Gallup 1st Q results
new wells

Van Horn, Kristen, NMENV

ENTERED

From: Rajen, Gaurav [Gaurav.Rajen@wnr.com]

Sent: Tuesday, March 30, 2010 2:01 PM

To: Van Horn, Kristen, NMENV; Monzeglio, Hope, NMENV

Cc: Chavez, Carl J, EMNRD; Riege, Ed; Allen, Ann; Johnson, Cheryl; Larsen, Thurman; Lieb, Jim

Subject: !st Quarter results for OW-13, OW-14, OW-29, OW-30, OW-50, OW-52

Attachments: OW-50 and 52 1st qtr 2010.pdf; First qtr 2010 NE OW wells.pdf

Dear Kristen:

It is a pleasure to send you our sampling results for the 1st Quarter of 2010 for wells, OW-13, OW-14, OW-29, OW-30, OW-50, and OW-52. As you will note, the only new occurrences of possible concern are that OW-50 has some indication of benzoic acid and Bis(2-ethylexyl)phthalate – the results are however either at or so close (within 1 ppb) to the level of detection that these may not represent actual contaminant levels, but could be laboratory artifacts. Further, these contaminants have not been discovered in any other wells in the area (most of which are closer to historic refinery spill sites) in past sampling events. We will ask the laboratory to verify these results by re-doing the tests if possible.

Gaurav Rajen, Ph.D.
Environmental Engineer
Gallup Refinery, Western Refining
Tel: 505-722-0227

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

COVER LETTER

Monday, March 29, 2010

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

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

RE: 1st Qtr 2010

Order No.: 1003408

Dear Gaurav Rajen:

Hall Environmental Analysis Laboratory, Inc. received 2 sample(s) on 3/17/2010 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

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: *29-Mar-10*

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1003408
Project: 1st Qtr 2010
Lab ID: 1003408-01

Client Sample ID: OW-50
Collection Date: 3/16/2010 10:49:00 AM
Date Received: 3/17/2010
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **JB**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	3/22/2010 6:09:02 AM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	3/22/2010 6:09:02 AM
Surr: DNOP	123	58-140		%REC	1	3/22/2010 6:09:02 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	3/25/2010 12:21:16 AM
Surr: BFB	95.9	55.2-107		%REC	1	3/25/2010 12:21:16 AM
EPA METHOD 300.0: ANIONS						Analyst: **MMS**
Fluoride	0.53	0.10		mg/L	1	3/18/2010 1:28:59 AM
Chloride	29	10		mg/L	20	3/18/2010 12:36:45 AM
Nitrogen, Nitrite (As N)	ND	0.10		mg/L	1	3/18/2010 1:28:59 AM
Bromide	0.22	0.10		mg/L	1	3/18/2010 1:28:59 AM
Nitrogen, Nitrate (As N)	ND	0.10		mg/L	1	3/18/2010 1:28:59 AM
Phosphorus, Orthophosphate (As P)	ND	0.50		mg/L	1	3/18/2010 1:28:59 AM
Sulfate	150	10		mg/L	20	3/18/2010 12:36:45 AM
EPA METHOD 7470: MERCURY						Analyst: **RAGS**
Mercury	ND	0.00020		mg/L	1	3/22/2010 2:59:35 PM
EPA METHOD 6010B: DISSOLVED METALS						Analyst: **RAGS**
Arsenic	ND	0.020		mg/L	1	3/22/2010 1:36:18 PM
Barium	0.036	0.020		mg/L	1	3/22/2010 1:36:18 PM
Cadmium	ND	0.0020		mg/L	1	3/22/2010 1:36:18 PM
Calcium	19	1.0		mg/L	1	3/22/2010 1:36:18 PM
Chromium	ND	0.0060		mg/L	1	3/22/2010 1:36:18 PM
Copper	ND	0.0060		mg/L	1	3/22/2010 1:36:18 PM
Iron	ND	0.020		mg/L	1	3/22/2010 1:36:18 PM
Lead	ND	0.0050		mg/L	1	3/22/2010 1:36:18 PM
Magnesium	3.1	1.0		mg/L	1	3/22/2010 1:36:18 PM
Manganese	0.076	0.0020		mg/L	1	3/22/2010 1:36:18 PM
Potassium	ND	1.0		mg/L	1	3/22/2010 1:36:18 PM
Selenium	ND	0.050		mg/L	1	3/22/2010 1:36:18 PM
Silver	ND	0.0050		mg/L	1	3/22/2010 1:36:18 PM
Sodium	210	5.0		mg/L	5	3/22/2010 3:11:26 PM
Zinc	ND	0.050		mg/L	1	3/22/2010 1:36:18 PM
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: **SNV**
Arsenic	ND	0.020		mg/L	1	3/24/2010 12:32:03 PM
Barium	0.038	0.020		mg/L	1	3/24/2010 12:32:03 PM
Cadmium	ND	0.0020		mg/L	1	3/24/2010 12:32:03 PM

Qualifiers:

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- 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: *29-Mar-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	OW-50
Lab Order:	1003408	**Collection Date:**	3/16/2010 10:49:00 AM
Project:	1st Qtr 2010	**Date Received:**	3/17/2010
Lab ID:	1003408-01	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: **SNV**
Chromium	ND	0.0060		mg/L	1	3/24/2010 12:32:03 PM
Copper	ND	0.0060		mg/L	1	3/24/2010 12:32:03 PM
Iron	ND	0.050		mg/L	1	3/24/2010 12:32:03 PM
Lead	ND	0.0050		mg/L	1	3/24/2010 12:32:03 PM
Manganese	0.079	0.0020		mg/L	1	3/24/2010 12:32:03 PM
Selenium	ND	0.050		mg/L	1	3/24/2010 12:32:03 PM
Silver	ND	0.0050		mg/L	1	3/24/2010 12:32:03 PM
Zinc	ND	0.020		mg/L	1	3/24/2010 12:32:03 PM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **LBJ**
Acenaphthene	ND	10		µg/L	1	3/22/2010 6:42:46 PM
Acenaphthylene	ND	10		µg/L	1	3/22/2010 6:42:46 PM
Aniline	ND	10		µg/L	1	3/22/2010 6:42:46 PM
Anthracene	ND	10		µg/L	1	3/22/2010 6:42:46 PM
Azobenzene	ND	10		µg/L	1	3/22/2010 6:42:46 PM
Benz(a)anthracene	ND	10		µg/L	1	3/22/2010 6:42:46 PM
Benzo(a)pyrene	ND	10		µg/L	1	3/22/2010 6:42:46 PM
Benzo(b)fluoranthene	ND	10		µg/L	1	3/22/2010 6:42:46 PM
Benzo(g,h,i)perylene	ND	10		µg/L	1	3/22/2010 6:42:46 PM
Benzo(k)fluoranthene	ND	10		µg/L	1	3/22/2010 6:42:46 PM
Benzoic acid	20	20		µg/L	1	3/22/2010 6:42:46 PM
Benzyl alcohol	ND	10		µg/L	1	3/22/2010 6:42:46 PM
Bis(2-chloroethoxy)methane	ND	10		µg/L	1	3/22/2010 6:42:46 PM
Bis(2-chloroethyl)ether	ND	10		µg/L	1	3/22/2010 6:42:46 PM
Bis(2-chloroisopropyl)ether	ND	10		µg/L	1	3/22/2010 6:42:46 PM
Bis(2-ethylhexyl)phthalate	11	10		µg/L	1	3/22/2010 6:42:46 PM
4-Bromophenyl phenyl ether	ND	10		µg/L	1	3/22/2010 6:42:46 PM
Butyl benzyl phthalate	ND	10		µg/L	1	3/22/2010 6:42:46 PM
Carbazole	ND	10		µg/L	1	3/22/2010 6:42:46 PM
4-Chloro-3-methylphenol	ND	10		µg/L	1	3/22/2010 6:42:46 PM
4-Chloroaniline	ND	10		µg/L	1	3/22/2010 6:42:46 PM
2-Chloronaphthalene	ND	10		µg/L	1	3/22/2010 6:42:46 PM
2-Chlorophenol	ND	10		µg/L	1	3/22/2010 6:42:46 PM
4-Chlorophenyl phenyl ether	ND	10		µg/L	1	3/22/2010 6:42:46 PM
Chrysene	ND	10		µg/L	1	3/22/2010 6:42:46 PM
Di-n-butyl phthalate	ND	10		µg/L	1	3/22/2010 6:42:46 PM
Di-n-octyl phthalate	ND	10		µg/L	1	3/22/2010 6:42:46 PM
Dibenz(a,h)anthracene	ND	10		µg/L	1	3/22/2010 6:42:46 PM
Dibenzofuran	ND	10		µg/L	1	3/22/2010 6:42:46 PM
1,2-Dichlorobenzene	ND	10		µg/L	1	3/22/2010 6:42:46 PM
1,3-Dichlorobenzene	ND	10		µg/L	1	3/22/2010 6:42:46 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: *29-Mar-10*

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1003408
Project: 1st Qtr 2010
Lab ID: 1003408-01

Client Sample ID: OW-50
Collection Date: 3/16/2010 10:49:00 AM
Date Received: 3/17/2010
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: LBJ
1,4-Dichlorobenzene	ND	10		µg/L	1	3/22/2010 6:42:46 PM
3,3'-Dichlorobenzidine	ND	10		µg/L	1	3/22/2010 6:42:46 PM
Diethyl phthalate	ND	10		µg/L	1	3/22/2010 6:42:46 PM
Dimethyl phthalate	ND	10		µg/L	1	3/22/2010 6:42:46 PM
2,4-Dichlorophenol	ND	20		µg/L	1	3/22/2010 6:42:46 PM
2,4-Dimethylphenol	ND	10		µg/L	1	3/22/2010 6:42:46 PM
4,6-Dinitro-2-methylphenol	ND	20		µg/L	1	3/22/2010 6:42:46 PM
2,4-Dinitrophenol	ND	20		µg/L	1	3/22/2010 6:42:46 PM
2,4-Dinitrotoluene	ND	10		µg/L	1	3/22/2010 6:42:46 PM
2,6-Dinitrotoluene	ND	10		µg/L	1	3/22/2010 6:42:46 PM
Fluoranthene	ND	10		µg/L	1	3/22/2010 6:42:46 PM
Fluorene	ND	10		µg/L	1	3/22/2010 6:42:46 PM
Hexachlorobenzene	ND	10		µg/L	1	3/22/2010 6:42:46 PM
Hexachlorobutadiene	ND	10		µg/L	1	3/22/2010 6:42:46 PM
Hexachlorocyclopentadiene	ND	10		µg/L	1	3/22/2010 6:42:46 PM
Hexachloroethane	ND	10		µg/L	1	3/22/2010 6:42:46 PM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	3/22/2010 6:42:46 PM
Isophorone	ND	10		µg/L	1	3/22/2010 6:42:46 PM
2-Methylnaphthalene	ND	10		µg/L	1	3/22/2010 6:42:46 PM
2-Methylphenol	ND	10		µg/L	1	3/22/2010 6:42:46 PM
3+4-Methylphenol	ND	10		µg/L	1	3/22/2010 6:42:46 PM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	3/22/2010 6:42:46 PM
N-Nitrosodimethylamine	ND	10		µg/L	1	3/22/2010 6:42:46 PM
N-Nitrosodiphenylamine	ND	10		µg/L	1	3/22/2010 6:42:46 PM
Naphthalene	ND	10		µg/L	1	3/22/2010 6:42:46 PM
2-Nitroaniline	ND	10		µg/L	1	3/22/2010 6:42:46 PM
3-Nitroaniline	ND	10		µg/L	1	3/22/2010 6:42:46 PM
4-Nitroaniline	ND	10		µg/L	1	3/22/2010 6:42:46 PM
Nitrobenzene	ND	10		µg/L	1	3/22/2010 6:42:46 PM
2-Nitrophenol	ND	10		µg/L	1	3/22/2010 6:42:46 PM
4-Nitrophenol	ND	10		µg/L	1	3/22/2010 6:42:46 PM
Pentachlorophenol	ND	20		µg/L	1	3/22/2010 6:42:46 PM
Phenanthrene	ND	10		µg/L	1	3/22/2010 6:42:46 PM
Phenol	ND	10		µg/L	1	3/22/2010 6:42:46 PM
Pyrene	ND	10		µg/L	1	3/22/2010 6:42:46 PM
Pyridine	ND	10		µg/L	1	3/22/2010 6:42:46 PM
1,2,4-Trichlorobenzene	ND	10		µg/L	1	3/22/2010 6:42:46 PM
2,4,5-Trichlorophenol	ND	10		µg/L	1	3/22/2010 6:42:46 PM
2,4,6-Trichlorophenol	ND	10		µg/L	1	3/22/2010 6:42:46 PM
Surr: 2,4,6-Tribromophenol	102	16.6-150		%REC	1	3/22/2010 6:42:46 PM
Surr: 2-Fluorobiphenyl	98.2	19.6-134		%REC	1	3/22/2010 6:42:46 PM

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Hall Environmental Analysis Laboratory, Inc.

