Gallup Refinery
NAPIS wells 2nd Q 2010

Van Horn, Kristen, NMENV

ENTERED

From: Johnson, Cheryl [Cheryl.Johnson@wnr.com]
Sent: Thursday, July 01, 2010 10:09 AM
To: Van Horn, Kristen, NMENV; Chavez, Carl J, EMNRD
Cc: Riege, Ed; Lieb, Jim
Attachments: 2nd qtr napis. 2010.pdf; NAPIS 2ND QTR 2010 WELL LOGS.xls

Attached are the Hall Lab Analysis and the NAPIS Well logs for the second quarter 2010. Table lists analytes that exceed the NMWQS or the RRSL standards.

	Benzene	MTBE	Barium	1-Methylnaphthalene	Napthalene	DRO	C
Standards	**NMWQS 0.01 mg/L**	**RRSL 0.012 mg/L**	**NMWQS 1.0 mg/L**	**RRSL 0.0023 mg/L**	**0.00014 mg/L**		
Napis 2	0.174	0.23				6.3	1
Napis 3	0.2	0.08	1.7	0.033	0.089	1.8	0

Cheryl Johnson
Environmental Specialist

Western Refining - Gallup Refinery
Route 3 Box 7
Gallup, NM 87301
505 722 0231 Direct
505 722 0210 Fax
505 722 3833 Main
cheryl.johnson@wnr.com

Safety starts with "S", but always begins with "You"

HALL ENVIRONMENTAL ANALYSIS LABORATORY

COVER LETTER

Monday, June 28, 2010

Cheryl Johnson
Western Refining Southwest, Gallup
Rt. 3 Box 7
Gallup, NM 87301

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

RE: 2nd Qtr NAPIS

Order No.: 1006415

Dear Cheryl Johnson:

Hall Environmental Analysis Laboratory, Inc. received 5 sample(s) on 6/11/2010 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.

Please do not hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

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: *28-Jun-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	NAPIS 1
Lab Order:	1006415	**Collection Date:**	6/8/2010 2:50:00 PM
Project:	2nd Qtr NAPIS	**Date Received:**	6/11/2010
Lab ID:	1006415-01	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **JB**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	6/18/2010 12:07:31 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	6/18/2010 12:07:31 PM
Surr: DNOP	126	86.9-151		%REC	1	6/18/2010 12:07:31 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	6/18/2010 3:43:45 PM
Surr: BFB	89.0	55.2-107		%REC	1	6/18/2010 3:43:45 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Methyl tert-butyl ether (MTBE)	ND	2.5		µg/L	1	6/18/2010 3:43:45 PM
Benzene	ND	1.0		µg/L	1	6/18/2010 3:43:45 PM
Toluene	ND	1.0		µg/L	1	6/18/2010 3:43:45 PM
Ethylbenzene	ND	1.0		µg/L	1	6/18/2010 3:43:45 PM
Xylenes, Total	ND	2.0		µg/L	1	6/18/2010 3:43:45 PM
Surr: 4-Bromofluorobenzene	97.0	65.9-130		%REC	1	6/18/2010 3:43:45 PM
EPA METHOD 8310: PAHS						Analyst: **SCC**
Naphthalene	ND	2.0		µg/L	1	6/16/2010 6:32:49 PM
1-Methylnaphthalene	ND	2.0		µg/L	1	6/16/2010 6:32:49 PM
2-Methylnaphthalene	ND	2.0		µg/L	1	6/16/2010 6:32:49 PM
Acenaphthylene	ND	2.5		µg/L	1	6/16/2010 6:32:49 PM
Acenaphthene	ND	5.0		µg/L	1	6/16/2010 6:32:49 PM
Fluorene	ND	0.80		µg/L	1	6/16/2010 6:32:49 PM
Phenanthrene	ND	0.60		µg/L	1	6/16/2010 6:32:49 PM
Anthracene	ND	0.60		µg/L	1	6/16/2010 6:32:49 PM
Fluoranthene	ND	0.30		µg/L	1	6/16/2010 6:32:49 PM
Pyrene	ND	0.30		µg/L	1	6/16/2010 6:32:49 PM
Benz(a)anthracene	ND	0.070		µg/L	1	6/16/2010 6:32:49 PM
Chrysene	ND	0.20		µg/L	1	6/16/2010 6:32:49 PM
Benzo(b)fluoranthene	ND	0.10		µg/L	1	6/16/2010 6:32:49 PM
Benzo(k)fluoranthene	ND	0.070		µg/L	1	6/16/2010 6:32:49 PM
Benzo(a)pyrene	ND	0.070		µg/L	1	6/16/2010 6:32:49 PM
Dibenz(a,h)anthracene	ND	0.070		µg/L	1	6/16/2010 6:32:49 PM
Benzo(g,h,i)perylene	ND	0.080		µg/L	1	6/16/2010 6:32:49 PM
Indeno(1,2,3-cd)pyrene	ND	0.080		µg/L	1	6/16/2010 6:32:49 PM
Surr: Benzo(e)pyrene	41.8	28.3-111		%REC	1	6/16/2010 6:32:49 PM
EPA METHOD 300.0: ANIONS						Analyst: **LJB**
Fluoride	0.73	0.10		mg/L	1	6/15/2010 1:34:27 AM
Chloride	170	10		mg/L	20	6/15/2010 1:51:52 AM
Bromide	2.2	0.10		mg/L	1	6/15/2010 1:34:27 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *28-Jun-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	NAPIS 1
Lab Order:	1006415	**Collection Date:**	6/8/2010 2:50:00 PM
Project:	2nd Qtr NAPIS	**Date Received:**	6/11/2010
Lab ID:	1006415-01	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: **LJB**
Nitrate (As N)+Nitrite (As N)	4.0	1.0		mg/L	5	6/24/2010 12:38:02 PM
Phosphorus, Orthophosphate (As P)	ND	0.50	H	mg/L	1	6/15/2010 1:34:27 AM
Sulfate	56	10		mg/L	20	6/15/2010 1:51:52 AM
EPA METHOD 7470: MERCURY						Analyst: **IC**
Mercury	ND	0.00020		mg/L	1	6/15/2010 5:16:14 PM
EPA METHOD 6010B: DISSOLVED METALS						Analyst: **SNV**
Arsenic	ND	0.020		mg/L	1	6/15/2010 6:58:40 PM
Barium	0.13	0.020		mg/L	1	6/15/2010 6:58:40 PM
Cadmium	ND	0.0020		mg/L	1	6/15/2010 6:58:40 PM
Calcium	72	1.0		mg/L	1	6/17/2010 11:55:18 AM
Chromium	ND	0.0060		mg/L	1	6/15/2010 6:58:40 PM
Lead	ND	0.0050		mg/L	1	6/15/2010 6:58:40 PM
Magnesium	13	1.0		mg/L	1	6/17/2010 11:55:18 AM
Potassium	ND	1.0		mg/L	1	6/17/2010 11:55:18 AM
Selenium	ND	0.050		mg/L	1	6/15/2010 6:58:40 PM
Silver	ND	0.0050		mg/L	1	6/15/2010 6:58:40 PM
Sodium	370	5.0		mg/L	5	6/17/2010 11:59:16 AM
EPA 6010B: TOTAL RECOVERBLE METALS						Analyst: **SNV**
Arsenic	ND	0.020		mg/L	1	6/15/2010 5:33:21 PM
Barium	0.18	0.020		mg/L	1	6/15/2010 5:33:21 PM
Cadmium	ND	0.0020		mg/L	1	6/15/2010 5:33:21 PM
Chromium	ND	0.0060		mg/L	1	6/15/2010 5:33:21 PM
Lead	ND	0.0050		mg/L	1	6/15/2010 5:33:21 PM
Selenium	ND	0.050		mg/L	1	6/15/2010 5:33:21 PM
Silver	ND	0.0050		mg/L	1	6/15/2010 5:33:21 PM
EPA 120.1: SPECIFIC CONDUCTANCE						Analyst: **NSB**
Specific Conductance	1800	0.010		µmhos/cm	1	6/11/2010 9:23:00 PM
SM4500-H+B: PH						Analyst: **NSB**
pH	7.86	0.1		pH units	1	6/11/2010 9:23:00 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
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *28-Jun-10*

