ENTERED GRCC

Monzeglio, Hope, NMENV

From: Rajen, Gaurav [Gaurav.Rajen@wnr.com]
Sent: Monday, December 21, 2009 11:44 AM
To: Monzeglio, Hope, NMENV; Chavez, Carl J, EMNRD
Cc: Riege, Ed; Johnson, Cheryl
Subject: Data for 4th quarter on NAPIS wells
Attachments: 4th quarter.pdf

Dear Hope:

It is a pleasure to send you our analytical data, field data collection and well purging logs from the 4th quarter of sampling of the NAPIS wells. Some of our staff persons are currently on vacation, so I cannot verify the TDS value for NAPIS-3 which may need to be corrected. I am sending the laboratory analytical data and the other data to be timely in our submission, while we continue checking on this NAPIS-3 TDS reading. We will get back to you regarding the NAPIS-3 TDS value which seems low, and could represent a typographical error. It seems that it could be 1225 ppm, but was written in the logs as 1.225 ppt.

Best regards,

Raj

WELL #	NAPIS 1 (KA-1R)	NAPIS 2 (KA-2R)	NAPIS 3 (KA-3R)	KA-3
PURGE DATE	11/23/2009	11/23/2009	11/23/2009	11/23/2009
PURGE TIME	1300 hrs	1420 hrs	1050 hrs	1155 hrs
LIQUID DEPTH (FT)	10.28	9.72	21.62	9.6
DEPTH TO BTM (FT)	14	14.5	30.7	25
DIFFERENCE (FT)	3.72	4.78	9.08	15.4
1WVA (at 0.163 Gallons/ft)	0.60636	0.77914	1.48004	2.5102
3WVA'S	1.81908	2.33742	4.44012	7.5306
TEMP (DEG F)	66.2	63.1	68.1	78.1
Ph	3.99	3.92	2.62	4.05
COND	1.176 mS	1.039 mS	2.44mS	1.803 mS
DO	23.10%	18.70%	58.40%	30.50%
SAL	.591 ppt	0.511 ppt	1.25 ppt	.908 ppt
TDS	588 ppm	522 ppm	1.225 ppt	887 ppm

This inbound email has been scanned for malicious software and transmitted safely to you using Webroot Email Security.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

COVER LETTER

Thursday, December 10, 2009

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

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

RE: 4th Qtr NAPIS

Order No.: 0911470

Dear Gaurav Rajen:

Hall Environmental Analysis Laboratory, Inc. received 5 sample(s) on 11/24/2009 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,

for Andy Freeman, Laboratory Manager

NM Lab # NM9425 NM0901
AZ license # AZ0682
ORELAP Lab # NM100001
Texas Lab# T104704424-08-TX

4901 Hawkins NE ■ Suite D ■ Albuquerque, NM 87109
505.345.3975 ■ Fax 505.345.4107
www.hallenvironmental.com

Hall Environmental Analysis Laboratory, Inc.

Date: *10-Dec-09*

CLIENT: Western Refining Southwest, Gallup
Lab Order: 0911470
Project: 4th Qtr NAPIS
Lab ID: 0911470-01

Client Sample ID: NAPIS-1
Collection Date: 11/23/2009 1:15:00 PM
Date Received: 11/24/2009
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
						Analyst: **SCC**
EPA METHOD 8015B: DIESEL RANGE						
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	11/30/2009 9:41:28 AM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	11/30/2009 9:41:28 AM
Surr: DNOP	105	58-140		%REC	1	11/30/2009 9:41:28 AM
						Analyst: **NSB**
EPA METHOD 8015B: GASOLINE RANGE						
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	12/3/2009 1:16:29 PM
Surr: BFB	76.9	55.2-107		%REC	1	12/3/2009 1:16:29 PM
						Analyst: **NSB**
EPA METHOD 8021B: VOLATILES						
Methyl tert-butyl ether (MTBE)	ND	2.5		µg/L	1	12/3/2009 1:16:29 PM
Benzene	ND	1.0		µg/L	1	12/3/2009 1:16:29 PM
Toluene	1.6	1.0		µg/L	1	12/3/2009 1:16:29 PM
Ethylbenzene	ND	1.0		µg/L	1	12/3/2009 1:16:29 PM
Xylenes, Total	ND	2.0		µg/L	1	12/3/2009 1:16:29 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	12/3/2009 1:16:29 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	12/3/2009 1:16:29 PM
Surr: 4-Bromofluorobenzene	80.7	65.9-130		%REC	1	12/3/2009 1:16:29 PM
						Analyst: **JAT**
EPA METHOD 8310: PAHS						
Naphthalene	ND	2.0		µg/L	1	12/2/2009 9:13:38 PM
1-Methylnaphthalene	ND	2.0		µg/L	1	12/2/2009 9:13:38 PM
2-Methylnaphthalene	ND	2.0		µg/L	1	12/2/2009 9:13:38 PM
Acenaphthylene	ND	2.5		µg/L	1	12/2/2009 9:13:38 PM
Acenaphthene	ND	5.0		µg/L	1	12/2/2009 9:13:38 PM
Fluorene	ND	0.80		µg/L	1	12/2/2009 9:13:38 PM
Phenanthrene	ND	0.60		µg/L	1	12/2/2009 9:13:38 PM
Anthracene	ND	0.60		µg/L	1	12/2/2009 9:13:38 PM
Fluoranthene	ND	0.30		µg/L	1	12/2/2009 9:13:38 PM
Pyrene	ND	0.30		µg/L	1	12/2/2009 9:13:38 PM
Benz(a)anthracene	ND	0.070		µg/L	1	12/2/2009 9:13:38 PM
Chrysene	ND	0.20		µg/L	1	12/2/2009 9:13:38 PM
Benzo(b)fluoranthene	ND	0.10		µg/L	1	12/2/2009 9:13:38 PM
Benzo(k)fluoranthene	ND	0.070		µg/L	1	12/2/2009 9:13:38 PM
Benzo(a)pyrene	ND	0.070		µg/L	1	12/2/2009 9:13:38 PM
Dibenz(a,h)anthracene	ND	0.070		µg/L	1	12/2/2009 9:13:38 PM
Benzo(g,h,i)perylene	ND	0.080		µg/L	1	12/2/2009 9:13:38 PM
Indeno(1,2,3-cd)pyrene	ND	0.080		µg/L	1	12/2/2009 9:13:38 PM
Surr: Benzo(e)pyrene	89.9	28.3-111		%REC	1	12/2/2009 9:13:38 PM
						Analyst: **LJB**
EPA METHOD 300.0: ANIONS						
Fluoride	1.4	0.10		mg/L	1	11/24/2009 8:17:29 PM
Chloride	170	2.0		mg/L	20	11/24/2009 8:34:53 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