Date: *29-Mar-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	OW-50
Lab Order:	1003408	**Collection Date:**	3/16/2010 10:49:00 AM
Project:	1st Qtr 2010	**Date Received:**	3/17/2010
Lab ID:	1003408-01	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **LBJ**
Surr: 2-Fluorophenol	63.0	9.54-113		%REC	1	3/22/2010 6:42:46 PM
Surr: 4-Terphenyl-d14	82.7	22.7-145		%REC	1	3/22/2010 6:42:46 PM
Surr: Nitrobenzene-d5	77.3	14.6-134		%REC	1	3/22/2010 6:42:46 PM
Surr: Phenol-d5	41.6	10.7-80.3		%REC	1	3/22/2010 6:42:46 PM
EPA METHOD 8260B: VOLATILES						Analyst: **DAM**
Benzene	ND	1.0		µg/L	1	3/19/2010 10:20:18 PM
Toluene	ND	1.0		µg/L	1	3/19/2010 10:20:18 PM
Ethylbenzene	ND	1.0		µg/L	1	3/19/2010 10:20:18 PM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	3/19/2010 10:20:18 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	3/19/2010 10:20:18 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	3/19/2010 10:20:18 PM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	3/19/2010 10:20:18 PM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	3/19/2010 10:20:18 PM
Naphthalene	ND	2.0		µg/L	1	3/19/2010 10:20:18 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	3/19/2010 10:20:18 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	3/19/2010 10:20:18 PM
Acetone	ND	10		µg/L	1	3/19/2010 10:20:18 PM
Bromobenzene	ND	1.0		µg/L	1	3/19/2010 10:20:18 PM
Bromodichloromethane	ND	1.0		µg/L	1	3/19/2010 10:20:18 PM
Bromoform	ND	1.0		µg/L	1	3/19/2010 10:20:18 PM
Bromomethane	ND	1.0		µg/L	1	3/19/2010 10:20:18 PM
2-Butanone	ND	10		µg/L	1	3/19/2010 10:20:18 PM
Carbon disulfide	ND	10		µg/L	1	3/19/2010 10:20:18 PM
Carbon Tetrachloride	ND	1.0		µg/L	1	3/19/2010 10:20:18 PM
Chlorobenzene	ND	1.0		µg/L	1	3/19/2010 10:20:18 PM
Chloroethane	ND	2.0		µg/L	1	3/19/2010 10:20:18 PM
Chloroform	ND	1.0		µg/L	1	3/19/2010 10:20:18 PM
Chloromethane	ND	1.0		µg/L	1	3/19/2010 10:20:18 PM
2-Chlorotoluene	ND	1.0		µg/L	1	3/19/2010 10:20:18 PM
4-Chlorotoluene	ND	1.0		µg/L	1	3/19/2010 10:20:18 PM
cis-1,2-DCE	ND	1.0		µg/L	1	3/19/2010 10:20:18 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	3/19/2010 10:20:18 PM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	3/19/2010 10:20:18 PM
Dibromochloromethane	ND	1.0		µg/L	1	3/19/2010 10:20:18 PM
Dibromomethane	ND	1.0		µg/L	1	3/19/2010 10:20:18 PM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	3/19/2010 10:20:18 PM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	3/19/2010 10:20:18 PM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	3/19/2010 10:20:18 PM
Dichlorodifluoromethane	ND	1.0		µg/L	1	3/19/2010 10:20:18 PM
1,1-Dichloroethane	ND	1.0		µg/L	1	3/19/2010 10:20:18 PM

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Date: *29-Mar-10*

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Date Received: 3/17/2010
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **DAM**
1,1-Dichloroethene	ND	1.0		µg/L	1	3/19/2010 10:20:18 PM
1,2-Dichloropropane	ND	1.0		µg/L	1	3/19/2010 10:20:18 PM
1,3-Dichloropropane	ND	1.0		µg/L	1	3/19/2010 10:20:18 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	3/19/2010 10:20:18 PM
1,1-Dichloropropene	ND	1.0		µg/L	1	3/19/2010 10:20:18 PM
Hexachlorobutadiene	ND	1.0		µg/L	1	3/19/2010 10:20:18 PM
2-Hexanone	ND	10		µg/L	1	3/19/2010 10:20:18 PM
Isopropylbenzene	ND	1.0		µg/L	1	3/19/2010 10:20:18 PM
4-Isopropyltoluene	ND	1.0		µg/L	1	3/19/2010 10:20:18 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	3/19/2010 10:20:18 PM
Methylene Chloride	ND	3.0		µg/L	1	3/19/2010 10:20:18 PM
n-Butylbenzene	ND	1.0		µg/L	1	3/19/2010 10:20:18 PM
n-Propylbenzene	ND	1.0		µg/L	1	3/19/2010 10:20:18 PM
sec-Butylbenzene	ND	1.0		µg/L	1	3/19/2010 10:20:18 PM
Styrene	ND	1.0		µg/L	1	3/19/2010 10:20:18 PM
tert-Butylbenzene	ND	1.0		µg/L	1	3/19/2010 10:20:18 PM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	3/19/2010 10:20:18 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	3/19/2010 10:20:18 PM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	3/19/2010 10:20:18 PM
trans-1,2-DCE	ND	1.0		µg/L	1	3/19/2010 10:20:18 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	3/19/2010 10:20:18 PM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	3/19/2010 10:20:18 PM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	3/19/2010 10:20:18 PM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	3/19/2010 10:20:18 PM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	3/19/2010 10:20:18 PM
Trichloroethene (TCE)	ND	1.0		µg/L	1	3/19/2010 10:20:18 PM
Trichlorofluoromethane	ND	1.0		µg/L	1	3/19/2010 10:20:18 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	3/19/2010 10:20:18 PM
Vinyl chloride	ND	1.0		µg/L	1	3/19/2010 10:20:18 PM
Xylenes, Total	ND	1.5		µg/L	1	3/19/2010 10:20:18 PM
Surr: 1,2-Dichloroethane-d4	93.1	54.6-141		%REC	1	3/19/2010 10:20:18 PM
Surr: 4-Bromofluorobenzene	115	60.1-133		%REC	1	3/19/2010 10:20:18 PM
Surr: Dibromofluoromethane	92.9	78.5-130		%REC	1	3/19/2010 10:20:18 PM
Surr: Toluene-d8	104	79.5-126		%REC	1	3/19/2010 10:20:18 PM
EPA 120.1: SPECIFIC CONDUCTANCE						Analyst: **NSB**
Specific Conductance	1000	0.010		µmhos/cm	1	3/18/2010 3:15:00 PM
SM4500-H+B: PH						Analyst: **NSB**
pH	8.34	0.1		pH units	1	3/18/2010 3:15:00 PM

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

Date: *29-Mar-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	Trip Blank
Lab Order:	1003408	**Collection Date:**	
Project:	1st Qtr 2010	**Date Received:**	3/17/2010
Lab ID:	1003408-02	**Matrix:**	TRIP BLANK

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **DAM**
Benzene	ND	1.0		µg/L	1	3/19/2010 10:48:34 PM
Toluene	ND	1.0		µg/L	1	3/19/2010 10:48:34 PM
Ethylbenzene	ND	1.0		µg/L	1	3/19/2010 10:48:34 PM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	3/19/2010 10:48:34 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	3/19/2010 10:48:34 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	3/19/2010 10:48:34 PM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	3/19/2010 10:48:34 PM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	3/19/2010 10:48:34 PM
Naphthalene	ND	2.0		µg/L	1	3/19/2010 10:48:34 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	3/19/2010 10:48:34 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	3/19/2010 10:48:34 PM
Acetone	ND	10		µg/L	1	3/19/2010 10:48:34 PM
Bromobenzene	ND	1.0		µg/L	1	3/19/2010 10:48:34 PM
Bromodichloromethane	ND	1.0		µg/L	1	3/19/2010 10:48:34 PM
Bromoform	ND	1.0		µg/L	1	3/19/2010 10:48:34 PM
Bromomethane	ND	1.0		µg/L	1	3/19/2010 10:48:34 PM
2-Butanone	ND	10		µg/L	1	3/19/2010 10:48:34 PM
Carbon disulfide	ND	10		µg/L	1	3/19/2010 10:48:34 PM
Carbon Tetrachloride	ND	1.0		µg/L	1	3/19/2010 10:48:34 PM
Chlorobenzene	ND	1.0		µg/L	1	3/19/2010 10:48:34 PM
Chloroethane	ND	2.0		µg/L	1	3/19/2010 10:48:34 PM
Chloroform	ND	1.0		µg/L	1	3/19/2010 10:48:34 PM
Chloromethane	ND	1.0		µg/L	1	3/19/2010 10:48:34 PM
2-Chlorotoluene	ND	1.0		µg/L	1	3/19/2010 10:48:34 PM
4-Chlorotoluene	ND	1.0		µg/L	1	3/19/2010 10:48:34 PM
cis-1,2-DCE	ND	1.0		µg/L	1	3/19/2010 10:48:34 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	3/19/2010 10:48:34 PM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	3/19/2010 10:48:34 PM
Dibromochloromethane	ND	1.0		µg/L	1	3/19/2010 10:48:34 PM
Dibromomethane	ND	1.0		µg/L	1	3/19/2010 10:48:34 PM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	3/19/2010 10:48:34 PM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	3/19/2010 10:48:34 PM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	3/19/2010 10:48:34 PM
Dichlorodifluoromethane	ND	1.0		µg/L	1	3/19/2010 10:48:34 PM
1,1-Dichloroethane	ND	1.0		µg/L	1	3/19/2010 10:48:34 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	3/19/2010 10:48:34 PM
1,2-Dichloropropane	ND	1.0		µg/L	1	3/19/2010 10:48:34 PM
1,3-Dichloropropane	ND	1.0		µg/L	1	3/19/2010 10:48:34 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	3/19/2010 10:48:34 PM
1,1-Dichloropropene	ND	1.0		µg/L	1	3/19/2010 10:48:34 PM
Hexachlorobutadiene	ND	1.0		µg/L	1	3/19/2010 10:48:34 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: *29-Mar-10*

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1003408
Project: 1st Qtr 2010
Lab ID: 1003408-02

Client Sample ID: Trip Blank
Collection Date:
Date Received: 3/17/2010
Matrix: TRIP BLANK

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **DAM**
2-Hexanone	ND	10		µg/L	1	3/19/2010 10:48:34 PM
Isopropylbenzene	ND	1.0		µg/L	1	3/19/2010 10:48:34 PM
4-Isopropyltoluene	ND	1.0		µg/L	1	3/19/2010 10:48:34 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	3/19/2010 10:48:34 PM
Methylene Chloride	ND	3.0		µg/L	1	3/19/2010 10:48:34 PM
n-Butylbenzene	ND	1.0		µg/L	1	3/19/2010 10:48:34 PM
n-Propylbenzene	ND	1.0		µg/L	1	3/19/2010 10:48:34 PM
sec-Butylbenzene	ND	1.0		µg/L	1	3/19/2010 10:48:34 PM
Styrene	ND	1.0		µg/L	1	3/19/2010 10:48:34 PM
tert-Butylbenzene	ND	1.0		µg/L	1	3/19/2010 10:48:34 PM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	3/19/2010 10:48:34 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	3/19/2010 10:48:34 PM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	3/19/2010 10:48:34 PM
trans-1,2-DCE	ND	1.0		µg/L	1	3/19/2010 10:48:34 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	3/19/2010 10:48:34 PM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	3/19/2010 10:48:34 PM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	3/19/2010 10:48:34 PM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	3/19/2010 10:48:34 PM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	3/19/2010 10:48:34 PM
Trichloroethene (TCE)	ND	1.0		µg/L	1	3/19/2010 10:48:34 PM
Trichlorofluoromethane	ND	1.0		µg/L	1	3/19/2010 10:48:34 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	3/19/2010 10:48:34 PM
Vinyl chloride	ND	1.0		µg/L	1	3/19/2010 10:48:34 PM
Xylenes, Total	ND	1.5		µg/L	1	3/19/2010 10:48:34 PM
Surr: 1,2-Dichloroethane-d4	90.8	54.6-141		%REC	1	3/19/2010 10:48:34 PM
Surr: 4-Bromofluorobenzene	109	60.1-133		%REC	1	3/19/2010 10:48:34 PM
Surr: Dibromofluoromethane	87.1	78.5-130		%REC	1	3/19/2010 10:48:34 PM
Surr: Toluene-d8	103	79.5-126		%REC	1	3/19/2010 10:48:34 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

Anatek Labs, Inc.