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1006415
Project: 2nd Qtr NAPIS
Lab ID: 1006415-02

Client Sample ID: KA3
Collection Date: 6/10/2010 10:53:00 AM
Date Received: 6/11/2010
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **JB**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	6/18/2010 1:15:46 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	6/18/2010 1:15:46 PM
Surr: DNOP	118	86.9-151		%REC	1	6/18/2010 1:15:46 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	6/18/2010 4:14:06 PM
Surr: BFB	80.9	55.2-107		%REC	1	6/18/2010 4:14:06 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Methyl tert-butyl ether (MTBE)	ND	2.5		µg/L	1	6/18/2010 4:14:06 PM
Benzene	ND	1.0		µg/L	1	6/18/2010 4:14:06 PM
Toluene	ND	1.0		µg/L	1	6/18/2010 4:14:06 PM
Ethylbenzene	ND	1.0		µg/L	1	6/18/2010 4:14:06 PM
Xylenes, Total	ND	2.0		µg/L	1	6/18/2010 4:14:06 PM
Surr: 4-Bromofluorobenzene	87.3	65.9-130		%REC	1	6/18/2010 4:14:06 PM
EPA METHOD 8310: PAHS						Analyst: **SCC**
Naphthalene	ND	2.0		µg/L	1	6/16/2010 6:54:06 PM
1-Methylnaphthalene	ND	2.0		µg/L	1	6/16/2010 6:54:06 PM
2-Methylnaphthalene	ND	2.0		µg/L	1	6/16/2010 6:54:06 PM
Acenaphthylene	ND	2.5		µg/L	1	6/16/2010 6:54:06 PM
Acenaphthene	ND	5.0		µg/L	1	6/16/2010 6:54:06 PM
Fluorene	ND	0.80		µg/L	1	6/16/2010 6:54:06 PM
Phenanthrene	ND	0.60		µg/L	1	6/16/2010 6:54:06 PM
Anthracene	ND	0.60		µg/L	1	6/16/2010 6:54:06 PM
Fluoranthene	ND	0.30		µg/L	1	6/16/2010 6:54:06 PM
Pyrene	ND	0.30		µg/L	1	6/16/2010 6:54:06 PM
Benz(a)anthracene	ND	0.070		µg/L	1	6/16/2010 6:54:06 PM
Chrysene	ND	0.20		µg/L	1	6/16/2010 6:54:06 PM
Benzo(b)fluoranthene	ND	0.10		µg/L	1	6/16/2010 6:54:06 PM
Benzo(k)fluoranthene	ND	0.070		µg/L	1	6/16/2010 6:54:06 PM
Benzo(a)pyrene	ND	0.070		µg/L	1	6/16/2010 6:54:06 PM
Dibenz(a,h)anthracene	ND	0.070		µg/L	1	6/16/2010 6:54:06 PM
Benzo(g,h,i)perylene	ND	0.080		µg/L	1	6/16/2010 6:54:06 PM
Indeno(1,2,3-cd)pyrene	ND	0.080		µg/L	1	6/16/2010 6:54:06 PM
Surr: Benzo(e)pyrene	81.6	28.3-111		%REC	1	6/16/2010 6:54:06 PM
EPA METHOD 300.0: ANIONS						Analyst: **LJB**
Fluoride	0.38	0.10		mg/L	1	6/24/2010 2:05:05 PM
Chloride	1100	50		mg/L	100	6/24/2010 1:30:15 PM
Bromide	4.7	0.10		mg/L	1	6/24/2010 2:05:05 PM

Qualifiers:

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- NC Non-Chlorinated
- PQL Practical Quantitation Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *28-Jun-10*

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1006415
Project: 2nd Qtr NAPIS
Lab ID: 1006415-02

