Gallup (Oct 2010)
3rd Q 2010
OW-30
OW50
OW52
PW-3
ENTERED

VanHorn, Kristen, NMENV

From: Johnson, Cheryl [Cheryl.Johnson@wnr.com]
Sent: Thursday, October 28, 2010 11:57 AM
To: Van Horn, Kristen, NMENV; Chavez, Carl J, EMNRD
Cc: Riege, Ed; Larsen, Thurman
Subject: 3rd Quarter Results for OW-30, 50 and 52 wells and PW-3
Attachments: 1010069.pdf; 1010067.pdf

Good morning: Attached are the 3rd quarter Hall Lab results for OW-30, 50 and 52 wells along with the re-sample of PW-3.

OW-30 – Non-detect for BTEX. MTBE remains at 1.1ppm above the RRSL standard of 0.012 ppm. As you will note on the Hall Lab Report, extraction time exceeded the holding time of 7 days for EPA 8270 analysis (lab error). Even though the analysis came back as non-detect for EPA 8270, I will collect another sample and have Hall Labs re-run the test for 8270 only.

OW-50 and 52 – Non detect for BTEX + MTBE.

If you have any questions, please call or e-mail. Thank you, cj.

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, October 25, 2010

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

TEL: (505) 722-0231
FAX (505) 722-0210

RE: PW-3

Order No.: 1010069

Dear Cheryl Johnson:

Hall Environmental Analysis Laboratory, Inc. received 3 sample(s) on 9/24/2010 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

ACCREDITED IN ACCORDANCE WITH nelac

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

Hall Environmental Analysis Laboratory, Inc. **Date:** *25-Oct-10*

CLIENT: Western Refining Southwest, Gallup
Project: PW-3
Lab Order: 1010069

CASE NARRATIVE

Analytical notes for EPA Method 8270:
Sample PW-3 was extracted past the 7 day holding time.

Hall Environmental Analysis Laboratory, Inc.

Date: *25-Oct-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	PW-3
Lab Order:	1010069	**Collection Date:**	9/23/2010 10:40:00 AM
Project:	PW-3	**Date Received:**	9/24/2010
Lab ID:	1010069-01	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: **SRM**
Nitrate (As N)+Nitrite (As N)	ND	1.0		mg/L	5	10/5/2010 8:56:39 PM
EPA METHOD 7470: MERCURY						Analyst: **ELS**
Mercury	ND	0.00020		mg/L	1	10/14/2010 1:01:01 PM
EPA METHOD 6010B: DISSOLVED METALS						Analyst: **SNV**
Arsenic	ND	0.020		mg/L	1	10/18/2010 11:42:22 AM
Barium	ND	0.020		mg/L	1	10/18/2010 11:42:22 AM
Cadmium	ND	0.0020		mg/L	1	10/18/2010 11:42:22 AM
Calcium	240	5.0		mg/L	5	10/18/2010 11:48:07 AM
Chromium	ND	0.0060		mg/L	1	10/18/2010 11:42:22 AM
Copper	ND	0.0060		mg/L	1	10/18/2010 11:42:22 AM
Iron	0.098	0.020		mg/L	1	10/18/2010 11:42:22 AM
Lead	ND	0.0050		mg/L	1	10/18/2010 11:42:22 AM
Magnesium	48	1.0		mg/L	1	10/18/2010 11:42:22 AM
Manganese	ND	0.0020		mg/L	1	10/18/2010 11:42:22 AM
Potassium	1.5	1.0		mg/L	1	10/18/2010 11:42:22 AM
Selenium	ND	0.050		mg/L	1	10/18/2010 11:42:22 AM
Silver	ND	0.0050		mg/L	1	10/18/2010 11:42:22 AM
Sodium	50	1.0		mg/L	1	10/18/2010 11:42:22 AM
Zinc	ND	0.050		mg/L	1	10/19/2010 1:57:33 PM
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: **SNV**
Arsenic	ND	0.020		mg/L	1	10/6/2010 12:54:39 PM
Barium	ND	0.020		mg/L	1	10/6/2010 12:54:39 PM
Cadmium	ND	0.0020		mg/L	1	10/6/2010 12:54:39 PM
Chromium	ND	0.0060		mg/L	1	10/6/2010 12:54:39 PM
Copper	0.032	0.0060		mg/L	1	10/6/2010 12:54:39 PM
Iron	0.47	0.050		mg/L	1	10/6/2010 12:54:39 PM
Lead	0.0074	0.0050		mg/L	1	10/6/2010 12:54:39 PM
Manganese	0.0046	0.0020		mg/L	1	10/6/2010 12:54:39 PM
Selenium	ND	0.050		mg/L	1	10/6/2010 12:54:39 PM
Silver	ND	0.0050		mg/L	1	10/6/2010 12:54:39 PM
Zinc	0.037	0.020		mg/L	1	10/6/2010 12:54:39 PM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **JDC**
Acenaphthene	ND	10	H	µg/L	1	10/11/2010 12:01:20 AM
Acenaphthylene	ND	10	H	µg/L	1	10/11/2010 12:01:20 AM
Aniline	ND	10	H	µg/L	1	10/11/2010 12:01:20 AM
Anthracene	ND	10	H	µg/L	1	10/11/2010 12:01:20 AM
Azobenzene	ND	10	H	µg/L	1	10/11/2010 12:01:20 AM

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: *25-Oct-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	PW-3
Lab Order:	1010069	**Collection Date:**	9/23/2010 10:40:00 AM
Project:	PW-3	**Date Received:**	9/24/2010
Lab ID:	1010069-01	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Benz(a)anthracene	ND	10	H	µg/L	1	10/11/2010 12:01:20 AM
Benzo(a)pyrene	ND	10	H	µg/L	1	10/11/2010 12:01:20 AM
Benzo(b)fluoranthene	ND	10	H	µg/L	1	10/11/2010 12:01:20 AM
Benzo(g,h,i)perylene	ND	10	H	µg/L	1	10/11/2010 12:01:20 AM
Benzo(k)fluoranthene	ND	10	H	µg/L	1	10/11/2010 12:01:20 AM
Benzoic acid	ND	20	H	µg/L	1	10/11/2010 12:01:20 AM
Benzyl alcohol	ND	10	H	µg/L	1	10/11/2010 12:01:20 AM
Bis(2-chloroethoxy)methane	ND	10	H	µg/L	1	10/11/2010 12:01:20 AM
Bis(2-chloroethyl)ether	ND	10	H	µg/L	1	10/11/2010 12:01:20 AM
Bis(2-chloroisopropyl)ether	ND	10	H	µg/L	1	10/11/2010 12:01:20 AM
Bis(2-ethylhexyl)phthalate	ND	10	H	µg/L	1	10/11/2010 12:01:20 AM
4-Bromophenyl phenyl ether	ND	10	H	µg/L	1	10/11/2010 12:01:20 AM
Butyl benzyl phthalate	ND	10	H	µg/L	1	10/11/2010 12:01:20 AM
Carbazole	ND	10	H	µg/L	1	10/11/2010 12:01:20 AM
4-Chloro-3-methylphenol	ND	10	H	µg/L	1	10/11/2010 12:01:20 AM
4-Chloroaniline	ND	10	H	µg/L	1	10/11/2010 12:01:20 AM
2-Chloronaphthalene	ND	10	H	µg/L	1	10/11/2010 12:01:20 AM
2-Chlorophenol	ND	10	H	µg/L	1	10/11/2010 12:01:20 AM
4-Chlorophenyl phenyl ether	ND	10	H	µg/L	1	10/11/2010 12:01:20 AM
Chrysene	ND	10	H	µg/L	1	10/11/2010 12:01:20 AM
Di-n-butyl phthalate	ND	10	H	µg/L	1	10/11/2010 12:01:20 AM
Di-n-octyl phthalate	ND	10	H	µg/L	1	10/11/2010 12:01:20 AM
Dibenz(a,h)anthracene	ND	10	H	µg/L	1	10/11/2010 12:01:20 AM
Dibenzofuran	ND	10	H	µg/L	1	10/11/2010 12:01:20 AM
1,2-Dichlorobenzene	ND	10	H	µg/L	1	10/11/2010 12:01:20 AM
1,3-Dichlorobenzene	ND	10	H	µg/L	1	10/11/2010 12:01:20 AM
1,4-Dichlorobenzene	ND	10	H	µg/L	1	10/11/2010 12:01:20 AM
3,3'-Dichlorobenzidine	ND	10	H	µg/L	1	10/11/2010 12:01:20 AM
Diethyl phthalate	ND	10	H	µg/L	1	10/11/2010 12:01:20 AM
Dimethyl phthalate	ND	10	H	µg/L	1	10/11/2010 12:01:20 AM
2,4-Dichlorophenol	ND	20	H	µg/L	1	10/11/2010 12:01:20 AM
2,4-Dimethylphenol	ND	10	H	µg/L	1	10/11/2010 12:01:20 AM
4,6-Dinitro-2-methylphenol	ND	20	H	µg/L	1	10/11/2010 12:01:20 AM
2,4-Dinitrophenol	ND	20	H	µg/L	1	10/11/2010 12:01:20 AM
2,4-Dinitrotoluene	ND	10	H	µg/L	1	10/11/2010 12:01:20 AM
2,6-Dinitrotoluene	ND	10	H	µg/L	1	10/11/2010 12:01:20 AM
Fluoranthene	ND	10	H	µg/L	1	10/11/2010 12:01:20 AM
Fluorene	ND	10	H	µg/L	1	10/11/2010 12:01:20 AM
Hexachlorobenzene	ND	10	H	µg/L	1	10/11/2010 12:01:20 AM
Hexachlorobutadiene	ND	10	H	µg/L	1	10/11/2010 12:01:20 AM
Hexachlorocyclopentadiene	ND	10	H	µg/L	1	10/11/2010 12:01:20 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: *25-Oct-10*

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Lab Order:	1010069	**Collection Date:**	9/23/2010 10:40:00 AM
Project:	PW-3	**Date Received:**	9/24/2010
Lab ID:	1010069-01	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Hexachloroethane	ND	10	H	µg/L	1	10/11/2010 12:01:20 AM
Indeno(1,2,3-cd)pyrene	ND	10	H	µg/L	1	10/11/2010 12:01:20 AM
Isophorone	ND	10	H	µg/L	1	10/11/2010 12:01:20 AM
2-Methylnaphthalene	ND	10	H	µg/L	1	10/11/2010 12:01:20 AM
2-Methylphenol	ND	10	H	µg/L	1	10/11/2010 12:01:20 AM
3+4-Methylphenol	ND	10	H	µg/L	1	10/11/2010 12:01:20 AM
N-Nitrosodi-n-propylamine	ND	10	H	µg/L	1	10/11/2010 12:01:20 AM
N-Nitrosodimethylamine	ND	10	H	µg/L	1	10/11/2010 12:01:20 AM
N-Nitrosodiphenylamine	ND	10	H	µg/L	1	10/11/2010 12:01:20 AM
Naphthalene	ND	10	H	µg/L	1	10/11/2010 12:01:20 AM
2-Nitroaniline	ND	10	H	µg/L	1	10/11/2010 12:01:20 AM
3-Nitroaniline	ND	10	H	µg/L	1	10/11/2010 12:01:20 AM
4-Nitroaniline	ND	20	H	µg/L	1	10/11/2010 12:01:20 AM
Nitrobenzene	ND	10	H	µg/L	1	10/11/2010 12:01:20 AM
2-Nitrophenol	ND	10	H	µg/L	1	10/11/2010 12:01:20 AM
4-Nitrophenol	ND	10	H	µg/L	1	10/11/2010 12:01:20 AM
Pentachlorophenol	ND	20	H	µg/L	1	10/11/2010 12:01:20 AM
Phenanthrene	ND	10	H	µg/L	1	10/11/2010 12:01:20 AM
Phenol	ND	10	H	µg/L	1	10/11/2010 12:01:20 AM
Pyrene	ND	10	H	µg/L	1	10/11/2010 12:01:20 AM
Pyridine	ND	10	H	µg/L	1	10/11/2010 12:01:20 AM
1,2,4-Trichlorobenzene	ND	10	H	µg/L	1	10/11/2010 12:01:20 AM
2,4,5-Trichlorophenol	ND	10	H	µg/L	1	10/11/2010 12:01:20 AM
2,4,6-Trichlorophenol	ND	10	H	µg/L	1	10/11/2010 12:01:20 AM
Surr: 2,4,6-Tribromophenol	63.5	16.6-150	H	%REC	1	10/11/2010 12:01:20 AM
Surr: 2-Fluorobiphenyl	67.9	19.6-134	H	%REC	1	10/11/2010 12:01:20 AM
Surr: 2-Fluorophenol	50.6	9.54-113	H	%REC	1	10/11/2010 12:01:20 AM
Surr: 4-Terphenyl-d14	66.2	22.7-145	H	%REC	1	10/11/2010 12:01:20 AM
Surr: Nitrobenzene-d5	71.6	14.6-134	H	%REC	1	10/11/2010 12:01:20 AM
Surr: Phenol-d5	38.9	10.7-80.3	H	%REC	1	10/11/2010 12:01:20 AM
EPA METHOD 8260B: VOLATILES						Analyst: RAA
Benzene	ND	1.0		µg/L	1	10/3/2010 2:24:17 AM
Toluene	ND	1.0		µg/L	1	10/3/2010 2:24:17 AM
Ethylbenzene	ND	1.0		µg/L	1	10/3/2010 2:24:17 AM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	10/3/2010 2:24:17 AM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	10/3/2010 2:24:17 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	10/3/2010 2:24:17 AM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	10/3/2010 2:24:17 AM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	10/3/2010 2:24:17 AM
Naphthalene	ND	2.0		µg/L	1	10/3/2010 2:24:17 AM

Qualifiers:

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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: *25-Oct-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	PW-3
Lab Order:	1010069	**Collection Date:**	9/23/2010 10:40:00 AM
Project:	PW-3	**Date Received:**	9/24/2010
Lab ID:	1010069-01	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
1-Methylnaphthalene	ND	4.0		µg/L	1	10/3/2010 2:24:17 AM
2-Methylnaphthalene	ND	4.0		µg/L	1	10/3/2010 2:24:17 AM
Acetone	ND	10		µg/L	1	10/3/2010 2:24:17 AM
Bromobenzene	ND	1.0		µg/L	1	10/3/2010 2:24:17 AM
Bromodichloromethane	ND	1.0		µg/L	1	10/3/2010 2:24:17 AM
Bromoform	ND	1.0		µg/L	1	10/3/2010 2:24:17 AM
Bromomethane	ND	3.0		µg/L	1	10/3/2010 2:24:17 AM
2-Butanone	ND	10		µg/L	1	10/3/2010 2:24:17 AM
Carbon disulfide	ND	10		µg/L	1	10/3/2010 2:24:17 AM
Carbon Tetrachloride	ND	1.0		µg/L	1	10/3/2010 2:24:17 AM
Chlorobenzene	ND	1.0		µg/L	1	10/3/2010 2:24:17 AM
Chloroethane	ND	2.0		µg/L	1	10/3/2010 2:24:17 AM
Chloroform	ND	1.0		µg/L	1	10/3/2010 2:24:17 AM
Chloromethane	ND	3.0		µg/L	1	10/3/2010 2:24:17 AM
2-Chlorotoluene	ND	1.0		µg/L	1	10/3/2010 2:24:17 AM
4-Chlorotoluene	ND	1.0		µg/L	1	10/3/2010 2:24:17 AM
cis-1,2-DCE	ND	1.0		µg/L	1	10/3/2010 2:24:17 AM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	10/3/2010 2:24:17 AM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	10/3/2010 2:24:17 AM
Dibromochloromethane	ND	1.0		µg/L	1	10/3/2010 2:24:17 AM
Dibromomethane	ND	1.0		µg/L	1	10/3/2010 2:24:17 AM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	10/3/2010 2:24:17 AM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	10/3/2010 2:24:17 AM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	10/3/2010 2:24:17 AM
Dichlorodifluoromethane	ND	1.0		µg/L	1	10/3/2010 2:24:17 AM
1,1-Dichloroethane	ND	1.0		µg/L	1	10/3/2010 2:24:17 AM
1,1-Dichloroethene	ND	1.0		µg/L	1	10/3/2010 2:24:17 AM
1,2-Dichloropropane	ND	1.0		µg/L	1	10/3/2010 2:24:17 AM
1,3-Dichloropropane	ND	1.0		µg/L	1	10/3/2010 2:24:17 AM
2,2-Dichloropropane	ND	2.0		µg/L	1	10/3/2010 2:24:17 AM
1,1-Dichloropropene	ND	1.0		µg/L	1	10/3/2010 2:24:17 AM
Hexachlorobutadiene	ND	1.0		µg/L	1	10/3/2010 2:24:17 AM
2-Hexanone	ND	10		µg/L	1	10/3/2010 2:24:17 AM
Isopropylbenzene	ND	1.0		µg/L	1	10/3/2010 2:24:17 AM
4-Isopropyltoluene	ND	1.0		µg/L	1	10/3/2010 2:24:17 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	10/3/2010 2:24:17 AM
Methylene Chloride	ND	3.0		µg/L	1	10/3/2010 2:24:17 AM
n-Butylbenzene	ND	1.0		µg/L	1	10/3/2010 2:24:17 AM
n-Propylbenzene	ND	1.0		µg/L	1	10/3/2010 2:24:17 AM
sec-Butylbenzene	ND	1.0		µg/L	1	10/3/2010 2:24:17 AM
Styrene	ND	1.0		µg/L	1	10/3/2010 2:24:17 AM

Qualifiers:

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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
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Hall Environmental Analysis Laboratory, Inc.

Date: *25-Oct-10*

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Project:	PW-3	**Date Received:**	9/24/2010
Lab ID:	1010069-01	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**
tert-Butylbenzene	ND	1.0		µg/L	1	10/3/2010 2:24:17 AM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	10/3/2010 2:24:17 AM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	10/3/2010 2:24:17 AM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	10/3/2010 2:24:17 AM
trans-1,2-DCE	ND	1.0		µg/L	1	10/3/2010 2:24:17 AM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	10/3/2010 2:24:17 AM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	10/3/2010 2:24:17 AM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	10/3/2010 2:24:17 AM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	10/3/2010 2:24:17 AM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	10/3/2010 2:24:17 AM
Trichloroethene (TCE)	ND	1.0		µg/L	1	10/3/2010 2:24:17 AM
Trichlorofluoromethane	ND	1.0		µg/L	1	10/3/2010 2:24:17 AM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	10/3/2010 2:24:17 AM
Vinyl chloride	ND	1.0		µg/L	1	10/3/2010 2:24:17 AM
Xylenes, Total	ND	1.5		µg/L	1	10/3/2010 2:24:17 AM
Surr: 1,2-Dichloroethane-d4	112	54.6-141		%REC	1	10/3/2010 2:24:17 AM
Surr: 4-Bromofluorobenzene	102	60.1-133		%REC	1	10/3/2010 2:24:17 AM
Surr: Dibromofluoromethane	109	78.5-130		%REC	1	10/3/2010 2:24:17 AM
Surr: Toluene-d8	107	79.5-126		%REC	1	10/3/2010 2:24:17 AM

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Hall Environmental Analysis Laboratory, Inc.

Date: *25-Oct-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	Field Blank
Lab Order:	1010069	**Collection Date:**	9/23/2010 10:30:00 AM
Project:	PW-3	**Date Received:**	9/24/2010
Lab ID:	1010069-02	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
Benzene	ND	1.0		µg/L	1	10/3/2010 1:32:11 AM
Toluene	ND	1.0		µg/L	1	10/3/2010 1:32:11 AM
Ethylbenzene	ND	1.0		µg/L	1	10/3/2010 1:32:11 AM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	10/3/2010 1:32:11 AM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	10/3/2010 1:32:11 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	10/3/2010 1:32:11 AM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	10/3/2010 1:32:11 AM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	10/3/2010 1:32:11 AM
Naphthalene	ND	2.0		µg/L	1	10/3/2010 1:32:11 AM
1-Methylnaphthalene	ND	4.0		µg/L	1	10/3/2010 1:32:11 AM
2-Methylnaphthalene	ND	4.0		µg/L	1	10/3/2010 1:32:11 AM
Acetone	ND	10		µg/L	1	10/3/2010 1:32:11 AM
Bromobenzene	ND	1.0		µg/L	1	10/3/2010 1:32:11 AM
Bromodichloromethane	ND	1.0		µg/L	1	10/3/2010 1:32:11 AM
Bromoform	ND	1.0		µg/L	1	10/3/2010 1:32:11 AM
Bromomethane	ND	3.0		µg/L	1	10/3/2010 1:32:11 AM
2-Butanone	ND	10		µg/L	1	10/3/2010 1:32:11 AM
Carbon disulfide	ND	10		µg/L	1	10/3/2010 1:32:11 AM
Carbon Tetrachloride	ND	1.0		µg/L	1	10/3/2010 1:32:11 AM
Chlorobenzene	ND	1.0		µg/L	1	10/3/2010 1:32:11 AM
Chloroethane	ND	2.0		µg/L	1	10/3/2010 1:32:11 AM
Chloroform	ND	1.0		µg/L	1	10/3/2010 1:32:11 AM
Chloromethane	ND	3.0		µg/L	1	10/3/2010 1:32:11 AM
2-Chlorotoluene	ND	1.0		µg/L	1	10/3/2010 1:32:11 AM
4-Chlorotoluene	ND	1.0		µg/L	1	10/3/2010 1:32:11 AM
cis-1,2-DCE	ND	1.0		µg/L	1	10/3/2010 1:32:11 AM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	10/3/2010 1:32:11 AM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	10/3/2010 1:32:11 AM
Dibromochloromethane	ND	1.0		µg/L	1	10/3/2010 1:32:11 AM
Dibromomethane	ND	1.0		µg/L	1	10/3/2010 1:32:11 AM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	10/3/2010 1:32:11 AM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	10/3/2010 1:32:11 AM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	10/3/2010 1:32:11 AM
Dichlorodifluoromethane	ND	1.0		µg/L	1	10/3/2010 1:32:11 AM
1,1-Dichloroethane	ND	1.0		µg/L	1	10/3/2010 1:32:11 AM
1,1-Dichloroethene	ND	1.0		µg/L	1	10/3/2010 1:32:11 AM
1,2-Dichloropropane	ND	1.0		µg/L	1	10/3/2010 1:32:11 AM
1,3-Dichloropropane	ND	1.0		µg/L	1	10/3/2010 1:32:11 AM
2,2-Dichloropropane	ND	2.0		µg/L	1	10/3/2010 1:32:11 AM
1,1-Dichloropropene	ND	1.0		µg/L	1	10/3/2010 1:32:11 AM
Hexachlorobutadiene	ND	1.0		µg/L	1	10/3/2010 1:32:11 AM

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: *25-Oct-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	Field Blank
Lab Order:	1010069	**Collection Date:**	9/23/2010 10:30:00 AM
Project:	PW-3	**Date Received:**	9/24/2010
Lab ID:	1010069-02	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**
2-Hexanone	ND	10		µg/L	1	10/3/2010 1:32:11 AM
Isopropylbenzene	ND	1.0		µg/L	1	10/3/2010 1:32:11 AM
4-Isopropyltoluene	ND	1.0		µg/L	1	10/3/2010 1:32:11 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	10/3/2010 1:32:11 AM
Methylene Chloride	ND	3.0		µg/L	1	10/3/2010 1:32:11 AM
n-Butylbenzene	ND	1.0		µg/L	1	10/3/2010 1:32:11 AM
n-Propylbenzene	ND	1.0		µg/L	1	10/3/2010 1:32:11 AM
sec-Butylbenzene	ND	1.0		µg/L	1	10/3/2010 1:32:11 AM
Styrene	ND	1.0		µg/L	1	10/3/2010 1:32:11 AM
tert-Butylbenzene	ND	1.0		µg/L	1	10/3/2010 1:32:11 AM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	10/3/2010 1:32:11 AM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	10/3/2010 1:32:11 AM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	10/3/2010 1:32:11 AM
trans-1,2-DCE	ND	1.0		µg/L	1	10/3/2010 1:32:11 AM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	10/3/2010 1:32:11 AM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	10/3/2010 1:32:11 AM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	10/3/2010 1:32:11 AM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	10/3/2010 1:32:11 AM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	10/3/2010 1:32:11 AM
Trichloroethene (TCE)	ND	1.0		µg/L	1	10/3/2010 1:32:11 AM
Trichlorofluoromethane	ND	1.0		µg/L	1	10/3/2010 1:32:11 AM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	10/3/2010 1:32:11 AM
Vinyl chloride	ND	1.0		µg/L	1	10/3/2010 1:32:11 AM
Xylenes, Total	ND	1.5		µg/L	1	10/3/2010 1:32:11 AM
Surr: 1,2-Dichloroethane-d4	115	54.6-141		%REC	1	10/3/2010 1:32:11 AM
Surr: 4-Bromofluorobenzene	111	60.1-133		%REC	1	10/3/2010 1:32:11 AM
Surr: Dibromofluoromethane	109	78.5-130		%REC	1	10/3/2010 1:32:11 AM
Surr: Toluene-d8	104	79.5-126		%REC	1	10/3/2010 1:32:11 AM

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: *25-Oct-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	Trip Blank
Lab Order:	1010069	**Collection Date:**	
Project:	PW-3	**Date Received:**	9/24/2010
Lab ID:	1010069-03	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
Benzene	ND	1.0		µg/L	1	10/3/2010 1:58:15 AM
Toluene	ND	1.0		µg/L	1	10/3/2010 1:58:15 AM
Ethylbenzene	ND	1.0		µg/L	1	10/3/2010 1:58:15 AM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	10/3/2010 1:58:15 AM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	10/3/2010 1:58:15 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	10/3/2010 1:58:15 AM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	10/3/2010 1:58:15 AM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	10/3/2010 1:58:15 AM
Naphthalene	ND	2.0		µg/L	1	10/3/2010 1:58:15 AM
1-Methylnaphthalene	ND	4.0		µg/L	1	10/3/2010 1:58:15 AM
2-Methylnaphthalene	ND	4.0		µg/L	1	10/3/2010 1:58:15 AM
Acetone	ND	10		µg/L	1	10/3/2010 1:58:15 AM
Bromobenzene	ND	1.0		µg/L	1	10/3/2010 1:58:15 AM
Bromodichloromethane	ND	1.0		µg/L	1	10/3/2010 1:58:15 AM
Bromoform	ND	1.0		µg/L	1	10/3/2010 1:58:15 AM
Bromomethane	ND	3.0		µg/L	1	10/3/2010 1:58:15 AM
2-Butanone	ND	10		µg/L	1	10/3/2010 1:58:15 AM
Carbon disulfide	ND	10		µg/L	1	10/3/2010 1:58:15 AM
Carbon Tetrachloride	ND	1.0		µg/L	1	10/3/2010 1:58:15 AM
Chlorobenzene	ND	1.0		µg/L	1	10/3/2010 1:58:15 AM
Chloroethane	ND	2.0		µg/L	1	10/3/2010 1:58:15 AM
Chloroform	ND	1.0		µg/L	1	10/3/2010 1:58:15 AM
Chloromethane	ND	3.0		µg/L	1	10/3/2010 1:58:15 AM
2-Chlorotoluene	ND	1.0		µg/L	1	10/3/2010 1:58:15 AM
4-Chlorotoluene	ND	1.0		µg/L	1	10/3/2010 1:58:15 AM
cis-1,2-DCE	ND	1.0		µg/L	1	10/3/2010 1:58:15 AM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	10/3/2010 1:58:15 AM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	10/3/2010 1:58:15 AM
Dibromochloromethane	ND	1.0		µg/L	1	10/3/2010 1:58:15 AM
Dibromomethane	ND	1.0		µg/L	1	10/3/2010 1:58:15 AM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	10/3/2010 1:58:15 AM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	10/3/2010 1:58:15 AM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	10/3/2010 1:58:15 AM
Dichlorodifluoromethane	ND	1.0		µg/L	1	10/3/2010 1:58:15 AM
1,1-Dichloroethane	ND	1.0		µg/L	1	10/3/2010 1:58:15 AM
1,1-Dichloroethene	ND	1.0		µg/L	1	10/3/2010 1:58:15 AM
1,2-Dichloropropane	ND	1.0		µg/L	1	10/3/2010 1:58:15 AM
1,3-Dichloropropane	ND	1.0		µg/L	1	10/3/2010 1:58:15 AM
2,2-Dichloropropane	ND	2.0		µg/L	1	10/3/2010 1:58:15 AM
1,1-Dichloropropene	ND	1.0		µg/L	1	10/3/2010 1:58:15 AM
Hexachlorobutadiene	ND	1.0		µg/L	1	10/3/2010 1:58:15 AM