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Client: HALL ENVIRONMENTAL ANALYSIS LAB
Address: 4901 HAWKINS NE SUITE D
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Batch #: 100319021
Project Name: 1003408

Analytical Results Report

Sample Number 100319021-001 **Sampling Date** 3/16/2010 **Date/Time Received** 3/19/2010 10:20 AM
Client Sample ID 1003408-01D / OW-50 **Sampling Time** 10:49 AM
Matrix Water **Sample Location**
Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Uranium	0.00626	mg/L	0.001	3/24/2010	JTT	EPA 6020A	

Sample Number 100319021-002 **Sampling Date** 3/16/2010 **Date/Time Received** 3/19/2010 10:20 AM
Client Sample ID 1003408-01F / OW-50 **Sampling Time** 10:49 AM
Matrix Water **Sample Location**
Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Dissolved Uranium	0.00641	mg/L	0.001	3/24/2010	JTT	EPA 6020A	

Authorized Signature

John Coddington, Lab Manager

MCL EPA's Maximum Contaminant Level
ND Not Detected
PQL Practical Quantitation Limit

This report shall not be reproduced except in full, without the written approval of the laboratory.
The results reported relate only to the samples indicated.
Soil/solid results are reported on a dry-weight basis unless otherwise noted.

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C1320
Certifications held by Anatek Labs WA: EPA:WA00169; CA:Cert2632; ID:WA00169; WA:C1287; MT:Cert0095

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: 1st Qtr 2010 **Work Order:** 1003408

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:	**R37827**	Analysis Date:	3/17/2010 10:21:14 AM		
Fluoride	ND	mg/L	0.10								
Chloride	ND	mg/L	0.50								
Nitrogen, Nitrite (As N)	ND	mg/L	0.10								
Bromide	ND	mg/L	0.10								
Nitrogen, Nitrate (As N)	ND	mg/L	0.10								
Phosphorus, Orthophosphate (As P)	ND	mg/L	0.50								
Sulfate	ND	mg/L	0.50								
Sample ID: MB		*MBLK*				Batch ID:	**R37827**	Analysis Date:	3/18/2010 2:21:12 AM		
Fluoride	ND	mg/L	0.10								
Chloride	ND	mg/L	0.50								
Nitrogen, Nitrite (As N)	ND	mg/L	0.10								
Bromide	ND	mg/L	0.10								
Nitrogen, Nitrate (As N)	ND	mg/L	0.10								
Phosphorus, Orthophosphate (As P)	ND	mg/L	0.50								
Sulfate	ND	mg/L	0.50								
Sample ID: LCS		*LCS*				Batch ID:	**R37827**	Analysis Date:	3/17/2010 10:38:39 AM		
Fluoride	0.5410	mg/L	0.10	0.5	0	108	90	110			
Chloride	4.952	mg/L	0.50	5	0	99.0	90	110			
Nitrogen, Nitrite (As N)	1.000	mg/L	0.10	1	0	100	90	110			
Bromide	2.516	mg/L	0.10	2.5	0	101	90	110			
Nitrogen, Nitrate (As N)	2.542	mg/L	0.10	2.5	0	102	90	110			
Phosphorus, Orthophosphate (As P)	5.054	mg/L	0.50	5	0	101	90	110			
Sulfate	10.21	mg/L	0.50	10	0	102	90	110			
Sample ID: LCS		*LCS*				Batch ID:	**R37827**	Analysis Date:	3/18/2010 2:38:37 AM		
Chloride	5.158	mg/L	0.50	5	0	103	90	110			
Nitrogen, Nitrite (As N)	1.047	mg/L	0.10	1	0	105	90	110			
Bromide	2.606	mg/L	0.10	2.5	0	104	90	110			
Nitrogen, Nitrate (As N)	2.650	mg/L	0.10	2.5	0	106	90	110			
Phosphorus, Orthophosphate (As P)	5.304	mg/L	0.50	5	0	106	90	110			
Sulfate	10.68	mg/L	0.50	10	0	107	90	110			
Method: EPA Method 8015B: Diesel Range											
Sample ID: MB-21685		*MBLK*				Batch ID:	**21685**	Analysis Date:	3/21/2010 8:36:20 PM		
Diesel Range Organics (DRO)	ND	mg/L	1.0								
Motor Oil Range Organics (MRO)	ND	mg/L	5.0								
Sample ID: LCS-21685		*LCS*				Batch ID:	**21685**	Analysis Date:	3/21/2010 9:12:34 PM		
Diesel Range Organics (DRO)	7.632	mg/L	1.0	5	0	153	74	157			
Sample ID: LCSD-21685		*LCSD*				Batch ID:	**21685**	Analysis Date:	3/23/2010 3:15:31 PM		
Diesel Range Organics (DRO)	6.143	mg/L	1.0	5	0	123	74	157	21.6	23	

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: 1st Qtr 2010 **Work Order:** 1003408

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8015B: Gasoline Range											
Sample ID: 5ML RB		*MBLK*				Batch ID:	**R37912**	Analysis Date:		3/24/2010 8:36:12 AM	
Gasoline Range Organics (GRO)	ND	mg/L	0.050								
Sample ID: 2.5UG GRO LCS		*LCS*				Batch ID:	**R37912**	Analysis Date:		3/24/2010 6:17:10 PM	
Gasoline Range Organics (GRO)	0.5352	mg/L	0.050	0.5	0	107	80	115			
Sample ID: 2.5UG GRO LCSD		*LCSD*				Batch ID:	**R37912**	Analysis Date:		3/24/2010 6:47:31 PM	
Gasoline Range Organics (GRO)	0.5388	mg/L	0.050	0.5	0	108	80	115	0.670	8.39	

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: 1st Qtr 2010 **Work Order:** 1003408

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260B: VOLATILES											
Sample ID: 1003408-01a msd		*MSD*				Batch ID:	**R37844**	Analysis Date:		3/22/2010 12:14:00 PM	
Benzene	18.93	µg/L	1.0	20	0	94.6	75.7	118	2.16	15	
Toluene	21.76	µg/L	1.0	20	0	109	80.1	114	0.352	15	
Chlorobenzene	20.31	µg/L	1.0	20	0	102	81.5	112	0.773	15	
1,1-Dichloroethene	21.48	µg/L	1.0	20	0	107	77.4	132	2.64	17.8	
Trichloroethene (TCE)	18.61	µg/L	1.0	20	0	93.0	61.1	121	0.788	19.8	
Sample ID: b2		*MBLK*				Batch ID:	**R37844**	Analysis Date:		3/19/2010 9:11:09 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	1.0								
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	1.0								
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: 1st Qtr 2010 **Work Order:** 1003408

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260B: VOLATILES											
Sample ID: b2		*MBLK*				Batch ID:	**R37844**	Analysis Date:	3/19/2010 9:11:09 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: 100ng lcs		*LCS*				Batch ID:	**R37844**	Analysis Date:	3/19/2010 10:36:05 AM		
Benzene	19.60	µg/L	1.0	20	0	98.0	76.7	114			
Toluene	22.10	µg/L	1.0	20	0	111	78.4	117			
Chlorobenzene	20.71	µg/L	1.0	20	0	104	80.7	127			
1,1-Dichloroethene	22.96	µg/L	1.0	20	0	115	80.2	128			
Trichloroethene (TCE)	18.82	µg/L	1.0	20	0	94.1	77.4	115			
Sample ID: 1003408-01a ms		*MS*				Batch ID:	**R37844**	Analysis Date:	3/22/2010 11:45:42 AM		
Benzene	19.34	µg/L	1.0	20	0	96.7	75.7	118			
Toluene	21.84	µg/L	1.0	20	0	109	80.1	114			
Chlorobenzene	20.47	µg/L	1.0	20	0	102	81.5	112			
1,1-Dichloroethene	22.05	µg/L	1.0	20	0	110	77.4	132			
Trichloroethene (TCE)	18.46	µg/L	1.0	20	0	92.3	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: 1st Qtr 2010
Work Order: 1003408

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8270C: Semivolatiles											
Sample ID: mb-21702		*MBLK*									
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								

Batch ID: **21702** Analysis Date: 3/22/2010 3:44:51 PM

Qualifiers:

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

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: 1st Qtr 2010 **Work Order:** 1003408

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8270C: Semivolatiles											
Sample ID: mb-21702		*MBLK*				Batch ID:	**21702**	Analysis Date:	3/22/2010 3:44:51 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	10								
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-21702		*LCS*				Batch ID:	**21702**	Analysis Date:	3/22/2010 4:14:27 PM		
Acenaphthene	85.98	µg/L	10	100	0	86.0	33.2	88.1			
4-Chloro-3-methylphenol	204.6	µg/L	10	200	0	102	26.5	101			S
2-Chlorophenol	203.9	µg/L	10	200	0	102	27.5	88.7			S
1,4-Dichlorobenzene	85.74	µg/L	10	100	0	85.7	27.2	74.1			S
2,4-Dinitrotoluene	97.92	µg/L	10	100	0	97.9	32.6	107			
N-Nitrosodi-n-propylamine	101.9	µg/L	10	100	0	102	27.1	96.3			S
4-Nitrophenol	116.1	µg/L	10	200	0	58.0	6.78	74.7			
Pentachlorophenol	198.8	µg/L	20	200	3.76	97.5	14.8	113			
Phenol	123.5	µg/L	10	200	0	61.8	17	53.4			S
Pyrene	93.56	µg/L	10	100	0	93.6	27	96.3			
1,2,4-Trichlorobenzene	79.24	µg/L	10	100	0	79.2	30	77.9			S
Sample ID: lcsd-21702		*LCSD*				Batch ID:	**21702**	Analysis Date:	3/22/2010 4:44:07 PM		
Acenaphthene	84.08	µg/L	10	100	0	84.1	33.2	88.1	2.23	30.5	
4-Chloro-3-methylphenol	193.7	µg/L	10	200	0	96.9	26.5	101	5.46	28.6	
2-Chlorophenol	174.6	µg/L	10	200	0	87.3	27.5	88.7	15.5	107	
1,4-Dichlorobenzene	69.76	µg/L	10	100	0	69.8	27.2	74.1	20.6	62.1	
2,4-Dinitrotoluene	95.38	µg/L	10	100	0	95.4	32.6	107	2.63	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: 1st Qtr 2010
Work Order: 1003408

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8270C: Semivolatiles											
Sample ID: lcsd-21702		*LCSD*				Batch ID:	**21702**	Analysis Date:		3/22/2010 4:44:07 PM	
N-Nitrosodi-n-propylamine	84.06	µg/L	10	100	0	84.1	27.1	96.3	19.2	30.3	
4-Nitrophenol	120.8	µg/L	10	200	0	60.4	6.78	74.7	3.97	36.3	
Pentachlorophenol	179.0	µg/L	20	200	3.76	87.6	14.8	113	10.5	49	
Phenol	106.7	µg/L	10	200	0	53.3	17	53.4	14.6	52.4	
Pyrene	83.60	µg/L	10	100	0	83.6	27	96.3	11.2	16.3	
1,2,4-Trichlorobenzene	72.20	µg/L	10	100	0	72.2	30	77.9	9.30	36.4	
Method: EPA Method 7470: Mercury											
Sample ID: MB-21707		*MBLK*				Batch ID:	**21707**	Analysis Date:		3/22/2010 2:45:26 PM	
Mercury	ND	mg/L	0.00020								
Sample ID: LCS-21707		*LCS*				Batch ID:	**21707**	Analysis Date:		3/22/2010 2:47:11 PM	
Mercury	0.005217	mg/L	0.00020	0.005	2E-05	104	80	120			

Qualifiers:

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

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: 1st Qtr 2010 **Work Order:** 1003408