Client Sample ID: KA3
Collection Date: 6/10/2010 10:53:00 AM
Date Received: 6/11/2010
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: **LJB**
Nitrate (As N)+Nitrite (As N)	17	4.0		mg/L	20	6/17/2010 8:01:31 AM
Phosphorus, Orthophosphate (As P)	ND	0.50	H	mg/L	1	6/24/2010 2:05:05 PM
Sulfate	390	10		mg/L	20	6/24/2010 3:14:43 PM
EPA METHOD 7470: MERCURY						Analyst: **IC**
Mercury	ND	0.00020		mg/L	1	6/15/2010 5:18:01 PM
EPA METHOD 6010B: DISSOLVED METALS						Analyst: **SNV**
Arsenic	ND	0.020		mg/L	1	6/15/2010 7:07:31 PM
Barium	0.078	0.020		mg/L	1	6/15/2010 7:07:31 PM
Cadmium	ND	0.0020		mg/L	1	6/15/2010 7:07:31 PM
Calcium	38	1.0		mg/L	1	6/17/2010 12:12:31 PM
Chromium	ND	0.0060		mg/L	1	6/15/2010 7:07:31 PM
Lead	ND	0.0050		mg/L	1	6/15/2010 7:07:31 PM
Magnesium	6.5	1.0		mg/L	1	6/17/2010 12:12:31 PM
Potassium	4.1	1.0		mg/L	1	6/17/2010 12:12:31 PM
Selenium	ND	0.050		mg/L	1	6/15/2010 7:07:31 PM
Silver	ND	0.0050		mg/L	1	6/15/2010 7:07:31 PM
Sodium	890	10		mg/L	10	6/17/2010 12:16:34 PM
EPA 6010B: TOTAL RECOVERBLE METALS						Analyst: **SNV**
Arsenic	ND	0.020		mg/L	1	6/15/2010 5:40:20 PM
Barium	0.17	0.020		mg/L	1	6/15/2010 5:40:20 PM
Cadmium	ND	0.0020		mg/L	1	6/15/2010 5:40:20 PM
Chromium	0.0064	0.0060		mg/L	1	6/15/2010 5:40:20 PM
Lead	ND	0.0050		mg/L	1	6/15/2010 5:40:20 PM
Selenium	ND	0.050		mg/L	1	6/15/2010 5:40:20 PM
Silver	ND	0.0050		mg/L	1	6/15/2010 5:40:20 PM
EPA 120.1: SPECIFIC CONDUCTANCE						Analyst: **NSB**
Specific Conductance	3600	0.010		µmhos/cm	1	6/11/2010 9:49:00 PM
SM4500-H+B: PH						Analyst: **NSB**
pH	8.21	0.1		pH units	1	6/11/2010 9:49:00 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
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- NC Non-Chlorinated
- PQL Practical Quantitation Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *28-Jun-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	NAPIS-3
Lab Order:	1006415	**Collection Date:**	6/10/2010 10:10:00 AM
Project:	2nd Qtr NAPIS	**Date Received:**	6/11/2010
Lab ID:	1006415-03	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **JB**
Diesel Range Organics (DRO)	1.8	1.0		mg/L	1	6/18/2010 1:49:52 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	6/18/2010 1:49:52 PM
Surr: DNOP	120	86.9-151		%REC	1	6/18/2010 1:49:52 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	0.89	0.050		mg/L	1	6/18/2010 5:14:46 PM
Surr: BFB	118	55.2-107	S	%REC	1	6/18/2010 5:14:46 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Methyl tert-butyl ether (MTBE)	80	2.5		µg/L	1	6/18/2010 5:14:46 PM
Benzene	200	10		µg/L	10	6/21/2010 12:49:00 PM
Toluene	ND	1.0		µg/L	1	6/18/2010 5:14:46 PM
Ethylbenzene	12	1.0		µg/L	1	6/18/2010 5:14:46 PM
Xylenes, Total	ND	2.0		µg/L	1	6/18/2010 5:14:46 PM
Surr: 4-Bromofluorobenzene	113	65.9-130		%REC	1	6/18/2010 5:14:46 PM
EPA METHOD 8310: PAHS						Analyst: **SCC**
Naphthalene	45	2.0		µg/L	1	6/16/2010 7:15:20 PM
1-Methylnaphthalene	50	2.0		µg/L	1	6/16/2010 7:15:20 PM
2-Methylnaphthalene	ND	2.0		µg/L	1	6/16/2010 7:15:20 PM
Acenaphthylene	ND	2.5		µg/L	1	6/16/2010 7:15:20 PM
Acenaphthene	ND	5.0		µg/L	1	6/16/2010 7:15:20 PM
Fluorene	4.9	0.80		µg/L	1	6/16/2010 7:15:20 PM
Phenanthrene	4.5	0.60		µg/L	1	6/16/2010 7:15:20 PM
Anthracene	ND	0.60		µg/L	1	6/16/2010 7:15:20 PM
Fluoranthene	ND	0.30		µg/L	1	6/16/2010 7:15:20 PM
Pyrene	ND	0.30		µg/L	1	6/16/2010 7:15:20 PM
Benz(a)anthracene	ND	0.070		µg/L	1	6/16/2010 7:15:20 PM
Chrysene	ND	0.20		µg/L	1	6/16/2010 7:15:20 PM
Benzo(b)fluoranthene	ND	0.10		µg/L	1	6/16/2010 7:15:20 PM
Benzo(k)fluoranthene	ND	0.070		µg/L	1	6/16/2010 7:15:20 PM
Benzo(a)pyrene	ND	0.070		µg/L	1	6/16/2010 7:15:20 PM
Dibenz(a,h)anthracene	ND	0.070		µg/L	1	6/16/2010 7:15:20 PM
Benzo(g,h,i)perylene	ND	0.080		µg/L	1	6/16/2010 7:15:20 PM
Indeno(1,2,3-cd)pyrene	ND	0.080		µg/L	1	6/16/2010 7:15:20 PM
Surr: Benzo(e)pyrene	45.1	28.3-111		%REC	1	6/16/2010 7:15:20 PM
EPA METHOD 300.0: ANIONS						Analyst: **LJB**
Fluoride	1.5	0.10		mg/L	1	6/24/2010 2:22:29 PM
Chloride	260	10		mg/L	20	6/17/2010 7:26:41 AM
Bromide	1.1	0.10		mg/L	1	6/24/2010 2:22:29 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *28-Jun-10*

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1006415
Project: 2nd Qtr NAPIS
Lab ID: 1006415-03

Client Sample ID: NAPIS-3
Collection Date: 6/10/2010 10:10:00 AM
Date Received: 6/11/2010
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: **LJB**
Nitrate (As N)+Nitrite (As N)	ND	1.0		mg/L	5	6/17/2010 8:18:56 AM
Phosphorus, Orthophosphate (As P)	ND	0.50	H	mg/L	1	6/24/2010 2:22:29 PM
Sulfate	39	0.50		mg/L	1	6/24/2010 2:22:29 PM
EPA METHOD 7470: MERCURY						Analyst: **IC**
Mercury	ND	0.00020		mg/L	1	6/15/2010 5:19:48 PM
EPA METHOD 6010B: DISSOLVED METALS						Analyst: **SNV**
Arsenic	ND	0.020		mg/L	1	6/15/2010 7:15:06 PM
Barium	0.62	0.020		mg/L	1	6/15/2010 7:15:06 PM
Cadmium	ND	0.0020		mg/L	1	6/15/2010 7:15:06 PM
Calcium	87	1.0		mg/L	1	6/17/2010 12:19:34 PM
Chromium	ND	0.0060		mg/L	1	6/15/2010 7:15:06 PM
Lead	ND	0.0050		mg/L	1	6/15/2010 7:15:06 PM
Magnesium	15	1.0		mg/L	1	6/17/2010 12:19:34 PM
Potassium	ND	1.0		mg/L	1	6/17/2010 12:19:34 PM
Selenium	ND	0.050		mg/L	1	6/15/2010 7:15:06 PM
Silver	ND	0.0050		mg/L	1	6/15/2010 7:15:06 PM
Sodium	260	5.0		mg/L	5	6/17/2010 12:23:36 PM
EPA 6010B: TOTAL RECOVERBLE METALS						Analyst: **SNV**
Arsenic	ND	0.020		mg/L	1	6/15/2010 5:47:33 PM
Barium	0.54	0.020		mg/L	1	6/15/2010 5:47:33 PM
Cadmium	ND	0.0020		mg/L	1	6/15/2010 5:47:33 PM
Chromium	ND	0.0060		mg/L	1	6/15/2010 5:47:33 PM
Lead	ND	0.0050		mg/L	1	6/15/2010 5:47:33 PM
Selenium	ND	0.050		mg/L	1	6/15/2010 5:47:33 PM
Silver	ND	0.0050		mg/L	1	6/15/2010 5:47:33 PM
EPA 120.1: SPECIFIC CONDUCTANCE						Analyst: **NSB**
Specific Conductance	1600	0.010		µmhos/cm	1	6/11/2010 10:05:00 PM
SM4500-H+B: PH						Analyst: **NSB**
pH	7.84	0.1		pH units	1	6/11/2010 10:05:00 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *28-Jun-10*

