

Monzeglio, Hope, NMENV

From: Rajen, Gaurav [Gaurav.Rajen@wnr.com]
Sent: Wednesday, October 29, 2008 10:45 AM
To: Monzeglio, Hope, NMENV
Cc: Chavez, Carl J, EMNRD; Cobrain, Dave, NMENV; Riege, Ed; Johnson, Cheryl; Dorsey, Alvin
Subject: Monitoring of NAPIS wells in September 2008
Attachments: 0807149.pdf; 0810065.pdf; Comparison July and Sep.xls

October 29, 2008

Hope Monzeglio
Hazardous Waste Bureau
NMED

Dear Hope:

It is a pleasure to send you the laboratory results for the NAPIS wells, NAPIS-1 (formerly also identified as KA1R), NAPIS-2 (formerly also identified as KA2R) and NAPIS-3 (formerly also identified as KA3R), for samples that we collected on September 30, 2008; as well as details of our well gauging, purging and testing of basic water quality parameters in the field. These results from the laboratory were received on October 17, 2008.

Our original sampling event was set for September 23, 2008, and so we purged the wells on September 22, 2008, as the monitoring well NAPIS-3 (formerly KA3R) has been found to take a day to recharge. However, we were unable to sample on September 23, 2008 due to personnel unavailability; and had to reschedule the sampling event to September 30, 2008. Details of our efforts are presented below.

On September 30, 2008, we found that the wells are now beginning to run dry. Well NAPIS-3 was dry and had not recharged at all from previous purging on September 22, 2008; wells NAPIS-1 and NAPIS-2 could not be purged of three well volumes on September 30, 2008, both had begun to recharge at very low rates, and we were unable to collect enough water volumes to run all the tests planned. The volumes we collected have allowed us to conduct DRO, MRO, GRO, BTEX and Volatiles, and COD analyses on NAPIS-1 and NAPIS-2. For NAPIS-1 we were able to get an additional volume that enabled us to also test for basic metals.

On September 30, 2008, we waited several hours to collect more volumes of the samples but were unable to get any additional water out of these wells. We also returned to the wells on October 1, 2008, and again on October 2, 2008, to collect more volumes of water if possible and found that the wells were still dry. Our next scheduled sampling event is for mid-November 2008. We hope to have sufficient volumes of water at that time to run all our planned tests.

We believe that the fact of the wells not having much water is indicative of the wells intersecting a perched body of groundwater that may get recharged seasonally from the surface, but that does not connect to a continuing and major source of groundwater from a shallow aquifer.

Details of well gauging and purging; and basic water quality parameters collected in the field:

NAPIS 1 (formerly also KA1R)

9/22/2008

Depth to bottom: 14.0 feet

Depth to water surface: 8.92 feet

Three well volumes calculated as 2.5 gallons and purged.

On September 30, 2008, the depth to water was again approximately 8.9 feet, but there was insufficient water flow and recharge to purge the well of three well volumes – after approximately 1 gallon was purged and recharge found to be very slow, we collected as many bottles of water volumes as possible. However, the water volume was insufficient to conduct all the planned laboratory tests. We returned again to the well on October 1 and October 2, 2008, and found it to be still dry.

Temperature: 21.4 degrees C

Specific Conductivity 2.374 milliSiemens/cm

pH – 7.21

Salinity 1.2 ppt

Dissolved Oxygen – 0.76 mg/L

10/29/2008

NAPIS 2 (formerly also KA2R)

9/22/2008

Depth to bottom: 14.5 feet

Depth to water surface: 9.27 feet

Three well volumes calculated as approximately 3 gallons and purged.

On September 30, 2008, the depth to water was again approximately 9.2 feet, but there was insufficient water flow and recharge to purge the well of three well volumes – after approximately 1 gallon was purged and recharge found to be very slow, we collected as many bottles of water volumes as possible. However, the water volume was insufficient to conduct all the planned laboratory tests. We returned again to the well on October 1 and October 2, 2008, and found it to be still dry.

Temperature: 25.5 degrees C

Specific Conductivity 1.665 milliSiemens/cm

pH – 7.08

Salinity 0.8 ppt

Dissolved Oxygen – 0.44 mg/L

NAPIS 3 (formerly also KA3R)

9/22/2008

Depth to bottom: 30.7 feet

Depth to water surface: 8.23 feet

Three well volumes calculated as approximately 11 gallons and purged.

On September 30, 2008, the well was found to be dry. We returned again to the well on October 1 and October 2, 2008, and found it to be still dry.

No data on water quality parameters could be obtained as the well was dry

Basic parameter data were collected using a pH-Conductivity probe and meter and a separate Dissolved Oxygen probe and meter manufactured by YSI. The probes were calibrated according to the manufacturer's specifications.

