromofluorobenzene	104	65.9-130		%REC	1	2/20/2009 12:12:50 PM

Lab ID: 0902201-03

Collection Date: 2/17/2009 11:50:00 AM

Client Sample ID: KA-3

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Analyst: DAM						
EPA METHOD 8021B: VOLATILES						
Methyl tert-butyl ether (MTBE)	130	13		µg/L	5	2/20/2009 1:16:21 PM
Benzene	2.1	1.0		µg/L	1	2/20/2009 12:37:48 AM
Toluene	ND	1.0		µg/L	1	2/20/2009 12:37:48 AM
Ethylbenzene	ND	1.0		µg/L	1	2/20/2009 12:37:48 AM
Xylenes, Total	ND	2.0		µg/L	1	2/20/2009 12:37:48 AM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	2/20/2009 12:37:48 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	2/20/2009 12:37:48 AM
Surr: 4-Bromofluorobenzene	98.6	65.9-130		%REC	1	2/20/2009 12:37:48 AM

Qualifiers: * Value exceeds Maximum Contaminant Level
 E Estimated value
 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

Hall Environmental Analysis Laboratory, Inc.

Date: 23-Feb-09

CLIENT: Western Refining Southwest, Gallup
 Project: 1st QTR 2009

Lab Order: 0902201

Lab ID: 0902201-04

Collection Date: 2/17/2009 12:00:00 PM

Client Sample ID: NAPIS-3

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: DAM
Methyl tert-butyl ether (MTBE)	ND	2.5		µg/L	1	2/20/2009 1:46:45 PM
Benzene	ND	1.0		µg/L	1	2/20/2009 1:46:45 PM
Toluene	ND	1.0		µg/L	1	2/20/2009 1:46:45 PM
Ethylbenzene	ND	1.0		µg/L	1	2/20/2009 1:46:45 PM
Xylenes, Total	ND	2.0		µg/L	1	2/20/2009 1:46:45 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	2/20/2009 1:46:45 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	2/20/2009 1:46:45 PM
Surr: 4-Bromofluorobenzene	87.8	65.9-130		%REC	1	2/20/2009 1:46:45 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
 E Estimated value
 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: 1st QTR 2009

Work Order: 0902201

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 8021B: Volatiles

Sample ID: 0902201-01A MSD

MSD

Batch ID: R32481 Analysis Date: 2/20/2009 2:42:45 AM

Methyl tert-butyl ether (MTBE)	21.03	µg/L	2.5	101	51.2	138	4.42	28	
Benzene	19.62	µg/L	1.0	98.1	85.9	113	2.34	27	
Toluene	20.36	µg/L	1.0	101	86.4	113	3.31	19	
Ethylbenzene	21.22	µg/L	1.0	106	83.5	118	3.73	10	
Xylenes, Total	64.27	µg/L	2.0	107	83.4	122	3.34	13	
1,2,4-Trimethylbenzene	21.94	µg/L	1.0	109	83.5	115	4.05	21	
1,3,5-Trimethylbenzene	21.04	µg/L	1.0	105	85.2	113	2.96	10	

Sample ID: 5ML RB

MBLK

Batch ID: R32481 Analysis Date: 2/19/2009 9:19:10 AM

Methyl tert-butyl ether (MTBE)	ND	µg/L	2.5						
Benzene	ND	µg/L	1.0						
Toluene	ND	µg/L	1.0						
Ethylbenzene	ND	µg/L	1.0						
Xylenes, Total	ND	µg/L	2.0						
1,2,4-Trimethylbenzene	ND	µg/L	1.0						
1,3,5-Trimethylbenzene	ND	µg/L	1.0						

Sample ID: 100NG BTEX LCS

LCS

Batch ID: R32481 Analysis Date: 2/20/2009 3:13:16 AM

Methyl tert-butyl ether (MTBE)	20.41	µg/L	2.5	102	51.2	138			
Benzene	19.72	µg/L	1.0	98.6	85.9	113			
Toluene	20.40	µg/L	1.0	102	86.4	113			
Ethylbenzene	21.57	µg/L	1.0	108	83.5	118			
Xylenes, Total	65.05	µg/L	2.0	108	83.4	122			
1,2,4-Trimethylbenzene	22.26	µg/L	1.0	111	83.5	115			
1,3,5-Trimethylbenzene	21.29	µg/L	1.0	106	85.2	113			

Sample ID: 0902201-01A MS

MS

Batch ID: R32481 Analysis Date: 2/20/2009 2:12:18 AM

Methyl tert-butyl ether (MTBE)	20.12	µg/L	2.5	96.8	51.2	138			
Benzene	19.16	µg/L	1.0	95.8	85.9	113			
Toluene	19.69	µg/L	1.0	97.8	86.4	113			
Ethylbenzene	20.44	µg/L	1.0	102	83.5	118			
Xylenes, Total	62.16	µg/L	2.0	104	83.4	122			
1,2,4-Trimethylbenzene	21.07	µg/L	1.0	105	83.5	115			
1,3,5-Trimethylbenzene	20.42	µg/L	1.0	102	85.2	113			

Qualifiers:

- | | | | |
|---|--|----|--|
| E | Estimated value | 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 |

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name WESTERN REFINING GALLU

Date Received:

2/19/2009

Work Order Number 0902201

Received by:

TLS

Checklist completed by:

YJ
Signature

2/19/09
Date

Sample ID labels checked by:

TS
Initials

Matrix:

Carrier name: UPS

- 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

Client: ~~Go~~ Western Refinery

Gallup Refinery

Mailing Address:

Rt. 3, Box 7

Phone #: 505 722 0231

email or Fax#: 505 722 0210

QA/QC Package:

Standard Level 4 (Full Validation)

Other _____

EDD (Type) _____

Turn-Around Time:
 Standard Rush

Project Name:
 1st QTR 2009

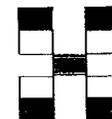
Project #:
 N APIS

Project Manager:
 G. Rajen

Sampler: Cheryl Johnson

On Ice: Yes No

Sample Temperature: 5



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No	BTEX + MTBE + TMB's (8021B)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Antons (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Air Bubbles (Y/N)	
2-17-09	1130	H ₂ O	NAPIS-1	3-VDA	HCl	09102201	X												
2-17-09	1140	H ₂ O	NAPIS-2	3-VDA	HCl		X												
2-17-09	1150	H ₂ O	KA-3	3-VDA	HCl		X												
2-17-09	1200	H ₂ O	NAPIS-3	3-VDA	HCl		X												

Date: 02-18-09 Time: 12:00 Relinquished by:

Received by: Date: 2/19/09 Time: 945

Remarks:

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly noted on the analytical report.