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1006415
Project: 2nd Qtr NAPIS
Lab ID: 1006415-04

Client Sample ID: NAPIS-2
Collection Date: 6/10/2010 9:18:00 AM
Date Received: 6/11/2010
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **JB**
Diesel Range Organics (DRO)	6.3	1.0		mg/L	1	6/18/2010 2:24:13 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	6/18/2010 2:24:13 PM
Surr: DNOP	117	86.9-151		%REC	1	6/18/2010 2:24:13 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	1.3	0.25		mg/L	5	6/18/2010 5:45:00 PM
Surr: BFB	100	55.2-107		%REC	5	6/18/2010 5:45:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Methyl tert-butyl ether (MTBE)	230	13		µg/L	5	6/18/2010 5:45:00 PM
Benzene	140	5.0		µg/L	5	6/18/2010 5:45:00 PM
Toluene	ND	5.0		µg/L	5	6/18/2010 5:45:00 PM
Ethylbenzene	9.6	5.0		µg/L	5	6/18/2010 5:45:00 PM
Xylenes, Total	ND	10		µg/L	5	6/18/2010 5:45:00 PM
Surr: 4-Bromofluorobenzene	101	65.9-130		%REC	5	6/18/2010 5:45:00 PM
EPA METHOD 8310: PAHS						Analyst: **SCC**
Naphthalene	89	2.0		µg/L	1	6/16/2010 7:36:38 PM
1-Methylnaphthalene	33	2.0		µg/L	1	6/16/2010 7:36:38 PM
2-Methylnaphthalene	ND	2.0		µg/L	1	6/16/2010 7:36:38 PM
Acenaphthylene	ND	2.5		µg/L	1	6/16/2010 7:36:38 PM
Acenaphthene	ND	5.0		µg/L	1	6/16/2010 7:36:38 PM
Fluorene	11	1.6		µg/L	2	6/17/2010 8:15:04 AM
Phenanthrene	5.0	0.60		µg/L	1	6/16/2010 7:36:38 PM
Anthracene	ND	0.60		µg/L	1	6/16/2010 7:36:38 PM
Fluoranthene	ND	0.30		µg/L	1	6/16/2010 7:36:38 PM
Pyrene	ND	0.30		µg/L	1	6/16/2010 7:36:38 PM
Benz(a)anthracene	ND	0.070		µg/L	1	6/16/2010 7:36:38 PM
Chrysene	ND	0.20		µg/L	1	6/16/2010 7:36:38 PM
Benzo(b)fluoranthene	ND	0.10		µg/L	1	6/16/2010 7:36:38 PM
Benzo(k)fluoranthene	ND	0.070		µg/L	1	6/16/2010 7:36:38 PM
Benzo(a)pyrene	ND	0.070		µg/L	1	6/16/2010 7:36:38 PM
Dibenz(a,h)anthracene	ND	0.070		µg/L	1	6/16/2010 7:36:38 PM
Benzo(g,h,i)perylene	ND	0.080		µg/L	1	6/16/2010 7:36:38 PM
Indeno(1,2,3-cd)pyrene	ND	0.080		µg/L	1	6/16/2010 7:36:38 PM
Surr: Benzo(e)pyrene	80.0	28.3-111		%REC	1	6/16/2010 7:36:38 PM
EPA METHOD 300.0: ANIONS						Analyst: **LJB**
Fluoride	1.2	0.50		mg/L	5	6/24/2010 2:39:54 PM
Chloride	340	25		mg/L	50	6/28/2010 6:14:32 AM
Bromide	1.2	0.50		mg/L	5	6/24/2010 2:39:54 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *28-Jun-10*

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1006415
Project: 2nd Qtr NAPIS
Lab ID: 1006415-04

Client Sample ID: NAPIS-2
Collection Date: 6/10/2010 9:18:00 AM
Date Received: 6/11/2010
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: **LJB**
Nitrate (As N)+Nitrite (As N)	ND	1.0		mg/L	5	6/17/2010 8:36:20 AM
Phosphorus, Orthophosphate (As P)	ND	2.5		mg/L	5	6/24/2010 2:39:54 PM
Sulfate	8.7	2.5		mg/L	5	6/24/2010 2:39:54 PM
EPA METHOD 7470: MERCURY						Analyst: **IC**
Mercury	ND	0.00020		mg/L	1	6/15/2010 5:25:20 PM
EPA METHOD 6010B: DISSOLVED METALS						Analyst: **SNV**
Arsenic	ND	0.020		mg/L	1	6/15/2010 7:22:26 PM
Barium	1.7	0.10		mg/L	5	6/17/2010 12:30:22 PM
Cadmium	ND	0.0020		mg/L	1	6/15/2010 7:22:26 PM
Calcium	80	1.0		mg/L	1	6/17/2010 12:26:35 PM
Chromium	ND	0.0060		mg/L	1	6/15/2010 7:22:26 PM
Lead	ND	0.0050		mg/L	1	6/15/2010 7:22:26 PM
Magnesium	16	1.0		mg/L	1	6/17/2010 12:26:35 PM
Potassium	ND	1.0		mg/L	1	6/17/2010 12:26:35 PM
Selenium	ND	0.050		mg/L	1	6/15/2010 7:22:26 PM
Silver	ND	0.0050		mg/L	1	6/15/2010 7:22:26 PM
Sodium	320	5.0		mg/L	5	6/17/2010 12:30:22 PM
EPA 6010B: TOTAL RECOVERBLE METALS						Analyst: **SNV**
Arsenic	ND	0.020		mg/L	1	6/15/2010 5:56:10 PM
Barium	1.7	0.10		mg/L	5	6/15/2010 6:09:16 PM
Cadmium	ND	0.0020		mg/L	1	6/15/2010 5:56:10 PM
Chromium	ND	0.0060		mg/L	1	6/15/2010 5:56:10 PM
Lead	ND	0.0050		mg/L	1	6/15/2010 5:56:10 PM
Selenium	ND	0.050		mg/L	1	6/15/2010 5:56:10 PM
Silver	ND	0.0050		mg/L	1	6/15/2010 5:56:10 PM
EPA 120.1: SPECIFIC CONDUCTANCE						Analyst: **NSB**
Specific Conductance	1800	0.010		µmhos/cm	1	6/11/2010 10:26:00 PM
SM4500-H+B: PH						Analyst: **NSB**
pH	7.80	0.1		pH units	1	6/11/2010 10:26:00 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *28-Jun-10*