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: *25-Oct-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	Trip Blank
Lab Order:	1010069	**Collection Date:**	
Project:	PW-3	**Date Received:**	9/24/2010
Lab ID:	1010069-03	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
2-Hexanone	ND	10		µg/L	1	10/3/2010 1:58:15 AM
Isopropylbenzene	ND	1.0		µg/L	1	10/3/2010 1:58:15 AM
4-Isopropyltoluene	ND	1.0		µg/L	1	10/3/2010 1:58:15 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	10/3/2010 1:58:15 AM
Methylene Chloride	ND	3.0		µg/L	1	10/3/2010 1:58:15 AM
n-Butylbenzene	ND	1.0		µg/L	1	10/3/2010 1:58:15 AM
n-Propylbenzene	ND	1.0		µg/L	1	10/3/2010 1:58:15 AM
sec-Butylbenzene	ND	1.0		µg/L	1	10/3/2010 1:58:15 AM
Styrene	ND	1.0		µg/L	1	10/3/2010 1:58:15 AM
tert-Butylbenzene	ND	1.0		µg/L	1	10/3/2010 1:58:15 AM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	10/3/2010 1:58:15 AM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	10/3/2010 1:58:15 AM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	10/3/2010 1:58:15 AM
trans-1,2-DCE	ND	1.0		µg/L	1	10/3/2010 1:58:15 AM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	10/3/2010 1:58:15 AM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	10/3/2010 1:58:15 AM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	10/3/2010 1:58:15 AM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	10/3/2010 1:58:15 AM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	10/3/2010 1:58:15 AM
Trichloroethene (TCE)	ND	1.0		µg/L	1	10/3/2010 1:58:15 AM
Trichlorofluoromethane	ND	1.0		µg/L	1	10/3/2010 1:58:15 AM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	10/3/2010 1:58:15 AM
Vinyl chloride	ND	1.0		µg/L	1	10/3/2010 1:58:15 AM
Xylenes, Total	ND	1.5		µg/L	1	10/3/2010 1:58:15 AM
Surr: 1,2-Dichloroethane-d4	108	54.6-141		%REC	1	10/3/2010 1:58:15 AM
Surr: 4-Bromofluorobenzene	108	60.1-133		%REC	1	10/3/2010 1:58:15 AM
Surr: Dibromofluoromethane	106	78.5-130		%REC	1	10/3/2010 1:58:15 AM
Surr: Toluene-d8	109	79.5-126		%REC	1	10/3/2010 1:58:15 AM

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

LABORATORY ANALYTICAL REPORT

Client: Hall Environmental
Project: 1010069
Lab ID: B10100459-001
Client Sample ID 1010069-01D, -01F, -01H PW-3

Report Date: 10/13/10
Collection Date: 09/23/10 10:40
DateReceived: 10/05/10
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
INORGANICS							
Cyanide, Total	ND	mg/L		0.005		Kelada mod	10/07/10 13:45 / kjp
METALS, DISSOLVED							
Uranium	0.001	mg/L		0.001		SW6020	10/11/10 15:22 / tao
METALS, TOTAL							
Uranium	0.001	mg/L		0.001		SW6020	10/13/10 00:21 / tao

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: Hall Environmental
Project: 1010069

Report Date: 10/13/10
Work Order: B10100459

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: Kelada mod									Analytical Run: AUTOAN201-B_101007B	
Sample ID: ICV-1		Initial Calibration Verification Standard							10/07/10 13:32	
Cyanide, Total		0.152	mg/L	0.0050	101	90	110			
Method: Kelada mod									Batch: 49607	
Sample ID: LCS-49607		Laboratory Control Sample				Run: AUTOAN201-B_101007B			10/07/10 13:38	
Cyanide, Total		0.106	mg/L	0.0050	106	90	110			
Sample ID: MB-49607		Method Blank				Run: AUTOAN201-B_101007B			10/07/10 13:41	
Cyanide, Total		ND	mg/L	0.002						
Sample ID: B10100377-002EMS		Sample Matrix Spike				Run: AUTOAN201-B_101007B			10/07/10 14:32	
Cyanide, Total		0.131	mg/L	0.0050	112	90	110			S
Sample ID: B10100377-002EMSD		Sample Matrix Spike Duplicate				Run: AUTOAN201-B_101007B			10/07/10 14:33	
Cyanide, Total		0.133	mg/L	0.0050	114	90	110	1.2	10	S

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: Hall Environmental
Project: 1010069

Report Date: 10/13/10
Work Order: B10100459

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW6020									Analytical Run: ICPMS202-B_101011A	
Sample ID: QCS - 100607A,10072		Initial Calibration Verification Standard								10/11/10 08:22
Uranium		0.0193	mg/L	0.00030	96	90	110			
Sample ID: ICSA-ME091229B		Interference Check Sample A								10/11/10 08:26
Uranium		2.70E-05	mg/L	0.00030						
Sample ID: ICSAB-ME091229B, 10		Interference Check Sample AB								10/11/10 08:39
Uranium		4.00E-06	mg/L	0.00030		0	0			
Method: SW6020										Batch: R155343
Sample ID: B10100211-002AMS		Sample Matrix Spike				Run: ICPMS202-B_101011A				10/11/10 13:26
Uranium		0.251	mg/L	0.0010	96	75	125			
Sample ID: B10100211-002AMSD		Sample Matrix Spike Duplicate				Run: ICPMS202-B_101011A				10/11/10 13:30
Uranium		0.258	mg/L	0.0010	99	75	125	2.5	20	
Sample ID: B10100211-003ADIL		Serial Dilution				Run: ICPMS202-B_101011A				10/11/10 13:46
Uranium		0.0126	mg/L	0.0010		0	0			
Sample ID: LRB		Method Blank				Run: ICPMS202-B_101011A				10/11/10 10:41
Uranium		ND	mg/L	2E-05						
Sample ID: LFB		Laboratory Fortified Blank				Run: ICPMS202-B_101011A				10/11/10 10:45
Uranium		0.0490	mg/L	0.00030	98	85	115			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: Hall Environmental
Project: 1010069

Report Date: 10/13/10
Work Order: B10100459

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW6020									Analytical Run: ICPMS202-B_101012A	
Sample ID: QCS - 100607A,10072		Initial Calibration Verification Standard							10/12/10 12:42	
Uranium		0.0192	mg/L	0.00030	96	90	110			
Sample ID: ICSA-ME091229B		Interference Check Sample A							10/12/10 12:46	
Uranium		1.40E-05	mg/L	0.00030						
Sample ID: ICSAB-ME091229B, 10		Interference Check Sample AB							10/12/10 12:50	
Uranium		2.00E-06	mg/L	0.00030		0	0			
Method: SW6020										Batch: 49638
Sample ID: MB-49638		Method Blank				Run: ICPMS202-B_101012A			10/13/10 00:01	
Uranium		ND	mg/L	2E-05						
Sample ID: B10100459-001BDIL		Serial Dilution				Run: ICPMS202-B_101012A			10/13/10 00:25	
Uranium		0.00175	mg/L	0.0010		0	0		10	N
Sample ID: LCS-49638		Laboratory Control Sample				Run: ICPMS202-B_101012A			10/13/10 00:37	
Uranium		0.503	mg/L	0.0010	101	85	115			
Sample ID: B10100459-001BMS3		Sample Matrix Spike				Run: ICPMS202-B_101012A			10/13/10 00:41	
Uranium		0.533	mg/L	0.0010	106	75	125			
Sample ID: B10100459-001BMSD3		Sample Matrix Spike Duplicate				Run: ICPMS202-B_101012A			10/13/10 00:45	
Uranium		0.555	mg/L	0.0010	111	75	125	4	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

N - The analyte concentration was not sufficiently high to calculate a RPD for the serial dilution test.

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: PW-3 **Work Order:** 1010069

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:	**R41378**	Analysis Date:	10/5/2010 4:00:41 PM		
Nitrate (As N)+Nitrite (As N)	ND	mg/L	0.20								
Sample ID: LCS		*LCS*				Batch ID:	**R41378**	Analysis Date:	10/5/2010 4:18:05 PM		
Nitrate (As N)+Nitrite (As N)	3.476	mg/L	0.20	3.5	0	99.3	90	110			
Sample ID: LCSD		*LCSD*				Batch ID:	**R41378**	Analysis Date:	10/5/2010 10:58:32 PM		
Nitrate (As N)+Nitrite (As N)	3.550	mg/L	0.20	3.5	0	101	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: PW-3 **Work Order:** 1010069

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260B: VOLATILES											
Sample ID: 5ml-rb		*MBLK*				Batch ID:	**R41337**	Analysis Date:	10/2/2010 11:49:14 AM		
Benzene	ND	µg/L	1.0								
Toluene	ND	µg/L	1.0								
Ethylbenzene	ND	µg/L	1.0								
Methyl tert-butyl ether (MTBE)	ND	µg/L	1.0								
1,2,4-Trimethylbenzene	ND	µg/L	1.0								
1,3,5-Trimethylbenzene	ND	µg/L	1.0								
1,2-Dichloroethane (EDC)	ND	µg/L	1.0								
1,2-Dibromoethane (EDB)	ND	µg/L	1.0								
Naphthalene	ND	µg/L	2.0								
1-Methylnaphthalene	ND	µg/L	4.0								
2-Methylnaphthalene	ND	µg/L	4.0								
Acetone	ND	µg/L	10								
Bromobenzene	ND	µg/L	1.0								
Bromodichloromethane	ND	µg/L	1.0								
Bromoform	ND	µg/L	1.0								
Bromomethane	ND	µg/L	3.0								
2-Butanone	ND	µg/L	10								
Carbon disulfide	ND	µg/L	10								
Carbon Tetrachloride	ND	µg/L	1.0								
Chlorobenzene	ND	µg/L	1.0								
Chloroethane	ND	µg/L	2.0								
Chloroform	ND	µg/L	1.0								
Chloromethane	ND	µg/L	3.0								
2-Chlorotoluene	ND	µg/L	1.0								
4-Chlorotoluene	ND	µg/L	1.0								
cis-1,2-DCE	ND	µg/L	1.0								
cis-1,3-Dichloropropene	ND	µg/L	1.0								
1,2-Dibromo-3-chloropropane	ND	µg/L	2.0								
Dibromochloromethane	ND	µg/L	1.0								
Dibromomethane	ND	µg/L	1.0								
1,2-Dichlorobenzene	ND	µg/L	1.0								
1,3-Dichlorobenzene	ND	µg/L	1.0								
1,4-Dichlorobenzene	ND	µg/L	1.0								
Dichlorodifluoromethane	ND	µg/L	1.0								
1,1-Dichloroethane	ND	µg/L	1.0								
1,1-Dichloroethene	ND	µg/L	1.0								
1,2-Dichloropropane	ND	µg/L	1.0								
1,3-Dichloropropane	ND	µg/L	1.0								
2,2-Dichloropropane	ND	µg/L	2.0								
1,1-Dichloropropene	ND	µg/L	1.0								
Hexachlorobutadiene	ND	µg/L	1.0								
2-Hexanone	ND	µg/L	10								
Isopropylbenzene	ND	µg/L	1.0								
4-Isopropyltoluene	ND	µg/L	1.0								

Qualifiers:

E	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: PW-3 **Work Order:** 1010069

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260B: VOLATILES											
Sample ID: 5ml-rb		*MBLK*				Batch ID:	**R41337**	Analysis Date:	10/2/2010 11:49:14 AM		
4-Methyl-2-pentanone	ND	µg/L	10								
Methylene Chloride	ND	µg/L	3.0								
n-Butylbenzene	ND	µg/L	1.0								
n-Propylbenzene	ND	µg/L	1.0								
sec-Butylbenzene	ND	µg/L	1.0								
Styrene	ND	µg/L	1.0								
tert-Butylbenzene	ND	µg/L	1.0								
1,1,1,2-Tetrachloroethane	ND	µg/L	1.0								
1,1,2,2-Tetrachloroethane	ND	µg/L	2.0								
Tetrachloroethene (PCE)	ND	µg/L	1.0								
trans-1,2-DCE	ND	µg/L	1.0								
trans-1,3-Dichloropropene	ND	µg/L	1.0								
1,2,3-Trichlorobenzene	ND	µg/L	1.0								
1,2,4-Trichlorobenzene	ND	µg/L	1.0								
1,1,1-Trichloroethane	ND	µg/L	1.0								
1,1,2-Trichloroethane	ND	µg/L	1.0								
Trichloroethene (TCE)	ND	µg/L	1.0								
Trichlorofluoromethane	ND	µg/L	1.0								
1,2,3-Trichloropropane	ND	µg/L	2.0								
Vinyl chloride	ND	µg/L	1.0								
Xylenes, Total	ND	µg/L	1.5								
Sample ID: b7		*MBLK*				Batch ID:	**R41337**	Analysis Date:	10/2/2010 10:28:59 PM		
Benzene	ND	µg/L	1.0								
Toluene	ND	µg/L	1.0								
Ethylbenzene	ND	µg/L	1.0								
Methyl tert-butyl ether (MTBE)	ND	µg/L	1.0								
1,2,4-Trimethylbenzene	ND	µg/L	1.0								
1,3,5-Trimethylbenzene	ND	µg/L	1.0								
1,2-Dichloroethane (EDC)	ND	µg/L	1.0								
1,2-Dibromoethane (EDB)	ND	µg/L	1.0								
Naphthalene	ND	µg/L	2.0								
1-Methylnaphthalene	ND	µg/L	4.0								
2-Methylnaphthalene	ND	µg/L	4.0								
Acetone	ND	µg/L	10								
Bromobenzene	ND	µg/L	1.0								
Bromodichloromethane	ND	µg/L	1.0								
Bromoform	ND	µg/L	1.0								
Bromomethane	ND	µg/L	3.0								
2-Butanone	ND	µg/L	10								
Carbon disulfide	ND	µg/L	10								
Carbon Tetrachloride	ND	µg/L	1.0								
Chlorobenzene	ND	µg/L	1.0								
Chloroethane	ND	µg/L	2.0								
Chloroform	ND	µg/L	1.0								

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: PW-3 **Work Order:** 1010069

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260B: VOLATILES											
Sample ID: b7		*MBLK*				Batch ID:	**R41337**	Analysis Date:	10/2/2010 10:28:59 PM		
Chloromethane	ND	µg/L	3.0								
2-Chlorotoluene	ND	µg/L	1.0								
4-Chlorotoluene	ND	µg/L	1.0								
cis-1,2-DCE	ND	µg/L	1.0								
cis-1,3-Dichloropropene	ND	µg/L	1.0								
1,2-Dibromo-3-chloropropane	ND	µg/L	2.0								
Dibromochloromethane	ND	µg/L	1.0								
Dibromomethane	ND	µg/L	1.0								
1,2-Dichlorobenzene	ND	µg/L	1.0								
1,3-Dichlorobenzene	ND	µg/L	1.0								
1,4-Dichlorobenzene	ND	µg/L	1.0								
Dichlorodifluoromethane	ND	µg/L	1.0								
1,1-Dichloroethane	ND	µg/L	1.0								
1,1-Dichloroethene	ND	µg/L	1.0								
1,2-Dichloropropane	ND	µg/L	1.0								
1,3-Dichloropropane	ND	µg/L	1.0								
2,2-Dichloropropane	ND	µg/L	2.0								
1,1-Dichloropropene	ND	µg/L	1.0								
Hexachlorobutadiene	ND	µg/L	1.0								
2-Hexanone	ND	µg/L	10								
Isopropylbenzene	ND	µg/L	1.0								
4-Isopropyltoluene	ND	µg/L	1.0								
4-Methyl-2-pentanone	ND	µg/L	10								
Methylene Chloride	ND	µg/L	3.0								
n-Butylbenzene	ND	µg/L	1.0								
n-Propylbenzene	ND	µg/L	1.0								
sec-Butylbenzene	ND	µg/L	1.0								
Styrene	ND	µg/L	1.0								
tert-Butylbenzene	ND	µg/L	1.0								
1,1,1,2-Tetrachloroethane	ND	µg/L	1.0								
1,1,2,2-Tetrachloroethane	ND	µg/L	2.0								
Tetrachloroethene (PCE)	ND	µg/L	1.0								
trans-1,2-DCE	ND	µg/L	1.0								
trans-1,3-Dichloropropene	ND	µg/L	1.0								
1,2,3-Trichlorobenzene	ND	µg/L	1.0								
1,2,4-Trichlorobenzene	ND	µg/L	1.0								
1,1,1-Trichloroethane	ND	µg/L	1.0								
1,1,2-Trichloroethane	ND	µg/L	1.0								
Trichloroethene (TCE)	ND	µg/L	1.0								
Trichlorofluoromethane	ND	µg/L	1.0								
1,2,3-Trichloropropane	ND	µg/L	2.0								
Vinyl chloride	ND	µg/L	1.0								
Xylenes, Total	ND	µg/L	1.5								
Sample ID: 100ng lcs		*LCS*				Batch ID:	**R41337**	Analysis Date:	10/2/2010 12:52:02 PM		

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: PW-3 **Work Order:** 1010069

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260B: VOLATILES											
Sample ID: 100ng lcs		*LCS*				Batch ID:	**R41337**	Analysis Date:	10/2/2010 12:52:02 PM		
Benzene	18.95	µg/L	1.0	20	0	94.8	82.4	116			
Toluene	18.18	µg/L	1.0	20	0	90.9	89.5	123			
Chlorobenzene	18.56	µg/L	1.0	20	0	92.8	87.8	120			
1,1-Dichloroethene	19.27	µg/L	1.0	20	0	96.4	90.3	138			
Trichloroethene (TCE)	17.71	µg/L	1.0	20	0	88.6	64	129			
Sample ID: 100ng lcs		*LCS*				Batch ID:	**R41337**	Analysis Date:	10/2/2010 11:21:23 PM		
Benzene	19.48	µg/L	1.0	20	0	97.4	82.4	116			
Toluene	18.83	µg/L	1.0	20	0	94.2	89.5	123			
Chlorobenzene	19.15	µg/L	1.0	20	0	95.7	87.8	120			
1,1-Dichloroethene	19.58	µg/L	1.0	20	0	97.9	90.3	138			
Trichloroethene (TCE)	17.95	µg/L	1.0	20	0	89.8	64	129			

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: PW-3 **Work Order:** 1010069

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8270C: Semivolatiles											
Sample ID: mb-23981		*MBLK*				Batch ID:	**23981**	Analysis Date:	10/10/2010 5:29:58 PM		
Acenaphthene	ND	µg/L	10								
Acenaphthylene	ND	µg/L	10								
Aniline	ND	µg/L	10								
Anthracene	ND	µg/L	10								
Azobenzene	ND	µg/L	10								
Benz(a)anthracene	ND	µg/L	10								
Benzo(a)pyrene	ND	µg/L	10								
Benzo(b)fluoranthene	ND	µg/L	10								
Benzo(g,h,i)perylene	ND	µg/L	10								
Benzo(k)fluoranthene	ND	µg/L	10								
Benzoic acid	ND	µg/L	20								
Benzyl alcohol	ND	µg/L	10								
Bis(2-chloroethoxy)methane	ND	µg/L	10								
Bis(2-chloroethyl)ether	ND	µg/L	10								
Bis(2-chloroisopropyl)ether	ND	µg/L	10								
Bis(2-ethylhexyl)phthalate	ND	µg/L	10								
4-Bromophenyl phenyl ether	ND	µg/L	10								
Butyl benzyl phthalate	ND	µg/L	10								
Carbazole	ND	µg/L	10								
4-Chloro-3-methylphenol	ND	µg/L	10								
4-Chloroaniline	ND	µg/L	10								
2-Chloronaphthalene	ND	µg/L	10								
2-Chlorophenol	ND	µg/L	10								
4-Chlorophenyl phenyl ether	ND	µg/L	10								
Chrysene	ND	µg/L	10								
Di-n-butyl phthalate	ND	µg/L	10								
Di-n-octyl phthalate	ND	µg/L	10								
Dibenz(a,h)anthracene	ND	µg/L	10								
Dibenzofuran	ND	µg/L	10								
1,2-Dichlorobenzene	ND	µg/L	5.0								
1,3-Dichlorobenzene	ND	µg/L	10								
1,4-Dichlorobenzene	ND	µg/L	5.0								
3,3'-Dichlorobenzidine	ND	µg/L	10								
Diethyl phthalate	ND	µg/L	10								
Dimethyl phthalate	ND	µg/L	10								
2,4-Dichlorophenol	ND	µg/L	20								
2,4-Dimethylphenol	ND	µg/L	10								
4,6-Dinitro-2-methylphenol	ND	µg/L	20								
2,4-Dinitrophenol	ND	µg/L	5.0								
2,4-Dinitrotoluene	ND	µg/L	5.0								
2,6-Dinitrotoluene	ND	µg/L	10								
Fluoranthene	ND	µg/L	10								
Fluorene	ND	µg/L	10								
Hexachlorobenzene	ND	µg/L	5.0								

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: PW-3 **Work Order:** 1010069

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8270C: Semivolatiles											
Sample ID: mb-23981		*MBLK*				Batch ID:	**23981**	Analysis Date:	10/10/2010 5:29:58 PM		
Hexachlorobutadiene	ND	µg/L	10								
Hexachlorocyclopentadiene	ND	µg/L	10								
Hexachloroethane	ND	µg/L	5.0								
Indeno(1,2,3-cd)pyrene	ND	µg/L	10								
Isophorone	ND	µg/L	10								
2-Methylnaphthalene	ND	µg/L	10								
2-Methylphenol	ND	µg/L	5.0								
3+4-Methylphenol	ND	µg/L	5.0								
N-Nitrosodi-n-propylamine	ND	µg/L	10								
N-Nitrosodimethylamine	ND	µg/L	10								
N-Nitrosodiphenylamine	ND	µg/L	10								
Naphthalene	ND	µg/L	10								
2-Nitroaniline	ND	µg/L	10								
3-Nitroaniline	ND	µg/L	10								
4-Nitroaniline	ND	µg/L	10								
Nitrobenzene	ND	µg/L	5.0								
2-Nitrophenol	ND	µg/L	10								
4-Nitrophenol	ND	µg/L	10								
Pentachlorophenol	ND	µg/L	5.0								
Phenanthrene	ND	µg/L	10								
Phenol	ND	µg/L	10								
Pyrene	ND	µg/L	10								
Pyridine	ND	µg/L	5.0								
1,2,4-Trichlorobenzene	ND	µg/L	10								
2,4,5-Trichlorophenol	ND	µg/L	10								
2,4,6-Trichlorophenol	ND	µg/L	10								
Sample ID: lcs-23981		*LCS*				Batch ID:	**23981**	Analysis Date:	10/10/2010 6:00:33 PM		
Acenaphthene	60.90	µg/L	10	100	0	60.9	29.3	113			
4-Chloro-3-methylphenol	64.16	µg/L	10	100	0	64.2	23.3	123			
2-Chlorophenol	59.36	µg/L	10	100	0	59.4	23.9	112			
1,4-Dichlorobenzene	48.68	µg/L	10	100	0	48.7	16.5	106			
2,4-Dinitrotoluene	72.30	µg/L	10	100	0	72.3	27.7	126			
N-Nitrosodi-n-propylamine	66.86	µg/L	10	100	0	66.9	25.9	113			
4-Nitrophenol	46.16	µg/L	10	100	0	46.2	13.2	76.7			
Pentachlorophenol	63.12	µg/L	20	100	0	63.1	22.4	121			
Phenol	39.22	µg/L	10	100	0	39.2	15.3	68.3			
Pyrene	65.44	µg/L	10	100	0	65.4	23.5	119			
1,2,4-Trichlorobenzene	55.10	µg/L	10	100	0	55.1	23	107			
Sample ID: lcsd-23981		*LCSD*				Batch ID:	**23981**	Analysis Date:	10/10/2010 6:30:55 PM		
Acenaphthene	59.30	µg/L	10	100	0	59.3	29.3	113	2.66	30.5	
4-Chloro-3-methylphenol	63.88	µg/L	10	100	0	63.9	23.3	123	0.437	28.6	
2-Chlorophenol	54.34	µg/L	10	100	0	54.3	23.9	112	8.83	107	
1,4-Dichlorobenzene	42.56	µg/L	10	100	0	42.6	16.5	106	13.4	62.1	
2,4-Dinitrotoluene	74.84	µg/L	10	100	0	74.8	27.7	126	3.45	14.7	

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: PW-3 **Work Order:** 1010069

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8270C: Semivolatiles											
Sample ID: lcsd-23981		*LCSD*				Batch ID:	**23981**	Analysis Date:		10/10/2010 6:30:55 PM	
N-Nitrosodi-n-propylamine	62.88	µg/L	10	100	0	62.9	25.9	113	6.14	30.3	
4-Nitrophenol	45.04	µg/L	10	100	0	45.0	13.2	76.7	2.46	36.3	
Pentachlorophenol	62.84	µg/L	20	200	0	31.4	22.4	121	0.445	49	
Phenol	34.72	µg/L	10	100	0	34.7	15.3	68.3	12.2	52.4	
Pyrene	64.78	µg/L	10	100	0	64.8	23.5	119	1.01	16.3	
1,2,4-Trichlorobenzene	54.74	µg/L	10	100	0	54.7	23	107	0.655	36.4	
Method: EPA Method 7470: Mercury											
Sample ID: MB-24114		*MBLK*				Batch ID:	**24114**	Analysis Date:		10/14/2010 12:52:15 PM	
Mercury	ND	mg/L	0.00020								
Sample ID: LCS-24114		*LCS*				Batch ID:	**24114**	Analysis Date:		10/14/2010 12:53:59 PM	
Mercury	0.004994	mg/L	0.00020	0.005	1E-05	99.6	80	120			
Sample ID: LCS-24114		*LCS*				Batch ID:	**24114**	Analysis Date:		10/14/2010 12:55:45 PM	
Mercury	0.005003	mg/L	0.00020	0.005	1E-05	99.8	80	120	0.182	0	
Method: EPA Method 6010B: Dissolved Metals											
Sample ID: MB		*MBLK*				Batch ID:	**R41653**	Analysis Date:		10/19/2010 1:48:38 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								
Manganese	ND	mg/L	0.0020								
Selenium	ND	mg/L	0.050								
Silver	ND	mg/L	0.0050								
Sodium	ND	mg/L	1.0								
Zinc	ND	mg/L	0.050								
Sample ID: LCS		*LCS*				Batch ID:	**R41653**	Analysis Date:		10/19/2010 1:51:24 PM	
Arsenic	0.5373	mg/L	0.020	0.5	0	107	80	120			
Barium	0.5067	mg/L	0.020	0.5	0	101	80	120			
Cadmium	0.5260	mg/L	0.0020	0.5	0	105	80	120			
Chromium	0.5159	mg/L	0.0060	0.5	0	103	80	120			
Lead	0.5183	mg/L	0.0050	0.5	0	104	80	120			
Manganese	0.5046	mg/L	0.0020	0.5	0	101	80	120			
Selenium	0.5181	mg/L	0.050	0.5	0	104	80	120			
Silver	0.5293	mg/L	0.0050	0.5	0	106	80	120			
Zinc	0.5090	mg/L	0.050	0.5	0	102	80	120			
Sample ID: LCS		*LCS*				Batch ID:	**R41653**	Analysis Date:		10/19/2010 1:54:42 PM	
Calcium	58.95	mg/L	1.0	50.5	0.0187	117	80	120			
Magnesium	59.45	mg/L	1.0	50.5	0.0159	118	80	120			
Sodium	58.47	mg/L	1.0	50.5	0.0601	116	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: PW-3 **Work Order:** 1010069

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA 6010B: Total Recoverable Metals											
Sample ID: MB-23988		*MBLK*				Batch ID:	**23988**	Analysis Date:	10/6/2010 11:49:54 AM		
Arsenic	ND	mg/L	0.020								
Barium	ND	mg/L	0.020								
Cadmium	ND	mg/L	0.0020								
Chromium	ND	mg/L	0.0060								
Copper	ND	mg/L	0.0060								
Iron	ND	mg/L	0.050								
Lead	ND	mg/L	0.0050								
Manganese	ND	mg/L	0.0020								
Selenium	ND	mg/L	0.050								
Silver	ND	mg/L	0.0050								
Zinc	ND	mg/L	0.020								
Sample ID: LCS-23988		*LCS*				Batch ID:	**23988**	Analysis Date:	10/6/2010 11:52:57 AM		
Arsenic	0.5252	mg/L	0.020	0.5	0	105	80	120			
Barium	0.5064	mg/L	0.020	0.5	0	101	80	120			
Cadmium	0.5146	mg/L	0.0020	0.5	0	103	80	120			
Chromium	0.5126	mg/L	0.0060	0.5	0	103	80	120			
Copper	0.5711	mg/L	0.0060	0.5	0	114	80	120			
Iron	0.5074	mg/L	0.050	0.5	0	101	80	120			
Lead	0.5063	mg/L	0.0050	0.5	0	101	80	120			
Manganese	0.5049	mg/L	0.0020	0.5	0	101	80	120			
Selenium	0.4908	mg/L	0.050	0.5	0	98.2	80	120			
Silver	0.5257	mg/L	0.0050	0.5	0	105	80	120			
Zinc	0.4908	mg/L	0.020	0.5	0	98.2	80	120			
Sample ID: LCS-23988		*LCS*				Batch ID:	**23988**	Analysis Date:	10/6/2010 11:56:09 AM		
Arsenic	0.5351	mg/L	0.020	0.5	0	107	80	120			
Barium	0.5162	mg/L	0.020	0.5	0	103	80	120			
Cadmium	0.5193	mg/L	0.0020	0.5	0	104	80	120			
Chromium	0.5224	mg/L	0.0060	0.5	0	104	80	120			
Copper	0.5810	mg/L	0.0060	0.5	0	116	80	120			
Iron	0.5151	mg/L	0.050	0.5	0	103	80	120			
Lead	0.5118	mg/L	0.0050	0.5	0	102	80	120			
Manganese	0.5141	mg/L	0.0020	0.5	0	103	80	120			
Selenium	0.4947	mg/L	0.050	0.5	0	98.9	80	120			
Silver	0.5343	mg/L	0.0050	0.5	0	107	80	120			
Zinc	0.4997	mg/L	0.020	0.5	0	99.9	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: 9/24/2010

Work Order Number 1010069

Received by: AMG

Sample ID labels checked by: _____ Initials

Checklist completed by: _____ Signature 09/24/10 Date

Matrix: Carrier name UPS

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐	Not Shipped ☐
Custody seals intact on sample bottles?	Yes ☑	No ☐	N/A ☐	
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☑	No ☐	
Water - Preservation labels on bottle and cap match?	Yes ☑	No ☐	N/A ☐	
Water - pH acceptable upon receipt?	Yes ☑	No ☐	N/A ☐	
Container/Temp Blank temperature?	1.4°	<6° C *Acceptable* If given sufficient time to cool.		