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual.
Method: EPA Method 6010B: Dissolved Metals											
Sample ID: MBLK		*MBLK*				Batch ID:	**R37871**	Analysis Date:	3/22/2010 12:17:47 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								
Zinc	ND	mg/L	0.050								
Sample ID: LCS		*LCS*				Batch ID:	**R37871**	Analysis Date:	3/22/2010 12:20:33 PM		
Arsenic	0.4759	mg/L	0.020	0.5	0	95.2	80	120			
Barium	0.4601	mg/L	0.020	0.5	0	92.0	80	120			
Cadmium	0.4742	mg/L	0.0020	0.5	0	94.8	80	120			
Calcium	48.08	mg/L	1.0	50.5	0	95.2	80	120			
Chromium	0.4674	mg/L	0.0060	0.5	0	93.5	80	120			
Copper	0.4937	mg/L	0.0060	0.5	0	98.7	80	120			
Iron	0.4712	mg/L	0.020	0.5	0	94.2	80	120			
Lead	0.4733	mg/L	0.0050	0.5	0	94.7	80	120			
Magnesium	48.32	mg/L	1.0	50.5	0	95.7	80	120			
Manganese	0.4618	mg/L	0.0020	0.5	0	92.4	80	120			
Potassium	51.31	mg/L	1.0	55	0	93.3	80	120			
Selenium	0.4608	mg/L	0.050	0.5	0	92.2	80	120			
Silver	0.4778	mg/L	0.0050	0.5	0	95.6	80	120			
Sodium	47.37	mg/L	1.0	50.5	0	93.8	80	120			
Zinc	0.4631	mg/L	0.050	0.5	0	92.6	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: 1st Qtr 2010
Work Order: 1003408

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA 6010B: Total Recoverable Metals											
Sample ID: MB-21728		*MBLK*				Batch ID:	**21728**	Analysis Date:	3/24/2010 11:30:15 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-21728		*LCS*				Batch ID:	**21728**	Analysis Date:	3/24/2010 11:33:05 AM		
Arsenic	0.5089	mg/L	0.020	0.5	0	102	80	120			
Barium	0.4950	mg/L	0.020	0.5	0	99.0	80	120			
Cadmium	0.5045	mg/L	0.0020	0.5	0	101	80	120			
Chromium	0.5052	mg/L	0.0060	0.5	0.0018	101	80	120			
Copper	0.5502	mg/L	0.0060	0.5	0	110	80	120			
Iron	0.5061	mg/L	0.050	0.5	0.0309	95.1	80	120			
Lead	0.4975	mg/L	0.0050	0.5	0	99.5	80	120			
Manganese	0.4987	mg/L	0.0020	0.5	0	99.7	80	120			
Selenium	0.4965	mg/L	0.050	0.5	0	99.3	80	120			
Silver	0.5044	mg/L	0.0050	0.5	0	101	80	120			
Zinc	0.4925	mg/L	0.020	0.5	0	98.5	80	120			
Sample ID: LCS-21728		*LCS*				Batch ID:	**21728**	Analysis Date:	3/24/2010 11:36:04 AM		
Arsenic	0.5077	mg/L	0.020	0.5	0	102	80	120			
Barium	0.4939	mg/L	0.020	0.5	0	98.8	80	120			
Cadmium	0.5015	mg/L	0.0020	0.5	0	100	80	120			
Chromium	0.5013	mg/L	0.0060	0.5	0.0018	99.9	80	120			
Copper	0.5510	mg/L	0.0060	0.5	0	110	80	120			
Iron	0.5101	mg/L	0.050	0.5	0.0309	95.8	80	120			
Lead	0.4984	mg/L	0.0050	0.5	0	99.7	80	120			
Manganese	0.4975	mg/L	0.0020	0.5	0	99.5	80	120			
Selenium	0.4973	mg/L	0.050	0.5	0	99.5	80	120			
Silver	0.5022	mg/L	0.0050	0.5	0	100	80	120			
Zinc	0.4915	mg/L	0.020	0.5	0	98.3	80	120			

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name **WESTERN REFINING GALLU**

Date Received: **3/17/2010**

Work Order Number **1003408**

Received by: ARS

Sample ID labels checked by: _____ Initials

Checklist completed by: _____ Signature 3/17/10 Date

Matrix:

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐	Not Shipped ☐
Custody seals intact on sample bottles?	Yes ☑	No ☐	N/A ☐	
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☑	No ☐	
Water - Preservation labels on bottle and cap match?	Yes ☑	No ☐	N/A ☐	
Water - pH acceptable upon receipt?	Yes ☑	No ☐	N/A ☐	
Container/Temp Blank temperature?	**5.3°**	*<6° C Acceptable* If given sufficient time to cool.		

Number of preserved bottles checked for pH: 5

<2 >12 unless noted below.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

Chain-of-Custody Record

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

Turn-Around Time:
☒ Standard ☐ Rush _____
Project Name: 1st QTR 2010
Project #: OW-50
Project Manager: G Rajen
Sampler: C. Johnson
On Ice: ☒ Yes ☐ No
Sample Temperature: 5.3

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. 1003965	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	W Dec Metals Total	W Dec Metals Diss.	Gen Chem		Air Bubbles (Y or
3/16/10	1049	H2O	OW-50	40ml (3)	HCl	1										X						
				40ml (3)	HCl	1			X													
				1L Amber	None	1											X					
				500ml (2)	HNO3	1												X				
				150ml (2)	HNO3	1													X			
				250ml (1)	None	1														X		
				500ml (1)	HNO3	1																
				125ml (1)	H2SO4	1																
			Trip Blank	40ml - 1		2																

Date:	Time:	Relinquished by:	Received by:	Date	Time	Remarks:
3/16/10	1245	[signature]	[signature]	3/17/10	8:55	GenChem: Cations, Anions, pH Conductivity
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, March 29, 2010

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

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

RE: 2010 1st QTR

Order No.: 1003643

Dear Gaurav Rajen:

Hall Environmental Analysis Laboratory, Inc. received 5 sample(s) on 3/26/2010 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: *29-Mar-10*

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1003643
Project: 2010 1st QTR
Lab ID: 1003643-01

Client Sample ID: OW-30
Collection Date: 3/24/2010 2:40:00 PM
Date Received: 3/26/2010
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
						Analyst: HL
EPA METHOD 8260B: VOLATILES						
Benzene	ND	5.0		µg/L	5	3/26/2010 4:05:22 PM
Toluene	ND	5.0		µg/L	5	3/26/2010 4:05:22 PM
Ethylbenzene	ND	5.0		µg/L	5	3/26/2010 4:05:22 PM
Methyl tert-butyl ether (MTBE)	1100	20		µg/L	20	3/26/2010 3:37:52 PM
1,2,4-Trimethylbenzene	ND	5.0		µg/L	5	3/26/2010 4:05:22 PM
1,3,5-Trimethylbenzene	ND	5.0		µg/L	5	3/26/2010 4:05:22 PM
1,2-Dichloroethane (EDC)	ND	5.0		µg/L	5	3/26/2010 4:05:22 PM
1,2-Dibromoethane (EDB)	ND	5.0		µg/L	5	3/26/2010 4:05:22 PM
Naphthalene	ND	10		µg/L	5	3/26/2010 4:05:22 PM
1-Methylnaphthalene	ND	20		µg/L	5	3/26/2010 4:05:22 PM
2-Methylnaphthalene	ND	20		µg/L	5	3/26/2010 4:05:22 PM
Acetone	ND	50		µg/L	5	3/26/2010 4:05:22 PM
Bromobenzene	ND	5.0		µg/L	5	3/26/2010 4:05:22 PM
Bromodichloromethane	ND	5.0		µg/L	5	3/26/2010 4:05:22 PM
Bromoform	ND	5.0		µg/L	5	3/26/2010 4:05:22 PM
Bromomethane	ND	5.0		µg/L	5	3/26/2010 4:05:22 PM
2-Butanone	ND	50		µg/L	5	3/26/2010 4:05:22 PM
Carbon disulfide	ND	50		µg/L	5	3/26/2010 4:05:22 PM
Carbon Tetrachloride	ND	5.0		µg/L	5	3/26/2010 4:05:22 PM
Chlorobenzene	ND	5.0		µg/L	5	3/26/2010 4:05:22 PM
Chloroethane	ND	10		µg/L	5	3/26/2010 4:05:22 PM
Chloroform	ND	5.0		µg/L	5	3/26/2010 4:05:22 PM
Chloromethane	ND	5.0		µg/L	5	3/26/2010 4:05:22 PM
2-Chlorotoluene	ND	5.0		µg/L	5	3/26/2010 4:05:22 PM
4-Chlorotoluene	ND	5.0		µg/L	5	3/26/2010 4:05:22 PM
cis-1,2-DCE	ND	5.0		µg/L	5	3/26/2010 4:05:22 PM
cis-1,3-Dichloropropene	ND	5.0		µg/L	5	3/26/2010 4:05:22 PM
1,2-Dibromo-3-chloropropane	ND	10		µg/L	5	3/26/2010 4:05:22 PM
Dibromochloromethane	ND	5.0		µg/L	5	3/26/2010 4:05:22 PM
Dibromomethane	ND	5.0		µg/L	5	3/26/2010 4:05:22 PM
1,2-Dichlorobenzene	ND	5.0		µg/L	5	3/26/2010 4:05:22 PM
1,3-Dichlorobenzene	ND	5.0		µg/L	5	3/26/2010 4:05:22 PM
1,4-Dichlorobenzene	ND	5.0		µg/L	5	3/26/2010 4:05:22 PM
Dichlorodifluoromethane	ND	5.0		µg/L	5	3/26/2010 4:05:22 PM
1,1-Dichloroethane	ND	5.0		µg/L	5	3/26/2010 4:05:22 PM
1,1-Dichloroethene	ND	5.0		µg/L	5	3/26/2010 4:05:22 PM
1,2-Dichloropropane	ND	5.0		µg/L	5	3/26/2010 4:05:22 PM
1,3-Dichloropropane	ND	5.0		µg/L	5	3/26/2010 4:05:22 PM
2,2-Dichloropropane	ND	10		µg/L	5	3/26/2010 4:05:22 PM
1,1-Dichloropropene	ND	5.0		µg/L	5	3/26/2010 4:05:22 PM
Hexachlorobutadiene	ND	5.0		µg/L	5	3/26/2010 4:05:22 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: *29-Mar-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	OW-30
Lab Order:	1003643	**Collection Date:**	3/24/2010 2:40:00 PM
Project:	2010 1st QTR	**Date Received:**	3/26/2010
Lab ID:	1003643-01	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **HL**
2-Hexanone	ND	50		µg/L	5	3/26/2010 4:05:22 PM
Isopropylbenzene	ND	5.0		µg/L	5	3/26/2010 4:05:22 PM
4-Isopropyltoluene	ND	5.0		µg/L	5	3/26/2010 4:05:22 PM
4-Methyl-2-pentanone	ND	50		µg/L	5	3/26/2010 4:05:22 PM
Methylene Chloride	ND	15		µg/L	5	3/26/2010 4:05:22 PM
n-Butylbenzene	ND	5.0		µg/L	5	3/26/2010 4:05:22 PM
n-Propylbenzene	ND	5.0		µg/L	5	3/26/2010 4:05:22 PM
sec-Butylbenzene	ND	5.0		µg/L	5	3/26/2010 4:05:22 PM
Styrene	ND	5.0		µg/L	5	3/26/2010 4:05:22 PM
tert-Butylbenzene	ND	5.0		µg/L	5	3/26/2010 4:05:22 PM
1,1,1,2-Tetrachloroethane	ND	5.0		µg/L	5	3/26/2010 4:05:22 PM
1,1,2,2-Tetrachloroethane	ND	10		µg/L	5	3/26/2010 4:05:22 PM
Tetrachloroethene (PCE)	ND	5.0		µg/L	5	3/26/2010 4:05:22 PM
trans-1,2-DCE	ND	5.0		µg/L	5	3/26/2010 4:05:22 PM
trans-1,3-Dichloropropene	ND	5.0		µg/L	5	3/26/2010 4:05:22 PM
1,2,3-Trichlorobenzene	ND	5.0		µg/L	5	3/26/2010 4:05:22 PM
1,2,4-Trichlorobenzene	ND	5.0		µg/L	5	3/26/2010 4:05:22 PM
1,1,1-Trichloroethane	ND	5.0		µg/L	5	3/26/2010 4:05:22 PM
1,1,2-Trichloroethane	ND	5.0		µg/L	5	3/26/2010 4:05:22 PM
Trichloroethene (TCE)	ND	5.0		µg/L	5	3/26/2010 4:05:22 PM
Trichlorofluoromethane	ND	5.0		µg/L	5	3/26/2010 4:05:22 PM
1,2,3-Trichloropropane	ND	10		µg/L	5	3/26/2010 4:05:22 PM
Vinyl chloride	ND	5.0		µg/L	5	3/26/2010 4:05:22 PM
Xylenes, Total	ND	7.5		µg/L	5	3/26/2010 4:05:22 PM
Surr: 1,2-Dichloroethane-d4	103	54.6-141		%REC	5	3/26/2010 4:05:22 PM
Surr: 4-Bromofluorobenzene	122	60.1-133		%REC	5	3/26/2010 4:05:22 PM
Surr: Dibromofluoromethane	109	78.5-130		%REC	5	3/26/2010 4:05:22 PM
Surr: Toluene-d8	111	79.5-126		%REC	5	3/26/2010 4:05:22 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: *29-Mar-10*