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1006415
Project: 2nd Qtr NAPIS
Lab ID: 1006415-05

Client Sample ID: TRIP BLANK
Collection Date:
Date Received: 6/11/2010
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	6/18/2010 11:18:07 PM
Surr: BFB	89.0	55.2-107		%REC	1	6/18/2010 11:18:07 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	1.0		µg/L	1	6/18/2010 11:18:07 PM
Toluene	ND	1.0		µg/L	1	6/18/2010 11:18:07 PM
Ethylbenzene	ND	1.0		µg/L	1	6/18/2010 11:18:07 PM
Xylenes, Total	ND	2.0		µg/L	1	6/18/2010 11:18:07 PM
Surr: 4-Bromofluorobenzene	94.8	65.9-130		%REC	1	6/18/2010 11:18:07 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: 2nd Qtr NAPIS **Work Order:** 1006415

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:	**R39244**	Analysis Date:	6/11/2010 10:32:37 AM		
Fluoride	ND	mg/L	0.10								
Chloride	ND	mg/L	0.50								
Bromide	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:	**R39261**	Analysis Date:	6/14/2010 6:36:36 PM		
Fluoride	ND	mg/L	0.10								
Chloride	ND	mg/L	0.50								
Bromide	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:	**R39261**	Analysis Date:	6/14/2010 11:15:11 PM		
Fluoride	ND	mg/L	0.10								
Chloride	ND	mg/L	0.50								
Bromide	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:	**R39321**	Analysis Date:	6/16/2010 4:56:11 PM		
Fluoride	ND	mg/L	0.10								
Chloride	ND	mg/L	0.50								
Bromide	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:	**R39459**	Analysis Date:	6/23/2010 7:13:23 PM		
Fluoride	ND	mg/L	0.10								
Chloride	ND	mg/L	0.50								
Bromide	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:	**R39500**	Analysis Date:	6/26/2010 6:19:01 PM		
Chloride	ND	mg/L	0.50								
Bromide	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:	**R39513**	Analysis Date:	6/27/2010 6:55:35 PM		
Fluoride	ND	mg/L	0.10								
Chloride	ND	mg/L	0.50								

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: 2nd Qtr NAPIS
Work Order: 1006415

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:	**R39513**	Analysis Date:	6/27/2010 6:55:35 PM		
Bromide	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-b		*LCS*				Batch ID:	**R39244**	Analysis Date:	6/11/2010 2:01:30 PM		
Fluoride	0.5069	mg/L	0.10	0.5	0	101	90	110			
Chloride	4.840	mg/L	0.50	5	0	96.8	90	110			
Bromide	2.472	mg/L	0.10	2.5	0	98.9	90	110			
Nitrate (As N)+Nitrite (As N)	3.402	mg/L	0.20	3.5	0	97.2	90	110			
Phosphorus, Orthophosphate (As P)	4.814	mg/L	0.50	5	0	96.3	90	110			
Sulfate	9.786	mg/L	0.50	10	0	97.9	90	110			
Sample ID: LCS		*LCS*				Batch ID:	**R39261**	Analysis Date:	6/14/2010 6:54:01 PM		
Fluoride	0.4755	mg/L	0.10	0.5	0	95.1	90	110			
Chloride	4.467	mg/L	0.50	5	0	89.3	90	110			S
Bromide	2.269	mg/L	0.10	2.5	0	90.8	90	110			
Nitrate (As N)+Nitrite (As N)	3.120	mg/L	0.20	3.5	0	89.1	90	110			S
Phosphorus, Orthophosphate (As P)	4.552	mg/L	0.50	5	0	91.0	90	110			
Sulfate	9.174	mg/L	0.50	10	0	91.7	90	110			
Sample ID: LCS		*LCS*				Batch ID:	**R39261**	Analysis Date:	6/14/2010 11:32:35 PM		
Fluoride	0.5305	mg/L	0.10	0.5	0	106	90	110			
Chloride	4.768	mg/L	0.50	5	0	95.4	90	110			
Bromide	2.414	mg/L	0.10	2.5	0	96.6	90	110			
Nitrate (As N)+Nitrite (As N)	3.358	mg/L	0.20	3.5	0	96.0	90	110			
Phosphorus, Orthophosphate (As P)	4.858	mg/L	0.50	5	0	97.2	90	110			
Sulfate	9.829	mg/L	0.50	10	0	98.3	90	110			
Sample ID: LCS		*LCS*				Batch ID:	**R39321**	Analysis Date:	6/16/2010 5:13:35 PM		
Fluoride	0.4861	mg/L	0.10	0.5	0	97.2	90	110			
Chloride	4.988	mg/L	0.50	5	0	99.8	90	110			
Bromide	2.547	mg/L	0.10	2.5	0	102	90	110			
Nitrate (As N)+Nitrite (As N)	3.503	mg/L	0.20	3.5	0	100	90	110			
Phosphorus, Orthophosphate (As P)	4.920	mg/L	0.50	5	0	98.4	90	110			
Sulfate	10.24	mg/L	0.50	10	0	102	90	110			
Sample ID: LCS		*LCS*				Batch ID:	**R39459**	Analysis Date:	6/23/2010 7:30:47 PM		
Fluoride	0.5064	mg/L	0.10	0.5	0	101	90	110			
Chloride	5.062	mg/L	0.50	5	0	101	90	110			
Bromide	2.562	mg/L	0.10	2.5	0	102	90	110			
Nitrate (As N)+Nitrite (As N)	3.551	mg/L	0.20	3.5	0	101	90	110			
Phosphorus, Orthophosphate (As P)	5.040	mg/L	0.50	5	0	101	90	110			
Sulfate	10.41	mg/L	0.50	10	0	104	90	110			
Sample ID: LCS		*LCS*				Batch ID:	**R39500**	Analysis Date:	6/26/2010 6:36:26 PM		
Chloride	5.007	mg/L	0.50	5	0	100	90	110			
Bromide	2.596	mg/L	0.10	2.5	0	104	90	110			
Nitrate (As N)+Nitrite (As N)	3.583	mg/L	0.20	3.5	0	102	90	110			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: 2nd Qtr NAPIS **Work Order:** 1006415