Number of preserved bottles checked for pH: 5 1

<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 Bx 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: PW-3

Project #:

Project Manager: Cheryl Johnson

Sampler: C Johnson

On Ice: ☒ Yes ☐ No 9/24/10

Sample Temperature: 0.4/1.4

HEAL No. 1010 0109

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 (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,NO3,NO2,PO4,SO4)	8081 Pesticides / 8082 PCB's	8260B (VOA) +MTBE	8270 (Semi-VOA) +Phenols	WQCC Metals Total	~~Cyanide~~ - Dissol.	Cyanide	Nitrates	Air Bubbles (Y or N)
9/23/10	1040	H2O	PW-3			-1										X	X	X		X	X	
	1030		Field Blank			-2										X						
			TRIP Blank			-3										X						

Date:	Time:	Relinquished by:	Received by:	Date	Time	Remarks:
9/23/10	1100		Ashley N Gallegos	9/24/10	13:47	
Date:	Time:	Relinquished by:	Received by:	Date	Time	

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.

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

COVER LETTER

Monday, October 25, 2010

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

TEL: (505) 722-0231
FAX (505) 722-0210

RE: 3rd Qtr 2010

Order No.: 1010067

Dear Cheryl Johnson:

Hall Environmental Analysis Laboratory, Inc. received 5 sample(s) on 9/29/2010 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

ACCREDITED IN ACCORDANCE WITH nelac

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

Hall Environmental Analysis Laboratory, Inc.

Date: *25-Oct-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	OW-30
Lab Order:	1010067	**Collection Date:**	9/27/2010 9:37:00 AM
Project:	3rd Qtr 2010	**Date Received:**	9/29/2010
Lab ID:	1010067-01	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**
Benzene	ND	1.0		µg/L	1	10/2/2010 8:44:15 PM
Toluene	ND	1.0		µg/L	1	10/2/2010 8:44:15 PM
Ethylbenzene	ND	1.0		µg/L	1	10/2/2010 8:44:15 PM
Methyl tert-butyl ether (MTBE)	1100	20		µg/L	20	10/2/2010 8:18:09 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	10/2/2010 8:44:15 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	10/2/2010 8:44:15 PM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	10/2/2010 8:44:15 PM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	10/2/2010 8:44:15 PM
Naphthalene	ND	2.0		µg/L	1	10/2/2010 8:44:15 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	10/2/2010 8:44:15 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	10/2/2010 8:44:15 PM
Acetone	ND	10		µg/L	1	10/2/2010 8:44:15 PM
Bromobenzene	ND	1.0		µg/L	1	10/2/2010 8:44:15 PM
Bromodichloromethane	ND	1.0		µg/L	1	10/2/2010 8:44:15 PM
Bromoform	ND	1.0		µg/L	1	10/2/2010 8:44:15 PM
Bromomethane	ND	3.0		µg/L	1	10/2/2010 8:44:15 PM
2-Butanone	ND	10		µg/L	1	10/2/2010 8:44:15 PM
Carbon disulfide	ND	10		µg/L	1	10/2/2010 8:44:15 PM
Carbon Tetrachloride	ND	1.0		µg/L	1	10/2/2010 8:44:15 PM
Chlorobenzene	ND	1.0		µg/L	1	10/2/2010 8:44:15 PM
Chloroethane	ND	2.0		µg/L	1	10/2/2010 8:44:15 PM
Chloroform	ND	1.0		µg/L	1	10/2/2010 8:44:15 PM
Chloromethane	ND	3.0		µg/L	1	10/2/2010 8:44:15 PM
2-Chlorotoluene	ND	1.0		µg/L	1	10/2/2010 8:44:15 PM
4-Chlorotoluene	ND	1.0		µg/L	1	10/2/2010 8:44:15 PM
cis-1,2-DCE	ND	1.0		µg/L	1	10/2/2010 8:44:15 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	10/2/2010 8:44:15 PM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	10/2/2010 8:44:15 PM
Dibromochloromethane	ND	1.0		µg/L	1	10/2/2010 8:44:15 PM
Dibromomethane	ND	1.0		µg/L	1	10/2/2010 8:44:15 PM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	10/2/2010 8:44:15 PM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	10/2/2010 8:44:15 PM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	10/2/2010 8:44:15 PM
Dichlorodifluoromethane	ND	1.0		µg/L	1	10/2/2010 8:44:15 PM
1,1-Dichloroethane	ND	1.0		µg/L	1	10/2/2010 8:44:15 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	10/2/2010 8:44:15 PM
1,2-Dichloropropane	ND	1.0		µg/L	1	10/2/2010 8:44:15 PM
1,3-Dichloropropane	ND	1.0		µg/L	1	10/2/2010 8:44:15 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	10/2/2010 8:44:15 PM
1,1-Dichloropropene	ND	1.0		µg/L	1	10/2/2010 8:44:15 PM
Hexachlorobutadiene	ND	1.0		µg/L	1	10/2/2010 8:44:15 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
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: *25-Oct-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	OW-30
Lab Order:	1010067	**Collection Date:**	9/27/2010 9:37:00 AM
Project:	3rd Qtr 2010	**Date Received:**	9/29/2010
Lab ID:	1010067-01	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**
2-Hexanone	ND	10		µg/L	1	10/2/2010 8:44:15 PM
Isopropylbenzene	ND	1.0		µg/L	1	10/2/2010 8:44:15 PM
4-Isopropyltoluene	ND	1.0		µg/L	1	10/2/2010 8:44:15 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	10/2/2010 8:44:15 PM
Methylene Chloride	ND	3.0		µg/L	1	10/2/2010 8:44:15 PM
n-Butylbenzene	ND	1.0		µg/L	1	10/2/2010 8:44:15 PM
n-Propylbenzene	ND	1.0		µg/L	1	10/2/2010 8:44:15 PM
sec-Butylbenzene	ND	1.0		µg/L	1	10/2/2010 8:44:15 PM
Styrene	ND	1.0		µg/L	1	10/2/2010 8:44:15 PM
tert-Butylbenzene	ND	1.0		µg/L	1	10/2/2010 8:44:15 PM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	10/2/2010 8:44:15 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	10/2/2010 8:44:15 PM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	10/2/2010 8:44:15 PM
trans-1,2-DCE	ND	1.0		µg/L	1	10/2/2010 8:44:15 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	10/2/2010 8:44:15 PM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	10/2/2010 8:44:15 PM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	10/2/2010 8:44:15 PM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	10/2/2010 8:44:15 PM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	10/2/2010 8:44:15 PM
Trichloroethene (TCE)	ND	1.0		µg/L	1	10/2/2010 8:44:15 PM
Trichlorofluoromethane	ND	1.0		µg/L	1	10/2/2010 8:44:15 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	10/2/2010 8:44:15 PM
Vinyl chloride	ND	1.0		µg/L	1	10/2/2010 8:44:15 PM
Xylenes, Total	ND	1.5		µg/L	1	10/2/2010 8:44:15 PM
Surr: 1,2-Dichloroethane-d4	113	54.6-141		%REC	1	10/2/2010 8:44:15 PM
Surr: 4-Bromofluorobenzene	112	60.1-133		%REC	1	10/2/2010 8:44:15 PM
Surr: Dibromofluoromethane	108	78.5-130		%REC	1	10/2/2010 8:44:15 PM
Surr: Toluene-d8	108	79.5-126		%REC	1	10/2/2010 8:44:15 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
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: *25-Oct-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	OW-50
Lab Order:	1010067	**Collection Date:**	9/27/2010 10:48:00 AM
Project:	3rd Qtr 2010	**Date Received:**	9/29/2010
Lab ID:	1010067-02	**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	10/5/2010 1:44:23 AM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	10/5/2010 1:44:23 AM
Surr: DNOP	124	86.9-151		%REC	1	10/5/2010 1:44:23 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	10/5/2010 7:35:17 PM
Surr: BFB	100	79.9-117		%REC	1	10/5/2010 7:35:17 PM
EPA METHOD 300.0: ANIONS						Analyst: **SRM**
Fluoride	0.41	0.10		mg/L	1	10/5/2010 2:33:15 PM
Chloride	26	10		mg/L	20	10/5/2010 2:50:40 PM
Nitrate (As N)+Nitrite (As N)	ND	1.0		mg/L	5	10/7/2010 6:39:42 AM
Phosphorus, Orthophosphate (As P)	ND	0.50	H	mg/L	1	10/5/2010 2:33:15 PM
Sulfate	140	10		mg/L	20	10/5/2010 2:50:40 PM
EPA METHOD 7470: MERCURY						Analyst: **ELS**
Mercury	ND	0.00020		mg/L	1	10/14/2010 12:57:30 PM
EPA METHOD 6010B: DISSOLVED METALS						Analyst: **SNV**
Arsenic	ND	0.020		mg/L	1	10/18/2010 11:51:16 AM
Barium	0.040	0.020		mg/L	1	10/18/2010 11:51:16 AM
Cadmium	ND	0.0020		mg/L	1	10/18/2010 11:51:16 AM
Calcium	21	1.0		mg/L	1	10/18/2010 11:51:16 AM
Chromium	ND	0.0060		mg/L	1	10/18/2010 11:51:16 AM
Copper	ND	0.0060		mg/L	1	10/18/2010 11:51:16 AM
Iron	ND	0.020		mg/L	1	10/18/2010 11:51:16 AM
Lead	ND	0.0050		mg/L	1	10/18/2010 11:51:16 AM
Magnesium	3.5	1.0		mg/L	1	10/18/2010 11:51:16 AM
Manganese	0.081	0.0020		mg/L	1	10/18/2010 11:51:16 AM
Potassium	ND	1.0		mg/L	1	10/18/2010 11:51:16 AM
Selenium	ND	0.050		mg/L	1	10/18/2010 11:51:16 AM
Silver	ND	0.0050		mg/L	1	10/18/2010 11:51:16 AM
Sodium	220	5.0		mg/L	5	10/18/2010 11:55:36 AM
Zinc	0.064	0.050		mg/L	1	10/19/2010 2:01:30 PM
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: **SNV**
Arsenic	ND	0.020		mg/L	1	10/6/2010 12:38:39 PM
Barium	0.041	0.020		mg/L	1	10/6/2010 12:38:39 PM
Cadmium	ND	0.0020		mg/L	1	10/6/2010 12:38:39 PM
Chromium	ND	0.0060		mg/L	1	10/6/2010 12:38:39 PM
Copper	ND	0.0060		mg/L	1	10/6/2010 12:38:39 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: *25-Oct-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	OW-50
Lab Order:	1010067	**Collection Date:**	9/27/2010 10:48:00 AM
Project:	3rd Qtr 2010	**Date Received:**	9/29/2010
Lab ID:	1010067-02	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: **SNV**
Iron	ND	0.050		mg/L	1	10/6/2010 12:38:39 PM
Lead	ND	0.0050		mg/L	1	10/6/2010 12:38:39 PM
Manganese	0.083	0.0020		mg/L	1	10/6/2010 12:38:39 PM
Selenium	ND	0.050		mg/L	1	10/6/2010 12:38:39 PM
Silver	ND	0.0050		mg/L	1	10/6/2010 12:38:39 PM
Zinc	ND	0.020		mg/L	1	10/6/2010 12:38:39 PM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **JDC**
Acenaphthene	ND	10		µg/L	1	10/10/2010 11:01:46 PM
Acenaphthylene	ND	10		µg/L	1	10/10/2010 11:01:46 PM
Aniline	ND	10		µg/L	1	10/10/2010 11:01:46 PM
Anthracene	ND	10		µg/L	1	10/10/2010 11:01:46 PM
Azobenzene	ND	10		µg/L	1	10/10/2010 11:01:46 PM
Benz(a)anthracene	ND	10		µg/L	1	10/10/2010 11:01:46 PM
Benzo(a)pyrene	ND	10		µg/L	1	10/10/2010 11:01:46 PM
Benzo(b)fluoranthene	ND	10		µg/L	1	10/10/2010 11:01:46 PM
Benzo(g,h,i)perylene	ND	10		µg/L	1	10/10/2010 11:01:46 PM
Benzo(k)fluoranthene	ND	10		µg/L	1	10/10/2010 11:01:46 PM
Benzoic acid	ND	20		µg/L	1	10/10/2010 11:01:46 PM
Benzyl alcohol	ND	10		µg/L	1	10/10/2010 11:01:46 PM
Bis(2-chloroethoxy)methane	ND	10		µg/L	1	10/10/2010 11:01:46 PM
Bis(2-chloroethyl)ether	ND	10		µg/L	1	10/10/2010 11:01:46 PM
Bis(2-chloroisopropyl)ether	ND	10		µg/L	1	10/10/2010 11:01:46 PM
Bis(2-ethylhexyl)phthalate	ND	10		µg/L	1	10/10/2010 11:01:46 PM
4-Bromophenyl phenyl ether	ND	10		µg/L	1	10/10/2010 11:01:46 PM
Butyl benzyl phthalate	ND	10		µg/L	1	10/10/2010 11:01:46 PM
Carbazole	ND	10		µg/L	1	10/10/2010 11:01:46 PM
4-Chloro-3-methylphenol	ND	10		µg/L	1	10/10/2010 11:01:46 PM
4-Chloroaniline	ND	10		µg/L	1	10/10/2010 11:01:46 PM
2-Chloronaphthalene	ND	10		µg/L	1	10/10/2010 11:01:46 PM
2-Chlorophenol	ND	10		µg/L	1	10/10/2010 11:01:46 PM
4-Chlorophenyl phenyl ether	ND	10		µg/L	1	10/10/2010 11:01:46 PM
Chrysene	ND	10		µg/L	1	10/10/2010 11:01:46 PM
Di-n-butyl phthalate	ND	10		µg/L	1	10/10/2010 11:01:46 PM
Di-n-octyl phthalate	ND	10		µg/L	1	10/10/2010 11:01:46 PM
Dibenz(a,h)anthracene	ND	10		µg/L	1	10/10/2010 11:01:46 PM
Dibenzofuran	ND	10		µg/L	1	10/10/2010 11:01:46 PM
1,2-Dichlorobenzene	ND	10		µg/L	1	10/10/2010 11:01:46 PM
1,3-Dichlorobenzene	ND	10		µg/L	1	10/10/2010 11:01:46 PM
1,4-Dichlorobenzene	ND	10		µg/L	1	10/10/2010 11:01:46 PM
3,3'-Dichlorobenzidine	ND	10		µg/L	1	10/10/2010 11:01:46 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: *25-Oct-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	OW-50
Lab Order:	1010067	**Collection Date:**	9/27/2010 10:48:00 AM
Project:	3rd Qtr 2010	**Date Received:**	9/29/2010
Lab ID:	1010067-02	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Diethyl phthalate	ND	10		µg/L	1	10/10/2010 11:01:46 PM
Dimethyl phthalate	ND	10		µg/L	1	10/10/2010 11:01:46 PM
2,4-Dichlorophenol	ND	20		µg/L	1	10/10/2010 11:01:46 PM
2,4-Dimethylphenol	ND	10		µg/L	1	10/10/2010 11:01:46 PM
4,6-Dinitro-2-methylphenol	ND	20		µg/L	1	10/10/2010 11:01:46 PM
2,4-Dinitrophenol	ND	20		µg/L	1	10/10/2010 11:01:46 PM
2,4-Dinitrotoluene	ND	10		µg/L	1	10/10/2010 11:01:46 PM
2,6-Dinitrotoluene	ND	10		µg/L	1	10/10/2010 11:01:46 PM
Fluoranthene	ND	10		µg/L	1	10/10/2010 11:01:46 PM
Fluorene	ND	10		µg/L	1	10/10/2010 11:01:46 PM
Hexachlorobenzene	ND	10		µg/L	1	10/10/2010 11:01:46 PM
Hexachlorobutadiene	ND	10		µg/L	1	10/10/2010 11:01:46 PM
Hexachlorocyclopentadiene	ND	10		µg/L	1	10/10/2010 11:01:46 PM
Hexachloroethane	ND	10		µg/L	1	10/10/2010 11:01:46 PM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	10/10/2010 11:01:46 PM
Isophorone	ND	10		µg/L	1	10/10/2010 11:01:46 PM
2-Methylnaphthalene	ND	10		µg/L	1	10/10/2010 11:01:46 PM
2-Methylphenol	ND	10		µg/L	1	10/10/2010 11:01:46 PM
3+4-Methylphenol	ND	10		µg/L	1	10/10/2010 11:01:46 PM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	10/10/2010 11:01:46 PM
N-Nitrosodimethylamine	ND	10		µg/L	1	10/10/2010 11:01:46 PM
N-Nitrosodiphenylamine	ND	10		µg/L	1	10/10/2010 11:01:46 PM
Naphthalene	ND	10		µg/L	1	10/10/2010 11:01:46 PM
2-Nitroaniline	ND	10		µg/L	1	10/10/2010 11:01:46 PM
3-Nitroaniline	ND	10		µg/L	1	10/10/2010 11:01:46 PM
4-Nitroaniline	ND	20		µg/L	1	10/10/2010 11:01:46 PM
Nitrobenzene	ND	10		µg/L	1	10/10/2010 11:01:46 PM
2-Nitrophenol	ND	10		µg/L	1	10/10/2010 11:01:46 PM
4-Nitrophenol	ND	10		µg/L	1	10/10/2010 11:01:46 PM
Pentachlorophenol	ND	20		µg/L	1	10/10/2010 11:01:46 PM
Phenanthrene	ND	10		µg/L	1	10/10/2010 11:01:46 PM
Phenol	ND	10		µg/L	1	10/10/2010 11:01:46 PM
Pyrene	ND	10		µg/L	1	10/10/2010 11:01:46 PM
Pyridine	ND	10		µg/L	1	10/10/2010 11:01:46 PM
1,2,4-Trichlorobenzene	ND	10		µg/L	1	10/10/2010 11:01:46 PM
2,4,5-Trichlorophenol	ND	10		µg/L	1	10/10/2010 11:01:46 PM
2,4,6-Trichlorophenol	ND	10		µg/L	1	10/10/2010 11:01:46 PM
Surr: 2,4,6-Tribromophenol	71.9	16.6-150		%REC	1	10/10/2010 11:01:46 PM
Surr: 2-Fluorobiphenyl	72.4	19.6-134		%REC	1	10/10/2010 11:01:46 PM
Surr: 2-Fluorophenol	52.8	9.54-113		%REC	1	10/10/2010 11:01:46 PM
Surr: 4-Terphenyl-d14	70.7	22.7-145		%REC	1	10/10/2010 11:01:46 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: *25-Oct-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	OW-50
Lab Order:	1010067	**Collection Date:**	9/27/2010 10:48:00 AM
Project:	3rd Qtr 2010	**Date Received:**	9/29/2010
Lab ID:	1010067-02	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Surr: Nitrobenzene-d5	75.6	14.6-134		%REC	1	10/10/2010 11:01:46 PM
Surr: Phenol-d5	38.8	10.7-80.3		%REC	1	10/10/2010 11:01:46 PM
EPA METHOD 8260B: VOLATILES						Analyst: RAA
Benzene	ND	1.0		µg/L	1	10/2/2010 9:10:21 PM
Toluene	ND	1.0		µg/L	1	10/2/2010 9:10:21 PM
Ethylbenzene	ND	1.0		µg/L	1	10/2/2010 9:10:21 PM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	10/2/2010 9:10:21 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	10/2/2010 9:10:21 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	10/2/2010 9:10:21 PM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	10/2/2010 9:10:21 PM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	10/2/2010 9:10:21 PM
Naphthalene	ND	2.0		µg/L	1	10/2/2010 9:10:21 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	10/2/2010 9:10:21 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	10/2/2010 9:10:21 PM
Acetone	ND	10		µg/L	1	10/2/2010 9:10:21 PM
Bromobenzene	ND	1.0		µg/L	1	10/2/2010 9:10:21 PM
Bromodichloromethane	ND	1.0		µg/L	1	10/2/2010 9:10:21 PM
Bromoform	ND	1.0		µg/L	1	10/2/2010 9:10:21 PM
Bromomethane	ND	3.0		µg/L	1	10/2/2010 9:10:21 PM
2-Butanone	ND	10		µg/L	1	10/2/2010 9:10:21 PM
Carbon disulfide	ND	10		µg/L	1	10/2/2010 9:10:21 PM
Carbon Tetrachloride	ND	1.0		µg/L	1	10/2/2010 9:10:21 PM
Chlorobenzene	ND	1.0		µg/L	1	10/2/2010 9:10:21 PM
Chloroethane	ND	2.0		µg/L	1	10/2/2010 9:10:21 PM
Chloroform	ND	1.0		µg/L	1	10/2/2010 9:10:21 PM
Chloromethane	ND	3.0		µg/L	1	10/2/2010 9:10:21 PM
2-Chlorotoluene	ND	1.0		µg/L	1	10/2/2010 9:10:21 PM
4-Chlorotoluene	ND	1.0		µg/L	1	10/2/2010 9:10:21 PM
cis-1,2-DCE	ND	1.0		µg/L	1	10/2/2010 9:10:21 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	10/2/2010 9:10:21 PM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	10/2/2010 9:10:21 PM
Dibromochloromethane	ND	1.0		µg/L	1	10/2/2010 9:10:21 PM
Dibromomethane	ND	1.0		µg/L	1	10/2/2010 9:10:21 PM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	10/2/2010 9:10:21 PM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	10/2/2010 9:10:21 PM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	10/2/2010 9:10:21 PM
Dichlorodifluoromethane	ND	1.0		µg/L	1	10/2/2010 9:10:21 PM
1,1-Dichloroethane	ND	1.0		µg/L	1	10/2/2010 9:10:21 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	10/2/2010 9:10:21 PM
1,2-Dichloropropane	ND	1.0		µg/L	1	10/2/2010 9:10:21 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: *25-Oct-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	OW-50
Lab Order:	1010067	**Collection Date:**	9/27/2010 10:48:00 AM
Project:	3rd Qtr 2010	**Date Received:**	9/29/2010
Lab ID:	1010067-02	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**
1,3-Dichloropropane	ND	1.0		µg/L	1	10/2/2010 9:10:21 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	10/2/2010 9:10:21 PM
1,1-Dichloropropene	ND	1.0		µg/L	1	10/2/2010 9:10:21 PM
Hexachlorobutadiene	ND	1.0		µg/L	1	10/2/2010 9:10:21 PM
2-Hexanone	ND	10		µg/L	1	10/2/2010 9:10:21 PM
Isopropylbenzene	ND	1.0		µg/L	1	10/2/2010 9:10:21 PM
4-Isopropyltoluene	ND	1.0		µg/L	1	10/2/2010 9:10:21 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	10/2/2010 9:10:21 PM
Methylene Chloride	ND	3.0		µg/L	1	10/2/2010 9:10:21 PM
n-Butylbenzene	ND	1.0		µg/L	1	10/2/2010 9:10:21 PM
n-Propylbenzene	ND	1.0		µg/L	1	10/2/2010 9:10:21 PM
sec-Butylbenzene	ND	1.0		µg/L	1	10/2/2010 9:10:21 PM
Styrene	ND	1.0		µg/L	1	10/2/2010 9:10:21 PM
tert-Butylbenzene	ND	1.0		µg/L	1	10/2/2010 9:10:21 PM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	10/2/2010 9:10:21 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	10/2/2010 9:10:21 PM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	10/2/2010 9:10:21 PM
trans-1,2-DCE	ND	1.0		µg/L	1	10/2/2010 9:10:21 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	10/2/2010 9:10:21 PM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	10/2/2010 9:10:21 PM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	10/2/2010 9:10:21 PM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	10/2/2010 9:10:21 PM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	10/2/2010 9:10:21 PM
Trichloroethene (TCE)	ND	1.0		µg/L	1	10/2/2010 9:10:21 PM
Trichlorofluoromethane	ND	1.0		µg/L	1	10/2/2010 9:10:21 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	10/2/2010 9:10:21 PM
Vinyl chloride	ND	1.0		µg/L	1	10/2/2010 9:10:21 PM
Xylenes, Total	ND	1.5		µg/L	1	10/2/2010 9:10:21 PM
Surr: 1,2-Dichloroethane-d4	114	54.6-141		%REC	1	10/2/2010 9:10:21 PM
Surr: 4-Bromofluorobenzene	105	60.1-133		%REC	1	10/2/2010 9:10:21 PM
Surr: Dibromofluoromethane	113	78.5-130		%REC	1	10/2/2010 9:10:21 PM
Surr: Toluene-d8	103	79.5-126		%REC	1	10/2/2010 9:10:21 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: *25-Oct-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	OW-52
Lab Order:	1010067	**Collection Date:**	9/27/2010 2:40:00 PM
Project:	3rd Qtr 2010	**Date Received:**	9/29/2010
Lab ID:	1010067-03	**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	10/5/2010 2:18:14 AM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	10/5/2010 2:18:14 AM
Surr: DNOP	124	86.9-151		%REC	1	10/5/2010 2:18:14 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	10/5/2010 8:04:11 PM
Surr: BFB	103	79.9-117		%REC	1	10/5/2010 8:04:11 PM
EPA METHOD 300.0: ANIONS						Analyst: **SRM**
Fluoride	0.52	0.10		mg/L	1	10/5/2010 3:42:54 PM
Chloride	27	10		mg/L	20	10/5/2010 4:00:18 PM
Nitrate (As N)+Nitrite (As N)	ND	1.0		mg/L	5	10/7/2010 6:57:06 AM
Phosphorus, Orthophosphate (As P)	ND	0.50	H	mg/L	1	10/5/2010 3:42:54 PM
Sulfate	140	10		mg/L	20	10/5/2010 4:00:18 PM
EPA METHOD 7470: MERCURY						Analyst: **ELS**
Mercury	ND	0.00020		mg/L	1	10/14/2010 12:59:16 PM
EPA METHOD 6010B: DISSOLVED METALS						Analyst: **SNV**
Arsenic	ND	0.020		mg/L	1	10/18/2010 11:58:41 AM
Barium	0.026	0.020		mg/L	1	10/18/2010 11:58:41 AM
Cadmium	ND	0.0020		mg/L	1	10/18/2010 11:58:41 AM
Calcium	4.3	1.0		mg/L	1	10/18/2010 11:58:41 AM
Chromium	ND	0.0060		mg/L	1	10/18/2010 11:58:41 AM
Copper	ND	0.0060		mg/L	1	10/18/2010 11:58:41 AM
Iron	0.058	0.020		mg/L	1	10/18/2010 11:58:41 AM
Lead	ND	0.0050		mg/L	1	10/18/2010 11:58:41 AM
Magnesium	ND	1.0		mg/L	1	10/18/2010 11:58:41 AM
Manganese	0.031	0.0020		mg/L	1	10/18/2010 11:58:41 AM
Potassium	1.2	1.0		mg/L	1	10/18/2010 11:58:41 AM
Selenium	ND	0.050		mg/L	1	10/18/2010 11:58:41 AM
Silver	ND	0.0050		mg/L	1	10/18/2010 11:58:41 AM
Sodium	230	5.0		mg/L	5	10/18/2010 12:13:44 PM
Zinc	0.079	0.050		mg/L	1	10/19/2010 2:05:25 PM
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: **SNV**
Arsenic	ND	0.020		mg/L	1	10/6/2010 12:47:23 PM
Barium	0.025	0.020		mg/L	1	10/6/2010 12:47:23 PM
Cadmium	ND	0.0020		mg/L	1	10/6/2010 12:47:23 PM
Chromium	ND	0.0060		mg/L	1	10/6/2010 12:47:23 PM
Copper	ND	0.0060		mg/L	1	10/6/2010 12:47:23 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: *25-Oct-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	OW-52
Lab Order:	1010067	**Collection Date:**	9/27/2010 2:40:00 PM
Project:	3rd Qtr 2010	**Date Received:**	9/29/2010
Lab ID:	1010067-03	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: SNV
Iron	0.065	0.050		mg/L	1	10/6/2010 12:47:23 PM
Lead	ND	0.0050		mg/L	1	10/6/2010 12:47:23 PM
Manganese	0.030	0.0020		mg/L	1	10/6/2010 12:47:23 PM
Selenium	ND	0.050		mg/L	1	10/6/2010 12:47:23 PM
Silver	ND	0.0050		mg/L	1	10/6/2010 12:47:23 PM
Zinc	ND	0.020		mg/L	1	10/6/2010 12:47:23 PM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	10		µg/L	1	10/10/2010 11:31:34 PM
Acenaphthylene	ND	10		µg/L	1	10/10/2010 11:31:34 PM
Aniline	ND	10		µg/L	1	10/10/2010 11:31:34 PM
Anthracene	ND	10		µg/L	1	10/10/2010 11:31:34 PM
Azobenzene	ND	10		µg/L	1	10/10/2010 11:31:34 PM
Benz(a)anthracene	ND	10		µg/L	1	10/10/2010 11:31:34 PM
Benzo(a)pyrene	ND	10		µg/L	1	10/10/2010 11:31:34 PM
Benzo(b)fluoranthene	ND	10		µg/L	1	10/10/2010 11:31:34 PM
Benzo(g,h,i)perylene	ND	10		µg/L	1	10/10/2010 11:31:34 PM
Benzo(k)fluoranthene	ND	10		µg/L	1	10/10/2010 11:31:34 PM
Benzoic acid	ND	20		µg/L	1	10/10/2010 11:31:34 PM
Benzyl alcohol	ND	10		µg/L	1	10/10/2010 11:31:34 PM
Bis(2-chloroethoxy)methane	ND	10		µg/L	1	10/10/2010 11:31:34 PM
Bis(2-chloroethyl)ether	ND	10		µg/L	1	10/10/2010 11:31:34 PM
Bis(2-chloroisopropyl)ether	ND	10		µg/L	1	10/10/2010 11:31:34 PM
Bis(2-ethylhexyl)phthalate	ND	10		µg/L	1	10/10/2010 11:31:34 PM
4-Bromophenyl phenyl ether	ND	10		µg/L	1	10/10/2010 11:31:34 PM
Butyl benzyl phthalate	ND	10		µg/L	1	10/10/2010 11:31:34 PM
Carbazole	ND	10		µg/L	1	10/10/2010 11:31:34 PM
4-Chloro-3-methylphenol	ND	10		µg/L	1	10/10/2010 11:31:34 PM
4-Chloroaniline	ND	10		µg/L	1	10/10/2010 11:31:34 PM
2-Chloronaphthalene	ND	10		µg/L	1	10/10/2010 11:31:34 PM
2-Chlorophenol	ND	10		µg/L	1	10/10/2010 11:31:34 PM
4-Chlorophenyl phenyl ether	ND	10		µg/L	1	10/10/2010 11:31:34 PM
Chrysene	ND	10		µg/L	1	10/10/2010 11:31:34 PM
Di-n-butyl phthalate	ND	10		µg/L	1	10/10/2010 11:31:34 PM
Di-n-octyl phthalate	ND	10		µg/L	1	10/10/2010 11:31:34 PM
Dibenz(a,h)anthracene	ND	10		µg/L	1	10/10/2010 11:31:34 PM
Dibenzofuran	ND	10		µg/L	1	10/10/2010 11:31:34 PM
1,2-Dichlorobenzene	ND	10		µg/L	1	10/10/2010 11:31:34 PM
1,3-Dichlorobenzene	ND	10		µg/L	1	10/10/2010 11:31:34 PM
1,4-Dichlorobenzene	ND	10		µg/L	1	10/10/2010 11:31:34 PM
3,3'-Dichlorobenzidine	ND	10		µg/L	1	10/10/2010 11:31:34 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: *25-Oct-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	OW-52
Lab Order:	1010067	**Collection Date:**	9/27/2010 2:40:00 PM
Project:	3rd Qtr 2010	**Date Received:**	9/29/2010
Lab ID:	1010067-03	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Diethyl phthalate	ND	10		µg/L	1	10/10/2010 11:31:34 PM
Dimethyl phthalate	ND	10		µg/L	1	10/10/2010 11:31:34 PM
2,4-Dichlorophenol	ND	20		µg/L	1	10/10/2010 11:31:34 PM
2,4-Dimethylphenol	ND	10		µg/L	1	10/10/2010 11:31:34 PM
4,6-Dinitro-2-methylphenol	ND	20		µg/L	1	10/10/2010 11:31:34 PM
2,4-Dinitrophenol	ND	20		µg/L	1	10/10/2010 11:31:34 PM
2,4-Dinitrotoluene	ND	10		µg/L	1	10/10/2010 11:31:34 PM
2,6-Dinitrotoluene	ND	10		µg/L	1	10/10/2010 11:31:34 PM
Fluoranthene	ND	10		µg/L	1	10/10/2010 11:31:34 PM
Fluorene	ND	10		µg/L	1	10/10/2010 11:31:34 PM
Hexachlorobenzene	ND	10		µg/L	1	10/10/2010 11:31:34 PM
Hexachlorobutadiene	ND	10		µg/L	1	10/10/2010 11:31:34 PM
Hexachlorocyclopentadiene	ND	10		µg/L	1	10/10/2010 11:31:34 PM
Hexachloroethane	ND	10		µg/L	1	10/10/2010 11:31:34 PM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	10/10/2010 11:31:34 PM
Isophorone	ND	10		µg/L	1	10/10/2010 11:31:34 PM
2-Methylnaphthalene	ND	10		µg/L	1	10/10/2010 11:31:34 PM
2-Methylphenol	ND	10		µg/L	1	10/10/2010 11:31:34 PM
3+4-Methylphenol	ND	10		µg/L	1	10/10/2010 11:31:34 PM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	10/10/2010 11:31:34 PM
N-Nitrosodimethylamine	ND	10		µg/L	1	10/10/2010 11:31:34 PM
N-Nitrosodiphenylamine	ND	10		µg/L	1	10/10/2010 11:31:34 PM
Naphthalene	ND	10		µg/L	1	10/10/2010 11:31:34 PM
2-Nitroaniline	ND	10		µg/L	1	10/10/2010 11:31:34 PM
3-Nitroaniline	ND	10		µg/L	1	10/10/2010 11:31:34 PM
4-Nitroaniline	ND	20		µg/L	1	10/10/2010 11:31:34 PM
Nitrobenzene	ND	10		µg/L	1	10/10/2010 11:31:34 PM
2-Nitrophenol	ND	10		µg/L	1	10/10/2010 11:31:34 PM
4-Nitrophenol	ND	10		µg/L	1	10/10/2010 11:31:34 PM
Pentachlorophenol	ND	20		µg/L	1	10/10/2010 11:31:34 PM
Phenanthrene	ND	10		µg/L	1	10/10/2010 11:31:34 PM
Phenol	ND	10		µg/L	1	10/10/2010 11:31:34 PM
Pyrene	ND	10		µg/L	1	10/10/2010 11:31:34 PM
Pyridine	ND	10		µg/L	1	10/10/2010 11:31:34 PM
1,2,4-Trichlorobenzene	ND	10		µg/L	1	10/10/2010 11:31:34 PM
2,4,5-Trichlorophenol	ND	10		µg/L	1	10/10/2010 11:31:34 PM
2,4,6-Trichlorophenol	ND	10		µg/L	1	10/10/2010 11:31:34 PM
Surr: 2,4,6-Tribromophenol	78.3	16.6-150		%REC	1	10/10/2010 11:31:34 PM
Surr: 2-Fluorobiphenyl	77.6	19.6-134		%REC	1	10/10/2010 11:31:34 PM
Surr: 2-Fluorophenol	58.1	9.54-113		%REC	1	10/10/2010 11:31:34 PM
Surr: 4-Terphenyl-d14	62.5	22.7-145		%REC	1	10/10/2010 11:31:34 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: *25-Oct-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	OW-52
Lab Order:	1010067	**Collection Date:**	9/27/2010 2:40:00 PM
Project:	3rd Qtr 2010	**Date Received:**	9/29/2010
Lab ID:	1010067-03	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Surr: Nitrobenzene-d5	80.4	14.6-134		%REC	1	10/10/2010 11:31:34 PM
Surr: Phenol-d5	48.3	10.7-80.3		%REC	1	10/10/2010 11:31:34 PM
EPA METHOD 8260B: VOLATILES						Analyst: RAA
Benzene	ND	1.0		µg/L	1	10/3/2010 12:13:36 AM
Toluene	ND	1.0		µg/L	1	10/3/2010 12:13:36 AM
Ethylbenzene	ND	1.0		µg/L	1	10/3/2010 12:13:36 AM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	10/3/2010 12:13:36 AM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	10/3/2010 12:13:36 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	10/3/2010 12:13:36 AM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	10/3/2010 12:13:36 AM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	10/3/2010 12:13:36 AM
Naphthalene	ND	2.0		µg/L	1	10/3/2010 12:13:36 AM
1-Methylnaphthalene	ND	4.0		µg/L	1	10/3/2010 12:13:36 AM
2-Methylnaphthalene	ND	4.0		µg/L	1	10/3/2010 12:13:36 AM
Acetone	ND	10		µg/L	1	10/3/2010 12:13:36 AM
Bromobenzene	ND	1.0		µg/L	1	10/3/2010 12:13:36 AM
Bromodichloromethane	ND	1.0		µg/L	1	10/3/2010 12:13:36 AM
Bromoform	ND	1.0		µg/L	1	10/3/2010 12:13:36 AM
Bromomethane	ND	3.0		µg/L	1	10/3/2010 12:13:36 AM
2-Butanone	ND	10		µg/L	1	10/3/2010 12:13:36 AM
Carbon disulfide	ND	10		µg/L	1	10/3/2010 12:13:36 AM
Carbon Tetrachloride	ND	1.0		µg/L	1	10/3/2010 12:13:36 AM
Chlorobenzene	ND	1.0		µg/L	1	10/3/2010 12:13:36 AM
Chloroethane	ND	2.0		µg/L	1	10/3/2010 12:13:36 AM
Chloroform	ND	1.0		µg/L	1	10/3/2010 12:13:36 AM
Chloromethane	ND	3.0		µg/L	1	10/3/2010 12:13:36 AM
2-Chlorotoluene	ND	1.0		µg/L	1	10/3/2010 12:13:36 AM
4-Chlorotoluene	ND	1.0		µg/L	1	10/3/2010 12:13:36 AM
cis-1,2-DCE	ND	1.0		µg/L	1	10/3/2010 12:13:36 AM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	10/3/2010 12:13:36 AM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	10/3/2010 12:13:36 AM
Dibromochloromethane	ND	1.0		µg/L	1	10/3/2010 12:13:36 AM
Dibromomethane	ND	1.0		µg/L	1	10/3/2010 12:13:36 AM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	10/3/2010 12:13:36 AM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	10/3/2010 12:13:36 AM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	10/3/2010 12:13:36 AM
Dichlorodifluoromethane	ND	1.0		µg/L	1	10/3/2010 12:13:36 AM
1,1-Dichloroethane	ND	1.0		µg/L	1	10/3/2010 12:13:36 AM
1,1-Dichloroethene	ND	1.0		µg/L	1	10/3/2010 12:13:36 AM
1,2-Dichloropropane	ND	1.0		µg/L	1	10/3/2010 12:13:36 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: *25-Oct-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	OW-52
Lab Order:	1010067	**Collection Date:**	9/27/2010 2:40:00 PM
Project:	3rd Qtr 2010	**Date Received:**	9/29/2010
Lab ID:	1010067-03	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
1,3-Dichloropropane	ND	1.0		µg/L	1	10/3/2010 12:13:36 AM
2,2-Dichloropropane	ND	2.0		µg/L	1	10/3/2010 12:13:36 AM
1,1-Dichloropropene	ND	1.0		µg/L	1	10/3/2010 12:13:36 AM
Hexachlorobutadiene	ND	1.0		µg/L	1	10/3/2010 12:13:36 AM
2-Hexanone	ND	10		µg/L	1	10/3/2010 12:13:36 AM
Isopropylbenzene	ND	1.0		µg/L	1	10/3/2010 12:13:36 AM
4-Isopropyltoluene	ND	1.0		µg/L	1	10/3/2010 12:13:36 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	10/3/2010 12:13:36 AM
Methylene Chloride	ND	3.0		µg/L	1	10/3/2010 12:13:36 AM
n-Butylbenzene	ND	1.0		µg/L	1	10/3/2010 12:13:36 AM
n-Propylbenzene	ND	1.0		µg/L	1	10/3/2010 12:13:36 AM
sec-Butylbenzene	ND	1.0		µg/L	1	10/3/2010 12:13:36 AM
Styrene	ND	1.0		µg/L	1	10/3/2010 12:13:36 AM
tert-Butylbenzene	ND	1.0		µg/L	1	10/3/2010 12:13:36 AM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	10/3/2010 12:13:36 AM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	10/3/2010 12:13:36 AM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	10/3/2010 12:13:36 AM
trans-1,2-DCE	ND	1.0		µg/L	1	10/3/2010 12:13:36 AM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	10/3/2010 12:13:36 AM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	10/3/2010 12:13:36 AM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	10/3/2010 12:13:36 AM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	10/3/2010 12:13:36 AM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	10/3/2010 12:13:36 AM
Trichloroethene (TCE)	ND	1.0		µg/L	1	10/3/2010 12:13:36 AM
Trichlorofluoromethane	ND	1.0		µg/L	1	10/3/2010 12:13:36 AM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	10/3/2010 12:13:36 AM
Vinyl chloride	ND	1.0		µg/L	1	10/3/2010 12:13:36 AM
Xylenes, Total	ND	1.5		µg/L	1	10/3/2010 12:13:36 AM
Surr: 1,2-Dichloroethane-d4	111	54.6-141		%REC	1	10/3/2010 12:13:36 AM
Surr: 4-Bromofluorobenzene	115	60.1-133		%REC	1	10/3/2010 12:13:36 AM
Surr: Dibromofluoromethane	106	78.5-130		%REC	1	10/3/2010 12:13:36 AM
Surr: Toluene-d8	104	79.5-126		%REC	1	10/3/2010 12:13:36 AM