Hall Environmental Analysis Laboratory, Inc.

Date: *10-Dec-09*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	NAPIS-1
Lab Order:	0911470	**Collection Date:**	11/23/2009 1:15:00 PM
Project:	4th Qtr NAPIS	**Date Received:**	11/24/2009
Lab ID:	0911470-01	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: **LJB**
Nitrogen, Nitrate (As N)	1.8	0.10		mg/L	1	11/24/2009 8:17:29 PM
Phosphorus, Orthophosphate (As P)	ND	0.50		mg/L	1	11/24/2009 8:17:29 PM
Sulfate	100	10		mg/L	20	11/24/2009 8:34:53 PM
EPA METHOD 7470: MERCURY						Analyst: **IC**
Mercury	ND	0.00020		mg/L	1	11/25/2009 5:11:47 PM
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: **RAGS**
Arsenic	ND	0.020		mg/L	1	12/7/2009 6:37:11 PM
Barium	0.20	0.020		mg/L	1	12/7/2009 6:37:11 PM
Cadmium	ND	0.0020		mg/L	1	12/7/2009 6:37:11 PM
Calcium	58	1.0		mg/L	1	12/7/2009 6:37:11 PM
Chromium	0.0077	0.0060		mg/L	1	12/7/2009 6:37:11 PM
Lead	ND	0.0050		mg/L	1	12/7/2009 6:37:11 PM
Magnesium	13	1.0		mg/L	1	12/7/2009 6:37:11 PM
Potassium	3.7	1.0		mg/L	1	12/7/2009 6:37:11 PM
Selenium	ND	0.050		mg/L	1	12/7/2009 6:37:11 PM
Silver	ND	0.0050		mg/L	1	12/7/2009 6:37:11 PM
Sodium	390	5.0		mg/L	5	12/7/2009 7:53:15 PM
EPA 120.1: SPECIFIC CONDUCTANCE						Analyst: **MMS**
Specific Conductance	2000	0.010		µmhos/cm	1	12/1/2009 1:21:43 PM
SM4500-H+B: PH						Analyst: **MMS**
pH	7.39	0.1		pH units	1	11/25/2009 12:27:15 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	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: *10-Dec-09*

CLIENT: Western Refining Southwest, Gallup
Lab Order: 0911470
Project: 4th Qtr NAPIS
Lab ID: 0911470-02

Client Sample ID: NAPIS-2
Collection Date: 11/23/2009 11:40:00 AM
Date Received: 11/24/2009
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **SCC**
Diesel Range Organics (DRO)	2.7	1.0		mg/L	1	11/30/2009 10:17:57 AM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	11/30/2009 10:17:57 AM
Surr: DNOP	104	58-140		%REC	1	11/30/2009 10:17:57 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	0.78	0.050		mg/L	1	12/4/2009 12:20:27 PM
Surr: BFB	123	55.2-107	S	%REC	1	12/4/2009 12:20:27 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Methyl tert-butyl ether (MTBE)	94	2.5		µg/L	1	12/4/2009 12:20:27 PM
Benzene	32	1.0		µg/L	1	12/4/2009 12:20:27 PM
Toluene	1.0	1.0		µg/L	1	12/4/2009 12:20:27 PM
Ethylbenzene	9.3	1.0		µg/L	1	12/4/2009 12:20:27 PM
Xylenes, Total	ND	2.0		µg/L	1	12/4/2009 12:20:27 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	12/4/2009 12:20:27 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	12/4/2009 12:20:27 PM
Surr: 4-Bromofluorobenzene	107	65.9-130		%REC	1	12/4/2009 12:20:27 PM
EPA METHOD 8310: PAHS						Analyst: **JAT**
Naphthalene	46	2.0		µg/L	1	12/2/2009 9:33:48 PM
1-Methylnaphthalene	ND	2.0		µg/L	1	12/2/2009 9:33:48 PM
2-Methylnaphthalene	ND	2.0		µg/L	1	12/2/2009 9:33:48 PM
Acenaphthylene	ND	2.5		µg/L	1	12/2/2009 9:33:48 PM
Acenaphthene	ND	5.0		µg/L	1	12/2/2009 9:33:48 PM
Fluorene	9.0	0.80		µg/L	1	12/2/2009 9:33:48 PM
Phenanthrene	1.7	0.60		µg/L	1	12/2/2009 9:33:48 PM
Anthracene	ND	0.60		µg/L	1	12/2/2009 9:33:48 PM
Fluoranthene	ND	0.30		µg/L	1	12/2/2009 9:33:48 PM
Pyrene	ND	0.30		µg/L	1	12/2/2009 9:33:48 PM
Benz(a)anthracene	ND	0.070		µg/L	1	12/2/2009 9:33:48 PM
Chrysene	ND	0.20		µg/L	1	12/2/2009 9:33:48 PM
Benzo(b)fluoranthene	ND	0.10		µg/L	1	12/2/2009 9:33:48 PM
Benzo(k)fluoranthene	ND	0.070		µg/L	1	12/2/2009 9:33:48 PM
Benzo(a)pyrene	ND	0.070		µg/L	1	12/2/2009 9:33:48 PM
Dibenz(a,h)anthracene	ND	0.070		µg/L	1	12/2/2009 9:33:48 PM
Benzo(g,h,i)perylene	ND	0.080		µg/L	1	12/2/2009 9:33:48 PM
Indeno(1,2,3-cd)pyrene	ND	0.080		µg/L	1	12/2/2009 9:33:48 PM
Surr: Benzo(e)pyrene	68.4	28.3-111		%REC	1	12/2/2009 9:33:48 PM
EPA METHOD 300.0: ANIONS						Analyst: **LJB**
Fluoride	1.6	0.10		mg/L	1	11/24/2009 8:52:18 PM
Chloride	220	2.0		mg/L	20	11/24/2009 9:09:43 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