We collected water samples into containers supplied by the analytical laboratory. The filled sample containers were kept in an ice cooler while in the field and in a locked shed inside a refrigerated cooler before final shipment. The containers were shipped in an ice cooler packed with ice on October 2, 2008, and reached the analytical laboratory on October 3, 2008.

Copies of the laboratory reports from our September sampling event are attached. I have also attached a copy of our laboratory results from July 2008. You will notice that for those results that can be compared, such as for DRO, MRO, GRO, and BTEX/Volatiles in NAPIS-2, the levels are lower for some constituents and not much higher for others in September 2008 than they were in July, 2008. I have attached a Table that compares these data for July and for September for NAPIS-2. The well NAPIS-1 has had non-detectable levels for the hydrocarbons tested – in July as well as in September, 2008.

We look forward to your comments.

With my best regards,

Gaurav Rajen, Ph.D.

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

10/29/2008

Comparison of Sampling Results for NAPIS-2 from July and September 2008 for NAPIS-2

Units	DRO mg/L	MRO	GRO mg/L	Benzene mg/L	Toluene mg/L	Ethylbenzene mg/L	Xylene mg/L	1,2,4 Trimethylbenzene mg/L
Jul-08	2.4	<5.0	0.74	0.013	<0.001	0.011	0.0056	0.014
Sep-08	3.9	7.7	0.45	0.016	<0.001	0.0016	0.0041	0.01

Comparison of Basic Water Quality Parameters from July and September 2008 for NAPIS-2

Units	pH	Specific Conductivity milliSiemens/cm	Salinity ppt	Dissolved Oxygen mg/L
Jul-08	7.18	1.759	0.9	0.33
Sep-08	7.08	1.665	0.8	0.44



COVER LETTER

Tuesday, July 29, 2008

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

TEL: (505) 722-3833
FAX (505) 722-0210

RE: NAPIS

Order No.: 0807149

Dear Gaurav Rajen:

Hall Environmental Analysis Laboratory, Inc. received 3 sample(s) on 7/11/2008 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,



Andy Freeman, Business Manager
Nancy McDuffie, Laboratory Manager

NM Lab # NM9425
AZ license # AZ0682
ORELAP Lab # NM100001



Hall Environmental Analysis Laboratory, Inc.

Date: 29-Jul-08

CLIENT: Western Refining Southwest, Gallup
Project: NAPIS
Lab Order: 0807149

CASE NARRATIVE

Analytical Comments for METHOD 8015GRO_W, SAMPLE 0807149-02A: Elevated surrogate due to matrix interference. Analytical Comments for METHOD 8021BTEX_W, SAMPLE 0807149-02A: Surrogate elevated due to matrix interference.

Hall Environmental Analysis Laboratory, Inc.

Date: 29-Jul-08

CLIENT: Western Refining Southwest, Gallup **Client Sample ID:** KA1R-7-9-08
Lab Order: 0807149 **Collection Date:** 7/9/2008 1:30:00 PM
Project: NAPIS **Date Received:** 7/11/2008
Lab ID: 0807149-01 **Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: SCC
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	7/15/2008 2:48:29 AM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	7/15/2008 2:48:29 AM
Surr: DNOP	116	58-140		%REC	1	7/15/2008 2:48:29 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	7/17/2008 1:44:28 AM
Surr: BFB	87.9	79.2-121		%REC	1	7/17/2008 1:44:28 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	2.5		µg/L	1	7/17/2008 1:44:28 AM
Benzene	ND	1.0		µg/L	1	7/17/2008 1:44:28 AM
Toluene	ND	1.0		µg/L	1	7/17/2008 1:44:28 AM
Ethylbenzene	ND	1.0		µg/L	1	7/17/2008 1:44:28 AM
Xylenes, Total	ND	2.0		µg/L	1	7/17/2008 1:44:28 AM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	7/17/2008 1:44:28 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	7/17/2008 1:44:28 AM
Surr: 4-Bromofluorobenzene	88.7	68.9-122		%REC	1	7/17/2008 1:44:28 AM
EPA METHOD 300.0: ANIONS						Analyst: IC
Fluoride	1.4	0.10		mg/L	1	7/19/2008 3:48:51 AM
Chloride	180	1.0		mg/L	10	7/19/2008 4:08:16 AM
Nitrate (As N)+Nitrite (As N)	ND	1.0		mg/L	5	7/19/2008 4:23:41 AM
Phosphorus, Orthophosphate (As P)	ND	0.50	H	mg/L	1	7/19/2008 3:48:51 AM
Sulfate	98	5.0		mg/L	10	7/19/2008 4:08:16 AM
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: TES
Calcium	70	0.50		mg/L	1	7/22/2008 12:36:30 PM
Magnesium	12	0.50		mg/L	1	7/22/2008 12:36:30 PM
Potassium	2.1	1.0		mg/L	1	7/22/2008 12:36:30 PM
Sodium	430	5.0		mg/L	10	7/22/2008 2:33:52 PM
EPA 120.1: SPECIFIC CONDUCTANCE						Analyst: KMS
Specific Conductance	1900	0.010		µmhos/cm	1	7/14/2008
SM4500-H+B: PH						Analyst: KMS
pH	7.27	0.1		pH units	1	7/12/2008