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: *25-Oct-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	Field Blank
Lab Order:	1010067	**Collection Date:**	9/27/2010 8:00:00 AM
Project:	3rd Qtr 2010	**Date Received:**	9/29/2010
Lab ID:	1010067-04	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
Benzene	ND	1.0		µg/L	1	10/3/2010 12:39:47 AM
Toluene	ND	1.0		µg/L	1	10/3/2010 12:39:47 AM
Ethylbenzene	ND	1.0		µg/L	1	10/3/2010 12:39:47 AM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	10/3/2010 12:39:47 AM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	10/3/2010 12:39:47 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	10/3/2010 12:39:47 AM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	10/3/2010 12:39:47 AM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	10/3/2010 12:39:47 AM
Naphthalene	ND	2.0		µg/L	1	10/3/2010 12:39:47 AM
1-Methylnaphthalene	ND	4.0		µg/L	1	10/3/2010 12:39:47 AM
2-Methylnaphthalene	ND	4.0		µg/L	1	10/3/2010 12:39:47 AM
Acetone	ND	10		µg/L	1	10/3/2010 12:39:47 AM
Bromobenzene	ND	1.0		µg/L	1	10/3/2010 12:39:47 AM
Bromodichloromethane	ND	1.0		µg/L	1	10/3/2010 12:39:47 AM
Bromoform	ND	1.0		µg/L	1	10/3/2010 12:39:47 AM
Bromomethane	ND	3.0		µg/L	1	10/3/2010 12:39:47 AM
2-Butanone	ND	10		µg/L	1	10/3/2010 12:39:47 AM
Carbon disulfide	ND	10		µg/L	1	10/3/2010 12:39:47 AM
Carbon Tetrachloride	ND	1.0		µg/L	1	10/3/2010 12:39:47 AM
Chlorobenzene	ND	1.0		µg/L	1	10/3/2010 12:39:47 AM
Chloroethane	ND	2.0		µg/L	1	10/3/2010 12:39:47 AM
Chloroform	ND	1.0		µg/L	1	10/3/2010 12:39:47 AM
Chloromethane	ND	3.0		µg/L	1	10/3/2010 12:39:47 AM
2-Chlorotoluene	ND	1.0		µg/L	1	10/3/2010 12:39:47 AM
4-Chlorotoluene	ND	1.0		µg/L	1	10/3/2010 12:39:47 AM
cis-1,2-DCE	ND	1.0		µg/L	1	10/3/2010 12:39:47 AM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	10/3/2010 12:39:47 AM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	10/3/2010 12:39:47 AM
Dibromochloromethane	ND	1.0		µg/L	1	10/3/2010 12:39:47 AM
Dibromomethane	ND	1.0		µg/L	1	10/3/2010 12:39:47 AM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	10/3/2010 12:39:47 AM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	10/3/2010 12:39:47 AM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	10/3/2010 12:39:47 AM
Dichlorodifluoromethane	ND	1.0		µg/L	1	10/3/2010 12:39:47 AM
1,1-Dichloroethane	ND	1.0		µg/L	1	10/3/2010 12:39:47 AM
1,1-Dichloroethene	ND	1.0		µg/L	1	10/3/2010 12:39:47 AM
1,2-Dichloropropane	ND	1.0		µg/L	1	10/3/2010 12:39:47 AM
1,3-Dichloropropane	ND	1.0		µg/L	1	10/3/2010 12:39:47 AM
2,2-Dichloropropane	ND	2.0		µg/L	1	10/3/2010 12:39:47 AM
1,1-Dichloropropene	ND	1.0		µg/L	1	10/3/2010 12:39:47 AM
Hexachlorobutadiene	ND	1.0		µg/L	1	10/3/2010 12:39:47 AM

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: *25-Oct-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	Field Blank
Lab Order:	1010067	**Collection Date:**	9/27/2010 8:00:00 AM
Project:	3rd Qtr 2010	**Date Received:**	9/29/2010
Lab ID:	1010067-04	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**
2-Hexanone	ND	10		µg/L	1	10/3/2010 12:39:47 AM
Isopropylbenzene	ND	1.0		µg/L	1	10/3/2010 12:39:47 AM
4-Isopropyltoluene	ND	1.0		µg/L	1	10/3/2010 12:39:47 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	10/3/2010 12:39:47 AM
Methylene Chloride	ND	3.0		µg/L	1	10/3/2010 12:39:47 AM
n-Butylbenzene	ND	1.0		µg/L	1	10/3/2010 12:39:47 AM
n-Propylbenzene	ND	1.0		µg/L	1	10/3/2010 12:39:47 AM
sec-Butylbenzene	ND	1.0		µg/L	1	10/3/2010 12:39:47 AM
Styrene	ND	1.0		µg/L	1	10/3/2010 12:39:47 AM
tert-Butylbenzene	ND	1.0		µg/L	1	10/3/2010 12:39:47 AM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	10/3/2010 12:39:47 AM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	10/3/2010 12:39:47 AM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	10/3/2010 12:39:47 AM
trans-1,2-DCE	ND	1.0		µg/L	1	10/3/2010 12:39:47 AM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	10/3/2010 12:39:47 AM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	10/3/2010 12:39:47 AM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	10/3/2010 12:39:47 AM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	10/3/2010 12:39:47 AM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	10/3/2010 12:39:47 AM
Trichloroethene (TCE)	ND	1.0		µg/L	1	10/3/2010 12:39:47 AM
Trichlorofluoromethane	ND	1.0		µg/L	1	10/3/2010 12:39:47 AM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	10/3/2010 12:39:47 AM
Vinyl chloride	ND	1.0		µg/L	1	10/3/2010 12:39:47 AM
Xylenes, Total	ND	1.5		µg/L	1	10/3/2010 12:39:47 AM
Surr: 1,2-Dichloroethane-d4	112	54.6-141		%REC	1	10/3/2010 12:39:47 AM
Surr: 4-Bromofluorobenzene	109	60.1-133		%REC	1	10/3/2010 12:39:47 AM
Surr: Dibromofluoromethane	108	78.5-130		%REC	1	10/3/2010 12:39:47 AM
Surr: Toluene-d8	110	79.5-126		%REC	1	10/3/2010 12:39:47 AM

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: *25-Oct-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	Trip Blank
Lab Order:	1010067	**Collection Date:**	
Project:	3rd Qtr 2010	**Date Received:**	9/29/2010
Lab ID:	1010067-05	**Matrix:**	TRIP BLANK

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**
Benzene	ND	1.0		µg/L	1	10/3/2010 1:06:07 AM
Toluene	ND	1.0		µg/L	1	10/3/2010 1:06:07 AM
Ethylbenzene	ND	1.0		µg/L	1	10/3/2010 1:06:07 AM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	10/3/2010 1:06:07 AM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	10/3/2010 1:06:07 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	10/3/2010 1:06:07 AM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	10/3/2010 1:06:07 AM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	10/3/2010 1:06:07 AM
Naphthalene	ND	2.0		µg/L	1	10/3/2010 1:06:07 AM
1-Methylnaphthalene	ND	4.0		µg/L	1	10/3/2010 1:06:07 AM
2-Methylnaphthalene	ND	4.0		µg/L	1	10/3/2010 1:06:07 AM
Acetone	ND	10		µg/L	1	10/3/2010 1:06:07 AM
Bromobenzene	ND	1.0		µg/L	1	10/3/2010 1:06:07 AM
Bromodichloromethane	ND	1.0		µg/L	1	10/3/2010 1:06:07 AM
Bromoform	ND	1.0		µg/L	1	10/3/2010 1:06:07 AM
Bromomethane	ND	3.0		µg/L	1	10/3/2010 1:06:07 AM
2-Butanone	ND	10		µg/L	1	10/3/2010 1:06:07 AM
Carbon disulfide	ND	10		µg/L	1	10/3/2010 1:06:07 AM
Carbon Tetrachloride	ND	1.0		µg/L	1	10/3/2010 1:06:07 AM
Chlorobenzene	ND	1.0		µg/L	1	10/3/2010 1:06:07 AM
Chloroethane	ND	2.0		µg/L	1	10/3/2010 1:06:07 AM
Chloroform	ND	1.0		µg/L	1	10/3/2010 1:06:07 AM
Chloromethane	ND	3.0		µg/L	1	10/3/2010 1:06:07 AM
2-Chlorotoluene	ND	1.0		µg/L	1	10/3/2010 1:06:07 AM
4-Chlorotoluene	ND	1.0		µg/L	1	10/3/2010 1:06:07 AM
cis-1,2-DCE	ND	1.0		µg/L	1	10/3/2010 1:06:07 AM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	10/3/2010 1:06:07 AM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	10/3/2010 1:06:07 AM
Dibromochloromethane	ND	1.0		µg/L	1	10/3/2010 1:06:07 AM
Dibromomethane	ND	1.0		µg/L	1	10/3/2010 1:06:07 AM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	10/3/2010 1:06:07 AM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	10/3/2010 1:06:07 AM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	10/3/2010 1:06:07 AM
Dichlorodifluoromethane	ND	1.0		µg/L	1	10/3/2010 1:06:07 AM
1,1-Dichloroethane	ND	1.0		µg/L	1	10/3/2010 1:06:07 AM
1,1-Dichloroethene	ND	1.0		µg/L	1	10/3/2010 1:06:07 AM
1,2-Dichloropropane	ND	1.0		µg/L	1	10/3/2010 1:06:07 AM
1,3-Dichloropropane	ND	1.0		µg/L	1	10/3/2010 1:06:07 AM
2,2-Dichloropropane	ND	2.0		µg/L	1	10/3/2010 1:06:07 AM
1,1-Dichloropropene	ND	1.0		µg/L	1	10/3/2010 1:06:07 AM
Hexachlorobutadiene	ND	1.0		µg/L	1	10/3/2010 1:06:07 AM

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: *25-Oct-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	Trip Blank
Lab Order:	1010067	**Collection Date:**	
Project:	3rd Qtr 2010	**Date Received:**	9/29/2010
Lab ID:	1010067-05	**Matrix:**	TRIP BLANK

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**
2-Hexanone	ND	10		µg/L	1	10/3/2010 1:06:07 AM
Isopropylbenzene	ND	1.0		µg/L	1	10/3/2010 1:06:07 AM
4-Isopropyltoluene	ND	1.0		µg/L	1	10/3/2010 1:06:07 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	10/3/2010 1:06:07 AM
Methylene Chloride	ND	3.0		µg/L	1	10/3/2010 1:06:07 AM
n-Butylbenzene	ND	1.0		µg/L	1	10/3/2010 1:06:07 AM
n-Propylbenzene	ND	1.0		µg/L	1	10/3/2010 1:06:07 AM
sec-Butylbenzene	ND	1.0		µg/L	1	10/3/2010 1:06:07 AM
Styrene	ND	1.0		µg/L	1	10/3/2010 1:06:07 AM
tert-Butylbenzene	ND	1.0		µg/L	1	10/3/2010 1:06:07 AM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	10/3/2010 1:06:07 AM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	10/3/2010 1:06:07 AM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	10/3/2010 1:06:07 AM
trans-1,2-DCE	ND	1.0		µg/L	1	10/3/2010 1:06:07 AM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	10/3/2010 1:06:07 AM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	10/3/2010 1:06:07 AM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	10/3/2010 1:06:07 AM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	10/3/2010 1:06:07 AM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	10/3/2010 1:06:07 AM
Trichloroethene (TCE)	ND	1.0		µg/L	1	10/3/2010 1:06:07 AM
Trichlorofluoromethane	ND	1.0		µg/L	1	10/3/2010 1:06:07 AM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	10/3/2010 1:06:07 AM
Vinyl chloride	ND	1.0		µg/L	1	10/3/2010 1:06:07 AM
Xylenes, Total	ND	1.5		µg/L	1	10/3/2010 1:06:07 AM
Surr: 1,2-Dichloroethane-d4	104	54.6-141		%REC	1	10/3/2010 1:06:07 AM
Surr: 4-Bromofluorobenzene	110	60.1-133		%REC	1	10/3/2010 1:06:07 AM
Surr: Dibromofluoromethane	99.0	78.5-130		%REC	1	10/3/2010 1:06:07 AM
Surr: Toluene-d8	105	79.5-126		%REC	1	10/3/2010 1:06:07 AM

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

LABORATORY ANALYTICAL REPORT

Client: Hall Environmental
Project: 1010067
Lab ID: B10100480-001
Client Sample ID 1010067-02D & -02F OW-50

Report Date: 10/13/10
Collection Date: 09/27/10 10:48
DateReceived: 10/05/10
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, DISSOLVED							
Uranium	0.006	mg/L		0.001		SW6020	10/09/10 06:02 / jjw
METALS, TOTAL							
Uranium	0.006	mg/L		0.001		SW6020	10/13/10 00:29 / tao

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Client: Hall Environmental
Project: 1010067
Lab ID: B10100480-002
Client Sample ID 1010067-03D & -03F OW-52

Report Date: 10/13/10
Collection Date: 09/27/10 14:40
DateReceived: 10/05/10
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, DISSOLVED							
Uranium	0.009	mg/L		0.001		SW6020	10/09/10 06:07 / jjw
METALS, TOTAL							
Uranium	0.010	mg/L		0.001		SW6020	10/13/10 00:33 / tao

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: Hall Environmental
Project: 1010067

Report Date: 10/13/10
Work Order: B10100480

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW6020								Analytical Run: ICPMS202-B_101012A		
Sample ID: QCS - 100607A,10072		Initial Calibration Verification Standard							10/12/10 12:42	
Uranium		0.0192	mg/L	0.00030	96	90	110			
Sample ID: ICSA-ME091229B		Interference Check Sample A							10/12/10 12:46	
Uranium		1.40E-05	mg/L	0.00030						
Sample ID: ICSAB-ME091229B, 10		Interference Check Sample AB							10/12/10 12:50	
Uranium		2.00E-06	mg/L	0.00030		0	0			
Method: SW6020									Batch: 49638	
Sample ID: MB-49638		Method Blank				Run: ICPMS202-B_101012A			10/13/10 00:01	
Uranium		ND	mg/L	2E-05						
Sample ID: B10100459-001BDIL		Serial Dilution				Run: ICPMS202-B_101012A			10/13/10 00:25	
Uranium		0.00175	mg/L	0.0010		0	0		10	N
Sample ID: LCS-49638		Laboratory Control Sample				Run: ICPMS202-B_101012A			10/13/10 00:37	
Uranium		0.503	mg/L	0.0010	101	85	115			
Sample ID: B10100459-001BMS3		Sample Matrix Spike				Run: ICPMS202-B_101012A			10/13/10 00:41	
Uranium		0.533	mg/L	0.0010	106	75	125			
Sample ID: B10100459-001BMSD3		Sample Matrix Spike Duplicate				Run: ICPMS202-B_101012A			10/13/10 00:45	
Uranium		0.555	mg/L	0.0010	111	75	125	4	20	

Qualifiers:

RL - Analyte reporting limit.