Hall Environmental Analysis Laboratory, Inc.

Date: *10-Dec-09*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	NAPIS-2
Lab Order:	0911470	**Collection Date:**	11/23/2009 11:40:00 AM
Project:	4th Qtr NAPIS	**Date Received:**	11/24/2009
Lab ID:	0911470-02	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: **LJB**
Nitrogen, Nitrate (As N)	ND	0.10		mg/L	1	11/24/2009 8:52:18 PM
Phosphorus, Orthophosphate (As P)	ND	0.50		mg/L	1	11/24/2009 8:52:18 PM
Sulfate	13	0.50		mg/L	1	11/24/2009 8:52:18 PM
EPA METHOD 7470: MERCURY						Analyst: **IC**
Mercury	ND	0.00020		mg/L	1	11/25/2009 5:13:31 PM
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: **RAGS**
Arsenic	ND	0.020		mg/L	1	12/7/2009 6:41:19 PM
Barium	1.1	0.10		mg/L	5	12/7/2009 7:56:07 PM
Cadmium	ND	0.0020		mg/L	1	12/7/2009 6:41:19 PM
Calcium	56	1.0		mg/L	1	12/7/2009 6:41:19 PM
Chromium	ND	0.0060		mg/L	1	12/7/2009 6:41:19 PM
Lead	ND	0.0050		mg/L	1	12/7/2009 6:41:19 PM
Magnesium	11	1.0		mg/L	1	12/7/2009 6:41:19 PM
Potassium	ND	1.0		mg/L	1	12/7/2009 6:41:19 PM
Selenium	ND	0.050		mg/L	1	12/7/2009 6:41:19 PM
Silver	ND	0.0050		mg/L	1	12/7/2009 6:41:19 PM
Sodium	350	5.0		mg/L	5	12/7/2009 7:56:07 PM
EPA 120.1: SPECIFIC CONDUCTANCE						Analyst: **MMS**
Specific Conductance	1500	0.010		µmhos/cm	1	12/1/2009 1:23:38 PM
SM4500-H+B: PH						Analyst: **MMS**
pH	7.16	0.1		pH units	1	11/25/2009 12:31:23 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	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: *10-Dec-09*

CLIENT: Western Refining Southwest, Gallup
Lab Order: 0911470
Project: 4th Qtr NAPIS
Lab ID: 0911470-03

Client Sample ID: NAPIS-3
Collection Date: 11/23/2009 11:10:00 AM
Date Received: 11/24/2009
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
						Analyst: **SCC**
EPA METHOD 8015B: DIESEL RANGE						
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	11/30/2009 10:54:10 AM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	11/30/2009 10:54:10 AM
Surr: DNOP	107	58-140		%REC	1	11/30/2009 10:54:10 AM
						Analyst: **NSB**
EPA METHOD 8015B: GASOLINE RANGE						
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	12/3/2009 2:47:33 PM
Surr: BFB	81.4	55.2-107		%REC	1	12/3/2009 2:47:33 PM
						Analyst: **NSB**
EPA METHOD 8021B: VOLATILES						
Methyl tert-butyl ether (MTBE)	ND	2.5		µg/L	1	12/3/2009 2:47:33 PM
Benzene	ND	1.0		µg/L	1	12/3/2009 2:47:33 PM
Toluene	ND	1.0		µg/L	1	12/3/2009 2:47:33 PM
Ethylbenzene	ND	1.0		µg/L	1	12/3/2009 2:47:33 PM
Xylenes, Total	ND	2.0		µg/L	1	12/3/2009 2:47:33 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	12/3/2009 2:47:33 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	12/3/2009 2:47:33 PM
Surr: 4-Bromofluorobenzene	86.7	65.9-130		%REC	1	12/3/2009 2:47:33 PM
						Analyst: **JAT**
EPA METHOD 8310: PAHS						
Naphthalene	ND	2.0		µg/L	1	12/2/2009 9:54:02 PM
1-Methylnaphthalene	ND	2.0		µg/L	1	12/2/2009 9:54:02 PM
2-Methylnaphthalene	ND	2.0		µg/L	1	12/2/2009 9:54:02 PM
Acenaphthylene	ND	2.5		µg/L	1	12/2/2009 9:54:02 PM
Acenaphthene	ND	5.0		µg/L	1	12/2/2009 9:54:02 PM
Fluorene	ND	0.80		µg/L	1	12/2/2009 9:54:02 PM
Phenanthrene	ND	0.60		µg/L	1	12/2/2009 9:54:02 PM
Anthracene	ND	0.60		µg/L	1	12/2/2009 9:54:02 PM
Fluoranthene	ND	0.30		µg/L	1	12/2/2009 9:54:02 PM
Pyrene	ND	0.30		µg/L	1	12/2/2009 9:54:02 PM
Benz(a)anthracene	ND	0.070		µg/L	1	12/2/2009 9:54:02 PM
Chrysene	ND	0.20		µg/L	1	12/2/2009 9:54:02 PM
Benzo(b)fluoranthene	ND	0.10		µg/L	1	12/2/2009 9:54:02 PM
Benzo(k)fluoranthene	ND	0.070		µg/L	1	12/2/2009 9:54:02 PM
Benzo(a)pyrene	ND	0.070		µg/L	1	12/2/2009 9:54:02 PM
Dibenz(a,h)anthracene	ND	0.070		µg/L	1	12/2/2009 9:54:02 PM
Benzo(g,h,i)perylene	ND	0.080		µg/L	1	12/2/2009 9:54:02 PM
Indeno(1,2,3-cd)pyrene	ND	0.080		µg/L	1	12/2/2009 9:54:02 PM
Surr: Benzo(e)pyrene	71.9	28.3-111		%REC	1	12/2/2009 9:54:02 PM
						Analyst: **LJB**
EPA METHOD 300.0: ANIONS						
Fluoride	0.49	0.10		mg/L	1	11/24/2009 9:27:08 PM
Chloride	1100	10		mg/L	100	11/25/2009 12:19:41 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