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: 29-Jul-08

CLIENT: Western Refining Southwest, Gallup
Lab Order: 0807149
Project: NAPIS
Lab ID: 0807149-02

Client Sample ID: KA2R-7-9-08
Collection Date: 7/9/2008 1:45:00 PM
Date Received: 7/11/2008
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: SCC
Diesel Range Organics (DRO)	2.4	1.0		mg/L	1	7/15/2008 3:23:55 AM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	7/15/2008 3:23:55 AM
Surr: DNOP	129	58-140		%REC	1	7/15/2008 3:23:55 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	0.74	0.050		mg/L	1	7/17/2008 2:14:46 AM
Surr: BFB	163	79.2-121	S	%REC	1	7/17/2008 2:14:46 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	200	12		µg/L	5	7/22/2008 12:22:00 AM
Benzene	13	1.0		µg/L	1	7/17/2008 2:14:46 AM
Toluene	ND	1.0		µg/L	1	7/17/2008 2:14:46 AM
Ethylbenzene	11	1.0		µg/L	1	7/17/2008 2:14:46 AM
Xylenes, Total	5.6	2.0		µg/L	1	7/17/2008 2:14:46 AM
1,2,4-Trimethylbenzene	14	1.0		µg/L	1	7/17/2008 2:14:46 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	7/17/2008 2:14:46 AM
Surr: 4-Bromofluorobenzene	122	68.9-122		%REC	1	7/17/2008 2:14:46 AM
EPA METHOD 300.0: ANIONS						Analyst: IC
Fluoride	1.1	0.10		mg/L	1	7/19/2008 4:41:05 AM
Chloride	270	1.0		mg/L	10	7/19/2008 4:58:30 AM
Nitrate (As N)+Nitrite (As N)	ND	1.0		mg/L	5	7/19/2008 5:15:54 AM
Phosphorus, Orthophosphate (As P)	ND	0.50	H	mg/L	1	7/19/2008 4:41:05 AM
Sulfate	33	0.50		mg/L	1	7/19/2008 4:41:05 AM
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: TES
Calcium	70	0.50		mg/L	1	7/22/2008 12:40:26 PM
Magnesium	13	0.50		mg/L	1	7/22/2008 12:40:26 PM
Potassium	ND	1.0		mg/L	1	7/22/2008 12:40:26 PM
Sodium	360	5.0		mg/L	10	7/22/2008 2:36:30 PM
EPA 120.1: SPECIFIC CONDUCTANCE						Analyst: KMS
Specific Conductance	2000	0.010		µmhos/cm	1	7/14/2008
SM4500-H+B: PH						Analyst: KMS
pH	7.18	0.1		pH units	1	7/12/2008

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

Hall Environmental Analysis Laboratory, Inc.

Date: 29-Jul-08

CLIENT: Western Refining Southwest, Gallup
Lab Order: 0807149
Project: NAPIS
Lab ID: 0807149-03

Client Sample ID: KA3R-7-9-08
Collection Date: 7/9/2008 2:00:00 PM
Date Received: 7/11/2008
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						
Analyst: SCC						
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	7/15/2008 3:59:21 AM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	7/15/2008 3:59:21 AM
Surr: DNOP	113	58-140		%REC	1	7/15/2008 3:59:21 AM
EPA METHOD 8015B: GASOLINE RANGE						
Analyst: NSB						
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	7/17/2008 3:16:38 AM
Surr: BFB	95.8	79.2-121		%REC	1	7/17/2008 3:16:38 AM
EPA METHOD 8021B: VOLATILES						
Analyst: NSB						
Methyl tert-butyl ether (MTBE)	ND	2.5		µg/L	1	7/17/2008 3:16:38 AM
Benzene	ND	1.0		µg/L	1	7/17/2008 3:16:38 AM
Toluene	ND	1.0		µg/L	1	7/17/2008 3:16:38 AM
Ethylbenzene	ND	1.0		µg/L	1	7/17/2008 3:16:38 AM
Xylenes, Total	ND	2.0		µg/L	1	7/17/2008 3:16:38 AM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	7/17/2008 3:16:38 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	7/17/2008 3:16:38 AM
Surr: 4-Bromofluorobenzene	102	68.9-122		%REC	1	7/17/2008 3:16:38 AM
EPA METHOD 300.0: ANIONS						
Analyst: IC						
Fluoride	0.46	0.10		mg/L	1	7/19/2008 5:33:19 AM
Chloride	1100	5.0		mg/L	50	7/21/2008 11:15:05 PM
Nitrate (As N)+Nitrite (As N)	9.1	1.0		mg/L	5	7/19/2008 6:08:07 AM
Phosphorus, Orthophosphate (As P)	ND	0.50	H	mg/L	1	7/19/2008 5:33:19 AM
Sulfate	270	5.0		mg/L	10	7/19/2008 5:50:43 AM
EPA 6010B: TOTAL RECOVERABLE METALS						
Analyst: TES						
Calcium	65	0.50		mg/L	1	7/22/2008 12:45:58 PM
Magnesium	7.8	0.50		mg/L	1	7/22/2008 12:45:58 PM
Potassium	4.1	1.0		mg/L	1	7/22/2008 12:45:58 PM
Sodium	910	5.0		mg/L	10	7/22/2008 2:39:08 PM
EPA 120.1: SPECIFIC CONDUCTANCE						
Analyst: KMS						
Specific Conductance	4200	0.010		µmhos/cm	1	7/14/2008
SM4500-H+B: PH						
Analyst: KMS						
pH	8.29	0.1		pH units	1	7/12/2008