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1003643
Project: 2010 1st QTR
Lab ID: 1003643-02

Client Sample ID: OW-14
Collection Date: 3/24/2010 3:38:00 PM
Date Received: 3/26/2010
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
						Analyst: HL
EPA METHOD 8260B: VOLATILES						
Benzene	250	5.0		µg/L	5	3/26/2010 5:28:28 PM
Toluene	ND	5.0		µg/L	5	3/26/2010 5:28:28 PM
Ethylbenzene	10	5.0		µg/L	5	3/26/2010 5:28:28 PM
Methyl tert-butyl ether (MTBE)	1500	20		µg/L	20	3/26/2010 5:00:44 PM
1,2,4-Trimethylbenzene	ND	5.0		µg/L	5	3/26/2010 5:28:28 PM
1,3,5-Trimethylbenzene	ND	5.0		µg/L	5	3/26/2010 5:28:28 PM
1,2-Dichloroethane (EDC)	ND	5.0		µg/L	5	3/26/2010 5:28:28 PM
1,2-Dibromoethane (EDB)	ND	5.0		µg/L	5	3/26/2010 5:28:28 PM
Naphthalene	ND	10		µg/L	5	3/26/2010 5:28:28 PM
1-Methylnaphthalene	ND	20		µg/L	5	3/26/2010 5:28:28 PM
2-Methylnaphthalene	ND	20		µg/L	5	3/26/2010 5:28:28 PM
Acetone	ND	50		µg/L	5	3/26/2010 5:28:28 PM
Bromobenzene	ND	5.0		µg/L	5	3/26/2010 5:28:28 PM
Bromodichloromethane	ND	5.0		µg/L	5	3/26/2010 5:28:28 PM
Bromoform	ND	5.0		µg/L	5	3/26/2010 5:28:28 PM
Bromomethane	ND	5.0		µg/L	5	3/26/2010 5:28:28 PM
2-Butanone	ND	50		µg/L	5	3/26/2010 5:28:28 PM
Carbon disulfide	ND	50		µg/L	5	3/26/2010 5:28:28 PM
Carbon Tetrachloride	ND	5.0		µg/L	5	3/26/2010 5:28:28 PM
Chlorobenzene	ND	5.0		µg/L	5	3/26/2010 5:28:28 PM
Chloroethane	ND	10		µg/L	5	3/26/2010 5:28:28 PM
Chloroform	ND	5.0		µg/L	5	3/26/2010 5:28:28 PM
Chloromethane	ND	5.0		µg/L	5	3/26/2010 5:28:28 PM
2-Chlorotoluene	ND	5.0		µg/L	5	3/26/2010 5:28:28 PM
4-Chlorotoluene	ND	5.0		µg/L	5	3/26/2010 5:28:28 PM
cis-1,2-DCE	ND	5.0		µg/L	5	3/26/2010 5:28:28 PM
cis-1,3-Dichloropropene	ND	5.0		µg/L	5	3/26/2010 5:28:28 PM
1,2-Dibromo-3-chloropropane	ND	10		µg/L	5	3/26/2010 5:28:28 PM
Dibromochloromethane	ND	5.0		µg/L	5	3/26/2010 5:28:28 PM
Dibromomethane	ND	5.0		µg/L	5	3/26/2010 5:28:28 PM
1,2-Dichlorobenzene	ND	5.0		µg/L	5	3/26/2010 5:28:28 PM
1,3-Dichlorobenzene	ND	5.0		µg/L	5	3/26/2010 5:28:28 PM
1,4-Dichlorobenzene	ND	5.0		µg/L	5	3/26/2010 5:28:28 PM
Dichlorodifluoromethane	ND	5.0		µg/L	5	3/26/2010 5:28:28 PM
1,1-Dichloroethane	ND	5.0		µg/L	5	3/26/2010 5:28:28 PM
1,1-Dichloroethene	ND	5.0		µg/L	5	3/26/2010 5:28:28 PM
1,2-Dichloropropane	ND	5.0		µg/L	5	3/26/2010 5:28:28 PM
1,3-Dichloropropane	ND	5.0		µg/L	5	3/26/2010 5:28:28 PM
2,2-Dichloropropane	ND	10		µg/L	5	3/26/2010 5:28:28 PM
1,1-Dichloropropene	ND	5.0		µg/L	5	3/26/2010 5:28:28 PM
Hexachlorobutadiene	ND	5.0		µg/L	5	3/26/2010 5:28:28 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: *29-Mar-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	OW-14
Lab Order:	1003643	**Collection Date:**	3/24/2010 3:38:00 PM
Project:	2010 1st QTR	**Date Received:**	3/26/2010
Lab ID:	1003643-02	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: HL
2-Hexanone	ND	50		µg/L	5	3/26/2010 5:28:28 PM
Isopropylbenzene	ND	5.0		µg/L	5	3/26/2010 5:28:28 PM
4-Isopropyltoluene	ND	5.0		µg/L	5	3/26/2010 5:28:28 PM
4-Methyl-2-pentanone	ND	50		µg/L	5	3/26/2010 5:28:28 PM
Methylene Chloride	ND	15		µg/L	5	3/26/2010 5:28:28 PM
n-Butylbenzene	ND	5.0		µg/L	5	3/26/2010 5:28:28 PM
n-Propylbenzene	ND	5.0		µg/L	5	3/26/2010 5:28:28 PM
sec-Butylbenzene	ND	5.0		µg/L	5	3/26/2010 5:28:28 PM
Styrene	ND	5.0		µg/L	5	3/26/2010 5:28:28 PM
tert-Butylbenzene	ND	5.0		µg/L	5	3/26/2010 5:28:28 PM
1,1,1,2-Tetrachloroethane	ND	5.0		µg/L	5	3/26/2010 5:28:28 PM
1,1,2,2-Tetrachloroethane	ND	10		µg/L	5	3/26/2010 5:28:28 PM
Tetrachloroethene (PCE)	ND	5.0		µg/L	5	3/26/2010 5:28:28 PM
trans-1,2-DCE	ND	5.0		µg/L	5	3/26/2010 5:28:28 PM
trans-1,3-Dichloropropene	ND	5.0		µg/L	5	3/26/2010 5:28:28 PM
1,2,3-Trichlorobenzene	ND	5.0		µg/L	5	3/26/2010 5:28:28 PM
1,2,4-Trichlorobenzene	ND	5.0		µg/L	5	3/26/2010 5:28:28 PM
1,1,1-Trichloroethane	ND	5.0		µg/L	5	3/26/2010 5:28:28 PM
1,1,2-Trichloroethane	ND	5.0		µg/L	5	3/26/2010 5:28:28 PM
Trichloroethene (TCE)	ND	5.0		µg/L	5	3/26/2010 5:28:28 PM
Trichlorofluoromethane	ND	5.0		µg/L	5	3/26/2010 5:28:28 PM
1,2,3-Trichloropropane	ND	10		µg/L	5	3/26/2010 5:28:28 PM
Vinyl chloride	ND	5.0		µg/L	5	3/26/2010 5:28:28 PM
Xylenes, Total	ND	7.5		µg/L	5	3/26/2010 5:28:28 PM
Surr: 1,2-Dichloroethane-d4	109	54.6-141		%REC	5	3/26/2010 5:28:28 PM
Surr: 4-Bromofluorobenzene	116	60.1-133		%REC	5	3/26/2010 5:28:28 PM
Surr: Dibromofluoromethane	114	78.5-130		%REC	5	3/26/2010 5:28:28 PM
Surr: Toluene-d8	109	79.5-126		%REC	5	3/26/2010 5:28:28 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: *29-Mar-10*

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1003643
Project: 2010 1st QTR
Lab ID: 1003643-03

Client Sample ID: OW-29
Collection Date: 3/25/2010 10:02:00 AM
Date Received: 3/26/2010
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
						Analyst: HL
EPA METHOD 8260B: VOLATILES						
Benzene	ND	1.0		µg/L	1	3/26/2010 6:23:38 PM
Toluene	ND	1.0		µg/L	1	3/26/2010 6:23:38 PM
Ethylbenzene	ND	1.0		µg/L	1	3/26/2010 6:23:38 PM
Methyl tert-butyl ether (MTBE)	120	1.0		µg/L	1	3/26/2010 6:23:38 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	3/26/2010 6:23:38 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	3/26/2010 6:23:38 PM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	3/26/2010 6:23:38 PM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	3/26/2010 6:23:38 PM
Naphthalene	ND	2.0		µg/L	1	3/26/2010 6:23:38 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	3/26/2010 6:23:38 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	3/26/2010 6:23:38 PM
Acetone	ND	10		µg/L	1	3/26/2010 6:23:38 PM
Bromobenzene	ND	1.0		µg/L	1	3/26/2010 6:23:38 PM
Bromodichloromethane	ND	1.0		µg/L	1	3/26/2010 6:23:38 PM
Bromoform	ND	1.0		µg/L	1	3/26/2010 6:23:38 PM
Bromomethane	ND	1.0		µg/L	1	3/26/2010 6:23:38 PM
2-Butanone	ND	10		µg/L	1	3/26/2010 6:23:38 PM
Carbon disulfide	ND	10		µg/L	1	3/26/2010 6:23:38 PM
Carbon Tetrachloride	ND	1.0		µg/L	1	3/26/2010 6:23:38 PM
Chlorobenzene	ND	1.0		µg/L	1	3/26/2010 6:23:38 PM
Chloroethane	ND	2.0		µg/L	1	3/26/2010 6:23:38 PM
Chloroform	ND	1.0		µg/L	1	3/26/2010 6:23:38 PM
Chloromethane	ND	1.0		µg/L	1	3/26/2010 6:23:38 PM
2-Chlorotoluene	ND	1.0		µg/L	1	3/26/2010 6:23:38 PM
4-Chlorotoluene	ND	1.0		µg/L	1	3/26/2010 6:23:38 PM
cis-1,2-DCE	ND	1.0		µg/L	1	3/26/2010 6:23:38 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	3/26/2010 6:23:38 PM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	3/26/2010 6:23:38 PM
Dibromochloromethane	ND	1.0		µg/L	1	3/26/2010 6:23:38 PM
Dibromomethane	ND	1.0		µg/L	1	3/26/2010 6:23:38 PM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	3/26/2010 6:23:38 PM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	3/26/2010 6:23:38 PM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	3/26/2010 6:23:38 PM
Dichlorodifluoromethane	ND	1.0		µg/L	1	3/26/2010 6:23:38 PM
1,1-Dichloroethane	ND	1.0		µg/L	1	3/26/2010 6:23:38 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	3/26/2010 6:23:38 PM
1,2-Dichloropropane	ND	1.0		µg/L	1	3/26/2010 6:23:38 PM
1,3-Dichloropropane	ND	1.0		µg/L	1	3/26/2010 6:23:38 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	3/26/2010 6:23:38 PM
1,1-Dichloropropene	ND	1.0		µg/L	1	3/26/2010 6:23:38 PM
Hexachlorobutadiene	ND	1.0		µg/L	1	3/26/2010 6:23:38 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: *29-Mar-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	OW-29
Lab Order:	1003643	**Collection Date:**	3/25/2010 10:02:00 AM
Project:	2010 1st QTR	**Date Received:**	3/26/2010
Lab ID:	1003643-03	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: HL
2-Hexanone	ND	10		µg/L	1	3/26/2010 6:23:38 PM
Isopropylbenzene	ND	1.0		µg/L	1	3/26/2010 6:23:38 PM
4-Isopropyltoluene	ND	1.0		µg/L	1	3/26/2010 6:23:38 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	3/26/2010 6:23:38 PM
Methylene Chloride	ND	3.0		µg/L	1	3/26/2010 6:23:38 PM
n-Butylbenzene	ND	1.0		µg/L	1	3/26/2010 6:23:38 PM
n-Propylbenzene	ND	1.0		µg/L	1	3/26/2010 6:23:38 PM
sec-Butylbenzene	ND	1.0		µg/L	1	3/26/2010 6:23:38 PM
Styrene	ND	1.0		µg/L	1	3/26/2010 6:23:38 PM
tert-Butylbenzene	ND	1.0		µg/L	1	3/26/2010 6:23:38 PM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	3/26/2010 6:23:38 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	3/26/2010 6:23:38 PM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	3/26/2010 6:23:38 PM
trans-1,2-DCE	ND	1.0		µg/L	1	3/26/2010 6:23:38 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	3/26/2010 6:23:38 PM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	3/26/2010 6:23:38 PM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	3/26/2010 6:23:38 PM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	3/26/2010 6:23:38 PM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	3/26/2010 6:23:38 PM
Trichloroethene (TCE)	ND	1.0		µg/L	1	3/26/2010 6:23:38 PM
Trichlorofluoromethane	ND	1.0		µg/L	1	3/26/2010 6:23:38 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	3/26/2010 6:23:38 PM
Vinyl chloride	ND	1.0		µg/L	1	3/26/2010 6:23:38 PM
Xylenes, Total	ND	1.5		µg/L	1	3/26/2010 6:23:38 PM
Surr: 1,2-Dichloroethane-d4	108	54.6-141		%REC	1	3/26/2010 6:23:38 PM
Surr: 4-Bromofluorobenzene	110	60.1-133		%REC	1	3/26/2010 6:23:38 PM
Surr: Dibromofluoromethane	112	78.5-130		%REC	1	3/26/2010 6:23:38 PM
Surr: Toluene-d8	109	79.5-126		%REC	1	3/26/2010 6:23:38 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: *29-Mar-10*