Hall Environmental Analysis Laboratory, Inc.

Date: *10-Dec-09*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	NAPIS-3
Lab Order:	0911470	**Collection Date:**	11/23/2009 11:10:00 AM
Project:	4th Qtr NAPIS	**Date Received:**	11/24/2009
Lab ID:	0911470-03	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: **LJB**
Nitrogen, Nitrate (As N)	15	2.0		mg/L	20	11/24/2009 9:44:33 PM
Phosphorus, Orthophosphate (As P)	ND	0.50		mg/L	1	11/24/2009 9:27:08 PM
Sulfate	370	10		mg/L	20	11/24/2009 9:44:33 PM
EPA METHOD 7470: MERCURY						Analyst: **IC**
Mercury	ND	0.00020		mg/L	1	11/25/2009 5:15:16 PM
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: **RAGS**
Arsenic	ND	0.020		mg/L	1	12/7/2009 6:58:49 PM
Barium	0.15	0.020		mg/L	1	12/7/2009 6:58:49 PM
Cadmium	ND	0.0020		mg/L	1	12/7/2009 6:58:49 PM
Calcium	46	1.0		mg/L	1	12/7/2009 6:58:49 PM
Chromium	0.0072	0.0060		mg/L	1	12/7/2009 6:58:49 PM
Lead	ND	0.0050		mg/L	1	12/7/2009 6:58:49 PM
Magnesium	8.8	1.0		mg/L	1	12/7/2009 6:58:49 PM
Potassium	5.4	1.0		mg/L	1	12/7/2009 6:58:49 PM
Selenium	ND	0.050		mg/L	1	12/7/2009 6:58:49 PM
Silver	ND	0.0050		mg/L	1	12/7/2009 6:58:49 PM
Sodium	930	20		mg/L	20	12/8/2009 12:21:32 PM
EPA 120.1: SPECIFIC CONDUCTANCE						Analyst: **MMS**
Specific Conductance	4400	0.010		µmhos/cm	1	12/1/2009 1:25:31 PM
SM4500-H+B: PH						Analyst: **MMS**
pH	7.91	0.1		pH units	1	11/25/2009 12:35:29 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	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: *10-Dec-09*

CLIENT: Western Refining Southwest, Gallup
Lab Order: 0911470
Project: 4th Qtr NAPIS
Lab ID: 0911470-04