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: NAPIS

Work Order: 0807149

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 300.0: Anions

Sample ID: MB *MBLK* Batch ID: R29396 Analysis Date: 7/18/2008 10:24:17 AM

Fluoride	ND	mg/L	0.10
Chloride	ND	mg/L	0.10
Nitrate (As N)+Nitrite (As N)	ND	mg/L	0.20
Phosphorus, Orthophosphate (As P)	ND	mg/L	0.50
Sulfate	ND	mg/L	0.50

Sample ID: MB *MBLK* Batch ID: R29420 Analysis Date: 7/21/2008 10:11:47 AM

Fluoride	ND	mg/L	0.10
Chloride	ND	mg/L	0.10
Nitrate (As N)+Nitrite (As N)	ND	mg/L	0.20
Phosphorus, Orthophosphate (As P)	ND	mg/L	0.50
Sulfate	ND	mg/L	0.50

Sample ID: LCS *LCS* Batch ID: R29396 Analysis Date: 7/18/2008 10:41:42 AM

Fluoride	0.5479	mg/L	0.10	110	90	110
Chloride	4.888	mg/L	0.10	97.8	90	110
Nitrate (As N)+Nitrite (As N)	3.459	mg/L	0.20	98.8	90	110
Phosphorus, Orthophosphate (As P)	5.152	mg/L	0.50	103	90	110
Sulfate	10.15	mg/L	0.50	101	90	110

Sample ID: LCS *LCS* Batch ID: R29420 Analysis Date: 7/21/2008 10:29:11 AM

Fluoride	0.5309	mg/L	0.10	106	90	110
Chloride	4.923	mg/L	0.10	98.5	90	110
Nitrate (As N)+Nitrite (As N)	3.535	mg/L	0.20	101	90	110
Phosphorus, Orthophosphate (As P)	5.119	mg/L	0.50	102	90	110
Sulfate	10.31	mg/L	0.50	103	90	110

Method: EPA Method 8015B: Diesel Range

Sample ID: MB-16473 *MBLK* Batch ID: 16473 Analysis Date: 7/14/2008 7:07:59 PM

Diesel Range Organics (DRO)	ND	mg/L	1.0
Motor Oil Range Organics (MRO)	ND	mg/L	5.0

Sample ID: LCS-16473 *LCS* Batch ID: 16473 Analysis Date: 7/14/2008 7:43:41 PM

Diesel Range Organics (DRO)	4.589	mg/L	1.0	91.8	74	157
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Sample ID: LCSD-16473 *LCSD* Batch ID: 16473 Analysis Date: 7/14/2008 8:19:21 PM

Diesel Range Organics (DRO)	5.714	mg/L	1.0	114	74	157	21.8	23
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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: NAPIS

Work Order: 0807149

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8015B: Gasoline Range									
Sample ID: 0807149-03A MSD		MSD							
Gasoline Range Organics (GRO)	0.4500	mg/L	0.050	90.0	80	115	1.02	8.39	
Sample ID: 5ML RB		MBLK							
Gasoline Range Organics (GRO)	ND	mg/L	0.050						
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)	0.4832	mg/L	0.050	96.6	80	115			
Sample ID: 2.5UG GRO LCS		LCS							
Gasoline Range Organics (GRO)	0.4662	mg/L	0.050	93.2	80	115			
Sample ID: 0807149-03A MS		MS							
Gasoline Range Organics (GRO)	0.4546	mg/L	0.050	90.9	80	115			