N - The analyte concentration was not sufficiently high to calculate a RPD for the serial dilution test.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: Hall Environmental
Project: 1010067

Report Date: 10/13/10
Work Order: B10100480

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW6020									Analytical Run: ICPMS203-B_101008A	
Sample ID: QCS-100607A,100726		Initial Calibration Verification Standard								10/08/10 17:24
Uranium		0.0208	mg/L	0.00030	104	90	110			
Sample ID: ICSA-ME091229B		Interference Check Sample A								10/08/10 17:29
Uranium		1.20E-05	mg/L	0.00030						
Sample ID: ICSAB-ME091229B,09		Interference Check Sample AB								10/08/10 17:33
Uranium		3.00E-06	mg/L	0.00030		0	0			
Method: SW6020										Batch: R155275
Sample ID: B10100211-001AMS		Sample Matrix Spike				Run: ICPMS203-B_101008A				10/09/10 02:07
Uranium		0.236	mg/L	0.0010	93	75	125			
Sample ID: B10100211-002ADIL		Serial Dilution				Run: ICPMS203-B_101008A				10/09/10 03:09
Uranium		0.0106	mg/L	0.0010		0	0			
Sample ID: B10100211-001AMSD		Sample Matrix Spike Duplicate				Run: ICPMS203-B_101008A				10/09/10 04:07
Uranium		0.231	mg/L	0.0010	91	75	125	1.9	20	
Sample ID: LRB		Method Blank				Run: ICPMS203-B_101008A				10/08/10 15:15
Uranium		ND	mg/L	4E-06						
Sample ID: LFB		Laboratory Fortified Blank				Run: ICPMS203-B_101008A				10/08/10 15:19
Uranium		0.0524	mg/L	0.00030	105	85	115			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: 3rd Qtr 2010 **Work Order:** 1010067

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:	**R41371**	Analysis Date:		10/5/2010 12:14:01 PM	
Fluoride	ND	mg/L	0.10								
Chloride	ND	mg/L	0.50								
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:	**R41400**	Analysis Date:		10/6/2010 11:41:54 PM	
Fluoride	ND	mg/L	0.10								
Chloride	ND	mg/L	0.50								
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:	**R41371**	Analysis Date:		10/5/2010 12:31:25 PM	
Fluoride	0.5005	mg/L	0.10	0.5	0	100	90	110			
Chloride	4.925	mg/L	0.50	5	0	98.5	90	110			
Nitrate (As N)+Nitrite (As N)	3.500	mg/L	0.20	3.5	0	100	90	110			
Phosphorus, Orthophosphate (As P)	5.282	mg/L	0.50	5	0	106	90	110			
Sulfate	9.912	mg/L	0.50	10	0	99.1	90	110			
Sample ID: LCS		*LCS*				Batch ID:	**R41400**	Analysis Date:		10/6/2010 11:59:19 PM	
Fluoride	0.5222	mg/L	0.10	0.5	0	104	90	110			
Chloride	5.032	mg/L	0.50	5	0	101	90	110			
Nitrate (As N)+Nitrite (As N)	3.562	mg/L	0.20	3.5	0	102	90	110			
Phosphorus, Orthophosphate (As P)	5.366	mg/L	0.50	5	0	107	90	110			
Sulfate	10.18	mg/L	0.50	10	0	102	90	110			
Method: EPA Method 8015B: Diesel Range											
Sample ID: MB-23985		*MBLK*				Batch ID:	**23985**	Analysis Date:		10/4/2010 7:31:23 PM	
Diesel Range Organics (DRO)	ND	mg/L	1.0								
Motor Oil Range Organics (MRO)	ND	mg/L	5.0								
Sample ID: LCS-23985		*LCS*				Batch ID:	**23985**	Analysis Date:		10/4/2010 8:05:29 PM	
Diesel Range Organics (DRO)	5.179	mg/L	1.0	5	0	104	74	157			
Sample ID: LCSD-23985		*LCSD*				Batch ID:	**23985**	Analysis Date:		10/4/2010 8:39:36 PM	
Diesel Range Organics (DRO)	5.753	mg/L	1.0	5	0	115	74	157	10.5	23	
Method: EPA Method 8015B: Gasoline Range											
Sample ID: 5ML RB		*MBLK*				Batch ID:	**R41374**	Analysis Date:		10/5/2010 9:40:13 AM	
Gasoline Range Organics (GRO)	ND	mg/L	0.050								
Sample ID: b 21		*MBLK*				Batch ID:	**R41374**	Analysis Date:		10/5/2010 6:37:23 PM	
Gasoline Range Organics (GRO)	ND	mg/L	0.050								
Sample ID: 2.5UG GRO LCS		*LCS*				Batch ID:	**R41374**	Analysis Date:		10/5/2010 8:33:15 PM	
Gasoline Range Organics (GRO)	0.5606	mg/L	0.050	0.5	0	112	89.5	122			
Sample ID: 2.5UG GRO LCS		*LCS*				Batch ID:	**R41374**	Analysis Date:		10/7/2010 10:58:01 AM	
Gasoline Range Organics (GRO)	0.5608	mg/L	0.050	0.5	0	112	89.5	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: 3rd Qtr 2010 **Work Order:** 1010067

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260B: VOLATILES											
Sample ID: 1010067-02a msd		*MSD*				Batch ID:	**R41337**	Analysis Date:		10/2/2010 10:02:38 PM	
Benzene	19.60	µg/L	1.0	20	0	98.0	75.7	118	2.87	15	
Toluene	17.80	µg/L	1.0	20	0	89.0	80.1	114	6.39	15	
Chlorobenzene	19.25	µg/L	1.0	20	0	96.2	81.5	112	1.23	15	
1,1-Dichloroethene	20.34	µg/L	1.0	20	0	102	77.4	132	1.19	17.8	
Trichloroethene (TCE)	18.40	µg/L	1.0	20	0	92.0	61.1	121	2.82	19.8	
Sample ID: 5ml-rb		*MBLK*				Batch ID:	**R41337**	Analysis Date:		10/2/2010 11:49:14 AM	
Benzene	ND	µg/L	1.0								
Toluene	ND	µg/L	1.0								
Ethylbenzene	ND	µg/L	1.0								
Methyl tert-butyl ether (MTBE)	ND	µg/L	1.0								
1,2,4-Trimethylbenzene	ND	µg/L	1.0								
1,3,5-Trimethylbenzene	ND	µg/L	1.0								
1,2-Dichloroethane (EDC)	ND	µg/L	1.0								
1,2-Dibromoethane (EDB)	ND	µg/L	1.0								
Naphthalene	ND	µg/L	2.0								
1-Methylnaphthalene	ND	µg/L	4.0								
2-Methylnaphthalene	ND	µg/L	4.0								
Acetone	ND	µg/L	10								
Bromobenzene	ND	µg/L	1.0								
Bromodichloromethane	ND	µg/L	1.0								
Bromoform	ND	µg/L	1.0								
Bromomethane	ND	µg/L	3.0								
2-Butanone	ND	µg/L	10								
Carbon disulfide	ND	µg/L	10								
Carbon Tetrachloride	ND	µg/L	1.0								
Chlorobenzene	ND	µg/L	1.0								
Chloroethane	ND	µg/L	2.0								
Chloroform	ND	µg/L	1.0								
Chloromethane	ND	µg/L	3.0								
2-Chlorotoluene	ND	µg/L	1.0								
4-Chlorotoluene	ND	µg/L	1.0								
cis-1,2-DCE	ND	µg/L	1.0								
cis-1,3-Dichloropropene	ND	µg/L	1.0								
1,2-Dibromo-3-chloropropane	ND	µg/L	2.0								
Dibromochloromethane	ND	µg/L	1.0								
Dibromomethane	ND	µg/L	1.0								
1,2-Dichlorobenzene	ND	µg/L	1.0								
1,3-Dichlorobenzene	ND	µg/L	1.0								
1,4-Dichlorobenzene	ND	µg/L	1.0								
Dichlorodifluoromethane	ND	µg/L	1.0								
1,1-Dichloroethane	ND	µg/L	1.0								
1,1-Dichloroethene	ND	µg/L	1.0								
1,2-Dichloropropane	ND	µg/L	1.0								
1,3-Dichloropropane	ND	µg/L	1.0								

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: 3rd Qtr 2010 **Work Order:** 1010067

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260B: VOLATILES											
Sample ID: 5ml-rb		*MBLK*				Batch ID:	**R41337**	Analysis Date:	10/2/2010 11:49:14 AM		
2,2-Dichloropropane	ND	µg/L	2.0								
1,1-Dichloropropene	ND	µg/L	1.0								
Hexachlorobutadiene	ND	µg/L	1.0								
2-Hexanone	ND	µg/L	10								
Isopropylbenzene	ND	µg/L	1.0								
4-Isopropyltoluene	ND	µg/L	1.0								
4-Methyl-2-pentanone	ND	µg/L	10								
Methylene Chloride	ND	µg/L	3.0								
n-Butylbenzene	ND	µg/L	1.0								
n-Propylbenzene	ND	µg/L	1.0								
sec-Butylbenzene	ND	µg/L	1.0								
Styrene	ND	µg/L	1.0								
tert-Butylbenzene	ND	µg/L	1.0								
1,1,1,2-Tetrachloroethane	ND	µg/L	1.0								
1,1,2,2-Tetrachloroethane	ND	µg/L	2.0								
Tetrachloroethene (PCE)	ND	µg/L	1.0								
trans-1,2-DCE	ND	µg/L	1.0								
trans-1,3-Dichloropropene	ND	µg/L	1.0								
1,2,3-Trichlorobenzene	ND	µg/L	1.0								
1,2,4-Trichlorobenzene	ND	µg/L	1.0								
1,1,1-Trichloroethane	ND	µg/L	1.0								
1,1,2-Trichloroethane	ND	µg/L	1.0								
Trichloroethene (TCE)	ND	µg/L	1.0								
Trichlorofluoromethane	ND	µg/L	1.0								
1,2,3-Trichloropropane	ND	µg/L	2.0								
Vinyl chloride	ND	µg/L	1.0								
Xylenes, Total	ND	µg/L	1.5								
Sample ID: b7		*MBLK*				Batch ID:	**R41337**	Analysis Date:	10/2/2010 10:28:59 PM		
Benzene	ND	µg/L	1.0								
Toluene	ND	µg/L	1.0								
Ethylbenzene	ND	µg/L	1.0								
Methyl tert-butyl ether (MTBE)	ND	µg/L	1.0								
1,2,4-Trimethylbenzene	ND	µg/L	1.0								
1,3,5-Trimethylbenzene	ND	µg/L	1.0								
1,2-Dichloroethane (EDC)	ND	µg/L	1.0								
1,2-Dibromoethane (EDB)	ND	µg/L	1.0								
Naphthalene	ND	µg/L	2.0								
1-Methylnaphthalene	ND	µg/L	4.0								
2-Methylnaphthalene	ND	µg/L	4.0								
Acetone	ND	µg/L	10								
Bromobenzene	ND	µg/L	1.0								
Bromodichloromethane	ND	µg/L	1.0								
Bromoform	ND	µg/L	1.0								
Bromomethane	ND	µg/L	3.0								

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: 3rd Qtr 2010 **Work Order:** 1010067

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260B: VOLATILES											
Sample ID: b7		*MBLK*				Batch ID:	**R41337**	Analysis Date:	10/2/2010 10:28:59 PM		
2-Butanone	ND	µg/L	10								
Carbon disulfide	ND	µg/L	10								
Carbon Tetrachloride	ND	µg/L	1.0								
Chlorobenzene	ND	µg/L	1.0								
Chloroethane	ND	µg/L	2.0								
Chloroform	ND	µg/L	1.0								
Chloromethane	ND	µg/L	3.0								
2-Chlorotoluene	ND	µg/L	1.0								
4-Chlorotoluene	ND	µg/L	1.0								
cis-1,2-DCE	ND	µg/L	1.0								
cis-1,3-Dichloropropene	ND	µg/L	1.0								
1,2-Dibromo-3-chloropropane	ND	µg/L	2.0								
Dibromochloromethane	ND	µg/L	1.0								
Dibromomethane	ND	µg/L	1.0								
1,2-Dichlorobenzene	ND	µg/L	1.0								
1,3-Dichlorobenzene	ND	µg/L	1.0								
1,4-Dichlorobenzene	ND	µg/L	1.0								
Dichlorodifluoromethane	ND	µg/L	1.0								
1,1-Dichloroethane	ND	µg/L	1.0								
1,1-Dichloroethene	ND	µg/L	1.0								
1,2-Dichloropropane	ND	µg/L	1.0								
1,3-Dichloropropane	ND	µg/L	1.0								
2,2-Dichloropropane	ND	µg/L	2.0								
1,1-Dichloropropene	ND	µg/L	1.0								
Hexachlorobutadiene	ND	µg/L	1.0								
2-Hexanone	ND	µg/L	10								
Isopropylbenzene	ND	µg/L	1.0								
4-Isopropyltoluene	ND	µg/L	1.0								
4-Methyl-2-pentanone	ND	µg/L	10								
Methylene Chloride	ND	µg/L	3.0								
n-Butylbenzene	ND	µg/L	1.0								
n-Propylbenzene	ND	µg/L	1.0								
sec-Butylbenzene	ND	µg/L	1.0								
Styrene	ND	µg/L	1.0								
tert-Butylbenzene	ND	µg/L	1.0								
1,1,1,2-Tetrachloroethane	ND	µg/L	1.0								
1,1,2,2-Tetrachloroethane	ND	µg/L	2.0								
Tetrachloroethene (PCE)	ND	µg/L	1.0								
trans-1,2-DCE	ND	µg/L	1.0								
trans-1,3-Dichloropropene	ND	µg/L	1.0								
1,2,3-Trichlorobenzene	ND	µg/L	1.0								
1,2,4-Trichlorobenzene	ND	µg/L	1.0								
1,1,1-Trichloroethane	ND	µg/L	1.0								
1,1,2-Trichloroethane	ND	µg/L	1.0								

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: 3rd Qtr 2010 **Work Order:** 1010067

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260B: VOLATILES											
Sample ID: b7		*MBLK*				Batch ID:	**R41337**	Analysis Date:	10/2/2010 10:28:59 PM		
Trichloroethene (TCE)	ND	µg/L	1.0								
Trichlorofluoromethane	ND	µg/L	1.0								
1,2,3-Trichloropropane	ND	µg/L	2.0								
Vinyl chloride	ND	µg/L	1.0								
Xylenes, Total	ND	µg/L	1.5								
Sample ID: 100ng lcs		*LCS*				Batch ID:	**R41337**	Analysis Date:	10/2/2010 12:52:02 PM		
Benzene	18.95	µg/L	1.0	20	0	94.8	82.4	116			
Toluene	18.18	µg/L	1.0	20	0	90.9	89.5	123			
Chlorobenzene	18.56	µg/L	1.0	20	0	92.8	87.8	120			
1,1-Dichloroethene	19.27	µg/L	1.0	20	0	96.4	90.3	138			
Trichloroethene (TCE)	17.71	µg/L	1.0	20	0	88.6	64	129			
Sample ID: 100ng lcs		*LCS*				Batch ID:	**R41337**	Analysis Date:	10/2/2010 11:21:23 PM		
Benzene	19.48	µg/L	1.0	20	0	97.4	82.4	116			
Toluene	18.83	µg/L	1.0	20	0	94.2	89.5	123			
Chlorobenzene	19.15	µg/L	1.0	20	0	95.7	87.8	120			
1,1-Dichloroethene	19.58	µg/L	1.0	20	0	97.9	90.3	138			
Trichloroethene (TCE)	17.95	µg/L	1.0	20	0	89.8	64	129			
Sample ID: 1010067-02a ms		*MS*				Batch ID:	**R41337**	Analysis Date:	10/2/2010 9:36:32 PM		
Benzene	20.17	µg/L	1.0	20	0	101	75.7	118			
Toluene	18.98	µg/L	1.0	20	0	94.9	80.1	114			
Chlorobenzene	19.48	µg/L	1.0	20	0	97.4	81.5	112			
1,1-Dichloroethene	20.58	µg/L	1.0	20	0	103	77.4	132			
Trichloroethene (TCE)	18.92	µg/L	1.0	20	0	94.6	61.1	121			

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: 3rd Qtr 2010 **Work Order:** 1010067

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8270C: Semivolatiles											
Sample ID: mb-23981		*MBLK*				Batch ID:	**23981**	Analysis Date:	10/10/2010 5:29:58 PM		
Acenaphthene	ND	µg/L	10								
Acenaphthylene	ND	µg/L	10								
Aniline	ND	µg/L	10								
Anthracene	ND	µg/L	10								
Azobenzene	ND	µg/L	10								
Benz(a)anthracene	ND	µg/L	10								
Benzo(a)pyrene	ND	µg/L	10								
Benzo(b)fluoranthene	ND	µg/L	10								
Benzo(g,h,i)perylene	ND	µg/L	10								
Benzo(k)fluoranthene	ND	µg/L	10								
Benzoic acid	ND	µg/L	20								
Benzyl alcohol	ND	µg/L	10								
Bis(2-chloroethoxy)methane	ND	µg/L	10								
Bis(2-chloroethyl)ether	ND	µg/L	10								
Bis(2-chloroisopropyl)ether	ND	µg/L	10								
Bis(2-ethylhexyl)phthalate	ND	µg/L	10								
4-Bromophenyl phenyl ether	ND	µg/L	10								
Butyl benzyl phthalate	ND	µg/L	10								
Carbazole	ND	µg/L	10								
4-Chloro-3-methylphenol	ND	µg/L	10								
4-Chloroaniline	ND	µg/L	10								
2-Chloronaphthalene	ND	µg/L	10								
2-Chlorophenol	ND	µg/L	10								
4-Chlorophenyl phenyl ether	ND	µg/L	10								
Chrysene	ND	µg/L	10								
Di-n-butyl phthalate	ND	µg/L	10								
Di-n-octyl phthalate	ND	µg/L	10								
Dibenz(a,h)anthracene	ND	µg/L	10								
Dibenzofuran	ND	µg/L	10								
1,2-Dichlorobenzene	ND	µg/L	5.0								
1,3-Dichlorobenzene	ND	µg/L	10								
1,4-Dichlorobenzene	ND	µg/L	5.0								
3,3'-Dichlorobenzidine	ND	µg/L	10								
Diethyl phthalate	ND	µg/L	10								
Dimethyl phthalate	ND	µg/L	10								
2,4-Dichlorophenol	ND	µg/L	20								
2,4-Dimethylphenol	ND	µg/L	10								
4,6-Dinitro-2-methylphenol	ND	µg/L	20								
2,4-Dinitrophenol	ND	µg/L	5.0								
2,4-Dinitrotoluene	ND	µg/L	5.0								
2,6-Dinitrotoluene	ND	µg/L	10								
Fluoranthene	ND	µg/L	10								
Fluorene	ND	µg/L	10								
Hexachlorobenzene	ND	µg/L	5.0								

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: 3rd Qtr 2010 **Work Order:** 1010067

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8270C: Semivolatiles											
Sample ID: mb-23981		*MBLK*				Batch ID:	**23981**	Analysis Date:	10/10/2010 5:29:58 PM		
Hexachlorobutadiene	ND	µg/L	10								
Hexachlorocyclopentadiene	ND	µg/L	10								
Hexachloroethane	ND	µg/L	5.0								
Indeno(1,2,3-cd)pyrene	ND	µg/L	10								
Isophorone	ND	µg/L	10								
2-Methylnaphthalene	ND	µg/L	10								
2-Methylphenol	ND	µg/L	5.0								
3+4-Methylphenol	ND	µg/L	5.0								
N-Nitrosodi-n-propylamine	ND	µg/L	10								
N-Nitrosodimethylamine	ND	µg/L	10								
N-Nitrosodiphenylamine	ND	µg/L	10								
Naphthalene	ND	µg/L	10								
2-Nitroaniline	ND	µg/L	10								
3-Nitroaniline	ND	µg/L	10								
4-Nitroaniline	ND	µg/L	10								
Nitrobenzene	ND	µg/L	5.0								
2-Nitrophenol	ND	µg/L	10								
4-Nitrophenol	ND	µg/L	10								
Pentachlorophenol	ND	µg/L	5.0								
Phenanthrene	ND	µg/L	10								
Phenol	ND	µg/L	10								
Pyrene	ND	µg/L	10								
Pyridine	ND	µg/L	5.0								
1,2,4-Trichlorobenzene	ND	µg/L	10								
2,4,5-Trichlorophenol	ND	µg/L	10								
2,4,6-Trichlorophenol	ND	µg/L	10								
Sample ID: lcs-23981		*LCS*				Batch ID:	**23981**	Analysis Date:	10/10/2010 6:00:33 PM		
Acenaphthene	60.90	µg/L	10	100	0	60.9	29.3	113			
4-Chloro-3-methylphenol	64.16	µg/L	10	100	0	64.2	23.3	123			
2-Chlorophenol	59.36	µg/L	10	100	0	59.4	23.9	112			
1,4-Dichlorobenzene	48.68	µg/L	10	100	0	48.7	16.5	106			
2,4-Dinitrotoluene	72.30	µg/L	10	100	0	72.3	27.7	126			
N-Nitrosodi-n-propylamine	66.86	µg/L	10	100	0	66.9	25.9	113			
4-Nitrophenol	46.16	µg/L	10	100	0	46.2	13.2	76.7			
Pentachlorophenol	63.12	µg/L	20	100	0	63.1	22.4	121			
Phenol	39.22	µg/L	10	100	0	39.2	15.3	68.3			
Pyrene	65.44	µg/L	10	100	0	65.4	23.5	119			
1,2,4-Trichlorobenzene	55.10	µg/L	10	100	0	55.1	23	107			
Sample ID: lcsd-23981		*LCSD*				Batch ID:	**23981**	Analysis Date:	10/10/2010 6:30:55 PM		
Acenaphthene	59.30	µg/L	10	100	0	59.3	29.3	113	2.66	30.5	
4-Chloro-3-methylphenol	63.88	µg/L	10	100	0	63.9	23.3	123	0.437	28.6	
2-Chlorophenol	54.34	µg/L	10	100	0	54.3	23.9	112	8.83	107	
1,4-Dichlorobenzene	42.56	µg/L	10	100	0	42.6	16.5	106	13.4	62.1	
2,4-Dinitrotoluene	74.84	µg/L	10	100	0	74.8	27.7	126	3.45	14.7	

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: 3rd Qtr 2010 **Work Order:** 1010067

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8270C: Semivolatiles											
Sample ID: lcsd-23981		*LCSD*				Batch ID:	**23981**	Analysis Date:		10/10/2010 6:30:55 PM	
N-Nitrosodi-n-propylamine	62.88	µg/L	10	100	0	62.9	25.9	113	6.14	30.3	
4-Nitrophenol	45.04	µg/L	10	100	0	45.0	13.2	76.7	2.46	36.3	
Pentachlorophenol	62.84	µg/L	20	200	0	31.4	22.4	121	0.445	49	
Phenol	34.72	µg/L	10	100	0	34.7	15.3	68.3	12.2	52.4	
Pyrene	64.78	µg/L	10	100	0	64.8	23.5	119	1.01	16.3	
1,2,4-Trichlorobenzene	54.74	µg/L	10	100	0	54.7	23	107	0.655	36.4	
Method: EPA Method 7470: Mercury											
Sample ID: MB-24114		*MBLK*				Batch ID:	**24114**	Analysis Date:		10/14/2010 12:52:15 PM	
Mercury	ND	mg/L	0.00020								
Sample ID: LCS-24114		*LCS*				Batch ID:	**24114**	Analysis Date:		10/14/2010 12:53:59 PM	
Mercury	0.004994	mg/L	0.00020	0.005	1E-05	99.6	80	120			
Sample ID: LCS-24114		*LCS*				Batch ID:	**24114**	Analysis Date:		10/14/2010 12:55:45 PM	
Mercury	0.005003	mg/L	0.00020	0.005	1E-05	99.8	80	120	0.182	0	
Method: EPA Method 6010B: Dissolved Metals											
Sample ID: MB		*MBLK*				Batch ID:	**R41653**	Analysis Date:		10/19/2010 1:48:38 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								
Manganese	ND	mg/L	0.0020								
Selenium	ND	mg/L	0.050								
Silver	ND	mg/L	0.0050								
Sodium	ND	mg/L	1.0								
Zinc	ND	mg/L	0.050								
Sample ID: LCS		*LCS*				Batch ID:	**R41653**	Analysis Date:		10/19/2010 1:51:24 PM	
Arsenic	0.5373	mg/L	0.020	0.5	0	107	80	120			
Barium	0.5067	mg/L	0.020	0.5	0	101	80	120			
Cadmium	0.5260	mg/L	0.0020	0.5	0	105	80	120			
Chromium	0.5159	mg/L	0.0060	0.5	0	103	80	120			
Lead	0.5183	mg/L	0.0050	0.5	0	104	80	120			
Manganese	0.5046	mg/L	0.0020	0.5	0	101	80	120			
Selenium	0.5181	mg/L	0.050	0.5	0	104	80	120			
Silver	0.5293	mg/L	0.0050	0.5	0	106	80	120			
Zinc	0.5090	mg/L	0.050	0.5	0	102	80	120			
Sample ID: LCS		*LCS*				Batch ID:	**R41653**	Analysis Date:		10/19/2010 1:54:42 PM	
Calcium	58.95	mg/L	1.0	50.5	0.0187	117	80	120			
Magnesium	59.45	mg/L	1.0	50.5	0.0159	118	80	120			
Sodium	58.47	mg/L	1.0	50.5	0.0601	116	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: 3rd Qtr 2010 **Work Order:** 1010067

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA 6010B: Total Recoverable Metals											
Sample ID: MB-23988		*MBLK*				Batch ID:	**23988**	Analysis Date:	10/6/2010 11:49:54 AM		
Arsenic	ND	mg/L	0.020								
Barium	ND	mg/L	0.020								
Cadmium	ND	mg/L	0.0020								
Chromium	ND	mg/L	0.0060								
Copper	ND	mg/L	0.0060								
Iron	ND	mg/L	0.050								
Lead	ND	mg/L	0.0050								
Manganese	ND	mg/L	0.0020								
Selenium	ND	mg/L	0.050								
Silver	ND	mg/L	0.0050								
Zinc	ND	mg/L	0.020								
Sample ID: LCS-23988		*LCS*				Batch ID:	**23988**	Analysis Date:	10/6/2010 11:52:57 AM		
Arsenic	0.5252	mg/L	0.020	0.5	0	105	80	120			
Barium	0.5064	mg/L	0.020	0.5	0	101	80	120			
Cadmium	0.5146	mg/L	0.0020	0.5	0	103	80	120			
Chromium	0.5126	mg/L	0.0060	0.5	0	103	80	120			
Copper	0.5711	mg/L	0.0060	0.5	0	114	80	120			
Iron	0.5074	mg/L	0.050	0.5	0	101	80	120			
Lead	0.5063	mg/L	0.0050	0.5	0	101	80	120			
Manganese	0.5049	mg/L	0.0020	0.5	0	101	80	120			
Selenium	0.4908	mg/L	0.050	0.5	0	98.2	80	120			
Silver	0.5257	mg/L	0.0050	0.5	0	105	80	120			
Zinc	0.4908	mg/L	0.020	0.5	0	98.2	80	120			
Sample ID: LCS-23988		*LCS*				Batch ID:	**23988**	Analysis Date:	10/6/2010 11:56:09 AM		
Arsenic	0.5351	mg/L	0.020	0.5	0	107	80	120			
Barium	0.5162	mg/L	0.020	0.5	0	103	80	120			
Cadmium	0.5193	mg/L	0.0020	0.5	0	104	80	120			
Chromium	0.5224	mg/L	0.0060	0.5	0	104	80	120			
Copper	0.5810	mg/L	0.0060	0.5	0	116	80	120			
Iron	0.5151	mg/L	0.050	0.5	0	103	80	120			
Lead	0.5118	mg/L	0.0050	0.5	0	102	80	120			
Manganese	0.5141	mg/L	0.0020	0.5	0	103	80	120			
Selenium	0.4947	mg/L	0.050	0.5	0	98.9	80	120			
Silver	0.5343	mg/L	0.0050	0.5	0	107	80	120			
Zinc	0.4997	mg/L	0.020	0.5	0	99.9	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 GALLUP

Date Received: 9/29/2010

Work Order Number 1010067

Received by: MLW

Sample ID labels checked by: MG (Initials)

Checklist completed by: _____ (Signature) 09/29/10 (Date)

Matrix: Carrier name UPS

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐	Not Shipped ☐
Custody seals intact on sample bottles?	Yes ☑	No ☐	N/A ☐	
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☑	No ☐	Number of preserved bottles checked for pH: 10
Water - Preservation labels on bottle and cap match?	Yes ☑	No ☐	N/A ☐	
Water - pH acceptable upon receipt?	Yes ☑	No ☐	N/A ☐	<2 >12 unless noted below.
Container/Temp Blank temperature?	0.5°	<6° C Acceptable If given sufficient time to cool.		