Client Sample ID: KA-3
Collection Date: 11/23/2009 12:45:00 PM
Date Received: 11/24/2009
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
						Analyst: **SCC**
EPA METHOD 8015B: DIESEL RANGE						
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	11/30/2009 11:30:56 AM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	11/30/2009 11:30:56 AM
Surr: DNOP	108	58-140		%REC	1	11/30/2009 11:30:56 AM
						Analyst: **NSB**
EPA METHOD 8015B: GASOLINE RANGE						
Gasoline Range Organics (GRO)	0.19	0.050		mg/L	1	12/3/2009 3:48:16 PM
Surr: BFB	93.9	55.2-107		%REC	1	12/3/2009 3:48:16 PM
						Analyst: **NSB**
EPA METHOD 8021B: VOLATILES						
Methyl tert-butyl ether (MTBE)	77	2.5		µg/L	1	12/3/2009 3:48:16 PM
Benzene	ND	1.0		µg/L	1	12/3/2009 3:48:16 PM
Toluene	ND	1.0		µg/L	1	12/3/2009 3:48:16 PM
Ethylbenzene	ND	1.0		µg/L	1	12/3/2009 3:48:16 PM
Xylenes, Total	ND	2.0		µg/L	1	12/3/2009 3:48:16 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	12/3/2009 3:48:16 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	12/3/2009 3:48:16 PM
Surr: 4-Bromofluorobenzene	100	65.9-130		%REC	1	12/3/2009 3:48:16 PM
						Analyst: **JAT**
EPA METHOD 8310: PAHS						
Naphthalene	33	2.0		µg/L	1	12/2/2009 10:14:13 PM
1-Methylnaphthalene	22	2.0		µg/L	1	12/2/2009 10:14:13 PM
2-Methylnaphthalene	ND	2.0		µg/L	1	12/2/2009 10:14:13 PM
Acenaphthylene	ND	2.5		µg/L	1	12/2/2009 10:14:13 PM
Acenaphthene	ND	5.0		µg/L	1	12/2/2009 10:14:13 PM
Fluorene	2.9	0.80		µg/L	1	12/2/2009 10:14:13 PM
Phenanthrene	2.5	0.60		µg/L	1	12/2/2009 10:14:13 PM
Anthracene	ND	0.60		µg/L	1	12/2/2009 10:14:13 PM
Fluoranthene	ND	0.30		µg/L	1	12/2/2009 10:14:13 PM
Pyrene	ND	0.30		µg/L	1	12/2/2009 10:14:13 PM
Benz(a)anthracene	0.070	0.070		µg/L	1	12/2/2009 10:14:13 PM
Chrysene	ND	0.20		µg/L	1	12/2/2009 10:14:13 PM
Benzo(b)fluoranthene	ND	0.10		µg/L	1	12/2/2009 10:14:13 PM
Benzo(k)fluoranthene	ND	0.070		µg/L	1	12/2/2009 10:14:13 PM
Benzo(a)pyrene	ND	0.070		µg/L	1	12/2/2009 10:14:13 PM
Dibenz(a,h)anthracene	ND	0.070		µg/L	1	12/2/2009 10:14:13 PM
Benzo(g,h,i)perylene	ND	0.080		µg/L	1	12/2/2009 10:14:13 PM
Indeno(1,2,3-cd)pyrene	ND	0.080		µg/L	1	12/2/2009 10:14:13 PM
Surr: Benzo(e)pyrene	63.1	28.3-111		%REC	1	12/2/2009 10:14:13 PM
						Analyst: **LJB**
EPA METHOD 300.0: ANIONS						
Fluoride	1.3	0.10		mg/L	1	11/24/2009 10:01:58 PM
Chloride	610	5.0		mg/L	50	11/25/2009 12:37:05 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

Hall Environmental Analysis Laboratory, Inc.

Date: *10-Dec-09*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	KA-3
Lab Order:	0911470	**Collection Date:**	11/23/2009 12:45:00 PM
Project:	4th Qtr NAPIS	**Date Received:**	11/24/2009
Lab ID:	0911470-04	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: **LJB**
Nitrogen, Nitrate (As N)	3.2	0.10		mg/L	1	11/24/2009 10:01:58 PM
Phosphorus, Orthophosphate (As P)	ND	0.50		mg/L	1	11/24/2009 10:01:58 PM
Sulfate	120	10		mg/L	20	11/24/2009 10:19:23 PM
EPA METHOD 7470: MERCURY						Analyst: **IC**
Mercury	ND	0.00020		mg/L	1	11/25/2009 5:17:02 PM
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: **RAGS**
Arsenic	ND	0.020		mg/L	1	12/7/2009 7:02:42 PM
Barium	0.55	0.020		mg/L	1	12/7/2009 7:02:42 PM
Cadmium	ND	0.0020		mg/L	1	12/7/2009 7:02:42 PM
Calcium	100	5.0		mg/L	5	12/7/2009 8:04:34 PM
Chromium	ND	0.0060		mg/L	1	12/7/2009 7:02:42 PM
Lead	ND	0.0050		mg/L	1	12/7/2009 7:02:42 PM
Magnesium	19	1.0		mg/L	1	12/7/2009 7:02:42 PM
Potassium	2.0	1.0		mg/L	1	12/7/2009 7:02:42 PM
Selenium	ND	0.050		mg/L	1	12/7/2009 7:02:42 PM
Silver	ND	0.0050		mg/L	1	12/7/2009 7:02:42 PM
Sodium	480	5.0		mg/L	5	12/7/2009 8:04:34 PM
EPA 120.1: SPECIFIC CONDUCTANCE						Analyst: **MMS**
Specific Conductance	2900	0.010		µmhos/cm	1	12/1/2009 1:27:23 PM
SM4500-H+B: PH						Analyst: **MMS**
pH	7.31	0.1		pH units	1	11/25/2009 12:39:35 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	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: *10-Dec-09*

CLIENT: Western Refining Southwest, Gallup
Lab Order: 0911470
Project: 4th Qtr NAPIS
Lab ID: 0911470-05

Client Sample ID: Trip Blank
Collection Date:
Date Received: 11/24/2009
Matrix: TRIP BLANK

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	12/3/2009 4:49:04 PM
Surr: BFB	85.3	55.2-107		%REC	1	12/3/2009 4:49:04 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Methyl tert-butyl ether (MTBE)	ND	2.5		µg/L	1	12/3/2009 4:49:04 PM
Benzene	ND	1.0		µg/L	1	12/3/2009 4:49:04 PM
Toluene	ND	1.0		µg/L	1	12/3/2009 4:49:04 PM
Ethylbenzene	ND	1.0		µg/L	1	12/3/2009 4:49:04 PM
Xylenes, Total	ND	2.0		µg/L	1	12/3/2009 4:49:04 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	12/3/2009 4:49:04 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	12/3/2009 4:49:04 PM
Surr: 4-Bromofluorobenzene	92.7	65.9-130		%REC	1	12/3/2009 4:49:04 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	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		