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: NAPIS

Work Order: 0807149

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8021B: Volatiles									
Sample ID: 0807149-03A MSD		<i>MSD</i>				Batch ID: R29364	Analysis Date: 7/17/2008 4:16:35 AM		
Methyl tert-butyl ether (MTBE)	7.444	µg/L	2.5	88.9	51.2	138	0.429	28	
Benzene	6.054	µg/L	1.0	108	85.9	113	0.265	27	
Toluene	41.71	µg/L	1.0	104	86.4	113	0.507	19	
Ethylbenzene	8.308	µg/L	1.0	104	83.5	118	1.81	10	
Xylenes, Total	49.01	µg/L	2.0	94.3	83.4	122	1.08	13	
1,2,4-Trimethylbenzene	14.54	µg/L	1.0	86.6	83.5	115	2.75	21	
1,3,5-Trimethylbenzene	4.322	µg/L	1.0	92.0	85.2	113	2.24	10	
Sample ID: 5ML RB		<i>MBLK</i>				Batch ID: R29364	Analysis Date: 7/16/2008 8:34:28 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: 5ML RB		<i>MBLK</i>				Batch ID: R29388	Analysis Date: 7/17/2008 8:40:27 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: b 32		<i>MBLK</i>				Batch ID: R29417	Analysis Date: 7/21/2008 11:49:12 PM		
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		<i>LCS</i>				Batch ID: R29364	Analysis Date: 7/17/2008 5:46:32 AM		
Methyl tert-butyl ether (MTBE)	16.45	µg/L	2.5	82.3	51.2	138			
Benzene	19.79	µg/L	1.0	98.9	85.9	113			
Toluene	20.62	µg/L	1.0	103	86.4	113			
Ethylbenzene	20.31	µg/L	1.0	102	83.5	118			
Xylenes, Total	60.92	µg/L	2.0	102	83.4	122			
1,2,4-Trimethylbenzene	18.61	µg/L	1.0	93.1	83.5	115			
1,3,5-Trimethylbenzene	18.34	µg/L	1.0	91.7	85.2	113			
Sample ID: 100NG BTEX LCS		<i>LCS</i>				Batch ID: R29388	Analysis Date: 7/18/2008 12:05:29 AM		
Methyl tert-butyl ether (MTBE)	14.81	µg/L	2.5	74.0	51.2	138			
Benzene	19.36	µg/L	1.0	96.8	85.9	113			
Toluene	20.09	µg/L	1.0	100	86.4	113			

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: NAPIS

Work Order: 0807149

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
---------	--------	-------	-----	------	----------	-----------	------	----------	------

Method: EPA Method 8021B: Volatiles

Sample ID: 100NG BTEX LCS

LCS

Batch ID: R29388

Analysis Date: 7/18/2008 12:05:29 AM

Ethylbenzene	20.02	µg/L	1.0	100	83.5	118			
Xylenes, Total	60.00	µg/L	2.0	100	83.4	122			
1,2,4-Trimethylbenzene	19.27	µg/L	1.0	96.4	83.5	115			
1,3,5-Trimethylbenzene	18.74	µg/L	1.0	93.7	85.2	113			

Sample ID: 100NG BTEX ICV

LCS

Batch ID: R29417

Analysis Date: 7/21/2008 10:49:01 PM

Methyl tert-butyl ether (MTBE)	20.73	µg/L	2.5	104	51.2	138			
Benzene	21.12	µg/L	1.0	104	85.9	113			
Toluene	21.57	µg/L	1.0	108	86.4	113			
Ethylbenzene	21.66	µg/L	1.0	107	83.5	118			
Xylenes, Total	64.86	µg/L	2.0	107	83.4	122			
1,2,4-Trimethylbenzene	21.46	µg/L	1.0	106	83.5	115			
1,3,5-Trimethylbenzene	20.64	µg/L	1.0	103	85.2	113			

Sample ID: 0807149-03A MS

MS

Batch ID: R29364

Analysis Date: 7/17/2008 3:46:38 AM

Methyl tert-butyl ether (MTBE)	7.476	µg/L	2.5	89.3	51.2	138			
Benzene	6.038	µg/L	1.0	108	85.9	113			
Toluene	41.92	µg/L	1.0	105	86.4	113			
Ethylbenzene	8.460	µg/L	1.0	106	83.5	118			
Xylenes, Total ^a	49.54	µg/L	2.0	95.3	83.4	122			
1,2,4-Trimethylbenzene	14.95	µg/L	1.0	89.0	83.5	115			
1,3,5-Trimethylbenzene	4.420	µg/L	1.0	94.0	85.2	113			

Method: EPA 6010B: Total Recoverable Metals

Sample ID: MB-16519

MBLK

Batch ID: 16519

Analysis Date: 7/22/2008 2:20:49 PM

Calcium	ND	mg/L	0.50						
Magnesium	ND	mg/L	0.50						
Potassium	ND	mg/L	1.0						
Sodium	ND	mg/L	0.50						