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1003643
Project: 2010 1st QTR
Lab ID: 1003643-04

Client Sample ID: OW-13
Collection Date: 3/25/2010 2:52:00 PM
Date Received: 3/26/2010
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
						Analyst: HL
EPA METHOD 8260B: VOLATILES						
Benzene	ND	1.0		µg/L	1	3/26/2010 6:51:07 PM
Toluene	ND	1.0		µg/L	1	3/26/2010 6:51:07 PM
Ethylbenzene	ND	1.0		µg/L	1	3/26/2010 6:51:07 PM
Methyl tert-butyl ether (MTBE)	2.3	1.0		µg/L	1	3/26/2010 6:51:07 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	3/26/2010 6:51:07 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	3/26/2010 6:51:07 PM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	3/26/2010 6:51:07 PM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	3/26/2010 6:51:07 PM
Naphthalene	ND	2.0		µg/L	1	3/26/2010 6:51:07 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	3/26/2010 6:51:07 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	3/26/2010 6:51:07 PM
Acetone	ND	10		µg/L	1	3/26/2010 6:51:07 PM
Bromobenzene	ND	1.0		µg/L	1	3/26/2010 6:51:07 PM
Bromodichloromethane	ND	1.0		µg/L	1	3/26/2010 6:51:07 PM
Bromoform	ND	1.0		µg/L	1	3/26/2010 6:51:07 PM
Bromomethane	ND	1.0		µg/L	1	3/26/2010 6:51:07 PM
2-Butanone	ND	10		µg/L	1	3/26/2010 6:51:07 PM
Carbon disulfide	ND	10		µg/L	1	3/26/2010 6:51:07 PM
Carbon Tetrachloride	ND	1.0		µg/L	1	3/26/2010 6:51:07 PM
Chlorobenzene	ND	1.0		µg/L	1	3/26/2010 6:51:07 PM
Chloroethane	ND	2.0		µg/L	1	3/26/2010 6:51:07 PM
Chloroform	ND	1.0		µg/L	1	3/26/2010 6:51:07 PM
Chloromethane	ND	1.0		µg/L	1	3/26/2010 6:51:07 PM
2-Chlorotoluene	ND	1.0		µg/L	1	3/26/2010 6:51:07 PM
4-Chlorotoluene	ND	1.0		µg/L	1	3/26/2010 6:51:07 PM
cis-1,2-DCE	ND	1.0		µg/L	1	3/26/2010 6:51:07 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	3/26/2010 6:51:07 PM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	3/26/2010 6:51:07 PM
Dibromochloromethane	ND	1.0		µg/L	1	3/26/2010 6:51:07 PM
Dibromomethane	ND	1.0		µg/L	1	3/26/2010 6:51:07 PM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	3/26/2010 6:51:07 PM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	3/26/2010 6:51:07 PM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	3/26/2010 6:51:07 PM
Dichlorodifluoromethane	ND	1.0		µg/L	1	3/26/2010 6:51:07 PM
1,1-Dichloroethane	ND	1.0		µg/L	1	3/26/2010 6:51:07 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	3/26/2010 6:51:07 PM
1,2-Dichloropropane	ND	1.0		µg/L	1	3/26/2010 6:51:07 PM
1,3-Dichloropropane	ND	1.0		µg/L	1	3/26/2010 6:51:07 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	3/26/2010 6:51:07 PM
1,1-Dichloropropene	ND	1.0		µg/L	1	3/26/2010 6:51:07 PM
Hexachlorobutadiene	ND	1.0		µg/L	1	3/26/2010 6:51:07 PM

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

Date: *29-Mar-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	OW-13
Lab Order:	1003643	**Collection Date:**	3/25/2010 2:52:00 PM
Project:	2010 1st QTR	**Date Received:**	3/26/2010
Lab ID:	1003643-04	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **HL**
2-Hexanone	ND	10		µg/L	1	3/26/2010 6:51:07 PM
Isopropylbenzene	ND	1.0		µg/L	1	3/26/2010 6:51:07 PM
4-Isopropyltoluene	ND	1.0		µg/L	1	3/26/2010 6:51:07 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	3/26/2010 6:51:07 PM
Methylene Chloride	ND	3.0		µg/L	1	3/26/2010 6:51:07 PM
n-Butylbenzene	ND	1.0		µg/L	1	3/26/2010 6:51:07 PM
n-Propylbenzene	ND	1.0		µg/L	1	3/26/2010 6:51:07 PM
sec-Butylbenzene	ND	1.0		µg/L	1	3/26/2010 6:51:07 PM
Styrene	ND	1.0		µg/L	1	3/26/2010 6:51:07 PM
tert-Butylbenzene	ND	1.0		µg/L	1	3/26/2010 6:51:07 PM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	3/26/2010 6:51:07 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	3/26/2010 6:51:07 PM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	3/26/2010 6:51:07 PM
trans-1,2-DCE	ND	1.0		µg/L	1	3/26/2010 6:51:07 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	3/26/2010 6:51:07 PM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	3/26/2010 6:51:07 PM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	3/26/2010 6:51:07 PM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	3/26/2010 6:51:07 PM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	3/26/2010 6:51:07 PM
Trichloroethene (TCE)	ND	1.0		µg/L	1	3/26/2010 6:51:07 PM
Trichlorofluoromethane	ND	1.0		µg/L	1	3/26/2010 6:51:07 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	3/26/2010 6:51:07 PM
Vinyl chloride	ND	1.0		µg/L	1	3/26/2010 6:51:07 PM
Xylenes, Total	ND	1.5		µg/L	1	3/26/2010 6:51:07 PM
Surr: 1,2-Dichloroethane-d4	104	54.6-141		%REC	1	3/26/2010 6:51:07 PM
Surr: 4-Bromofluorobenzene	113	60.1-133		%REC	1	3/26/2010 6:51:07 PM
Surr: Dibromofluoromethane	111	78.5-130		%REC	1	3/26/2010 6:51:07 PM
Surr: Toluene-d8	112	79.5-126		%REC	1	3/26/2010 6:51:07 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: *29-Mar-10*

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1003643
Project: 2010 1st QTR
Lab ID: 1003643-05

Client Sample ID: TRIP BLANK
Collection Date:
Date Received: 3/26/2010
Matrix: TRIP BLANK

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: HL
Benzene	ND	1.0		µg/L	1	3/26/2010 8:13:36 PM
Toluene	ND	1.0		µg/L	1	3/26/2010 8:13:36 PM
Ethylbenzene	ND	1.0		µg/L	1	3/26/2010 8:13:36 PM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	3/26/2010 8:13:36 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	3/26/2010 8:13:36 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	3/26/2010 8:13:36 PM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	3/26/2010 8:13:36 PM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	3/26/2010 8:13:36 PM
Naphthalene	ND	2.0		µg/L	1	3/26/2010 8:13:36 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	3/26/2010 8:13:36 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	3/26/2010 8:13:36 PM
Acetone	ND	10		µg/L	1	3/26/2010 8:13:36 PM
Bromobenzene	ND	1.0		µg/L	1	3/26/2010 8:13:36 PM
Bromodichloromethane	ND	1.0		µg/L	1	3/26/2010 8:13:36 PM
Bromoform	ND	1.0		µg/L	1	3/26/2010 8:13:36 PM
Bromomethane	ND	1.0		µg/L	1	3/26/2010 8:13:36 PM
2-Butanone	ND	10		µg/L	1	3/26/2010 8:13:36 PM
Carbon disulfide	ND	10		µg/L	1	3/26/2010 8:13:36 PM
Carbon Tetrachloride	ND	1.0		µg/L	1	3/26/2010 8:13:36 PM
Chlorobenzene	ND	1.0		µg/L	1	3/26/2010 8:13:36 PM
Chloroethane	ND	2.0		µg/L	1	3/26/2010 8:13:36 PM
Chloroform	ND	1.0		µg/L	1	3/26/2010 8:13:36 PM
Chloromethane	ND	1.0		µg/L	1	3/26/2010 8:13:36 PM
2-Chlorotoluene	ND	1.0		µg/L	1	3/26/2010 8:13:36 PM
4-Chlorotoluene	ND	1.0		µg/L	1	3/26/2010 8:13:36 PM
cis-1,2-DCE	ND	1.0		µg/L	1	3/26/2010 8:13:36 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	3/26/2010 8:13:36 PM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	3/26/2010 8:13:36 PM
Dibromochloromethane	ND	1.0		µg/L	1	3/26/2010 8:13:36 PM
Dibromomethane	ND	1.0		µg/L	1	3/26/2010 8:13:36 PM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	3/26/2010 8:13:36 PM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	3/26/2010 8:13:36 PM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	3/26/2010 8:13:36 PM
Dichlorodifluoromethane	ND	1.0		µg/L	1	3/26/2010 8:13:36 PM
1,1-Dichloroethane	ND	1.0		µg/L	1	3/26/2010 8:13:36 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	3/26/2010 8:13:36 PM
1,2-Dichloropropane	ND	1.0		µg/L	1	3/26/2010 8:13:36 PM
1,3-Dichloropropane	ND	1.0		µg/L	1	3/26/2010 8:13:36 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	3/26/2010 8:13:36 PM
1,1-Dichloropropene	ND	1.0		µg/L	1	3/26/2010 8:13:36 PM
Hexachlorobutadiene	ND	1.0		µg/L	1	3/26/2010 8:13:36 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: *29-Mar-10*

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1003643
Project: 2010 1st QTR
Lab ID: 1003643-05

Client Sample ID: TRIP BLANK
Collection Date:
Date Received: 3/26/2010
Matrix: TRIP BLANK

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: HL
2-Hexanone	ND	10		µg/L	1	3/26/2010 8:13:36 PM
Isopropylbenzene	ND	1.0		µg/L	1	3/26/2010 8:13:36 PM
4-Isopropyltoluene	ND	1.0		µg/L	1	3/26/2010 8:13:36 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	3/26/2010 8:13:36 PM
Methylene Chloride	ND	3.0		µg/L	1	3/26/2010 8:13:36 PM
n-Butylbenzene	ND	1.0		µg/L	1	3/26/2010 8:13:36 PM
n-Propylbenzene	ND	1.0		µg/L	1	3/26/2010 8:13:36 PM
sec-Butylbenzene	ND	1.0		µg/L	1	3/26/2010 8:13:36 PM
Styrene	ND	1.0		µg/L	1	3/26/2010 8:13:36 PM
tert-Butylbenzene	ND	1.0		µg/L	1	3/26/2010 8:13:36 PM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	3/26/2010 8:13:36 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	3/26/2010 8:13:36 PM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	3/26/2010 8:13:36 PM
trans-1,2-DCE	ND	1.0		µg/L	1	3/26/2010 8:13:36 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	3/26/2010 8:13:36 PM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	3/26/2010 8:13:36 PM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	3/26/2010 8:13:36 PM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	3/26/2010 8:13:36 PM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	3/26/2010 8:13:36 PM
Trichloroethene (TCE)	ND	1.0		µg/L	1	3/26/2010 8:13:36 PM
Trichlorofluoromethane	ND	1.0		µg/L	1	3/26/2010 8:13:36 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	3/26/2010 8:13:36 PM
Vinyl chloride	ND	1.0		µg/L	1	3/26/2010 8:13:36 PM
Xylenes, Total	ND	1.5		µg/L	1	3/26/2010 8:13:36 PM
Surr: 1,2-Dichloroethane-d4	104	54.6-141		%REC	1	3/26/2010 8:13:36 PM
Surr: 4-Bromofluorobenzene	112	60.1-133		%REC	1	3/26/2010 8:13:36 PM
Surr: Dibromofluoromethane	104	78.5-130		%REC	1	3/26/2010 8:13:36 PM
Surr: Toluene-d8	107	79.5-126		%REC	1	3/26/2010 8:13:36 PM

Qualifiers:

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

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: 2010 1st QTR
Work Order: 1003643