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: 4th Qtr NAPIS

Work Order: 0911470

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 300.0: Anions											
Sample ID: MB		*MBLK*				Batch ID:	**R36326**	Analysis Date:	11/24/2009 7:42:40 PM		
Fluoride	ND	mg/L	0.10								
Chloride	ND	mg/L	0.10								
Nitrogen, Nitrate (As N)	ND	mg/L	0.10								
Phosphorus, Orthophosphate (As P)	ND	mg/L	0.50								
Sulfate	ND	mg/L	0.50								
Sample ID: MB		*MBLK*				Batch ID:	**R36344**	Analysis Date:	11/25/2009 11:44:51 AM		
Fluoride	ND	mg/L	0.10								
Chloride	ND	mg/L	0.10								
Nitrogen, Nitrate (As N)	ND	mg/L	0.10								
Phosphorus, Orthophosphate (As P)	ND	mg/L	0.50								
Sulfate	ND	mg/L	0.50								
Sample ID: LCS		*LCS*				Batch ID:	**R36326**	Analysis Date:	11/24/2009 8:00:05 PM		
Fluoride	0.5089	mg/L	0.10	0.5	0	102	90	110			
Chloride	4.999	mg/L	0.10	5	0	100	90	110			
Nitrogen, Nitrate (As N)	2.548	mg/L	0.10	2.5	0	102	90	110			
Phosphorus, Orthophosphate (As P)	5.084	mg/L	0.50	5	0	102	90	110			
Sulfate	10.03	mg/L	0.50	10	0	100	90	110			
Sample ID: LCS		*LCS*				Batch ID:	**R36344**	Analysis Date:	11/25/2009 12:02:16 PM		
Fluoride	0.5325	mg/L	0.10	0.5	0	107	90	110			
Chloride	5.149	mg/L	0.10	5	0	103	90	110			
Nitrogen, Nitrate (As N)	2.643	mg/L	0.10	2.5	0	106	90	110			
Phosphorus, Orthophosphate (As P)	5.289	mg/L	0.50	5	0	106	90	110			
Sulfate	10.47	mg/L	0.50	10	0	105	90	110			
Method: EPA Method 8015B: Diesel Range											
Sample ID: MB-20702		*MBLK*				Batch ID:	**20702**	Analysis Date:	11/29/2009 7:23:03 PM		
Diesel Range Organics (DRO)	ND	mg/L	1.0								
Motor Oil Range Organics (MRO)	ND	mg/L	5.0								
Sample ID: LCS-20702		*LCS*				Batch ID:	**20702**	Analysis Date:	11/29/2009 7:58:44 PM		
Diesel Range Organics (DRO)	5.932	mg/L	1.0	5	0	119	74	157			
Method: EPA Method 8015B: Gasoline Range											
Sample ID: 5ML RB		*MBLK*				Batch ID:	**R36424**	Analysis Date:	12/3/2009 9:43:08 AM		
Gasoline Range Organics (GRO)	ND	mg/L	0.050								
Sample ID: 5ML RB		*MBLK*				Batch ID:	**R36448**	Analysis Date:	12/4/2009 9:48:19 AM		
Gasoline Range Organics (GRO)	ND	mg/L	0.050								
Sample ID: 2.5UG GRO LCS		*LCS*				Batch ID:	**R36424**	Analysis Date:	12/3/2009 7:50:57 PM		
Gasoline Range Organics (GRO)	0.4506	mg/L	0.050	0.5	0	90.1	80	115			

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

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: 4th Qtr NAPIS

Work Order: 0911470

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8021B: Volatiles											
Sample ID: 5ML RB		*MBLK*				Batch ID:	**R36424**	Analysis Date:	12/3/2009 9:43:08 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		*MBLK*				Batch ID:	**R36448**	Analysis Date:	12/4/2009 9:48:19 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:	**R36424**	Analysis Date:	12/3/2009 9:24:43 PM		
Methyl tert-butyl ether (MTBE)	16.98	µg/L	2.5	20	0.144	84.2	51.2	138			
Benzene	21.02	µg/L	1.0	20	0	105	85.9	113			
Toluene	20.84	µg/L	1.0	20	0	104	86.4	113			
Ethylbenzene	20.38	µg/L	1.0	20	0.088	101	83.5	118			
Xylenes, Total	61.05	µg/L	2.0	60	0	102	83.4	122			
1,2,4-Trimethylbenzene	19.63	µg/L	1.0	20	0.29	96.7	83.5	115			
1,3,5-Trimethylbenzene	19.33	µg/L	1.0	20	0.12	96.1	85.2	113			

Qualifiers:

E Estimated value
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: 4th Qtr NAPIS
Work Order: 0911470