Sample ID: LCS-16519

LCS

Batch ID: 16519

Analysis Date: 7/22/2008 12:27:25 PM

Calcium	50.51	mg/L	0.50	101	80	120			
Magnesium	50.59	mg/L	0.50	101	80	120			
Potassium	51.78	mg/L	1.0	104	80	120			
Sodium	53.76	mg/L	0.50	108	80	120			

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

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name WESTERN REFINING GALLU

Date Received: 7/11/2008

Work Order Number 0807149

Received by: TLS

Checklist completed by:

Anne Mon
Signature

7/11/08
Date

Sample ID labels checked by:

AK
Initials

Matrix:

Carrier name FedEx

- 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? 4° <6° C Acceptable
If given sufficient time to cool.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

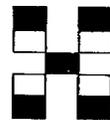
Comments: *per CR use collection times + ID's on bottles / AK 7/11/08*

Corrective Action _____

Chain-of-Custody Record

Client: Western
Gallup Refinery
 Address: Rt 3 Box 7
Gallup NM
 Phone #:
 email or Fax#:
 QA/QC Package:
 Standard Level 4 (Full Validation)
 Other _____
 EDD (Type) _____

Turn-Around Time:
 Standard Rush
 Project Name:
NAPIS
 Project #:
NAPIS-7-9-08
 Project Manager:
Gaurav Rajen@wnr.com
 Sampler: Raj + Chem 1
 On Ice: Yes No
 Sample Temperature: 4



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	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX + MTBE + TMBs (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	EDC (Method 8260)	8310 (PNA or PAH)	Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Gen Chem	Air Bubbles (Y or N)	
7/9/08	1330	KA2R-7-9-08	3-VOA	HCL	0807149	X													
			3-VOA	HCL	-1	X		X											
			1-500	HNO3	-1													X	
			1-500	H2SO4	-1													X	
			1-500	None	-1													X	
	1345	KA2R-7-9-08	3-VOA	HCL	-2	X													
			3-VOA	HCL	-2			X											
			1-500	HNO3	-2													X	
			1-500	H2SO4	-2													X	
			1-500	None	-2													X	
	1400	KA2R-7-9-08	3-VOA	HCL	-3	X													
			3-VOA	HCL	-3			X											

Date: 7/10/08 Time: 1000
 Relinquished by: [Signature]

Received by: 7/11/08
Jamyehomi
 Received by: [Signature]

Remarks:
Gen Chem - Cations, Anions, pH
Conductivity
per RG 8021/6/20/08 AT 7/11/08

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 notated on the analytical report.

Chain-of-Custody Record

Client: Western

Address:

Phone #:

email or Fax#:

QA/QC Package:

Standard Level 4 (Full Validation)

Other _____

EDD (Type) _____

Turn-Around Time:

Standard Rush

Project Name:
NAPIS

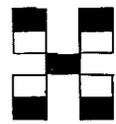
Project #:
NAPIS-7-9-08

Project Manager:
Gaurav Rajen@wnr.com

Sampler: Raj + Cheryl

On Ice: Yes No

Sample Temperature: H



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www.hallenvironmental.com
 4901 Hawkins NE - Albuquerque, NM 87109
 Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	EDC (Method 8260)	8310 (PNA or PAH)	Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Gen-Chem	Air Bubbles (Y/N)	
07/09/08	1400	KARR-7-9-08 3 KARR-7-9-08	1-500	HNO3	0807149														
/	1400	/	/	H2SO4	-3													X	
/	1400	/	/	None	-3													X	

Date: 7/10/08 Time: 1000 Relinquished by: [Signature]

Date: 7/11/08 Time: 1200 Received by: [Signature]

Remarks: Gen Chem - Cations, Anions, pH Conductivity

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.



COVER LETTER

Friday, October 17, 2008

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

TEL: (505) 722-3833

FAX (505) 722-0210

RE: NAPIS

Order No.: 0810065

Dear Gaurav Rajen:

Hall Environmental Analysis Laboratory, Inc. received 2 sample(s) on 10/3/2008 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", is written over a horizontal line.

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: 17-Oct-08

CLIENT: Western Refining Southwest, Gallup
Lab Order: 0810065
Project: NAPIS
Lab ID: 0810065-01

Client Sample ID: NAPIS-1
Collection Date: 9/30/2008 2:00:00 PM
Date Received: 10/3/2008
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: SCC
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	10/7/2008
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	10/7/2008
Surr: DNOP	105	58-140		%REC	1	10/7/2008
EPA METHOD 8015B: GASOLINE RANGE						Analyst: DAM
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	10/13/2008 4:55:44 PM
Surr: BFB	85.4	59.9-122		%REC	1	10/13/2008 4:55:44 PM
EPA METHOD 8021B: VOLATILES						Analyst: DAM
Benzene	ND	1.0		µg/L	1	10/13/2008 4:55:44 PM
Toluene	ND	1.0		µg/L	1	10/13/2008 4:55:44 PM
Ethylbenzene	ND	1.0		µg/L	1	10/13/2008 4:55:44 PM
Xylenes, Total	ND	2.0		µg/L	1	10/13/2008 4:55:44 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	10/13/2008 4:55:44 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	10/13/2008 4:55:44 PM
Surr: 4-Bromofluorobenzene	96.5	65.9-130		%REC	1	10/13/2008 4:55:44 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

Hall Environmental Analysis Laboratory, Inc.