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 300.0: Anions											
Sample ID: LCS		*LCS*				Batch ID:	**R39500**	Analysis Date:		6/26/2010 6:36:26 PM	
Phosphorus, Orthophosphate (As P)	5.139	mg/L	0.50	5	0	103	90	110			
Sulfate	10.35	mg/L	0.50	10	0	103	90	110			
Sample ID: LCS-b		*LCS*				Batch ID:	**R39513**	Analysis Date:		6/27/2010 10:24:28 PM	
Fluoride	0.5344	mg/L	0.10	0.5	0	107	90	110			
Chloride	4.765	mg/L	0.50	5	0	95.3	90	110			
Bromide	2.477	mg/L	0.10	2.5	0	99.1	90	110			
Nitrate (As N)+Nitrite (As N)	3.428	mg/L	0.20	3.5	0	98.0	90	110			
Phosphorus, Orthophosphate (As P)	4.925	mg/L	0.50	5	0	98.5	90	110			
Sulfate	9.967	mg/L	0.50	10	0	99.7	90	110			
Method: EPA Method 8015B: Diesel Range											
Sample ID: MB-22630		*MBLK*				Batch ID:	**22630**	Analysis Date:		6/18/2010 7:03:57 AM	
Diesel Range Organics (DRO)	ND	mg/L	1.0								
Motor Oil Range Organics (MRO)	ND	mg/L	5.0								
Sample ID: LCS-22630		*LCS*				Batch ID:	**22630**	Analysis Date:		6/18/2010 7:37:16 AM	
Diesel Range Organics (DRO)	5.768	mg/L	1.0	5	0	115	74	157			
Sample ID: LCSD-22630		*LCSD*				Batch ID:	**22630**	Analysis Date:		6/18/2010 8:10:51 AM	
Diesel Range Organics (DRO)	5.624	mg/L	1.0	5	0	112	74	157	2.52	23	
Method: EPA Method 8015B: Gasoline Range											
Sample ID: 1006415-01A MSD		*MSD*				Batch ID:	**R39367**	Analysis Date:		6/18/2010 6:45:44 PM	
Gasoline Range Organics (GRO)	0.5416	mg/L	0.050	0.5	0	108	80	115	6.64	8.39	
Sample ID: 5ML RB		*MBLK*				Batch ID:	**R39367**	Analysis Date:		6/18/2010 9:08:12 AM	
Gasoline Range Organics (GRO)	ND	mg/L	0.050								
Sample ID: 2.5UG GRO LCS		*LCS*				Batch ID:	**R39367**	Analysis Date:		6/18/2010 7:16:05 PM	
Gasoline Range Organics (GRO)	0.5172	mg/L	0.050	0.5	0	103	77.8	124			
Sample ID: 1006415-01A MS		*MS*				Batch ID:	**R39367**	Analysis Date:		6/18/2010 6:15:24 PM	
Gasoline Range Organics (GRO)	0.5068	mg/L	0.050	0.5	0	101	80	115			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: 2nd Qtr NAPIS **Work Order:** 1006415

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8021B: Volatiles											
Sample ID: 1006415-03A MSD		*MSD*				Batch ID:	**R39367**	Analysis Date:		6/18/2010 8:16:38 PM	
Methyl tert-butyl ether (MTBE)	83.09	µg/L	2.5	20	80.09	15.0	51.2	138	3.49	28	S
Benzene	184.3	µg/L	1.0	20	180.4	19.7	85.9	113	1.57	27	SE
Toluene	21.17	µg/L	1.0	20	0	106	86.4	113	3.65	19	
Ethylbenzene	32.64	µg/L	1.0	20	12.29	102	83.5	118	3.29	10	
Xylenes, Total	66.87	µg/L	2.0	60	1.44	109	83.4	122	2.87	13	
Sample ID: 5ML RB		*MBLK*				Batch ID:	**R39367**	Analysis Date:		6/18/2010 9:08:12 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								
Sample ID: 100NG BTEX LCS		*LCS*				Batch ID:	**R39367**	Analysis Date:		6/21/2010 11:48:45 AM	
Methyl tert-butyl ether (MTBE)	17.75	µg/L	2.5	20	0	88.7	82.5	129			
Benzene	20.92	µg/L	1.0	20	0	105	87.9	121			
Toluene	21.32	µg/L	1.0	20	0	107	83	124			
Ethylbenzene	21.16	µg/L	1.0	20	0	106	81.7	122			
Xylenes, Total	64.04	µg/L	2.0	60	0	107	85.6	121			
Sample ID: 1006415-03A MS		*MS*				Batch ID:	**R39367**	Analysis Date:		6/18/2010 7:46:22 PM	
Methyl tert-butyl ether (MTBE)	80.24	µg/L	2.5	20	80.09	0.720	51.2	138			S
Benzene	187.2	µg/L	1.0	20	180.4	34.4	85.9	113			SE
Toluene	21.96	µg/L	1.0	20	0	110	86.4	113			
Ethylbenzene	33.73	µg/L	1.0	20	12.29	107	83.5	118			
Xylenes, Total	68.82	µg/L	2.0	60	1.44	112	83.4	122			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: 2nd Qtr NAPIS **Work Order:** 1006415