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

Chain-of-Custody Record

Client: Western Refining Gallup Refinery
Mailing Address: Rt3 Bx 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: 3rd Qtr 2010
Project #: OW30, 50, 52
Project Manager: C Johnson
Sampler: C Johnson
On Ice: ☒ Yes ☐ No
Sample Temperature: 0.5

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. 1010047	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) TMBC	8270 (Semi-VOA)	WPC Metals Total + Diss	Gen Chem			Air Bubbles (Y or N)
1/27/10	0937	H2O	OW-30			-1										X						
	1048		OW-50			-2			X							X	X	X	X			
	1440		OW-52			-3			X							X	X	X	X			
	0800		Field Blank			-4										X						
			Trip Blank			-5										X						

Date:	Time:	Relinquished by:	Received by:	Date Time
1/27/10	1530	[signature]	Melissa Watson	1/29/10 1000
Date:	Time:	Relinquished by:	Received by:	Date Time

Remarks: GenChem: Cations, Anions, Spec Cond. pH

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.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

COVER LETTER

Monday, October 11, 2010

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

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

RE: 2010 3rd Qtr

Order No.: 1009830

Dear Cheryl Johnson:

Hall Environmental Analysis Laboratory, Inc. received 6 sample(s) on 9/17/2010 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: *11-Oct-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	NAPIS-1
Lab Order:	1009830	**Collection Date:**	9/15/2010 10:32:00 AM
Project:	2010 3rd Qtr	**Date Received:**	9/17/2010
Lab ID:	1009830-01	**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	9/21/2010 12:02:39 AM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	9/21/2010 12:02:39 AM
Surr: DNOP	121	86.9-151		%REC	1	9/21/2010 12:02:39 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	9/24/2010 5:22:32 PM
Surr: BFB	89.8	79.9-117		%REC	1	9/24/2010 5:22:32 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	2.5		µg/L	1	9/24/2010 5:22:32 PM
Benzene	ND	1.0		µg/L	1	9/24/2010 5:22:32 PM
Toluene	ND	1.0		µg/L	1	9/24/2010 5:22:32 PM
Ethylbenzene	ND	1.0		µg/L	1	9/24/2010 5:22:32 PM
Xylenes, Total	ND	2.0		µg/L	1	9/24/2010 5:22:32 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	9/24/2010 5:22:32 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	9/24/2010 5:22:32 PM
Surr: 4-Bromofluorobenzene	112	83.6-151		%REC	1	9/24/2010 5:22:32 PM
EPA METHOD 7470: MERCURY						Analyst: ELS
Mercury	ND	0.00020		mg/L	1	9/28/2010 3:17:21 PM
EPA METHOD 6010B: DISSOLVED METALS						Analyst: SNV
Arsenic	ND	0.020		mg/L	1	10/1/2010 12:54:09 PM
Barium	0.18	0.020		mg/L	1	10/1/2010 12:54:09 PM
Cadmium	ND	0.0020		mg/L	1	10/1/2010 12:54:09 PM
Calcium	100	5.0		mg/L	5	10/1/2010 12:58:06 PM
Chromium	ND	0.0060		mg/L	1	10/1/2010 12:54:09 PM
Copper	ND	0.0060		mg/L	1	10/1/2010 12:54:09 PM
Iron	0.029	0.020		mg/L	1	10/1/2010 12:54:09 PM
Lead	0.0064	0.0050		mg/L	1	10/1/2010 12:54:09 PM
Magnesium	18	1.0		mg/L	1	10/1/2010 12:54:09 PM
Manganese	0.0066	0.0020		mg/L	1	10/1/2010 12:54:09 PM
Potassium	ND	1.0		mg/L	1	10/1/2010 12:54:09 PM
Selenium	ND	0.050		mg/L	1	10/1/2010 12:54:09 PM
Silver	ND	0.0050		mg/L	1	10/1/2010 12:54:09 PM
Sodium	370	5.0		mg/L	5	10/1/2010 12:58:06 PM
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: SNV
Arsenic	ND	0.020		mg/L	1	9/30/2010 8:55:23 PM
Barium	0.19	0.020		mg/L	1	9/30/2010 8:55:23 PM
Cadmium	ND	0.0020		mg/L	1	9/30/2010 8:55:23 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: *11-Oct-10*

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1009830
Project: 2010 3rd Qtr
Lab ID: 1009830-01

Client Sample ID: NAPIS-1
Collection Date: 9/15/2010 10:32:00 AM
Date Received: 9/17/2010
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: **SNV**
Chromium	ND	0.0060		mg/L	1	9/30/2010 8:55:23 PM
Copper	ND	0.0060		mg/L	1	9/30/2010 8:55:23 PM
Iron	0.56	0.050		mg/L	1	9/30/2010 8:55:23 PM
Lead	ND	0.0050		mg/L	1	9/30/2010 8:55:23 PM
Manganese	0.044	0.0020		mg/L	1	9/30/2010 8:55:23 PM
Selenium	ND	0.050		mg/L	1	9/30/2010 8:55:23 PM
Silver	ND	0.0050		mg/L	1	9/30/2010 8:55:23 PM
Zinc	ND	0.020		mg/L	1	9/30/2010 8:55:23 PM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **MAW**
Acenaphthene	ND	10		µg/L	1	9/22/2010 11:36:56 AM
Acenaphthylene	ND	10		µg/L	1	9/22/2010 11:36:56 AM
Aniline	ND	10		µg/L	1	9/22/2010 11:36:56 AM
Anthracene	ND	10		µg/L	1	9/22/2010 11:36:56 AM
Azobenzene	ND	10		µg/L	1	9/22/2010 11:36:56 AM
Benz(a)anthracene	ND	10		µg/L	1	9/22/2010 11:36:56 AM
Benzo(a)pyrene	ND	10		µg/L	1	9/22/2010 11:36:56 AM
Benzo(b)fluoranthene	ND	10		µg/L	1	9/22/2010 11:36:56 AM
Benzo(g,h,i)perylene	ND	10		µg/L	1	9/22/2010 11:36:56 AM
Benzo(k)fluoranthene	ND	10		µg/L	1	9/22/2010 11:36:56 AM
Benzoic acid	ND	20		µg/L	1	9/22/2010 11:36:56 AM
Benzyl alcohol	ND	10		µg/L	1	9/22/2010 11:36:56 AM
Bis(2-chloroethoxy)methane	ND	10		µg/L	1	9/22/2010 11:36:56 AM
Bis(2-chloroethyl)ether	ND	10		µg/L	1	9/22/2010 11:36:56 AM
Bis(2-chloroisopropyl)ether	ND	10		µg/L	1	9/22/2010 11:36:56 AM
Bis(2-ethylhexyl)phthalate	ND	10		µg/L	1	9/22/2010 11:36:56 AM
4-Bromophenyl phenyl ether	ND	10		µg/L	1	9/22/2010 11:36:56 AM
Butyl benzyl phthalate	ND	10		µg/L	1	9/22/2010 11:36:56 AM
Carbazole	ND	10		µg/L	1	9/22/2010 11:36:56 AM
4-Chloro-3-methylphenol	ND	10		µg/L	1	9/22/2010 11:36:56 AM
4-Chloroaniline	ND	10		µg/L	1	9/22/2010 11:36:56 AM
2-Chloronaphthalene	ND	10		µg/L	1	9/22/2010 11:36:56 AM
2-Chlorophenol	ND	10		µg/L	1	9/22/2010 11:36:56 AM
4-Chlorophenyl phenyl ether	ND	10		µg/L	1	9/22/2010 11:36:56 AM
Chrysene	ND	10		µg/L	1	9/22/2010 11:36:56 AM
Di-n-butyl phthalate	ND	10		µg/L	1	9/22/2010 11:36:56 AM
Di-n-octyl phthalate	ND	10		µg/L	1	9/22/2010 11:36:56 AM
Dibenz(a,h)anthracene	ND	10		µg/L	1	9/22/2010 11:36:56 AM
Dibenzofuran	ND	10		µg/L	1	9/22/2010 11:36:56 AM
1,2-Dichlorobenzene	ND	10		µg/L	1	9/22/2010 11:36:56 AM
1,3-Dichlorobenzene	ND	10		µg/L	1	9/22/2010 11:36:56 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: *11-Oct-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	NAPIS-1
Lab Order:	1009830	**Collection Date:**	9/15/2010 10:32:00 AM
Project:	2010 3rd Qtr	**Date Received:**	9/17/2010
Lab ID:	1009830-01	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: MAW
1,4-Dichlorobenzene	ND	10		µg/L	1	9/22/2010 11:36:56 AM
3,3'-Dichlorobenzidine	ND	10		µg/L	1	9/22/2010 11:36:56 AM
Diethyl phthalate	ND	10		µg/L	1	9/22/2010 11:36:56 AM
Dimethyl phthalate	ND	10		µg/L	1	9/22/2010 11:36:56 AM
2,4-Dichlorophenol	ND	20		µg/L	1	9/22/2010 11:36:56 AM
2,4-Dimethylphenol	ND	10		µg/L	1	9/22/2010 11:36:56 AM
4,6-Dinitro-2-methylphenol	ND	20		µg/L	1	9/22/2010 11:36:56 AM
2,4-Dinitrophenol	ND	20		µg/L	1	9/22/2010 11:36:56 AM
2,4-Dinitrotoluene	ND	10		µg/L	1	9/22/2010 11:36:56 AM
2,6-Dinitrotoluene	ND	10		µg/L	1	9/22/2010 11:36:56 AM
Fluoranthene	ND	10		µg/L	1	9/22/2010 11:36:56 AM
Fluorene	ND	10		µg/L	1	9/22/2010 11:36:56 AM
Hexachlorobenzene	ND	10		µg/L	1	9/22/2010 11:36:56 AM
Hexachlorobutadiene	ND	10		µg/L	1	9/22/2010 11:36:56 AM
Hexachlorocyclopentadiene	ND	10		µg/L	1	9/22/2010 11:36:56 AM
Hexachloroethane	ND	10		µg/L	1	9/22/2010 11:36:56 AM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	9/22/2010 11:36:56 AM
Isophorone	ND	10		µg/L	1	9/22/2010 11:36:56 AM
2-Methylnaphthalene	ND	10		µg/L	1	9/22/2010 11:36:56 AM
2-Methylphenol	ND	10		µg/L	1	9/22/2010 11:36:56 AM
3+4-Methylphenol	ND	10		µg/L	1	9/22/2010 11:36:56 AM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	9/22/2010 11:36:56 AM
N-Nitrosodimethylamine	ND	10		µg/L	1	9/22/2010 11:36:56 AM
N-Nitrosodiphenylamine	ND	10		µg/L	1	9/22/2010 11:36:56 AM
Naphthalene	ND	10		µg/L	1	9/22/2010 11:36:56 AM
2-Nitroaniline	ND	10		µg/L	1	9/22/2010 11:36:56 AM
3-Nitroaniline	ND	10		µg/L	1	9/22/2010 11:36:56 AM
4-Nitroaniline	ND	20		µg/L	1	9/22/2010 11:36:56 AM
Nitrobenzene	ND	10		µg/L	1	9/22/2010 11:36:56 AM
2-Nitrophenol	ND	10		µg/L	1	9/22/2010 11:36:56 AM
4-Nitrophenol	ND	10		µg/L	1	9/22/2010 11:36:56 AM
Pentachlorophenol	ND	20		µg/L	1	9/22/2010 11:36:56 AM
Phenanthrene	ND	10		µg/L	1	9/22/2010 11:36:56 AM
Phenol	ND	10		µg/L	1	9/22/2010 11:36:56 AM
Pyrene	ND	10		µg/L	1	9/22/2010 11:36:56 AM
Pyridine	ND	10		µg/L	1	9/22/2010 11:36:56 AM
1,2,4-Trichlorobenzene	ND	10		µg/L	1	9/22/2010 11:36:56 AM
2,4,5-Trichlorophenol	ND	10		µg/L	1	9/22/2010 11:36:56 AM
2,4,6-Trichlorophenol	ND	10		µg/L	1	9/22/2010 11:36:56 AM
Surr: 2,4,6-Tribromophenol	53.2	16.6-150		%REC	1	9/22/2010 11:36:56 AM
Surr: 2-Fluorobiphenyl	51.5	19.6-134		%REC	1	9/22/2010 11:36:56 AM

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: *11-Oct-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	NAPIS-1
Lab Order:	1009830	**Collection Date:**	9/15/2010 10:32:00 AM
Project:	2010 3rd Qtr	**Date Received:**	9/17/2010
Lab ID:	1009830-01	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **MAW**
Surr: 2-Fluorophenol	42.1	9.54-113		%REC	1	9/22/2010 11:36:56 AM
Surr: 4-Terphenyl-d14	54.2	22.7-145		%REC	1	9/22/2010 11:36:56 AM
Surr: Nitrobenzene-d5	50.8	14.6-134		%REC	1	9/22/2010 11:36:56 AM
Surr: Phenol-d5	32.0	10.7-80.3		%REC	1	9/22/2010 11:36:56 AM

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: *11-Oct-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	NAPIS-2
Lab Order:	1009830	**Collection Date:**	9/15/2010 11:13:00 AM
Project:	2010 3rd Qtr	**Date Received:**	9/17/2010
Lab ID:	1009830-02	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **JB**
Diesel Range Organics (DRO)	5.3	1.0		mg/L	1	9/21/2010 12:36:46 AM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	9/21/2010 12:36:46 AM
Surr: DNOP	122	86.9-151		%REC	1	9/21/2010 12:36:46 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	1.0	0.50		mg/L	10	9/24/2010 5:53:04 PM
Surr: BFB	86.6	79.9-117		%REC	10	9/24/2010 5:53:04 PM
EPA METHOD 7470: MERCURY						Analyst: **ELS**
Mercury	ND	0.00020		mg/L	1	9/28/2010 3:19:07 PM
EPA METHOD 6010B: DISSOLVED METALS						Analyst: **SNV**
Arsenic	ND	0.020		mg/L	1	10/1/2010 1:00:55 PM
Barium	1.5	0.10		mg/L	5	10/1/2010 1:14:37 PM
Cadmium	ND	0.0020		mg/L	1	10/1/2010 1:00:55 PM
Calcium	69	1.0		mg/L	1	10/1/2010 1:00:55 PM
Chromium	ND	0.0060		mg/L	1	10/1/2010 1:00:55 PM
Copper	ND	0.0060		mg/L	1	10/1/2010 1:00:55 PM
Iron	3.7	0.10		mg/L	5	10/1/2010 1:14:37 PM
Lead	ND	0.0050		mg/L	1	10/1/2010 1:00:55 PM
Magnesium	13	1.0		mg/L	1	10/1/2010 1:00:55 PM
Manganese	1.0	0.010		mg/L	5	10/1/2010 1:14:37 PM
Potassium	ND	1.0		mg/L	1	10/1/2010 1:00:55 PM
Selenium	ND	0.050		mg/L	1	10/1/2010 1:00:55 PM
Silver	ND	0.0050		mg/L	1	10/1/2010 1:00:55 PM
Sodium	310	5.0		mg/L	5	10/1/2010 1:14:37 PM
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: **SNV**
Arsenic	ND	0.020		mg/L	1	9/30/2010 9:02:13 PM
Barium	1.4	0.10		mg/L	5	9/30/2010 9:05:56 PM
Cadmium	ND	0.0020		mg/L	1	9/30/2010 9:02:13 PM
Chromium	ND	0.0060		mg/L	1	9/30/2010 9:02:13 PM
Copper	ND	0.0060		mg/L	1	9/30/2010 9:02:13 PM
Iron	4.3	0.25		mg/L	5	9/30/2010 9:05:56 PM
Lead	ND	0.0050		mg/L	1	9/30/2010 9:02:13 PM
Manganese	1.1	0.010		mg/L	5	9/30/2010 9:05:56 PM
Selenium	ND	0.050		mg/L	1	9/30/2010 9:02:13 PM
Silver	ND	0.0050		mg/L	1	9/30/2010 9:02:13 PM
Zinc	ND	0.020		mg/L	1	9/30/2010 9:02:13 PM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **MAW**

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: *11-Oct-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	NAPIS-2
Lab Order:	1009830	**Collection Date:**	9/15/2010 11:13:00 AM
Project:	2010 3rd Qtr	**Date Received:**	9/17/2010
Lab ID:	1009830-02	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: MAW
Acenaphthene	ND	10		µg/L	1	9/22/2010 12:07:26 PM
Acenaphthylene	ND	10		µg/L	1	9/22/2010 12:07:26 PM
Aniline	ND	10		µg/L	1	9/22/2010 12:07:26 PM
Anthracene	ND	10		µg/L	1	9/22/2010 12:07:26 PM
Azobenzene	ND	10		µg/L	1	9/22/2010 12:07:26 PM
Benz(a)anthracene	ND	10		µg/L	1	9/22/2010 12:07:26 PM
Benzo(a)pyrene	ND	10		µg/L	1	9/22/2010 12:07:26 PM
Benzo(b)fluoranthene	ND	10		µg/L	1	9/22/2010 12:07:26 PM
Benzo(g,h,i)perylene	ND	10		µg/L	1	9/22/2010 12:07:26 PM
Benzo(k)fluoranthene	ND	10		µg/L	1	9/22/2010 12:07:26 PM
Benzoic acid	ND	20		µg/L	1	9/22/2010 12:07:26 PM
Benzyl alcohol	ND	10		µg/L	1	9/22/2010 12:07:26 PM
Bis(2-chloroethoxy)methane	ND	10		µg/L	1	9/22/2010 12:07:26 PM
Bis(2-chloroethyl)ether	ND	10		µg/L	1	9/22/2010 12:07:26 PM
Bis(2-chloroisopropyl)ether	ND	10		µg/L	1	9/22/2010 12:07:26 PM
Bis(2-ethylhexyl)phthalate	ND	10		µg/L	1	9/22/2010 12:07:26 PM
4-Bromophenyl phenyl ether	ND	10		µg/L	1	9/22/2010 12:07:26 PM
Butyl benzyl phthalate	ND	10		µg/L	1	9/22/2010 12:07:26 PM
Carbazole	ND	10		µg/L	1	9/22/2010 12:07:26 PM
4-Chloro-3-methylphenol	ND	10		µg/L	1	9/22/2010 12:07:26 PM
4-Chloroaniline	ND	10		µg/L	1	9/22/2010 12:07:26 PM
2-Chloronaphthalene	ND	10		µg/L	1	9/22/2010 12:07:26 PM
2-Chlorophenol	ND	10		µg/L	1	9/22/2010 12:07:26 PM
4-Chlorophenyl phenyl ether	ND	10		µg/L	1	9/22/2010 12:07:26 PM
Chrysene	ND	10		µg/L	1	9/22/2010 12:07:26 PM
Di-n-butyl phthalate	ND	10		µg/L	1	9/22/2010 12:07:26 PM
Di-n-octyl phthalate	ND	10		µg/L	1	9/22/2010 12:07:26 PM
Dibenz(a,h)anthracene	ND	10		µg/L	1	9/22/2010 12:07:26 PM
Dibenzofuran	ND	10		µg/L	1	9/22/2010 12:07:26 PM
1,2-Dichlorobenzene	ND	10		µg/L	1	9/22/2010 12:07:26 PM
1,3-Dichlorobenzene	ND	10		µg/L	1	9/22/2010 12:07:26 PM
1,4-Dichlorobenzene	ND	10		µg/L	1	9/22/2010 12:07:26 PM
3,3'-Dichlorobenzidine	ND	10		µg/L	1	9/22/2010 12:07:26 PM
Diethyl phthalate	ND	10		µg/L	1	9/22/2010 12:07:26 PM
Dimethyl phthalate	ND	10		µg/L	1	9/22/2010 12:07:26 PM
2,4-Dichlorophenol	ND	20		µg/L	1	9/22/2010 12:07:26 PM
2,4-Dimethylphenol	ND	10		µg/L	1	9/22/2010 12:07:26 PM
4,6-Dinitro-2-methylphenol	ND	20		µg/L	1	9/22/2010 12:07:26 PM
2,4-Dinitrophenol	ND	20		µg/L	1	9/22/2010 12:07:26 PM
2,4-Dinitrotoluene	ND	10		µg/L	1	9/22/2010 12:07:26 PM
2,6-Dinitrotoluene	ND	10		µg/L	1	9/22/2010 12:07:26 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: *11-Oct-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	NAPIS-2
Lab Order:	1009830	**Collection Date:**	9/15/2010 11:13:00 AM
Project:	2010 3rd Qtr	**Date Received:**	9/17/2010
Lab ID:	1009830-02	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: MAW
Fluoranthene	ND	10		µg/L	1	9/22/2010 12:07:26 PM
Fluorene	ND	10		µg/L	1	9/22/2010 12:07:26 PM
Hexachlorobenzene	ND	10		µg/L	1	9/22/2010 12:07:26 PM
Hexachlorobutadiene	ND	10		µg/L	1	9/22/2010 12:07:26 PM
Hexachlorocyclopentadiene	ND	10		µg/L	1	9/22/2010 12:07:26 PM
Hexachloroethane	ND	10		µg/L	1	9/22/2010 12:07:26 PM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	9/22/2010 12:07:26 PM
Isophorone	ND	10		µg/L	1	9/22/2010 12:07:26 PM
2-Methylnaphthalene	ND	10		µg/L	1	9/22/2010 12:07:26 PM
2-Methylphenol	ND	10		µg/L	1	9/22/2010 12:07:26 PM
3+4-Methylphenol	ND	10		µg/L	1	9/22/2010 12:07:26 PM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	9/22/2010 12:07:26 PM
N-Nitrosodimethylamine	ND	10		µg/L	1	9/22/2010 12:07:26 PM
N-Nitrosodiphenylamine	ND	10		µg/L	1	9/22/2010 12:07:26 PM
Naphthalene	ND	10		µg/L	1	9/22/2010 12:07:26 PM
2-Nitroaniline	ND	10		µg/L	1	9/22/2010 12:07:26 PM
3-Nitroaniline	ND	10		µg/L	1	9/22/2010 12:07:26 PM
4-Nitroaniline	ND	20		µg/L	1	9/22/2010 12:07:26 PM
Nitrobenzene	ND	10		µg/L	1	9/22/2010 12:07:26 PM
2-Nitrophenol	ND	10		µg/L	1	9/22/2010 12:07:26 PM
4-Nitrophenol	ND	10		µg/L	1	9/22/2010 12:07:26 PM
Pentachlorophenol	ND	20		µg/L	1	9/22/2010 12:07:26 PM
Phenanthrene	ND	10		µg/L	1	9/22/2010 12:07:26 PM
Phenol	ND	10		µg/L	1	9/22/2010 12:07:26 PM
Pyrene	ND	10		µg/L	1	9/22/2010 12:07:26 PM
Pyridine	ND	10		µg/L	1	9/22/2010 12:07:26 PM
1,2,4-Trichlorobenzene	ND	10		µg/L	1	9/22/2010 12:07:26 PM
2,4,5-Trichlorophenol	ND	10		µg/L	1	9/22/2010 12:07:26 PM
2,4,6-Trichlorophenol	ND	10		µg/L	1	9/22/2010 12:07:26 PM
Surr: 2,4,6-Tribromophenol	61.4	16.6-150		%REC	1	9/22/2010 12:07:26 PM
Surr: 2-Fluorobiphenyl	59.1	19.6-134		%REC	1	9/22/2010 12:07:26 PM
Surr: 2-Fluorophenol	47.0	9.54-113		%REC	1	9/22/2010 12:07:26 PM
Surr: 4-Terphenyl-d14	69.5	22.7-145		%REC	1	9/22/2010 12:07:26 PM
Surr: Nitrobenzene-d5	59.2	14.6-134		%REC	1	9/22/2010 12:07:26 PM
Surr: Phenol-d5	36.3	10.7-80.3		%REC	1	9/22/2010 12:07:26 PM
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: MMS
Benzene	66	5.0		µg/L	5	9/28/2010 2:34:43 PM
Toluene	ND	5.0		µg/L	5	9/28/2010 2:34:43 PM
Ethylbenzene	8.3	5.0		µg/L	5	9/28/2010 2:34:43 PM
Methyl tert-butyl ether (MTBE)	230	7.5		µg/L	5	9/28/2010 2:34:43 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: *11-Oct-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	NAPIS-2
Lab Order:	1009830	**Collection Date:**	9/15/2010 11:13:00 AM
Project:	2010 3rd Qtr	**Date Received:**	9/17/2010
Lab ID:	1009830-02	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: MMS
1,2,4-Trimethylbenzene	ND	5.0		µg/L	5	9/28/2010 2:34:43 PM
1,3,5-Trimethylbenzene	ND	5.0		µg/L	5	9/28/2010 2:34:43 PM
Xylenes, Total	ND	15		µg/L	5	9/28/2010 2:34:43 PM
Surr: 1,2-Dichloroethane-d4	84.9	54.6-141		%REC	5	9/28/2010 2:34:43 PM
Surr: 4-Bromofluorobenzene	91.8	60.1-133		%REC	5	9/28/2010 2:34:43 PM
Surr: Dibromofluoromethane	91.0	78.5-130		%REC	5	9/28/2010 2:34:43 PM
Surr: Toluene-d8	101	79.5-126		%REC	5	9/28/2010 2:34:43 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: *11-Oct-10*

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1009830
Project: 2010 3rd Qtr
Lab ID: 1009830-03

Client Sample ID: KA-3
Collection Date: 9/15/2010 2:12:00 PM
Date Received: 9/17/2010
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **JB**
Diesel Range Organics (DRO)	3.0	1.0		mg/L	1	9/21/2010 1:10:54 AM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	9/21/2010 1:10:54 AM
Surr: DNOP	122	86.9-151		%REC	1	9/21/2010 1:10:54 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	1.9	0.50		mg/L	10	9/28/2010 3:40:43 PM
Surr: BFB	108	79.9-117		%REC	10	9/28/2010 3:40:43 PM
EPA METHOD 7470: MERCURY						Analyst: **ELS**
Mercury	ND	0.00020		mg/L	1	9/28/2010 3:20:53 PM
EPA METHOD 6010B: DISSOLVED METALS						Analyst: **SNV**
Arsenic	ND	0.020		mg/L	1	10/1/2010 1:17:28 PM
Barium	0.56	0.020		mg/L	1	10/1/2010 1:17:28 PM
Cadmium	ND	0.0020		mg/L	1	10/1/2010 1:17:28 PM
Calcium	68	1.0		mg/L	1	10/1/2010 1:17:28 PM
Chromium	ND	0.0060		mg/L	1	10/1/2010 1:17:28 PM
Copper	ND	0.0060		mg/L	1	10/1/2010 1:17:28 PM
Iron	0.56	0.020		mg/L	1	10/1/2010 1:17:28 PM
Lead	ND	0.0050		mg/L	1	10/1/2010 1:17:28 PM
Magnesium	11	1.0		mg/L	1	10/1/2010 1:17:28 PM
Manganese	1.2	0.010		mg/L	5	10/1/2010 1:21:27 PM
Potassium	ND	1.0		mg/L	1	10/1/2010 1:17:28 PM
Selenium	ND	0.050		mg/L	1	10/1/2010 1:17:28 PM
Silver	ND	0.0050		mg/L	1	10/1/2010 1:17:28 PM
Sodium	260	5.0		mg/L	5	10/1/2010 1:21:27 PM
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: **SNV**
Arsenic	ND	0.020		mg/L	1	9/30/2010 9:08:47 PM
Barium	0.47	0.020		mg/L	1	9/30/2010 9:08:47 PM
Cadmium	ND	0.0020		mg/L	1	9/30/2010 9:08:47 PM
Chromium	0.096	0.0060		mg/L	1	9/30/2010 9:08:47 PM
Copper	ND	0.0060		mg/L	1	9/30/2010 9:08:47 PM
Iron	1.6	0.25		mg/L	5	9/30/2010 9:12:52 PM
Lead	ND	0.0050		mg/L	1	9/30/2010 9:08:47 PM
Manganese	1.3	0.010		mg/L	5	9/30/2010 9:12:52 PM
Selenium	ND	0.050		mg/L	1	9/30/2010 9:08:47 PM
Silver	ND	0.0050		mg/L	1	9/30/2010 9:08:47 PM
Zinc	ND	0.020		mg/L	1	9/30/2010 9:08:47 PM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **MAW**