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260B: VOLATILES											
Sample ID: 1003643-04a msd		*MSD*				Batch ID:	**R37941**	Analysis Date:		3/26/2010 7:46:06 PM	
Benzene	18.49	µg/L	1.0	20	0	92.5	75.7	118	4.43	15	
Toluene	20.53	µg/L	1.0	20	0	103	80.1	114	0.494	15	
Chlorobenzene	19.21	µg/L	1.0	20	0	96.0	81.5	112	8.39	15	
1,1-Dichloroethene	22.55	µg/L	1.0	20	0	113	77.4	132	4.95	17.8	
Trichloroethene (TCE)	16.83	µg/L	1.0	20	0	84.2	61.1	121	0.00475	19.8	
Sample ID: 5ml rb		*MBLK*				Batch ID:	**R37941**	Analysis Date:		3/26/2010 8:42:44 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	1.0								
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	1.0								
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: 2010 1st QTR **Work Order:** 1003643

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:	**R37941**	Analysis Date:	3/26/2010 8:42:44 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: 100ng lcs_b		*LCS*				Batch ID:	**R37941**	Analysis Date:	3/26/2010 11:28:52 AM		
Benzene	18.63	µg/L	1.0	20	0	93.1	76.7	114			
Toluene	21.23	µg/L	1.0	20	0	106	78.4	117			
Chlorobenzene	20.28	µg/L	1.0	20	0	101	80.7	127			
1,1-Dichloroethene	23.29	µg/L	1.0	20	0	116	80.2	128			
Trichloroethene (TCE)	17.95	µg/L	1.0	20	0	89.7	77.4	115			
Sample ID: 1003643-04a ms		*MS*				Batch ID:	**R37941**	Analysis Date:	3/26/2010 7:18:38 PM		
Benzene	19.33	µg/L	1.0	20	0	96.7	75.7	118			
Toluene	20.43	µg/L	1.0	20	0	102	80.1	114			
Chlorobenzene	20.89	µg/L	1.0	20	0	104	81.5	112			
1,1-Dichloroethene	23.70	µg/L	1.0	20	0	118	77.4	132			
Trichloroethene (TCE)	16.83	µg/L	1.0	20	0	84.2	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

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name **WESTERN REFINING GALLU**

Date Received: **3/26/2010**

Work Order Number **1003643**

Received by: ARS

Sample ID labels checked by: _____ Initials

Checklist completed by: _____ Signature 3/26/10 Date

Matrix:

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐	Not Shipped ☐
Custody seals intact on sample bottles?	Yes ☑	No ☐	N/A ☐	
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☑	No ☐	Number of preserved bottles checked for pH:
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?	**4.9°**	*<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 Box 7 Gallup, NM 87301

Phone #: 505 722 3833

email or Fax#: 505 722 ~~0223~~ 0210

QA/QC Package:

☒ Standard ☐ Level 4 (Full Validation)

☐ Other _____

☐ EDD (Type) _____

Turn-Around Time:

☒ Standard ☐ Rush _____

Project Name: 2010 1st QTR

Project #: OW 13,14,29,30

Project Manager: G. Rajen

Sampler: Cheryl Johnson

On Ice: ☒ Yes ☐ No

Sample Temperature: 1.9

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. 1003643	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)					Air Bubbles (Y or N)
3/24/10	1440	Aq	OW-30	40ml-3		1										X						
"	1538		OW-14			2										X						
3/25/10	1002		OW-29			3										X						
"	1452		OW-13			4										X						
			Trip Blank			5																

Date:	Time:	Relinquished by:	Received by:	Date	Time
3/25/10	1530				
Date:	Time:	Relinquished by:	Received by:	Date	Time
				3/26/10	8:50

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.

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

COVER LETTER

Thursday, March 25, 2010

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

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

RE: 1st Qtr 2010

Order No.: 1003409

Dear Gaurav Rajen:

Hall Environmental Analysis Laboratory, Inc. received 1 sample(s) on 3/17/2010 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: *25-Mar-10*

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1003409
Project: 1st Qtr 2010
Lab ID: 1003409-01

Client Sample ID: OW-52
Collection Date: 3/16/2010 12:14:00 PM
Date Received: 3/17/2010
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **JB**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	3/22/2010 6:44:59 AM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	3/22/2010 6:44:59 AM
Surr: DNOP	123	58-140		%REC	1	3/22/2010 6:44:59 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	3/25/2010 12:51:35 AM
Surr: BFB	94.3	55.2-107		%REC	1	3/25/2010 12:51:35 AM
EPA METHOD 300.0: ANIONS						Analyst: **MMS**
Fluoride	0.56	0.10		mg/L	1	3/18/2010 1:46:24 AM
Chloride	31	10		mg/L	20	3/18/2010 2:03:48 AM
Nitrogen, Nitrite (As N)	ND	0.10		mg/L	1	3/18/2010 1:46:24 AM
Bromide	0.18	0.10		mg/L	1	3/18/2010 1:46:24 AM
Nitrogen, Nitrate (As N)	ND	0.10		mg/L	1	3/18/2010 1:46:24 AM
Phosphorus, Orthophosphate (As P)	ND	0.50		mg/L	1	3/18/2010 1:46:24 AM
Sulfate	150	10		mg/L	20	3/18/2010 2:03:48 AM
EPA METHOD 7470: MERCURY						Analyst: **RAGS**
Mercury	ND	0.00020		mg/L	1	3/22/2010 3:01:23 PM
EPA METHOD 6010B: DISSOLVED METALS						Analyst: **RAGS**
Arsenic	ND	0.020		mg/L	1	3/22/2010 1:40:14 PM
Barium	0.023	0.020		mg/L	1	3/22/2010 1:40:14 PM
Cadmium	ND	0.0020		mg/L	1	3/22/2010 1:40:14 PM
Calcium	3.9	1.0		mg/L	1	3/22/2010 1:40:14 PM
Chromium	ND	0.0060		mg/L	1	3/22/2010 1:40:14 PM
Copper	ND	0.0060		mg/L	1	3/22/2010 1:40:14 PM
Iron	0.034	0.020		mg/L	1	3/22/2010 1:40:14 PM
Lead	ND	0.0050		mg/L	1	3/22/2010 1:40:14 PM
Magnesium	ND	1.0		mg/L	1	3/22/2010 1:40:14 PM
Manganese	0.028	0.0020		mg/L	1	3/22/2010 1:40:14 PM
Potassium	1.1	1.0		mg/L	1	3/22/2010 1:40:14 PM
Selenium	ND	0.050		mg/L	1	3/22/2010 1:40:14 PM
Silver	ND	0.0050		mg/L	1	3/22/2010 1:40:14 PM
Sodium	230	5.0		mg/L	5	3/22/2010 3:22:48 PM
Zinc	ND	0.050		mg/L	1	3/22/2010 1:40:14 PM
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: **SNV**
Arsenic	ND	0.020		mg/L	1	3/24/2010 12:38:53 PM
Barium	0.027	0.020		mg/L	1	3/24/2010 12:38:53 PM
Cadmium	ND	0.0020		mg/L	1	3/24/2010 12:38:53 PM

Qualifiers:

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- 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-Mar-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	OW-52
Lab Order:	1003409	**Collection Date:**	3/16/2010 12:14:00 PM
Project:	1st Qtr 2010	**Date Received:**	3/17/2010
Lab ID:	1003409-01	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: **SNV**
Chromium	ND	0.0060		mg/L	1	3/24/2010 12:38:53 PM
Copper	ND	0.0060		mg/L	1	3/24/2010 12:38:53 PM
Iron	0.15	0.050		mg/L	1	3/24/2010 12:38:53 PM
Lead	ND	0.0050		mg/L	1	3/24/2010 12:38:53 PM
Manganese	0.032	0.0020		mg/L	1	3/24/2010 12:38:53 PM
Selenium	ND	0.050		mg/L	1	3/24/2010 12:38:53 PM
Silver	ND	0.0050		mg/L	1	3/24/2010 12:38:53 PM
Zinc	ND	0.020		mg/L	1	3/24/2010 12:38:53 PM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **LBJ**
Acenaphthene	ND	10		µg/L	1	3/22/2010 7:41:47 PM
Acenaphthylene	ND	10		µg/L	1	3/22/2010 7:41:47 PM
Aniline	ND	10		µg/L	1	3/22/2010 7:41:47 PM
Anthracene	ND	10		µg/L	1	3/22/2010 7:41:47 PM
Azobenzene	ND	10		µg/L	1	3/22/2010 7:41:47 PM
Benz(a)anthracene	ND	10		µg/L	1	3/22/2010 7:41:47 PM
Benzo(a)pyrene	ND	10		µg/L	1	3/22/2010 7:41:47 PM
Benzo(b)fluoranthene	ND	10		µg/L	1	3/22/2010 7:41:47 PM
Benzo(g,h,i)perylene	ND	10		µg/L	1	3/22/2010 7:41:47 PM
Benzo(k)fluoranthene	ND	10		µg/L	1	3/22/2010 7:41:47 PM
Benzoic acid	ND	20		µg/L	1	3/22/2010 7:41:47 PM
Benzyl alcohol	ND	10		µg/L	1	3/22/2010 7:41:47 PM
Bis(2-chloroethoxy)methane	ND	10		µg/L	1	3/22/2010 7:41:47 PM
Bis(2-chloroethyl)ether	ND	10		µg/L	1	3/22/2010 7:41:47 PM
Bis(2-chloroisopropyl)ether	ND	10		µg/L	1	3/22/2010 7:41:47 PM
Bis(2-ethylhexyl)phthalate	ND	10		µg/L	1	3/22/2010 7:41:47 PM
4-Bromophenyl phenyl ether	ND	10		µg/L	1	3/22/2010 7:41:47 PM
Butyl benzyl phthalate	ND	10		µg/L	1	3/22/2010 7:41:47 PM
Carbazole	ND	10		µg/L	1	3/22/2010 7:41:47 PM
4-Chloro-3-methylphenol	ND	10		µg/L	1	3/22/2010 7:41:47 PM
4-Chloroaniline	ND	10		µg/L	1	3/22/2010 7:41:47 PM
2-Chloronaphthalene	ND	10		µg/L	1	3/22/2010 7:41:47 PM
2-Chlorophenol	ND	10		µg/L	1	3/22/2010 7:41:47 PM
4-Chlorophenyl phenyl ether	ND	10		µg/L	1	3/22/2010 7:41:47 PM
Chrysene	ND	10		µg/L	1	3/22/2010 7:41:47 PM
Di-n-butyl phthalate	ND	10		µg/L	1	3/22/2010 7:41:47 PM
Di-n-octyl phthalate	ND	10		µg/L	1	3/22/2010 7:41:47 PM
Dibenz(a,h)anthracene	ND	10		µg/L	1	3/22/2010 7:41:47 PM
Dibenzofuran	ND	10		µg/L	1	3/22/2010 7:41:47 PM
1,2-Dichlorobenzene	ND	10		µg/L	1	3/22/2010 7:41:47 PM
1,3-Dichlorobenzene	ND	10		µg/L	1	3/22/2010 7:41:47 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-Mar-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	OW-52
Lab Order:	1003409	**Collection Date:**	3/16/2010 12:14:00 PM
Project:	1st Qtr 2010	**Date Received:**	3/17/2010
Lab ID:	1003409-01	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: LBJ
1,4-Dichlorobenzene	ND	10		µg/L	1	3/22/2010 7:41:47 PM
3,3'-Dichlorobenzidine	ND	10		µg/L	1	3/22/2010 7:41:47 PM
Diethyl phthalate	ND	10		µg/L	1	3/22/2010 7:41:47 PM
Dimethyl phthalate	ND	10		µg/L	1	3/22/2010 7:41:47 PM
2,4-Dichlorophenol	ND	20		µg/L	1	3/22/2010 7:41:47 PM
2,4-Dimethylphenol	ND	10		µg/L	1	3/22/2010 7:41:47 PM
4,6-Dinitro-2-methylphenol	ND	20		µg/L	1	3/22/2010 7:41:47 PM
2,4-Dinitrophenol	ND	20		µg/L	1	3/22/2010 7:41:47 PM
2,4-Dinitrotoluene	ND	10		µg/L	1	3/22/2010 7:41:47 PM
2,6-Dinitrotoluene	ND	10		µg/L	1	3/22/2010 7:41:47 PM
Fluoranthene	ND	10		µg/L	1	3/22/2010 7:41:47 PM
Fluorene	ND	10		µg/L	1	3/22/2010 7:41:47 PM
Hexachlorobenzene	ND	10		µg/L	1	3/22/2010 7:41:47 PM
Hexachlorobutadiene	ND	10		µg/L	1	3/22/2010 7:41:47 PM
Hexachlorocyclopentadiene	ND	10		µg/L	1	3/22/2010 7:41:47 PM
Hexachloroethane	ND	10		µg/L	1	3/22/2010 7:41:47 PM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	3/22/2010 7:41:47 PM
Isophorone	ND	10		µg/L	1	3/22/2010 7:41:47 PM
2-Methylnaphthalene	ND	10		µg/L	1	3/22/2010 7:41:47 PM
2-Methylphenol	ND	10		µg/L	1	3/22/2010 7:41:47 PM
3+4-Methylphenol	ND	10		µg/L	1	3/22/2010 7:41:47 PM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	3/22/2010 7:41:47 PM
N-Nitrosodimethylamine	ND	10		µg/L	1	3/22/2010 7:41:47 PM
N-Nitrosodiphenylamine	ND	10		µg/L	1	3/22/2010 7:41:47 PM
Naphthalene	ND	10		µg/L	1	3/22/2010 7:41:47 PM
2-Nitroaniline	ND	10		µg/L	1	3/22/2010 7:41:47 PM
3-Nitroaniline	ND	10		µg/L	1	3/22/2010 7:41:47 PM
4-Nitroaniline	ND	10		µg/L	1	3/22/2010 7:41:47 PM
Nitrobenzene	ND	10		µg/L	1	3/22/2010 7:41:47 PM
2-Nitrophenol	ND	10		µg/L	1	3/22/2010 7:41:47 PM
4-Nitrophenol	ND	10		µg/L	1	3/22/2010 7:41:47 PM
Pentachlorophenol	ND	20		µg/L	1	3/22/2010 7:41:47 PM
Phenanthrene	ND	10		µg/L	1	3/22/2010 7:41:47 PM
Phenol	ND	10		µg/L	1	3/22/2010 7:41:47 PM
Pyrene	ND	10		µg/L	1	3/22/2010 7:41:47 PM
Pyridine	ND	10		µg/L	1	3/22/2010 7:41:47 PM
1,2,4-Trichlorobenzene	ND	10		µg/L	1	3/22/2010 7:41:47 PM
2,4,5-Trichlorophenol	ND	10		µg/L	1	3/22/2010 7:41:47 PM
2,4,6-Trichlorophenol	ND	10		µg/L	1	3/22/2010 7:41:47 PM
Surr: 2,4,6-Tribromophenol	96.5	16.6-150		%REC	1	3/22/2010 7:41:47 PM
Surr: 2-Fluorobiphenyl	84.5	19.6-134		%REC	1	3/22/2010 7:41:47 PM