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8310: PAHs											
Sample ID: MB-22626		*MBLK*				Batch ID:	**22626**	Analysis Date:		6/16/2010 1:55:58 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-22626		*LCS*				Batch ID:	**22626**	Analysis Date:		6/16/2010 2:17:16 PM	
Naphthalene	51.35	µg/L	2.0	80	0	64.2	20.5	109			
1-Methylnaphthalene	59.93	µg/L	2.0	80.2	0	74.7	23.1	116			
2-Methylnaphthalene	54.45	µg/L	2.0	80	0	68.1	19.5	112			
Acenaphthylene	62.87	µg/L	2.5	80.2	0	78.4	27.5	119			
Acenaphthene	66.20	µg/L	5.0	80	0	82.8	31	117			
Fluorene	4.820	µg/L	0.80	8.02	0	60.1	17.1	109			
Phenanthrene	3.230	µg/L	0.60	4.02	0	80.3	25.5	112			
Anthracene	3.290	µg/L	0.60	4.02	0	81.8	25.8	119			
Fluoranthene	7.000	µg/L	0.30	8.02	0	87.3	27.2	122			
Pyrene	6.290	µg/L	0.30	8.02	0	78.4	24.1	118			
Benz(a)anthracene	0.6400	µg/L	0.070	0.802	0	79.8	31.1	125			
Chrysene	3.290	µg/L	0.20	4.02	0	81.8	32.8	119			
Benzo(b)fluoranthene	0.8800	µg/L	0.10	1.002	0	87.8	24.4	117			
Benzo(k)fluoranthene	0.4500	µg/L	0.070	0.5	0	90.0	28.4	132			
Benzo(a)pyrene	0.4300	µg/L	0.070	0.502	0	85.7	32.4	119			
Dibenz(a,h)anthracene	0.8800	µg/L	0.070	1.002	0	87.8	33.9	120			
Benzo(g,h,i)perylene	0.8800	µg/L	0.080	1	0	88.0	35.2	113			
Indeno(1,2,3-cd)pyrene	1.760	µg/L	0.080	2.004	0	87.8	33.6	115			
Sample ID: LCSD-22626		*LCSD*				Batch ID:	**22626**	Analysis Date:		6/16/2010 2:38:32 PM	
Naphthalene	51.51	µg/L	2.0	80	0	64.4	20.5	109	0.311	32.1	
1-Methylnaphthalene	58.77	µg/L	2.0	80.2	0	73.3	23.1	116	1.95	32.7	
2-Methylnaphthalene	53.84	µg/L	2.0	80	0	67.3	19.5	112	1.13	34	
Acenaphthylene	63.91	µg/L	2.5	80.2	0	79.7	27.5	119	1.64	38.8	
Acenaphthene	67.32	µg/L	5.0	80	0	84.2	31	117	1.68	38.6	
Fluorene	4.970	µg/L	0.80	8.02	0	62.0	17.1	109	3.06	29.3	

Qualifiers:

E Estimated value
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit
H Holding times for preparation or analysis exceeded
NC Non-Chlorinated
R RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: 2nd Qtr NAPIS

Work Order: 1006415

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8310: PAHs											
Sample ID: LCSD-22626		*LCSD*				Batch ID:	**22626**	Analysis Date:		6/16/2010 2:38:32 PM	
Phenanthrene	3.330	µg/L	0.60	4.02	0	82.8	25.5	112	3.05	25	
Anthracene	3.400	µg/L	0.60	4.02	0	84.6	25.8	119	3.29	23.9	
Fluoranthene	7.100	µg/L	0.30	8.02	0	88.5	27.2	122	1.42	15.7	
Pyrene	6.530	µg/L	0.30	8.02	0	81.4	24.1	118	3.74	15.3	
Benz(a)anthracene	0.6600	µg/L	0.070	0.802	0	82.3	31.1	125	3.08	19	
Chrysene	3.350	µg/L	0.20	4.02	0	83.3	32.8	119	1.81	16.6	
Benzo(b)fluoranthene	0.9200	µg/L	0.10	1.002	0	91.8	24.4	117	4.44	21.7	
Benzo(k)fluoranthene	0.4800	µg/L	0.070	0.5	0	96.0	28.4	132	6.45	19.4	
Benzo(a)pyrene	0.4300	µg/L	0.070	0.502	0	85.7	32.4	119	0	16.7	
Dibenz(a,h)anthracene	0.8800	µg/L	0.070	1.002	0	87.8	33.9	120	0	17.3	
Benzo(g,h,i)perylene	0.8800	µg/L	0.080	1	0	88.0	35.2	113	0	18	
Indeno(1,2,3-cd)pyrene	1.790	µg/L	0.080	2.004	0	89.3	33.6	115	1.69	17.7	
Method: EPA Method 7470: Mercury											
Sample ID: MB-22641		*MBLK*				Batch ID:	**22641**	Analysis Date:		6/15/2010 4:42:02 PM	
Mercury	ND	mg/L	0.00020								
Sample ID: LCS-22641		*LCS*				Batch ID:	**22641**	Analysis Date:		6/15/2010 4:43:48 PM	
Mercury	0.005270	mg/L	0.00020	0.005	0	105	80	120			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: 2nd Qtr NAPIS **Work Order:** 1006415

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 6010B: Dissolved Metals											
Sample ID: MB		*MBLK*				Batch ID:	**R39277**	Analysis Date:	6/15/2010 3:40:09 PM		
Arsenic	ND	mg/L	0.020								
Barium	ND	mg/L	0.020								
Cadmium	ND	mg/L	0.0020								
Calcium	ND	mg/L	1.0								
Chromium	ND	mg/L	0.0060								
Lead	ND	mg/L	0.0050								
Magnesium	ND	mg/L	1.0								
Potassium	ND	mg/L	1.0								
Selenium	ND	mg/L	0.050								
Silver	ND	mg/L	0.0050								
Sodium	ND	mg/L	1.0								
Sample ID: MB		*MBLK*				Batch ID:	**R39313**	Analysis Date:	6/17/2010 9:58:18 AM		
Arsenic	ND	mg/L	0.020								
Barium	ND	mg/L	0.020								
Cadmium	ND	mg/L	0.0020								
Calcium	ND	mg/L	1.0								
Chromium	ND	mg/L	0.0060								
Lead	ND	mg/L	0.0050								
Magnesium	ND	mg/L	1.0								
Potassium	ND	mg/L	1.0								
Selenium	ND	mg/L	0.050								
Silver	ND	mg/L	0.0050								
Sodium	ND	mg/L	1.0								
Sample ID: LCS		*LCS*				Batch ID:	**R39277**	Analysis Date:	6/15/2010 3:43:18 PM		
Arsenic	0.5066	mg/L	0.020	0.5	0	101	80	120			
Barium	0.4994	mg/L	0.020	0.5	0	99.9	80	120			
Cadmium	0.5038	mg/L	0.0020	0.5	0	101	80	120			
Calcium	50.52	mg/L	1.0	50.5	0	100	80	120			
Chromium	0.5029	mg/L	0.0060	0.5	0	101	80	120			
Lead	0.5017	mg/L	0.0050	0.5	0	100	80	120			
Magnesium	51.05	mg/L	1.0	50.5	0	101	80	120			
Potassium	54.59	mg/L	1.0	55	0	99.3	80	120			
Selenium	0.5250	mg/L	0.050	0.5	0	105	80	120			
Silver	0.5128	mg/L	0.0050	0.5	0	103	80	120			
Sodium	54.15	mg/L	1.0	50.5	0	107	80	120			
Sample ID: LCS		*LCS*				Batch ID:	**R39313**	Analysis Date:	6/17/2010 10:01:05 AM		
Arsenic	0.5043	mg/L	0.020	0.5	0	101	80	120			
Barium	0.4713	mg/L	0.020	0.5	0	94.3	80	120			
Cadmium	0.4886	mg/L	0.0020	0.5	0	97.7	80	120			
Calcium	49.15	mg/L	1.0	50.5	0	97.3	80	120			
Chromium	0.4798	mg/L	0.0060	0.5	0	96.0	80	120			
Lead	0.4875	mg/L	0.0050	0.5	0	97.5	80	120			
Magnesium	49.46	mg/L	1.0	50.5	0	97.9	80	120			
Potassium	51.94	mg/L	1.0	55	0	94.4	80	120			