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: *11-Oct-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	KA-3
Lab Order:	1009830	**Collection Date:**	9/15/2010 2:12:00 PM
Project:	2010 3rd Qtr	**Date Received:**	9/17/2010
Lab ID:	1009830-03	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: MAW
Acenaphthene	ND	10		µg/L	1	9/22/2010 1:38:41 PM
Acenaphthylene	ND	10		µg/L	1	9/22/2010 1:38:41 PM
Aniline	ND	10		µg/L	1	9/22/2010 1:38:41 PM
Anthracene	ND	10		µg/L	1	9/22/2010 1:38:41 PM
Azobenzene	ND	10		µg/L	1	9/22/2010 1:38:41 PM
Benz(a)anthracene	ND	10		µg/L	1	9/22/2010 1:38:41 PM
Benzo(a)pyrene	ND	10		µg/L	1	9/22/2010 1:38:41 PM
Benzo(b)fluoranthene	ND	10		µg/L	1	9/22/2010 1:38:41 PM
Benzo(g,h,i)perylene	ND	10		µg/L	1	9/22/2010 1:38:41 PM
Benzo(k)fluoranthene	ND	10		µg/L	1	9/22/2010 1:38:41 PM
Benzoic acid	ND	20		µg/L	1	9/22/2010 1:38:41 PM
Benzyl alcohol	ND	10		µg/L	1	9/22/2010 1:38:41 PM
Bis(2-chloroethoxy)methane	ND	10		µg/L	1	9/22/2010 1:38:41 PM
Bis(2-chloroethyl)ether	ND	10		µg/L	1	9/22/2010 1:38:41 PM
Bis(2-chloroisopropyl)ether	ND	10		µg/L	1	9/22/2010 1:38:41 PM
Bis(2-ethylhexyl)phthalate	ND	10		µg/L	1	9/22/2010 1:38:41 PM
4-Bromophenyl phenyl ether	ND	10		µg/L	1	9/22/2010 1:38:41 PM
Butyl benzyl phthalate	ND	10		µg/L	1	9/22/2010 1:38:41 PM
Carbazole	ND	10		µg/L	1	9/22/2010 1:38:41 PM
4-Chloro-3-methylphenol	ND	10		µg/L	1	9/22/2010 1:38:41 PM
4-Chloroaniline	ND	10		µg/L	1	9/22/2010 1:38:41 PM
2-Chloronaphthalene	ND	10		µg/L	1	9/22/2010 1:38:41 PM
2-Chlorophenol	ND	10		µg/L	1	9/22/2010 1:38:41 PM
4-Chlorophenyl phenyl ether	ND	10		µg/L	1	9/22/2010 1:38:41 PM
Chrysene	ND	10		µg/L	1	9/22/2010 1:38:41 PM
Di-n-butyl phthalate	ND	10		µg/L	1	9/22/2010 1:38:41 PM
Di-n-octyl phthalate	ND	10		µg/L	1	9/22/2010 1:38:41 PM
Dibenz(a,h)anthracene	ND	10		µg/L	1	9/22/2010 1:38:41 PM
Dibenzofuran	ND	10		µg/L	1	9/22/2010 1:38:41 PM
1,2-Dichlorobenzene	ND	10		µg/L	1	9/22/2010 1:38:41 PM
1,3-Dichlorobenzene	ND	10		µg/L	1	9/22/2010 1:38:41 PM
1,4-Dichlorobenzene	ND	10		µg/L	1	9/22/2010 1:38:41 PM
3,3'-Dichlorobenzidine	ND	10		µg/L	1	9/22/2010 1:38:41 PM
Diethyl phthalate	ND	10		µg/L	1	9/22/2010 1:38:41 PM
Dimethyl phthalate	ND	10		µg/L	1	9/22/2010 1:38:41 PM
2,4-Dichlorophenol	ND	20		µg/L	1	9/22/2010 1:38:41 PM
2,4-Dimethylphenol	ND	10		µg/L	1	9/22/2010 1:38:41 PM
4,6-Dinitro-2-methylphenol	ND	20		µg/L	1	9/22/2010 1:38:41 PM
2,4-Dinitrophenol	ND	20		µg/L	1	9/22/2010 1:38:41 PM
2,4-Dinitrotoluene	ND	10		µg/L	1	9/22/2010 1:38:41 PM
2,6-Dinitrotoluene	ND	10		µg/L	1	9/22/2010 1:38:41 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: *11-Oct-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	KA-3
Lab Order:	1009830	**Collection Date:**	9/15/2010 2:12:00 PM
Project:	2010 3rd Qtr	**Date Received:**	9/17/2010
Lab ID:	1009830-03	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **MAW**
Fluoranthene	ND	10		µg/L	1	9/22/2010 1:38:41 PM
Fluorene	ND	10		µg/L	1	9/22/2010 1:38:41 PM
Hexachlorobenzene	ND	10		µg/L	1	9/22/2010 1:38:41 PM
Hexachlorobutadiene	ND	10		µg/L	1	9/22/2010 1:38:41 PM
Hexachlorocyclopentadiene	ND	10		µg/L	1	9/22/2010 1:38:41 PM
Hexachloroethane	ND	10		µg/L	1	9/22/2010 1:38:41 PM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	9/22/2010 1:38:41 PM
Isophorone	ND	10		µg/L	1	9/22/2010 1:38:41 PM
2-Methylnaphthalene	ND	10		µg/L	1	9/22/2010 1:38:41 PM
2-Methylphenol	ND	10		µg/L	1	9/22/2010 1:38:41 PM
3+4-Methylphenol	ND	10		µg/L	1	9/22/2010 1:38:41 PM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	9/22/2010 1:38:41 PM
N-Nitrosodimethylamine	ND	10		µg/L	1	9/22/2010 1:38:41 PM
N-Nitrosodiphenylamine	ND	10		µg/L	1	9/22/2010 1:38:41 PM
Naphthalene	11	10		µg/L	1	9/22/2010 1:38:41 PM
2-Nitroaniline	ND	10		µg/L	1	9/22/2010 1:38:41 PM
3-Nitroaniline	ND	10		µg/L	1	9/22/2010 1:38:41 PM
4-Nitroaniline	ND	20		µg/L	1	9/22/2010 1:38:41 PM
Nitrobenzene	ND	10		µg/L	1	9/22/2010 1:38:41 PM
2-Nitrophenol	ND	10		µg/L	1	9/22/2010 1:38:41 PM
4-Nitrophenol	ND	10		µg/L	1	9/22/2010 1:38:41 PM
Pentachlorophenol	ND	20		µg/L	1	9/22/2010 1:38:41 PM
Phenanthrene	ND	10		µg/L	1	9/22/2010 1:38:41 PM
Phenol	ND	10		µg/L	1	9/22/2010 1:38:41 PM
Pyrene	ND	10		µg/L	1	9/22/2010 1:38:41 PM
Pyridine	ND	10		µg/L	1	9/22/2010 1:38:41 PM
1,2,4-Trichlorobenzene	ND	10		µg/L	1	9/22/2010 1:38:41 PM
2,4,5-Trichlorophenol	ND	10		µg/L	1	9/22/2010 1:38:41 PM
2,4,6-Trichlorophenol	ND	10		µg/L	1	9/22/2010 1:38:41 PM
Surr: 2,4,6-Tribromophenol	44.6	16.6-150		%REC	1	9/22/2010 1:38:41 PM
Surr: 2-Fluorobiphenyl	47.1	19.6-134		%REC	1	9/22/2010 1:38:41 PM
Surr: 2-Fluorophenol	36.7	9.54-113		%REC	1	9/22/2010 1:38:41 PM
Surr: 4-Terphenyl-d14	47.7	22.7-145		%REC	1	9/22/2010 1:38:41 PM
Surr: Nitrobenzene-d5	45.9	14.6-134		%REC	1	9/22/2010 1:38:41 PM
Surr: Phenol-d5	26.6	10.7-80.3		%REC	1	9/22/2010 1:38:41 PM
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **MMS**
Benzene	520	10		µg/L	10	9/28/2010 3:03:04 PM
Toluene	ND	10		µg/L	10	9/28/2010 3:03:04 PM
Ethylbenzene	31	10		µg/L	10	9/28/2010 3:03:04 PM
Methyl tert-butyl ether (MTBE)	110	15		µg/L	10	9/28/2010 3:03:04 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
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: *11-Oct-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	KA-3
Lab Order:	1009830	**Collection Date:**	9/15/2010 2:12:00 PM
Project:	2010 3rd Qtr	**Date Received:**	9/17/2010
Lab ID:	1009830-03	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **MMS**
1,2,4-Trimethylbenzene	ND	10		µg/L	10	9/28/2010 3:03:04 PM
1,3,5-Trimethylbenzene	ND	10		µg/L	10	9/28/2010 3:03:04 PM
Xylenes, Total	ND	30		µg/L	10	9/28/2010 3:03:04 PM
Surr: 1,2-Dichloroethane-d4	87.5	54.6-141		%REC	10	9/28/2010 3:03:04 PM
Surr: 4-Bromofluorobenzene	90.8	60.1-133		%REC	10	9/28/2010 3:03:04 PM
Surr: Dibromofluoromethane	88.9	78.5-130		%REC	10	9/28/2010 3:03:04 PM
Surr: Toluene-d8	102	79.5-126		%REC	10	9/28/2010 3:03:04 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
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: *11-Oct-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	NAPIS-3
Lab Order:	1009830	**Collection Date:**	9/15/2010 3:12:00 PM
Project:	2010 3rd Qtr	**Date Received:**	9/17/2010
Lab ID:	1009830-04	**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	9/21/2010 1:45:00 AM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	9/21/2010 1:45:00 AM
Surr: DNOP	119	86.9-151		%REC	1	9/21/2010 1:45:00 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	9/28/2010 4:09:40 PM
Surr: BFB	101	79.9-117		%REC	1	9/28/2010 4:09:40 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Methyl tert-butyl ether (MTBE)	ND	2.5		µg/L	1	9/24/2010 10:56:02 PM
Benzene	1.0	1.0		µg/L	1	9/24/2010 10:56:02 PM
Toluene	ND	1.0		µg/L	1	9/24/2010 10:56:02 PM
Ethylbenzene	ND	1.0		µg/L	1	9/24/2010 10:56:02 PM
Xylenes, Total	ND	2.0		µg/L	1	9/24/2010 10:56:02 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	9/24/2010 10:56:02 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	9/24/2010 10:56:02 PM
Surr: 4-Bromofluorobenzene	92.7	83.6-151		%REC	1	9/24/2010 10:56:02 PM
EPA METHOD 7470: MERCURY						Analyst: **ELS**
Mercury	ND	0.00020		mg/L	1	9/28/2010 3:22:40 PM
EPA METHOD 6010B: DISSOLVED METALS						Analyst: **SNV**
Arsenic	ND	0.020		mg/L	1	10/1/2010 1:24:18 PM
Barium	0.066	0.020		mg/L	1	10/1/2010 1:24:18 PM
Cadmium	ND	0.0020		mg/L	1	10/1/2010 1:24:18 PM
Calcium	39	1.0		mg/L	1	10/1/2010 1:24:18 PM
Chromium	ND	0.0060		mg/L	1	10/1/2010 1:24:18 PM
Copper	ND	0.0060		mg/L	1	10/1/2010 1:24:18 PM
Iron	0.021	0.020		mg/L	1	10/1/2010 1:24:18 PM
Lead	ND	0.0050		mg/L	1	10/1/2010 1:24:18 PM
Magnesium	6.3	1.0		mg/L	1	10/1/2010 1:24:18 PM
Manganese	0.0021	0.0020		mg/L	1	10/1/2010 1:24:18 PM
Potassium	3.9	1.0		mg/L	1	10/1/2010 1:24:18 PM
Selenium	ND	0.050		mg/L	1	10/1/2010 1:24:18 PM
Silver	ND	0.0050		mg/L	1	10/1/2010 1:24:18 PM
Sodium	910	10		mg/L	10	10/4/2010 1:04:38 PM
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: **SNV**
Arsenic	ND	0.020		mg/L	1	9/30/2010 9:24:25 PM
Barium	0.11	0.020		mg/L	1	9/30/2010 9:24:25 PM
Cadmium	ND	0.0020		mg/L	1	9/30/2010 9:24:25 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: *11-Oct-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	NAPIS-3
Lab Order:	1009830	**Collection Date:**	9/15/2010 3:12:00 PM
Project:	2010 3rd Qtr	**Date Received:**	9/17/2010
Lab ID:	1009830-04	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: **SNV**
Chromium	0.0098	0.0060		mg/L	1	9/30/2010 9:24:25 PM
Copper	0.014	0.0060		mg/L	1	9/30/2010 9:24:25 PM
Iron	3.9	0.25		mg/L	5	9/30/2010 9:30:09 PM
Lead	0.012	0.0050		mg/L	1	9/30/2010 9:24:25 PM
Manganese	0.15	0.0020		mg/L	1	9/30/2010 9:24:25 PM
Selenium	ND	0.050		mg/L	1	9/30/2010 9:24:25 PM
Silver	ND	0.0050		mg/L	1	9/30/2010 9:24:25 PM
Zinc	0.36	0.020		mg/L	1	9/30/2010 9:24:25 PM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **MAW**
Acenaphthene	ND	10		µg/L	1	9/22/2010 1:08:18 PM
Acenaphthylene	ND	10		µg/L	1	9/22/2010 1:08:18 PM
Aniline	ND	10		µg/L	1	9/22/2010 1:08:18 PM
Anthracene	ND	10		µg/L	1	9/22/2010 1:08:18 PM
Azobenzene	ND	10		µg/L	1	9/22/2010 1:08:18 PM
Benz(a)anthracene	ND	10		µg/L	1	9/22/2010 1:08:18 PM
Benzo(a)pyrene	ND	10		µg/L	1	9/22/2010 1:08:18 PM
Benzo(b)fluoranthene	ND	10		µg/L	1	9/22/2010 1:08:18 PM
Benzo(g,h,i)perylene	ND	10		µg/L	1	9/22/2010 1:08:18 PM
Benzo(k)fluoranthene	ND	10		µg/L	1	9/22/2010 1:08:18 PM
Benzoic acid	ND	20		µg/L	1	9/22/2010 1:08:18 PM
Benzyl alcohol	ND	10		µg/L	1	9/22/2010 1:08:18 PM
Bis(2-chloroethoxy)methane	ND	10		µg/L	1	9/22/2010 1:08:18 PM
Bis(2-chloroethyl)ether	ND	10		µg/L	1	9/22/2010 1:08:18 PM
Bis(2-chloroisopropyl)ether	ND	10		µg/L	1	9/22/2010 1:08:18 PM
Bis(2-ethylhexyl)phthalate	ND	10		µg/L	1	9/22/2010 1:08:18 PM
4-Bromophenyl phenyl ether	ND	10		µg/L	1	9/22/2010 1:08:18 PM
Butyl benzyl phthalate	ND	10		µg/L	1	9/22/2010 1:08:18 PM
Carbazole	ND	10		µg/L	1	9/22/2010 1:08:18 PM
4-Chloro-3-methylphenol	ND	10		µg/L	1	9/22/2010 1:08:18 PM
4-Chloroaniline	ND	10		µg/L	1	9/22/2010 1:08:18 PM
2-Chloronaphthalene	ND	10		µg/L	1	9/22/2010 1:08:18 PM
2-Chlorophenol	ND	10		µg/L	1	9/22/2010 1:08:18 PM
4-Chlorophenyl phenyl ether	ND	10		µg/L	1	9/22/2010 1:08:18 PM
Chrysene	ND	10		µg/L	1	9/22/2010 1:08:18 PM
Di-n-butyl phthalate	ND	10		µg/L	1	9/22/2010 1:08:18 PM
Di-n-octyl phthalate	ND	10		µg/L	1	9/22/2010 1:08:18 PM
Dibenz(a,h)anthracene	ND	10		µg/L	1	9/22/2010 1:08:18 PM
Dibenzofuran	ND	10		µg/L	1	9/22/2010 1:08:18 PM
1,2-Dichlorobenzene	ND	10		µg/L	1	9/22/2010 1:08:18 PM
1,3-Dichlorobenzene	ND	10		µg/L	1	9/22/2010 1:08:18 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: *11-Oct-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	NAPIS-3
Lab Order:	1009830	**Collection Date:**	9/15/2010 3:12:00 PM
Project:	2010 3rd Qtr	**Date Received:**	9/17/2010
Lab ID:	1009830-04	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **MAW**
1,4-Dichlorobenzene	ND	10		µg/L	1	9/22/2010 1:08:18 PM
3,3'-Dichlorobenzidine	ND	10		µg/L	1	9/22/2010 1:08:18 PM
Diethyl phthalate	ND	10		µg/L	1	9/22/2010 1:08:18 PM
Dimethyl phthalate	ND	10		µg/L	1	9/22/2010 1:08:18 PM
2,4-Dichlorophenol	ND	20		µg/L	1	9/22/2010 1:08:18 PM
2,4-Dimethylphenol	ND	10		µg/L	1	9/22/2010 1:08:18 PM
4,6-Dinitro-2-methylphenol	ND	20		µg/L	1	9/22/2010 1:08:18 PM
2,4-Dinitrophenol	ND	20		µg/L	1	9/22/2010 1:08:18 PM
2,4-Dinitrotoluene	ND	10		µg/L	1	9/22/2010 1:08:18 PM
2,6-Dinitrotoluene	ND	10		µg/L	1	9/22/2010 1:08:18 PM
Fluoranthene	ND	10		µg/L	1	9/22/2010 1:08:18 PM
Fluorene	ND	10		µg/L	1	9/22/2010 1:08:18 PM
Hexachlorobenzene	ND	10		µg/L	1	9/22/2010 1:08:18 PM
Hexachlorobutadiene	ND	10		µg/L	1	9/22/2010 1:08:18 PM
Hexachlorocyclopentadiene	ND	10		µg/L	1	9/22/2010 1:08:18 PM
Hexachloroethane	ND	10		µg/L	1	9/22/2010 1:08:18 PM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	9/22/2010 1:08:18 PM
Isophorone	ND	10		µg/L	1	9/22/2010 1:08:18 PM
2-Methylnaphthalene	ND	10		µg/L	1	9/22/2010 1:08:18 PM
2-Methylphenol	ND	10		µg/L	1	9/22/2010 1:08:18 PM
3+4-Methylphenol	ND	10		µg/L	1	9/22/2010 1:08:18 PM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	9/22/2010 1:08:18 PM
N-Nitrosodimethylamine	ND	10		µg/L	1	9/22/2010 1:08:18 PM
N-Nitrosodiphenylamine	ND	10		µg/L	1	9/22/2010 1:08:18 PM
Naphthalene	ND	10		µg/L	1	9/22/2010 1:08:18 PM
2-Nitroaniline	ND	10		µg/L	1	9/22/2010 1:08:18 PM
3-Nitroaniline	ND	10		µg/L	1	9/22/2010 1:08:18 PM
4-Nitroaniline	ND	20		µg/L	1	9/22/2010 1:08:18 PM
Nitrobenzene	ND	10		µg/L	1	9/22/2010 1:08:18 PM
2-Nitrophenol	ND	10		µg/L	1	9/22/2010 1:08:18 PM
4-Nitrophenol	ND	10		µg/L	1	9/22/2010 1:08:18 PM
Pentachlorophenol	ND	20		µg/L	1	9/22/2010 1:08:18 PM
Phenanthrene	ND	10		µg/L	1	9/22/2010 1:08:18 PM
Phenol	ND	10		µg/L	1	9/22/2010 1:08:18 PM
Pyrene	ND	10		µg/L	1	9/22/2010 1:08:18 PM
Pyridine	ND	10		µg/L	1	9/22/2010 1:08:18 PM
1,2,4-Trichlorobenzene	ND	10		µg/L	1	9/22/2010 1:08:18 PM
2,4,5-Trichlorophenol	ND	10		µg/L	1	9/22/2010 1:08:18 PM
2,4,6-Trichlorophenol	ND	10		µg/L	1	9/22/2010 1:08:18 PM
Surr: 2,4,6-Tribromophenol	65.8	16.6-150		%REC	1	9/22/2010 1:08:18 PM
Surr: 2-Fluorobiphenyl	60.0	19.6-134		%REC	1	9/22/2010 1:08:18 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: *11-Oct-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	NAPIS-3
Lab Order:	1009830	**Collection Date:**	9/15/2010 3:12:00 PM
Project:	2010 3rd Qtr	**Date Received:**	9/17/2010
Lab ID:	1009830-04	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **MAW**
Surr: 2-Fluorophenol	40.1	9.54-113		%REC	1	9/22/2010 1:08:18 PM
Surr: 4-Terphenyl-d14	71.7	22.7-145		%REC	1	9/22/2010 1:08:18 PM
Surr: Nitrobenzene-d5	59.2	14.6-134		%REC	1	9/22/2010 1:08:18 PM
Surr: Phenol-d5	32.7	10.7-80.3		%REC	1	9/22/2010 1:08:18 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: *11-Oct-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	Field Blank
Lab Order:	1009830	**Collection Date:**	9/15/2010 10:00:00 AM
Project:	2010 3rd Qtr	**Date Received:**	9/17/2010
Lab ID:	1009830-05	**Matrix:**	AQUEOUS

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	9/28/2010 4:38:36 PM
Surr: BFB	100	79.9-117		%REC	1	9/28/2010 4:38:36 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Methyl tert-butyl ether (MTBE)	ND	2.5		µg/L	1	9/24/2010 11:26:17 PM
Benzene	ND	1.0		µg/L	1	9/24/2010 11:26:17 PM
Toluene	ND	1.0		µg/L	1	9/24/2010 11:26:17 PM
Ethylbenzene	ND	1.0		µg/L	1	9/24/2010 11:26:17 PM
Xylenes, Total	ND	2.0		µg/L	1	9/24/2010 11:26:17 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	9/24/2010 11:26:17 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	9/24/2010 11:26:17 PM
Surr: 4-Bromofluorobenzene	98.0	83.6-151		%REC	1	9/24/2010 11:26:17 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: *11-Oct-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	Trip Blank
Lab Order:	1009830	**Collection Date:**	
Project:	2010 3rd Qtr	**Date Received:**	9/17/2010
Lab ID:	1009830-06	**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	9/28/2010 5:07:34 PM
Surr: BFB	100	79.9-117		%REC	1	9/28/2010 5:07:34 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Methyl tert-butyl ether (MTBE)	ND	2.5		µg/L	1	9/24/2010 11:56:36 PM
Benzene	ND	1.0		µg/L	1	9/24/2010 11:56:36 PM
Toluene	ND	1.0		µg/L	1	9/24/2010 11:56:36 PM
Ethylbenzene	ND	1.0		µg/L	1	9/24/2010 11:56:36 PM
Xylenes, Total	ND	2.0		µg/L	1	9/24/2010 11:56:36 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	9/24/2010 11:56:36 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	9/24/2010 11:56:36 PM
Surr: 4-Bromofluorobenzene	108	83.6-151		%REC	1	9/24/2010 11:56:36 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

LABORATORY ANALYTICAL REPORT

Client: Hall Environmental
Project: 1009830
Lab ID: B10091866-001
Client Sample ID 1009830-01C, 01E, 01G, NAPIS-1

Report Date: 10/01/10
Collection Date: 09/15/10 10:32
DateReceived: 09/21/10
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
INORGANICS							
Chloride	189	mg/L		1		E300.0	09/28/10 17:44 / kh
Sulfate	65	mg/L		1		E300.0	09/28/10 17:44 / kh
Fluoride	0.5	mg/L	L	0.1		E300.0	09/28/10 17:44 / kh
NUTRIENTS							
Nitrogen, Nitrate+Nitrite as N	11.2	mg/L		0.5		E353.2	09/29/10 08:06 / bls
Phosphorus, Orthophosphate as P	0.019	mg/L	H	0.005		E365.1	09/21/10 16:05 / kak
- The sample was received after the holding time had expired for Orthophosphate.							
METALS, DISSOLVED							
Uranium	0.011	mg/L		0.001		E200.8	09/22/10 20:47 / jjw
METALS, TOTAL							
Uranium	0.018	mg/L		0.001		SW6020	09/24/10 16:46 / jjw

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
H - Analysis performed past recommended holding time.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
L - Lowest available reporting limit for the analytical method us

LABORATORY ANALYTICAL REPORT

Client: Hall Environmental
Project: 1009830
Lab ID: B10091866-002
Client Sample ID 1009830-02C, 02E, 02G, NAPIS-2

Report Date: 10/01/10
Collection Date: 09/15/10 11:13
DateReceived: 09/21/10
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
INORGANICS							
Chloride	220	mg/L		1		E300.0	09/28/10 17:56 / kh
Sulfate	6	mg/L		1		E300.0	09/28/10 17:56 / kh
Fluoride	1.3	mg/L	L	0.1		E300.0	09/28/10 17:56 / kh
NUTRIENTS							
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.5		E353.2	09/29/10 09:37 / bls
Phosphorus, Orthophosphate as P	0.01	mg/L	DH	0.01		E365.1	09/21/10 16:06 / kak
- The sample was received after the holding time had expired for Orthophosphate.							
METALS, DISSOLVED							
Uranium	ND	mg/L		0.001		E200.8	09/22/10 20:52 / jjw
METALS, TOTAL							
Uranium	ND	mg/L		0.001		SW6020	09/24/10 16:50 / jjw

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.
L - Lowest available reporting limit for the analytical method used.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
H - Analysis performed past recommended holding time.

LABORATORY ANALYTICAL REPORT

Client: Hall Environmental
Project: 1009830
Lab ID: B10091866-003
Client Sample ID 1009830-03C, 03E, 03G, KA-3

Report Date: 10/01/10
Collection Date: 09/15/10 14:12
DateReceived: 09/21/10
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
INORGANICS							
Chloride	277	mg/L	D	2		E300.0	09/30/10 15:16 / kh
Sulfate	37	mg/L		1		E300.0	09/28/10 18:07 / kh
Fluoride	1.4	mg/L	L	0.1		E300.0	09/28/10 18:07 / kh
NUTRIENTS							
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.5		E353.2	09/29/10 09:39 / bls
Phosphorus, Orthophosphate as P	0.013	mg/L	H	0.005		E365.1	09/21/10 16:07 / kak
- The sample was received after the holding time had expired for Orthophosphate.							
METALS, DISSOLVED							
Uranium	0.001	mg/L		0.001		E200.8	09/22/10 20:56 / jjw
METALS, TOTAL							
Uranium	0.003	mg/L		0.001		SW6020	09/24/10 16:54 / jjw

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.
L - Lowest available reporting limit for the analytical method used.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
H - Analysis performed past recommended holding time.

LABORATORY ANALYTICAL REPORT

Client: Hall Environmental
Project: 1009830
Lab ID: B10091866-004
Client Sample ID 1009830-04C, 04E, 04G, NAPIS-3

Report Date: 10/01/10
Collection Date: 09/15/10 15:12
DateReceived: 09/21/10
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
INORGANICS							
Chloride	1040	mg/L	D	5		E300.0	09/28/10 18:42 / kh
Sulfate	290	mg/L	D	20		E300.0	09/28/10 18:42 / kh
Fluoride	ND	mg/L	D	2		E300.0	09/28/10 18:42 / kh
NUTRIENTS							
Nitrogen, Nitrate+Nitrite as N	24.1	mg/L		0.5		E353.2	09/29/10 08:08 / bls
Phosphorus, Orthophosphate as P	0.023	mg/L	H	0.005		E365.1	09/21/10 16:08 / kak
- The sample was received after the holding time had expired for Orthophosphate.							
METALS, DISSOLVED							
Uranium	0.032	mg/L		0.001		E200.8	09/22/10 21:33 / jjw
METALS, TOTAL							
Uranium	0.035	mg/L		0.001		SW6020	09/24/10 16:58 / jjw

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
H - Analysis performed past recommended holding time.