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8310: PAHs											
Sample ID: MB-20743		*MBLK*				Batch ID:	**20743**	Analysis Date:	12/2/2009 8:13:09 PM		
Naphthalene	ND	µg/L	2.0								
1-Methylnaphthalene	ND	µg/L	2.0								
2-Methylnaphthalene	ND	µg/L	2.0								
Acenaphthylene	ND	µg/L	2.5								
Acenaphthene	ND	µg/L	5.0								
Fluorene	ND	µg/L	0.80								
Phenanthrene	ND	µg/L	0.60								
Anthracene	ND	µg/L	0.60								
Fluoranthene	ND	µg/L	0.30								
Pyrene	ND	µg/L	0.30								
Benz(a)anthracene	ND	µg/L	0.070								
Chrysene	ND	µg/L	0.20								
Benzo(b)fluoranthene	ND	µg/L	0.10								
Benzo(k)fluoranthene	ND	µg/L	0.070								
Benzo(a)pyrene	ND	µg/L	0.070								
Dibenz(a,h)anthracene	ND	µg/L	0.070								
Benzo(g,h,i)perylene	ND	µg/L	0.080								
Indeno(1,2,3-cd)pyrene	ND	µg/L	0.080								
Sample ID: LCS-20743		*LCS*				Batch ID:	**20743**	Analysis Date:	12/2/2009 8:33:18 PM		
Naphthalene	60.57	µg/L	2.0	80	0	75.7	20.5	109			
1-Methylnaphthalene	67.54	µg/L	2.0	80.2	0	84.2	23.1	116			
2-Methylnaphthalene	61.70	µg/L	2.0	80	0	77.1	19.5	112			
Acenaphthylene	60.20	µg/L	2.5	80.2	0	75.1	27.5	119			
Acenaphthene	69.28	µg/L	5.0	80	0	86.6	31	117			
Fluorene	3.800	µg/L	0.80	8.02	0	47.4	17.1	109			
Phenanthrene	2.500	µg/L	0.60	4.02	0	62.2	25.5	112			
Anthracene	3.350	µg/L	0.60	4.02	0	83.3	25.8	119			
Fluoranthene	6.150	µg/L	0.30	8.02	0	76.7	27.2	122			
Pyrene	5.620	µg/L	0.30	8.02	0	70.1	24.1	118			
Benz(a)anthracene	0.6700	µg/L	0.070	0.802	0	83.5	31.1	125			
Chrysene	3.240	µg/L	0.20	4.02	0	80.6	32.8	119			
Benzo(b)fluoranthene	0.7200	µg/L	0.10	1.002	0	71.9	24.4	117			
Benzo(k)fluoranthene	0.6200	µg/L	0.070	0.5	0	124	28.4	132			
Benzo(a)pyrene	0.3800	µg/L	0.070	0.502	0	75.7	32.4	119			
Dibenz(a,h)anthracene	0.7800	µg/L	0.070	1.002	0	77.8	33.9	120			
Benzo(g,h,i)perylene	0.7300	µg/L	0.080	1	0	73.0	35.2	113			
Indeno(1,2,3-cd)pyrene	1.710	µg/L	0.080	2.004	0	85.3	33.6	115			
Method: EPA Method 7470: Mercury											
Sample ID: MB-20729		*MBLK*				Batch ID:	**20729**	Analysis Date:	11/25/2009 4:41:21 PM		
Mercury	ND	mg/L	0.00020								
Sample ID: LCS-20729		*LCS*				Batch ID:	**20729**	Analysis Date:	11/25/2009 4:43:07 PM		
Mercury	0.005101	mg/L	0.00020	0.005	0	102	80	120			

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

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: 4th Qtr NAPIS
Work Order: 0911470

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA 6010B: Total Recoverable Metals											
Sample ID: MB-20747		*MBLK*				Batch ID:	**20747**	Analysis Date:	12/1/2009 1:49:50 PM		
Arsenic	ND	mg/L	0.020								
Cadmium	ND	mg/L	0.0020								
Calcium	ND	mg/L	0.50								
Chromium	ND	mg/L	0.0060								
Lead	ND	mg/L	0.0050								
Magnesium	ND	mg/L	0.50								
Potassium	ND	mg/L	1.0								
Selenium	ND	mg/L	0.050								
Sodium	ND	mg/L	0.50								
Sample ID: MB-SPLP #2		*MBLK*				Batch ID:	**20747**	Analysis Date:	12/1/2009 1:55:59 PM		
Arsenic	ND	mg/L	0.020								
Cadmium	ND	mg/L	0.0020								
Calcium	ND	mg/L	0.50								
Chromium	ND	mg/L	0.0060								
Lead	ND	mg/L	0.0050								
Magnesium	ND	mg/L	0.50								
Potassium	ND	mg/L	1.0								
Selenium	ND	mg/L	0.050								
Sodium	ND	mg/L	0.50								
Sample ID: MB-20747		*MBLK*				Batch ID:	**20747**	Analysis Date:	12/2/2009 4:28:58 PM		
Barium	ND	mg/L	0.010								
Cadmium	ND	mg/L	0.0020								
Chromium	ND	mg/L	0.0060								
Lead	ND	mg/L	0.0050								
Sample ID: MB-20747		*MBLK*				Batch ID:	**20747**	Analysis Date:	12/7/2009 5:40:29 PM		
Arsenic	ND	mg/L	0.020								
Barium	ND	mg/L	0.010								
Cadmium	ND	mg/L	0.0020								
Calcium	ND	mg/L	0.50								
Chromium	ND	mg/L	0.0060								
Lead	ND	mg/L	0.0050								
Magnesium	ND	mg/L	0.50								
Potassium	ND	mg/L	1.0								
Selenium	ND	mg/L	0.050								
Silver	ND	mg/L	0.0050								
Sodium	ND	mg/L	0.50								
Sample ID: LCS-20747		*LCS*				Batch ID:	**20747**	Analysis Date:	12/1/2009 1:52:48 PM		
Arsenic	0.5070	mg/L	0.020	0.5	0	101	80	120			
Cadmium	0.4860	mg/L	0.0020	0.5	0	97.2	80	120			
Calcium	50.34	mg/L	0.50	50	0	101	80	120			
Chromium	0.4872	mg/L	0.0060	0.5	0	97.4	80	120			
Lead	0.4802	mg/L	0.0050	0.5	0	96.0	80	120			
Magnesium	50.59	mg/L	0.50	50	0	101	80	120			