Qualifiers:

E Estimated value
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit
H Holding times for preparation or analysis exceeded
NC Non-Chlorinated
R RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: 2nd Qtr NAPIS **Work Order:** 1006415

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 6010B: Dissolved Metals											
Sample ID: LCS		*LCS*				Batch ID:	**R39313**	Analysis Date:	6/17/2010 10:01:05 AM		
Selenium	0.4898	mg/L	0.050	0.5	0	98.0	80	120			
Silver	0.4889	mg/L	0.0050	0.5	0	97.8	80	120			
Sodium	51.81	mg/L	1.0	50.5	0	103	80	120			
Method: EPA 6010B: Total Recoverble Metals											
Sample ID: MB-22623		*MBLK*				Batch ID:	**22623**	Analysis Date:	6/15/2010 3:46:26 PM		
Arsenic	ND	mg/L	0.020								
Barium	ND	mg/L	0.020								
Cadmium	ND	mg/L	0.0020								
Chromium	ND	mg/L	0.0060								
Lead	ND	mg/L	0.0050								
Selenium	ND	mg/L	0.050								
Silver	ND	mg/L	0.0050								
Sample ID: LCS-22623		*LCS*				Batch ID:	**22623**	Analysis Date:	6/15/2010 3:49:37 PM		
Arsenic	0.5208	mg/L	0.020	0.5	0	104	80	120			
Barium	0.5080	mg/L	0.020	0.5	0	102	80	120			
Cadmium	0.5068	mg/L	0.0020	0.5	0.0003	101	80	120			
Chromium	0.5167	mg/L	0.0060	0.5	0.001	103	80	120			
Lead	0.5119	mg/L	0.0050	0.5	0	102	80	120			
Selenium	0.5104	mg/L	0.050	0.5	0	102	80	120			
Silver	0.5186	mg/L	0.0050	0.5	0.0002	104	80	120			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name **WESTERN REFINING GALLU** Date Received: **6/11/2010**

Work Order Number **1006415** Received by: TLS

Sample ID labels checked by: TS
Initials

Checklist completed by: Signature 6/11/10 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?	**1.5°**	*<6° C Acceptable* If given sufficient time to cool.		

Number of preserved bottles checked for pH: 20

<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 7 Gallup, NM 87301

Phone #: 505 722-3833

email or Fax#: 505 722-0210

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time:
☒ Standard ☐ Rush _____

Project Name: 2nd Qtr NAPLS

Project #:

Project Manager: C Johnson

Sampler: C Johnson

On Ice: ☒ Yes ☐ No

Sample Temperature: 1.5

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	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	RCRA8 Metals - Total	RCRA8 Metals - DISS	Gen Chem		Air Bubbles (Y or N)
6/8/10	1450	H_2O	NAPLS-1	3-40ml	HCl	1	X															
				3-40ml	HCl	1			X													
				1 L	None	1						X										
				2-500ml	HNO_3	1												X				
				2-125ml	HNO_3	1													X			
				1-125ml	H_2SO_4	1														X		
				1-250ml	None	1														X		

Date:	Time:	Relinquished by:	Received by:	Date	Time
06-10-10	12:00			6/11/10	915
Date:	Time:	Relinquished by:	Received by:	Date	Time

Remarks: Gen Chem: Cations, Anions, pH, Spec Cond.

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 0210
email or Fax#: 505 722 3833
QA/QC Package: ☒ Standard ☐ Level 4 (Full Validation)
Accreditation: ☐ NELAP ☐ Other ____
☐ EDD (Type) ____

Turn-Around Time: ☒ Standard ☐ Rush ____
Project Name: 2nd QTR NAPLS
Project #:
Project Manager: C Johnson
Sampler: C Johnson
On Ice: ☒ Yes ☐ No
Sample Temperature: 2.2

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. 1006115	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)	RCRA Metals Total	RCRA Metals Diss	Gen Chem		Air Bubbles (Y or N)
6/10/10	1053	H_2O	KA3	3-40ml	HCl	2	X		X													
				3-40ml	HCl	2			X													
				1 L	None	2						X										
				2-500ml	HNO3	2												X				
				2-125ml	HNO3	2													X			
				1-250ml	None	2														X		
				1-125ml	H_2SO_4	2														X		
	1010		NAPLS-3	3-40ml	HCl	3	X															
				3-40ml	HCl	3			X													
				1-L	None	3						X										
				2-500ml	HNO3	3												X				
				2-125ml	HNO3	3													X			

Date:	Time:	Relinquished by:	Received by:	Date	Time
6/10/10	1402			6/11/10	915
Date:	Time:	Relinquished by:	Received by:	Date	Time

Remarks: Gen Chem. Cations, Anions, pH Spec Cond.

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

Phone #: 505 722 3833

email or Fax#: 505 722 0210

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time:
☒ Standard ☐ Rush _____

Project Name: 2nd QTR NAPLS

Project #:

Project Manager: C Johnson

Sampler: C Johnson

On Ice: Yes No

Sample Temperature: 2.2

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. 1006095	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)			GenChem		Air Bubbles (Y or N)
6/10/10	1010	H_2O	NAPLS-3	1-250	None	3														X		
			"	1-125	H_2SO_4	3														X		
	0918	1	NAPLS-2	3-40ml	HCl	4	X															
				3-40ml	HCl	4			X													
				2-500ml	HNO_3	4						X					X					
				2-125ml	HNO_3	4												X				
				1-L	None	4						X										
				1-250ml	None	4														X		
				1-125ml	H_2SO_4	4														X		
			TRIP Blank			5																

Date:	Time:	Relinquished by:	Received by:	Date	Time
6/10/10	1402			6/11/10	915
Date:	Time:	Relinquished by:	Received by:	Date	Time

Remarks: GenChem: Cations, Anions, pH SC

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.