Date: 17-Oct-08

CLIENT: Western Refining Southwest, Gallup	Client Sample ID: NAPIS-2
Lab Order: 0810065	Collection Date: 9/30/2008 2:25:00 PM
Project: NAPIS	Date Received: 10/3/2008
Lab ID: 0810065-02	Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: SCC
Diesel Range Organics (DRO)	3.9	1.0		mg/L	1	10/7/2008
Motor Oil Range Organics (MRO)	7.7	5.0		mg/L	1	10/7/2008
Surr: DNOP	112	58-140		%REC	1	10/7/2008
EPA METHOD 8015B: GASOLINE RANGE						Analyst: DAM
Gasoline Range Organics (GRO)	0.45	0.050		mg/L	1	10/13/2008 5:25:59 PM
Surr: BFB	120	59.9-122		%REC	1	10/13/2008 5:25:59 PM
EPA METHOD 8021B: VOLATILES						Analyst: DAM
Benzene	16	1.0		µg/L	1	10/13/2008 5:25:59 PM
Toluene	ND	1.0		µg/L	1	10/13/2008 5:25:59 PM
Ethylbenzene	1.6	1.0		µg/L	1	10/13/2008 5:25:59 PM
Xylenes, Total	4.1	2.0		µg/L	1	10/13/2008 5:25:59 PM
1,2,4-Trimethylbenzene	10	1.0		µg/L	1	10/13/2008 5:25:59 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	10/13/2008 5:25:59 PM
Surr: 4-Bromofluorobenzene	117	65.9-130		%REC	1	10/13/2008 5:25:59 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	



**ENVIRONMENTAL
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Mt. Juliet, TN 37122
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1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289
Est. 1970

REPORT OF ANALYSIS

October 14, 2008

Andy Freeman
Hall Environmental Analysis Laborat
4901 Hawkins NE
Albuquerque, NM 87109

ESC Sample # : L368557-01

Date Received : October 07, 2008
Description :

Site ID :

Sample ID : NAPIS-1

Project # : 0810065

Collected By :
Collection Date : 09/30/08 14:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Mercury	BDL	0.00020	mg/l	7470A	10/09/08	1
Arsenic	BDL	0.020	mg/l	6010B	10/10/08	1
Barium	0.17	0.0050	mg/l	6010B	10/10/08	1
Cadmium	BDL	0.0050	mg/l	6010B	10/10/08	1
Chromium	BDL	0.010	mg/l	6010B	10/10/08	1
Lead	BDL	0.0050	mg/l	6010B	10/10/08	1
Selenium	0.050	0.020	mg/l	6010B	10/14/08	1
Silver	BDL	0.010	mg/l	6010B	10/10/08	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

Note:
The reported analytical results relate only to the sample submitted.
This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 10/14/08 15:08 Printed: 10/14/08 15:09



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Tax I.D. 62-0814289
Est. 1970

REPORT OF ANALYSIS

Andy Freeman
Hall Environmental Analysis Laborat
4901 Hawkins NE
Albuquerque, NM 87109

October 14, 2008

Date Received : October 07, 2008
Description :
Sample ID : NAPIS-1
Collected By :
Collection Date : 09/30/08 14:00

ESC Sample # : L368557-02

Site ID :
Project # : 0810065

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
COD	26.	20.	mg/l	410.4	10/10/08	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 10/14/08 15:08 Printed: 10/14/08 15:09



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Tax I.D. 62-0814289
Est. 1970

REPORT OF ANALYSIS

Andy Freeman
Hall Environmental Analysis Laborat
4901 Hawkins NE
Albuquerque, NM 87109

October 14, 2008

Date Received : October 07, 2008
Description :
Sample ID : NAPIS-2
Collected By :
Collection Date : 09/30/08 14:25

ESC Sample # : I368557-03
Site ID :
Project # : 0810065

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
COD	92.	20.	mg/l	410.4	10/10/08	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

Note:
The reported analytical results relate only to the sample submitted.
This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 10/14/08 15:08 Printed: 10/14/08 15:09

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
 Project: NAPIS

Work Order: 0810065

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
---------	--------	-------	-----	------	----------	-----------	------	----------	------