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

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: 4th Qtr NAPIS

Work Order: 0911470

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA 6010B: Total Recoverable Metals											
Sample ID: LCS-20747		*LCS*				Batch ID:	**20747**	Analysis Date:	12/1/2009 1:52:48 PM		
Potassium	52.24	mg/L	1.0	50	0	104	80	120			
Selenium	0.4811	mg/L	0.050	0.5	0	96.2	80	120			
Sodium	53.74	mg/L	0.50	50	0	107	80	120			
Sample ID: LCS-20747		*LCS*				Batch ID:	**20747**	Analysis Date:	12/2/2009 4:31:54 PM		
Barium	0.4757	mg/L	0.010	0.5	0	95.1	80	120			
Cadmium	0.4823	mg/L	0.0020	0.5	0	96.5	80	120			
Chromium	0.4811	mg/L	0.0060	0.5	0	96.2	80	120			
Lead	0.4773	mg/L	0.0050	0.5	0	95.5	80	120			
Sample ID: LCS-20747		*LCS*				Batch ID:	**20747**	Analysis Date:	12/7/2009 5:43:26 PM		
Arsenic	0.5037	mg/L	0.020	0.5	0	101	80	120			
Barium	0.4784	mg/L	0.010	0.5	0	95.7	80	120			
Cadmium	0.4862	mg/L	0.0020	0.5	0	97.2	80	120			
Calcium	50.77	mg/L	0.50	50	0	102	80	120			
Chromium	0.4828	mg/L	0.0060	0.5	0	96.6	80	120			
Lead	0.4792	mg/L	0.0050	0.5	0	95.8	80	120			
Magnesium	51.01	mg/L	0.50	50	0	102	80	120			
Potassium	52.95	mg/L	1.0	50	0	106	80	120			
Selenium	0.4711	mg/L	0.050	0.5	0	94.2	80	120			
Silver	0.4968	mg/L	0.0050	0.5	0	99.4	80	120			
Sodium	54.24	mg/L	0.50	50	0	108	80	120			

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

Work Order Number 0911470

Date Received: 11/24/2009

Received by: ARS

Sample ID labels checked by: _____ Initials

Checklist completed by: _____ Signature 11/24/09 Date

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?	**1.6°**	*<6° C Acceptable* If given sufficient time to cool.		

Number of preserved bottles checked for pH: 12

<2 >12 unless noted below.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

Chain-of-Custody Record

Client: Western Refining
Gallup Refinery
Mailing Address: Rt 3 Box 17
Gallup NM 87301
Phone #: 505 722 3833
email or Fax#: 722 0210
QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)
☐ Other
☐ EDD (Type)

Turn-Around Time:
☒ Standard ☐ Rush
Project Name: 4th QTR NAPIS
Project #:
Project Manager: G Rajan
Sampler: Cheryl Blanson
On Ice: ☒ Yes ☐ No
Sample Temperature: 4°C

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. 0911170	BTEX + MTBE + TMB's (8021)	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	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)
11/23/09	1315	H_2O	NAPIS-1	3-VOA	HCl	1			X													
				3-VOA	HCl	1	X															
				500ml	HNO3	1							X									
				1L Amb	None	1						X										
				1-500	HNO3	1												X				
				1-125	H2SO4	1												X				
				1-500	None	1												X				
	1140		NAPIS-2	3-VOA	HCl	2	X															
				3-VOA	HCl	2			X													
				500ml	HNO3	2							X									
				1L Amber	None	2						X										
				1-500	HNO3	2												X				

Date:	Time:	Relinquished by:	Received by:	Date	Time
11/23/09	1438			8:45	11/24/09
Date:	Time:	Relinquished by:	Received by:	Date	Time

Remarks: Gen Chem - Anions, Cations
EC, pH 11/24/09

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 Refining Gallup Refinery
Mailing Address: Rt 3 Box 7 Gallup NM 87301
Phone #: 505 722 3833
email or Fax#: 722 0210
QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)
☐ Other
☐ EDD (Type)

Turn-Around Time:
☒ Standard ☐ Rush
Project Name: 4th QTR NAPIS
Project #:
Project Manager: G Rapp
Sampler: Cheryl Johnson
On Ice: ☒ Yes ☐ No
Sample Temperature: N/A

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Analysis Request

Date	Time	Matrix	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)	8310 (PNA or PAH)	RCRA 8 Metals	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)
11/23/09	1140	H_2O	NAPIS 2	125 ml	H_2SO_4	1 2												X				
				500 ml	None	1 2												X				
	1110		NAPIS 3	3 VOA	HCl	11/24 2 3	X															
				3 VOA	HCl	2 3			X													
				1L Amb	None	2 3						X										
				500 ml	HNO_3	2 3							X									
				500 ml	HNO_3	2 3												X				
				125 ml	H_2SO_4	2 3												X				
				500 ml	None	2 3												X				
	1245		KA-3	3 VOA	HCl	3 4	X															
				3 VOA	HCl	3 4			X													
				1L Amb	None	3 4						X										

Date:	Time:	Relinquished by:	Received by:	Date	Time
11/23/09	1438			11/24/09	8:45
Date:	Time:	Relinquished by:	Received by:	Date	Time

Remarks:

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Chain-of-Custody Record

Client: Western Refining Gallup Refinery
Mailing Address: Rt 3 Box 7 Gallup NM 87301
Phone #: 505 722 3833
email or Fax#: 722 0210
QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)
☐ Other
☐ EDD (Type)

Turn-Around Time:
☒ Standard ☐ Rush
Project Name: 4th QTR NAPLS
Project #:
Project Manager: G Rajen
Sampler: Cheryl Johnson
On Ice: ☒ Yes ☐ No
Sample Temperature: 1.6

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

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 6911470	BTEX + MTBE + TMB's (8021)	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	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Cen Chem				Air Bubbles (Y o
11/23/09	1245	H_2O	KA-3	500ml	HNO3	4							X									
				500ml	HNO3	4												X				
				125ml	H_2SO_4	4												X				
				500ml	None	4												X				
			TRIP Blank			5																

Date:	Time:	Relinquished by:	Received by:	Date	Time	Remarks:
11/23/09	1438					
Date:	Time:	Relinquished by:	Received by: 8:45	11/24/09		

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