QA/QC Summary Report

Client: Hall Environmental
Project: 1009830

Report Date: 10/01/10
Work Order: B10091866

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8								Analytical Run: ICPMS202-B_100922A	
Sample ID: QCS - 100607A,100726A,	Initial Calibration Verification Standard							09/22/10 11:26	
Uranium	0.0184	mg/L	0.0010	92	90	110			
Method: E200.8								Batch: R154275	
Sample ID: LRB	Method Blank				Run: ICPMS202-B_100922A			09/22/10 12:03	
Uranium	ND	mg/L	2E-05						
Sample ID: LFB	Laboratory Fortified Blank				Run: ICPMS202-B_100922A			09/22/10 12:07	
Uranium	0.0467	mg/L	0.0010	93	85	115			
Sample ID: B10091866-003BMS	Sample Matrix Spike				Run: ICPMS202-B_100922A			09/22/10 21:00	
Uranium	0.235	mg/L	0.0010	93	70	130			
Sample ID: B10091866-003BMSD	Sample Matrix Spike Duplicate				Run: ICPMS202-B_100922A			09/22/10 21:04	
Uranium	0.246	mg/L	0.0010	98	70	130	4.6	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: Hall Environmental
Project: 1009830

Report Date: 10/01/10
Work Order: B10091866

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0								Analytical Run: IC202-B_100928A	
Sample ID: ICV092810-11	Initial Calibration Verification Standard							09/28/10 11:55	
Chloride	25.3	mg/L	1.0	101	90	110			
Sulfate	93.7	mg/L	1.0	94	90	110			
Fluoride	12.6	mg/L	0.12	101	90	110			
Method: E300.0								Batch: R154675	
Sample ID: ICB092810-12	Method Blank				Run: IC202-B_100928A			09/28/10 12:07	
Chloride	0.1	mg/L	0.02						
Sulfate	ND	mg/L	0.2						
Fluoride	ND	mg/L	0.1						
Sample ID: LFB092810-13	Laboratory Fortified Blank				Run: IC202-B_100928A			09/28/10 12:18	
Chloride	25.0	mg/L	1.0	99	90	110			
Sulfate	92.5	mg/L	1.1	93	90	110			
Fluoride	12.4	mg/L	0.13	99	90	110			
Sample ID: B10091866-003CMS	Sample Matrix Spike				Run: IC202-B_100928A			09/28/10 18:19	
Chloride	299	mg/L	1.0		90	110			A
Sulfate	143	mg/L	1.1	106	90	110			
Fluoride	13.9	mg/L	0.13	101	90	110			
Sample ID: B10091866-003CMSD	Sample Matrix Spike Duplicate				Run: IC202-B_100928A			09/28/10 18:31	
Chloride	299	mg/L	1.0		90	110	0.2	20	A
Sulfate	144	mg/L	1.1	107	90	110	0.3	20	
Fluoride	13.9	mg/L	0.13	100	90	110	0.3	20	
Sample ID: B10092015-002AMS	Sample Matrix Spike				Run: IC202-B_100928A			09/29/10 13:07	
Chloride	1360	mg/L	13	97	90	110			
Sulfate	10600	mg/L	54	104	90	110			
Fluoride	597	mg/L	6.7	95	90	110			
Sample ID: B10092015-002AMSD	Sample Matrix Spike Duplicate				Run: IC202-B_100928A			09/29/10 13:18	
Chloride	1340	mg/L	13	96	90	110	1	20	
Sulfate	10600	mg/L	54	103	90	110	0.4	20	
Fluoride	600	mg/L	6.7	96	90	110	0.6	20	
Sample ID: B10091866-003CMS	Sample Matrix Spike				Run: IC202-B_100928A			09/30/10 15:27	
Chloride	528	mg/L	2.7	101	90	110			
Sulfate	973	mg/L	11	94	90	110			
Fluoride	123	mg/L	1.3	97	90	110			
Sample ID: B10091866-003CMSD	Sample Matrix Spike Duplicate				Run: IC202-B_100928A			09/30/10 15:39	
Chloride	529	mg/L	2.7	101	90	110	0.2	20	
Sulfate	969	mg/L	11	94	90	110	0.4	20	
Fluoride	123	mg/L	1.3	97	90	110	0.4	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

QA/QC Summary Report

Client: Hall Environmental
Project: 1009830

Report Date: 10/01/10
Work Order: B10091866

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E353.2									Analytical Run: FIA203-B_100929A
Sample ID: ICV	Initial Calibration Verification Standard								09/29/10 06:57
Nitrogen, Nitrate+Nitrite as N	30.1	mg/L	0.20	103	90	110			
Method: E353.2									Batch: R154665
Sample ID: MBLK	Method Blank				Run: FIA203-B_100929A				09/29/10 06:58
Nitrogen, Nitrate+Nitrite as N	ND	mg/L	0.004						
Sample ID: LFB	Laboratory Fortified Blank				Run: FIA203-B_100929A				09/29/10 07:00
Nitrogen, Nitrate+Nitrite as N	1.01	mg/L	0.010	103	90	110			
Sample ID: B10091869-002CMS	Sample Matrix Spike				Run: FIA203-B_100929A				09/29/10 09:14
Nitrogen, Nitrate+Nitrite as N	1.60	mg/L	0.010	105	90	110			
Sample ID: B10091869-002CMSD	Sample Matrix Spike Duplicate				Run: FIA203-B_100929A				09/29/10 09:15
Nitrogen, Nitrate+Nitrite as N	1.62	mg/L	0.010	107	90	110	1.3	10	
Sample ID: B10091869-008CMS	Sample Matrix Spike				Run: FIA203-B_100929A				09/29/10 09:30
Nitrogen, Nitrate+Nitrite as N	1.01	mg/L	0.010	103	90	110			
Sample ID: B10091869-008CMSD	Sample Matrix Spike Duplicate				Run: FIA203-B_100929A				09/29/10 09:31
Nitrogen, Nitrate+Nitrite as N	1.02	mg/L	0.010	104	90	110	0.7	10	
Sample ID: B10091908-001DMS	Sample Matrix Spike				Run: FIA203-B_100929A				09/29/10 09:47
Nitrogen, Nitrate+Nitrite as N	1.03	mg/L	0.010	104	90	110			
Sample ID: B10091908-001DMSD	Sample Matrix Spike Duplicate				Run: FIA203-B_100929A				09/29/10 09:48
Nitrogen, Nitrate+Nitrite as N	1.03	mg/L	0.010	104	90	110	0	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: Hall Environmental
Project: 1009830

Report Date: 10/01/10
Work Order: B10091866

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E365.1								Analytical Run: FIA202-B_100921E	
Sample ID: ICV	Initial Calibration Verification Standard								09/21/10 15:38
Phosphorus, Orthophosphate as P	0.241	mg/L	0.0050	96	90	110			
Method: E365.1								Batch: R154211	
Sample ID: MBLK	Method Blank				Run: FIA202-B_100921E				09/21/10 15:41
Phosphorus, Orthophosphate as P	ND	mg/L	0.005						
Sample ID: LFB	Laboratory Fortified Blank				Run: FIA202-B_100921E				09/21/10 15:42
Phosphorus, Orthophosphate as P	0.101	mg/L	0.0050	101	90	110			
Sample ID: B10091863-001BMS	Sample Matrix Spike				Run: FIA202-B_100921E				09/21/10 16:00
Phosphorus, Orthophosphate as P	0.110	mg/L	0.0050	97	90	110			
Sample ID: B10091863-001BMSD	Sample Matrix Spike Duplicate				Run: FIA202-B_100921E				09/21/10 16:01
Phosphorus, Orthophosphate as P	0.111	mg/L	0.0050	98	90	110	0.9	10	
Sample ID: B10091839-003AMS	Sample Matrix Spike				Run: FIA202-B_100921E				09/21/10 16:14
Phosphorus, Orthophosphate as P	0.104	mg/L	0.0050	104	90	110			
Sample ID: B10091839-003AMSD	Sample Matrix Spike Duplicate				Run: FIA202-B_100921E				09/21/10 16:15
Phosphorus, Orthophosphate as P	0.104	mg/L	0.0050	104	90	110	0	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: Hall Environmental
Project: 1009830

Report Date: 10/01/10
Work Order: B10091866

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW6020							Analytical Run: ICPMS202-B_100924A		
Sample ID: QCS - 100607A,100726A,	Initial Calibration Verification Standard							09/24/10 10:34	
Uranium	0.0184	mg/L	0.00030	92	90	110			
Sample ID: ICSA-ME091229B	Interference Check Sample A							09/24/10 10:38	
Uranium	2.20E-05	mg/L	0.00030						
Sample ID: ICSAB-ME091229B, 1001	Interference Check Sample AB							09/24/10 10:42	
Uranium	6.00E-06	mg/L	0.00030		0	0			
Method: SW6020								Batch: 49247	
Sample ID: MB-49247	Method Blank				Run: ICPMS202-B_100924A			09/24/10 16:26	
Uranium	ND	mg/L	2E-05						
Sample ID: B10091857-001ADIL	Serial Dilution				Run: ICPMS202-B_100924A			09/24/10 16:34	
Uranium	0.0132	mg/L	0.0010		0	0	11	10	R
Sample ID: LCS-49247	Laboratory Control Sample				Run: ICPMS202-B_100924A			09/24/10 17:19	
Uranium	0.505	mg/L	0.0010	101	85	115			
Sample ID: B10091857-001AMS3	Sample Matrix Spike				Run: ICPMS202-B_100924A			09/24/10 17:22	
Uranium	0.553	mg/L	0.0010	108	75	125			
Sample ID: B10091857-001AMSD3	Sample Matrix Spike Duplicate				Run: ICPMS202-B_100924A			09/24/10 17:26	
Uranium	0.549	mg/L	0.0010	107	75	125	0.8	20	

Qualifiers:

RL - Analyte reporting limit.
R - RPD exceeds advisory limit.
ND - Not detected at the reporting limit.

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: 2010 3rd Qtr
Work Order: 1009830

Analyte	Result	Units	PQL	SPK Val	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8015B: Diesel Range											
Sample ID: MB-23826		*MBLK*				Batch ID:	**23826**	Analysis Date:		9/20/2010 5:47:41 PM	
Diesel Range Organics (DRO)	ND	mg/L	1.0								
Motor Oil Range Organics (MRO)	ND	mg/L	5.0								
Sample ID: LCS-23826		*LCS*				Batch ID:	**23826**	Analysis Date:		9/20/2010 6:21:47 PM	
Diesel Range Organics (DRO)	5.766	mg/L	1.0	5	0	115	74	157			
Sample ID: LCSD-23826		*LCSD*				Batch ID:	**23826**	Analysis Date:		9/20/2010 6:55:54 PM	
Diesel Range Organics (DRO)	5.825	mg/L	1.0	5	0	116	74	157	1.01	23	
Method: EPA Method 8015B: Gasoline Range											
Sample ID: 1009830-04A MSD		*MSD*				Batch ID:	**R41190**	Analysis Date:		9/24/2010 6:53:48 PM	
Gasoline Range Organics (GRO)	0.5014	mg/L	0.050	0.5	0	100	75.6	129	5.77	16.1	
Sample ID: 5ML RB		*MBLK*				Batch ID:	**R41190**	Analysis Date:		9/24/2010 9:19:52 AM	
Gasoline Range Organics (GRO)	ND	mg/L	0.050								
Sample ID: 2.5UG GRO LCS		*LCS*				Batch ID:	**R41190**	Analysis Date:		9/24/2010 11:51:28 AM	
Gasoline Range Organics (GRO)	0.4892	mg/L	0.050	0.5	0	97.8	89.5	122			
Sample ID: 1009830-04A MS		*MS*				Batch ID:	**R41190**	Analysis Date:		9/24/2010 6:23:35 PM	
Gasoline Range Organics (GRO)	0.5312	mg/L	0.050	0.5	0	106	75.6	129			
Method: EPA Method 8021B: Volatiles											
Sample ID: 5ML RB		*MBLK*				Batch ID:	**R41190**	Analysis Date:		9/24/2010 9:19:52 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:	**R41190**	Analysis Date:		9/24/2010 12:21:46 PM	
Methyl tert-butyl ether (MTBE)	19.26	µg/L	2.5	20	0	96.3	75.5	124			
Benzene	20.03	µg/L	1.0	20	0.162	99.3	84.7	118			
Toluene	19.03	µg/L	1.0	20	0	95.1	82	123			
Ethylbenzene	19.52	µg/L	1.0	20	0.22	96.5	83	118			
Xylenes, Total	60.57	µg/L	2.0	60	0	101	85.4	119			
1,2,4-Trimethylbenzene	21.00	µg/L	1.0	20	0	105	82.1	113			
1,3,5-Trimethylbenzene	21.49	µg/L	1.0	20	0	107	89.6	119			

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: 2010 3rd Qtr **Work Order:** 1009830

Analyte	Result	Units	PQL	SPK Val	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260: Volatiles Short List											
Sample ID: 5ml rb		*MBLK*				Batch ID:	**R41224**	Analysis Date:	9/28/2010 10:20:13 AM		
Benzene	ND	µg/L	1.0								
Toluene	ND	µg/L	1.0								
Ethylbenzene	ND	µg/L	1.0								
Methyl tert-butyl ether (MTBE)	ND	µg/L	1.0								
1,2,4-Trimethylbenzene	ND	µg/L	1.0								
1,3,5-Trimethylbenzene	ND	µg/L	1.0								
Xylenes, Total	ND	µg/L	2.0								
Sample ID: 100ng lcs		*LCS*				Batch ID:	**R41224**	Analysis Date:	9/28/2010 11:16:49 AM		
Benzene	18.49	µg/L	1.0	20	0	92.4	82.4	116			
Toluene	20.32	µg/L	1.0	20	0	102	89.5	123			

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: 2010 3rd Qtr **Work Order:** 1009830

Method: EPA Method 8270C: Semivolatiles
Sample ID: mb-23837 *MBLK* Batch ID: **23837** Analysis Date: 9/21/2010 7:55:00 PM

Analyte	Result	Units	PQL	SPK Val	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	ND	µg/L	10								
Acenaphthylene	ND	µg/L	10								
Aniline	ND	µg/L	10								
Anthracene	ND	µg/L	10								
Azobenzene	ND	µg/L	10								
Benz(a)anthracene	ND	µg/L	10								
Benzo(a)pyrene	ND	µg/L	10								
Benzo(b)fluoranthene	ND	µg/L	10								
Benzo(g,h,i)perylene	ND	µg/L	10								
Benzo(k)fluoranthene	ND	µg/L	10								
Benzoic acid	ND	µg/L	20								
Benzyl alcohol	ND	µg/L	10								
Bis(2-chloroethoxy)methane	ND	µg/L	10								
Bis(2-chloroethyl)ether	ND	µg/L	10								
Bis(2-chloroisopropyl)ether	ND	µg/L	10								
Bis(2-ethylhexyl)phthalate	ND	µg/L	10								
4-Bromophenyl phenyl ether	ND	µg/L	10								
Butyl benzyl phthalate	ND	µg/L	10								
Carbazole	ND	µg/L	10								
4-Chloro-3-methylphenol	ND	µg/L	10								
4-Chloroaniline	ND	µg/L	10								
2-Chloronaphthalene	ND	µg/L	10								
2-Chlorophenol	ND	µg/L	10								
4-Chlorophenyl phenyl ether	ND	µg/L	10								
Chrysene	ND	µg/L	10								
Di-n-butyl phthalate	ND	µg/L	10								
Di-n-octyl phthalate	ND	µg/L	10								
Dibenz(a,h)anthracene	ND	µg/L	10								
Dibenzofuran	ND	µg/L	10								
1,2-Dichlorobenzene	ND	µg/L	10								
1,3-Dichlorobenzene	ND	µg/L	10								
1,4-Dichlorobenzene	ND	µg/L	10								
3,3'-Dichlorobenzidine	ND	µg/L	10								
Diethyl phthalate	ND	µg/L	10								
Dimethyl phthalate	ND	µg/L	10								
2,4-Dichlorophenol	ND	µg/L	20								
2,4-Dimethylphenol	ND	µg/L	10								
4,6-Dinitro-2-methylphenol	ND	µg/L	20								
2,4-Dinitrophenol	ND	µg/L	20								
2,4-Dinitrotoluene	ND	µg/L	10								
2,6-Dinitrotoluene	ND	µg/L	10								
Fluoranthene	ND	µg/L	10								
Fluorene	ND	µg/L	10								
Hexachlorobenzene	ND	µg/L	10								

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: 2010 3rd Qtr **Work Order:** 1009830

Analyte	Result	Units	PQL	SPK Val	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8270C: Semivolatiles											
Sample ID: mb-23837		*MBLK*				Batch ID:	**23837**	Analysis Date:		9/21/2010 7:55:00 PM	
Hexachlorobutadiene	ND	µg/L	10								
Hexachlorocyclopentadiene	ND	µg/L	10								
Hexachloroethane	ND	µg/L	10								
Indeno(1,2,3-cd)pyrene	ND	µg/L	10								
Isophorone	ND	µg/L	10								
2-Methylnaphthalene	ND	µg/L	10								
2-Methylphenol	ND	µg/L	10								
3+4-Methylphenol	ND	µg/L	10								
N-Nitrosodi-n-propylamine	ND	µg/L	10								
N-Nitrosodimethylamine	ND	µg/L	10								
N-Nitrosodiphenylamine	ND	µg/L	10								
Naphthalene	ND	µg/L	10								
2-Nitroaniline	ND	µg/L	10								
3-Nitroaniline	ND	µg/L	10								
4-Nitroaniline	ND	µg/L	20								
Nitrobenzene	ND	µg/L	10								
2-Nitrophenol	ND	µg/L	10								
4-Nitrophenol	ND	µg/L	10								
Pentachlorophenol	ND	µg/L	20								
Phenanthrene	ND	µg/L	10								
Phenol	ND	µg/L	10								
Pyrene	ND	µg/L	10								
Pyridine	ND	µg/L	10								
1,2,4-Trichlorobenzene	ND	µg/L	10								
2,4,5-Trichlorophenol	ND	µg/L	10								
2,4,6-Trichlorophenol	ND	µg/L	10								
Sample ID: lcs-23837		*LCS*				Batch ID:	**23837**	Analysis Date:		9/21/2010 8:25:27 PM	
Acenaphthene	69.84	µg/L	10	100	3.84	66.0	29.3	113			
4-Chloro-3-methylphenol	148.3	µg/L	10	200	0	74.1	23.3	123			
2-Chlorophenol	141.3	µg/L	10	200	0	70.6	23.9	112			
1,4-Dichlorobenzene	56.50	µg/L	10	100	0	56.5	16.5	106			
2,4-Dinitrotoluene	98.20	µg/L	10	100	0	98.2	27.7	126			
N-Nitrosodi-n-propylamine	65.76	µg/L	10	100	0	65.8	25.9	113			
4-Nitrophenol	126.9	µg/L	10	200	0	63.4	13.2	76.7			
Pentachlorophenol	122.8	µg/L	20	200	0	61.4	22.4	121			
Phenol	85.90	µg/L	10	200	0	43.0	15.3	68.3			
Pyrene	73.58	µg/L	10	100	0	73.6	23.5	119			
1,2,4-Trichlorobenzene	63.76	µg/L	10	100	0	63.8	23	107			
Sample ID: lcsd-23837		*LCSD*				Batch ID:	**23837**	Analysis Date:		9/21/2010 8:55:55 PM	
Acenaphthene	73.48	µg/L	10	100	3.84	69.6	29.3	113	5.08	30.5	
4-Chloro-3-methylphenol	156.0	µg/L	10	200	0	78.0	23.3	123	5.06	28.6	
2-Chlorophenol	154.2	µg/L	10	200	0	77.1	23.9	112	8.75	107	
1,4-Dichlorobenzene	63.14	µg/L	10	100	0	63.1	16.5	106	11.1	62.1	
2,4-Dinitrotoluene	99.14	µg/L	10	100	0	99.1	27.7	126	0.953	14.7	

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: 2010 3rd Qtr **Work Order:** 1009830

Analyte	Result	Units	PQL	SPK Val	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8270C: Semivolatiles											
Sample ID: lcsd-23837		*LCSD*				Batch ID:	**23837**	Analysis Date:		9/21/2010 8:55:55 PM	
N-Nitrosodi-n-propylamine	67.12	µg/L	10	100	0	67.1	25.9	113	2.05	30.3	
4-Nitrophenol	130.6	µg/L	10	200	0	65.3	13.2	76.7	2.92	36.3	
Pentachlorophenol	124.1	µg/L	20	200	0	62.0	22.4	121	1.02	49	
Phenol	93.00	µg/L	10	200	0	46.5	15.3	68.3	7.94	52.4	
Pyrene	66.16	µg/L	10	100	0	66.2	23.5	119	10.6	16.3	
1,2,4-Trichlorobenzene	67.12	µg/L	10	100	0	67.1	23	107	5.13	36.4	
Method: EPA Method 7470: Mercury											
Sample ID: MB-23924		*MBLK*				Batch ID:	**23924**	Analysis Date:		9/28/2010 3:13:51 PM	
Mercury	ND	mg/L	0.00020								
Sample ID: LCS-23924		*LCS*				Batch ID:	**23924**	Analysis Date:		9/28/2010 4:04:18 PM	
Mercury	0.005268	mg/L	0.00020	0.005	2E-05	105	80	120			
Method: EPA Method 6010B: Dissolved Metals											
Sample ID: MB		*MBLK*				Batch ID:	**R41319**	Analysis Date:		10/1/2010 12:30:48 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								
Copper	ND	mg/L	0.0060								
Iron	ND	mg/L	0.020								
Lead	ND	mg/L	0.0050								
Magnesium	ND	mg/L	1.0								
Manganese	ND	mg/L	0.0020								
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:	**R41319**	Analysis Date:		10/1/2010 12:33:38 PM	
Arsenic	0.4908	mg/L	0.020	0.5	0	98.2	80	120			
Barium	0.4717	mg/L	0.020	0.5	0	94.3	80	120			
Cadmium	0.4799	mg/L	0.0020	0.5	0	96.0	80	120			
Calcium	50.19	mg/L	1.0	50.5	0.0311	99.3	80	120			
Chromium	0.4771	mg/L	0.0060	0.5	0	95.4	80	120			
Copper	0.5044	mg/L	0.0060	0.5	0	101	80	120			
Iron	0.4726	mg/L	0.020	0.5	0	94.5	80	120			
Lead	0.4787	mg/L	0.0050	0.5	0	95.7	80	120			
Magnesium	50.70	mg/L	1.0	50.5	0.0319	100	80	120			
Manganese	0.4664	mg/L	0.0020	0.5	0	93.3	80	120			
Potassium	52.97	mg/L	1.0	55	0.0703	96.2	80	120			
Selenium	0.4723	mg/L	0.050	0.5	0	94.5	80	120			
Silver	0.4782	mg/L	0.0050	0.5	0.0003	95.6	80	120			
Sodium	53.62	mg/L	1.0	50.5	0.042	106	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: 2010 3rd Qtr **Work Order:** 1009830

Analyte	Result	Units	PQL	SPK Val	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA 6010B: Total Recoverable Metals											
Sample ID: MB-23852		*MBLK*				Batch ID:	**23852**	Analysis Date:	9/22/2010 6:48:30 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								
Copper	ND	mg/L	0.0060								
Iron	ND	mg/L	0.050								
Lead	ND	mg/L	0.0050								
Manganese	ND	mg/L	0.0020								
Selenium	ND	mg/L	0.050								
Silver	ND	mg/L	0.0050								
Sample ID: MB-23852		*MBLK*				Batch ID:	**23852**	Analysis Date:	9/23/2010 6:16:57 PM		
Zinc	ND	mg/L	0.020								
Sample ID: MB-23852		*MBLK*				Batch ID:	**23852**	Analysis Date:	9/30/2010 8:29:17 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								
Copper	ND	mg/L	0.0060								
Iron	ND	mg/L	0.050								
Lead	ND	mg/L	0.0050								
Manganese	ND	mg/L	0.0020								
Selenium	ND	mg/L	0.050								
Silver	ND	mg/L	0.0050								
Zinc	ND	mg/L	0.020								
Sample ID: LCS-23852		*LCS*				Batch ID:	**23852**	Analysis Date:	9/22/2010 6:51:30 PM		
Arsenic	0.5211	mg/L	0.020	0.5	0	104	80	120			
Barium	0.4876	mg/L	0.020	0.5	0	97.5	80	120			
Cadmium	0.5046	mg/L	0.0020	0.5	0	101	80	120			
Chromium	0.4962	mg/L	0.0060	0.5	0	99.2	80	120			
Copper	0.5375	mg/L	0.0060	0.5	0.0010	107	80	120			
Iron	0.4809	mg/L	0.050	0.5	0	96.2	80	120			
Lead	0.4914	mg/L	0.0050	0.5	0	98.3	80	120			
Manganese	0.4866	mg/L	0.0020	0.5	0	97.3	80	120			
Selenium	0.5024	mg/L	0.050	0.5	0	100	80	120			
Silver	0.5086	mg/L	0.0050	0.5	0.0003	102	80	120			
Sample ID: LCS-23852		*LCS*				Batch ID:	**23852**	Analysis Date:	9/23/2010 6:19:45 PM		
Arsenic	0.5127	mg/L	0.020	0.5	0	103	80	120	1.63	0	
Barium	0.4876	mg/L	0.020	0.5	0	97.5	80	120	0.0167	0	
Cadmium	0.5044	mg/L	0.0020	0.5	0	101	80	120	0.0373	0	
Chromium	0.4981	mg/L	0.0060	0.5	0	99.6	80	120	0.394	0	
Lead	0.4879	mg/L	0.0050	0.5	0	97.6	80	120	0.709	0	
Selenium	0.5052	mg/L	0.050	0.5	0	101	80	120	0.572	0	
Silver	0.5054	mg/L	0.0050	0.5	0.0003	101	80	120	0.622	0	

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: 2010 3rd Qtr **Work Order:** 1009830

Analyte	Result	Units	PQL	SPK Val	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA 6010B: Total Recoverable Metals											
Sample ID: LCS-23852		*LCS*				Batch ID:	**23852**	Analysis Date:		9/23/2010 6:19:45 PM	
Zinc	0.4795	mg/L	0.020	0.5	0	95.9	80	120	0.493	0	
Sample ID: LCS-23852		*LCS*				Batch ID:	**23852**	Analysis Date:		9/30/2010 8:41:50 PM	
Arsenic	0.4869	mg/L	0.020	0.5	0	97.4	80	120			
Barium	0.4921	mg/L	0.020	0.5	0	98.4	80	120			
Cadmium	0.4887	mg/L	0.0020	0.5	0	97.7	80	120			
Chromium	0.5021	mg/L	0.0060	0.5	0	100	80	120			
Copper	0.5801	mg/L	0.0060	0.5	0.0033	115	80	120			
Iron	0.4937	mg/L	0.050	0.5	0	98.7	80	120			
Lead	0.4804	mg/L	0.0050	0.5	0	96.1	80	120			
Manganese	0.4914	mg/L	0.0020	0.5	0	98.3	80	120			
Selenium	0.4606	mg/L	0.050	0.5	0	92.1	80	120			
Silver	0.5093	mg/L	0.0050	0.5	0.0015	102	80	120			
Zinc	0.4665	mg/L	0.020	0.5	0	93.3	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: 9/17/2010

Work Order Number 1009830

Received by: ARS

Sample ID labels checked by: AT (Initials)

Checklist completed by: Signature 9/17/10 Date

Matrix: Carrier name UPS

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐	Not Shipped ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	N/A ☑	
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☑	No ☐	
Water - Preservation labels on bottle and cap match?	Yes ☑	No ☐	N/A ☐	
Water - pH acceptable upon receipt?	Yes ☑	No ☐	N/A ☐	
Container/Temp Blank temperature?	1.3°	*<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: Added 0.4ml HNO_3 to -04E for an acceptable pH. MG 9/17/10
Poured off 1L unpreserved amber into 125ml unpreserved bottle for ~~cations~~ anions MG 9/17/10 MG 9/17/10

Corrective Action _____

Chain-of-Custody Record

Client: Western Refining Gallup Refinery
Mailing Address: Rt 3 Bx 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: 2010 3rd QTR
Project #: NAPIS
Project Manager: C Johnson
Sampler: C Johnson
On Ice: ☒ Yes ☐ No
Sample Temperature: 1.3

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	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1009830	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,NO3,NO2,PO4,SO4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA) + phenols	WQCC Metals To Fal + Diss	Major Cations, Anions			Air Bubbles (Y or N)
9/15/10	1032	H2O	NAPIS-1			1	X		X								X	X	X			
	1113		NAPIS-2			2	X		X								X	X	X			
	1412		KA-3			3	X		X								X	X	X			
	1512		NAPIS-3			4	X		X								X	X	X			
	1000		Field Blank			5	X		X													
			TRIP Blank			6	X		X													

9/17/10

Date:	Time:	Relinquished by:	Received by:	Date	Time
9/16/10	0900			9/17/10	9:55
Date:	Time:	Relinquished by:	Received by:	Date	Time

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.