Method: EPA Method 8015B: Diesel Range

Sample ID: MB-17284		MBLK							
					Batch ID: 17284		Analysis Date:		10/7/2008
Diesel Range Organics (DRO)	ND	mg/L	1.0						
Motor Oil Range Organics (MRO)	ND	mg/L	5.0						
Sample ID: LCS-17284		LCS			Batch ID: 17284		Analysis Date:		10/7/2008
Diesel Range Organics (DRO)	6.168	mg/L	1.0	123	74	157			
Sample ID: LCSD-17284		LCSD			Batch ID: 17284		Analysis Date:		10/7/2008
Diesel Range Organics (DRO)	6.371	mg/L	1.0	127	74	157	3.23	23	

Method: EPA Method 8015B: Gasoline Range

Sample ID: B		MBLK							
					Batch ID: R30669		Analysis Date:		10/13/2008 9:15:56 AM
Gasoline Range Organics (GRO)	ND	mg/L	0.050						
Sample ID: 2.5UG GRO LCS		LCS			Batch ID: R30669		Analysis Date:		10/13/2008 7:57:41 PM
Gasoline Range Organics (GRO)	0.5322	mg/L	0.050	106	80	115			

Method: EPA Method 8021B: Volatiles

Sample ID: B		MBLK							
					Batch ID: R30669		Analysis Date:		10/13/2008 9:15:56 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: R30669		Analysis Date:		10/13/2008 8:28:10 PM
Methyl tert-butyl ether (MTBE)	26.55	µg/L	2.5	133	51.2	138			
Benzene	20.06	µg/L	1.0	100	85.9	113			
Toluene	21.07	µg/L	1.0	105	86.4	113			
Ethylbenzene	20.74	µg/L	1.0	104	83.5	118			
Xylenes, Total	63.21	µg/L	2.0	105	83.4	122			
1,2,4-Trimethylbenzene	24.00	µg/L	1.0	120	83.5	115			S
1,3,5-Trimethylbenzene	22.42	µg/L	1.0	112	85.2	113			

Method: EPA Method 8260: Volatiles Short List

Sample ID: 5ml rb		MBLK							
					Batch ID: R30681		Analysis Date:		10/14/2008 9:45:36 AM
Methyl tert-butyl ether (MTBE)	ND	µg/L	1.0						
Sample ID: 5ml rb		MBLK			Batch ID: R30681		Analysis Date:		10/14/2008 9:45:36 AM
Methyl tert-butyl ether (MTBE)	ND	µg/L	1.0						

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:

10/3/2008

Work Order Number 0810065

Received by: ARS

Checklist completed by:

Signature

Date

Sample ID labels checked by:

Initials

Matrix:

Carrier name FedEx

- | | | | |
|---|---|---|---|
| Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| Custody seals intact on shipping container/cooler? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> Not Shipped <input type="checkbox"/> |
| Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input checked="" type="checkbox"/> |
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Water - VOA vials have zero headspace? | No VOA vials submitted <input type="checkbox"/> | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| Water - Preservation labels on bottle and cap match? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> |
| Water - pH acceptable upon receipt? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> |
| Container/Temp Blank temperature? | 4° | <6° C Acceptable
If given sufficient time to cool. | |

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

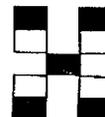
Comments: _____

Corrective Action _____

Chain-of-Custody Record

Client: WESTERN-Refining
Gallup Refinery
 Address: RT 3 Box 9
GALLUP NM 87301
 Phone #: 505 722 3227
 email or Fax#: 505 722 3839
 QA/QC Package:
 Standard Level 4 (Full Validation)
 Other _____
 EDD (Type) _____

Turn-Around Time:
 Standard Rush
 Project Name: NAPIS
 Project #: NAPIS1 NAPIS 2
NAPIS 3
 Project Manager: GAUTAU RAJEN
 Sampler: A DORSEY
 On Ice: YES NO
 Sample Temperature: 4



HALL ENVIRONMENTAL ANALYSIS LABORATORY

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4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Date	Time	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX + MTBE + TMB's (8021/B)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	EDC (Method 8260)	8310 (PNA or PAH)	Arlions (F,Cl,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	6010C PCIA METAL	Air Bubbles (Y or N)	
9/30/08	2:00	NAPIS-1	1-500ml	H ₂ SO ₄	0810065 -1													X	
9/30/08	2:00	NAPIS-1	1-500ml	HNO ₃	-1													X	
9/30/08	2:00	NAPIS-1	3-40ml	HCL	-1 - A	X													
9/30/08	2:00	NAPIS-1	3-40ml	HCL	-1 - B		X												
9/30/08	2:25	NAPIS-2	1-500ml	H ₂ SO ₄	-2 - B													X	
9/30/08	2:25	NAPIS-2	3-40ml	HCL	-2 - B	X													
9/30/08	2:25	NAPIS-2	3-40ml	HCL	-2 - B		X												

Date: 9/30/08 Time: _____ Relinquished by: [Signature]
 Received by: [Signature] 9:10 10/3/08
 Date: _____ Time: _____ Relinquished by: _____
 Received by: _____

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 notated on the analytical report.