Qualifiers:

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- 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-Mar-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	OW-52
Lab Order:	1003409	**Collection Date:**	3/16/2010 12:14:00 PM
Project:	1st Qtr 2010	**Date Received:**	3/17/2010
Lab ID:	1003409-01	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **LBJ**
Surr: 2-Fluorophenol	53.8	9.54-113		%REC	1	3/22/2010 7:41:47 PM
Surr: 4-Terphenyl-d14	76.3	22.7-145		%REC	1	3/22/2010 7:41:47 PM
Surr: Nitrobenzene-d5	83.7	14.6-134		%REC	1	3/22/2010 7:41:47 PM
Surr: Phenol-d5	41.7	10.7-80.3		%REC	1	3/22/2010 7:41:47 PM
EPA METHOD 8260B: VOLATILES						Analyst: **DAM**
Benzene	ND	1.0		µg/L	1	3/19/2010 11:16:52 PM
Toluene	ND	1.0		µg/L	1	3/19/2010 11:16:52 PM
Ethylbenzene	ND	1.0		µg/L	1	3/19/2010 11:16:52 PM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	3/19/2010 11:16:52 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	3/19/2010 11:16:52 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	3/19/2010 11:16:52 PM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	3/19/2010 11:16:52 PM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	3/19/2010 11:16:52 PM
Naphthalene	ND	2.0		µg/L	1	3/19/2010 11:16:52 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	3/19/2010 11:16:52 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	3/19/2010 11:16:52 PM
Acetone	ND	10		µg/L	1	3/19/2010 11:16:52 PM
Bromobenzene	ND	1.0		µg/L	1	3/19/2010 11:16:52 PM
Bromodichloromethane	ND	1.0		µg/L	1	3/19/2010 11:16:52 PM
Bromoform	ND	1.0		µg/L	1	3/19/2010 11:16:52 PM
Bromomethane	ND	1.0		µg/L	1	3/19/2010 11:16:52 PM
2-Butanone	ND	10		µg/L	1	3/19/2010 11:16:52 PM
Carbon disulfide	ND	10		µg/L	1	3/19/2010 11:16:52 PM
Carbon Tetrachloride	ND	1.0		µg/L	1	3/19/2010 11:16:52 PM
Chlorobenzene	ND	1.0		µg/L	1	3/19/2010 11:16:52 PM
Chloroethane	ND	2.0		µg/L	1	3/19/2010 11:16:52 PM
Chloroform	ND	1.0		µg/L	1	3/19/2010 11:16:52 PM
Chloromethane	ND	1.0		µg/L	1	3/19/2010 11:16:52 PM
2-Chlorotoluene	ND	1.0		µg/L	1	3/19/2010 11:16:52 PM
4-Chlorotoluene	ND	1.0		µg/L	1	3/19/2010 11:16:52 PM
cis-1,2-DCE	ND	1.0		µg/L	1	3/19/2010 11:16:52 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	3/19/2010 11:16:52 PM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	3/19/2010 11:16:52 PM
Dibromochloromethane	ND	1.0		µg/L	1	3/19/2010 11:16:52 PM
Dibromomethane	ND	1.0		µg/L	1	3/19/2010 11:16:52 PM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	3/19/2010 11:16:52 PM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	3/19/2010 11:16:52 PM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	3/19/2010 11:16:52 PM
Dichlorodifluoromethane	ND	1.0		µg/L	1	3/19/2010 11:16:52 PM
1,1-Dichloroethane	ND	1.0		µg/L	1	3/19/2010 11:16:52 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-Mar-10*

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1003409
Project: 1st Qtr 2010
Lab ID: 1003409-01

Client Sample ID: OW-52
Collection Date: 3/16/2010 12:14:00 PM
Date Received: 3/17/2010
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **DAM**
1,1-Dichloroethene	ND	1.0		µg/L	1	3/19/2010 11:16:52 PM
1,2-Dichloropropane	ND	1.0		µg/L	1	3/19/2010 11:16:52 PM
1,3-Dichloropropane	ND	1.0		µg/L	1	3/19/2010 11:16:52 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	3/19/2010 11:16:52 PM
1,1-Dichloropropene	ND	1.0		µg/L	1	3/19/2010 11:16:52 PM
Hexachlorobutadiene	ND	1.0		µg/L	1	3/19/2010 11:16:52 PM
2-Hexanone	ND	10		µg/L	1	3/19/2010 11:16:52 PM
Isopropylbenzene	ND	1.0		µg/L	1	3/19/2010 11:16:52 PM
4-Isopropyltoluene	ND	1.0		µg/L	1	3/19/2010 11:16:52 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	3/19/2010 11:16:52 PM
Methylene Chloride	ND	3.0		µg/L	1	3/19/2010 11:16:52 PM
n-Butylbenzene	ND	1.0		µg/L	1	3/19/2010 11:16:52 PM
n-Propylbenzene	ND	1.0		µg/L	1	3/19/2010 11:16:52 PM
sec-Butylbenzene	ND	1.0		µg/L	1	3/19/2010 11:16:52 PM
Styrene	ND	1.0		µg/L	1	3/19/2010 11:16:52 PM
tert-Butylbenzene	ND	1.0		µg/L	1	3/19/2010 11:16:52 PM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	3/19/2010 11:16:52 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	3/19/2010 11:16:52 PM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	3/19/2010 11:16:52 PM
trans-1,2-DCE	ND	1.0		µg/L	1	3/19/2010 11:16:52 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	3/19/2010 11:16:52 PM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	3/19/2010 11:16:52 PM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	3/19/2010 11:16:52 PM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	3/19/2010 11:16:52 PM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	3/19/2010 11:16:52 PM
Trichloroethene (TCE)	ND	1.0		µg/L	1	3/19/2010 11:16:52 PM
Trichlorofluoromethane	ND	1.0		µg/L	1	3/19/2010 11:16:52 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	3/19/2010 11:16:52 PM
Vinyl chloride	ND	1.0		µg/L	1	3/19/2010 11:16:52 PM
Xylenes, Total	ND	1.5		µg/L	1	3/19/2010 11:16:52 PM
Surr: 1,2-Dichloroethane-d4	97.2	54.6-141		%REC	1	3/19/2010 11:16:52 PM
Surr: 4-Bromofluorobenzene	111	60.1-133		%REC	1	3/19/2010 11:16:52 PM
Surr: Dibromofluoromethane	90.7	78.5-130		%REC	1	3/19/2010 11:16:52 PM
Surr: Toluene-d8	109	79.5-126		%REC	1	3/19/2010 11:16:52 PM
EPA 120.1: SPECIFIC CONDUCTANCE						Analyst: **NSB**
Specific Conductance	990	0.010		µmhos/cm	1	3/18/2010 3:30:00 PM
SM4500-H+B: PH						Analyst: **NSB**
pH	8.23	0.1		pH units	1	3/18/2010 3:30:00 PM

Qualifiers:

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

Anatek Labs, Inc.

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504 E Sprague Ste. D • Spokane WA 99202 • (509) 838-3999 • Fax (509) 838-4433 • email spokane@anateklabs.com

Client: HALL ENVIRONMENTAL ANALYSIS LAB
Address: 4901 HAWKINS NE SUITE D
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Batch #: 100319019
Project Name: 1003409

Analytical Results Report

Sample Number	100319019-001	**Sampling Date**	3/16/2010	**Date/Time Received**	3/19/2010 10:20 AM
Client Sample ID	1003409-01D / OW-52	**Sampling Time**	12:14 PM		
Matrix	Water	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Uranium	0.0103	mg/L	0.001	3/24/2010	JTT	EPA 6020A	

Sample Number	100319019-002	**Sampling Date**	3/16/2010	**Date/Time Received**	3/19/2010 10:20 AM
Client Sample ID	1003409-01F / OW-52	**Sampling Time**	12:14 PM		
Matrix	Water	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Dissolved Uranium	0.00926	mg/L	0.001	3/24/2010	JTT	EPA 6020A	

Authorized Signature

John Coddington, Lab Manager

MCL EPA's Maximum Contaminant Level
ND Not Detected
PQL Practical Quantitation Limit

This report shall not be reproduced except in full, without the written approval of the laboratory.
The results reported relate only to the samples indicated.
Soil/solid results are reported on a dry-weight basis unless otherwise noted.

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C1320
Certifications held by Anatek Labs WA: EPA:WA00169; CA:Cert2632; ID:WA00169; WA:C1287; MT:Cert0095

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: 1st Qtr 2010 **Work Order:** 1003409

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:	**R37827**	Analysis Date:	3/17/2010 10:21:14 AM		
Fluoride	ND	mg/L	0.10								
Chloride	ND	mg/L	0.50								
Nitrogen, Nitrite (As N)	ND	mg/L	0.10								
Bromide	ND	mg/L	0.10								
Nitrogen, Nitrate (As N)	ND	mg/L	0.10								
Phosphorus, Orthophosphate (As P)	ND	mg/L	0.50								
Sulfate	ND	mg/L	0.50								
Sample ID: MB		*MBLK*				Batch ID:	**R37827**	Analysis Date:	3/18/2010 2:21:12 AM		
Fluoride	ND	mg/L	0.10								
Chloride	ND	mg/L	0.50								
Nitrogen, Nitrite (As N)	ND	mg/L	0.10								
Bromide	ND	mg/L	0.10								
Nitrogen, Nitrate (As N)	ND	mg/L	0.10								
Phosphorus, Orthophosphate (As P)	ND	mg/L	0.50								
Sulfate	ND	mg/L	0.50								
Sample ID: LCS		*LCS*				Batch ID:	**R37827**	Analysis Date:	3/17/2010 10:38:39 AM		
Fluoride	0.5410	mg/L	0.10	0.5	0	108	90	110			
Chloride	4.952	mg/L	0.50	5	0	99.0	90	110			
Nitrogen, Nitrite (As N)	1.000	mg/L	0.10	1	0	100	90	110			
Bromide	2.516	mg/L	0.10	2.5	0	101	90	110			
Nitrogen, Nitrate (As N)	2.542	mg/L	0.10	2.5	0	102	90	110			
Phosphorus, Orthophosphate (As P)	5.054	mg/L	0.50	5	0	101	90	110			
Sulfate	10.21	mg/L	0.50	10	0	102	90	110			
Sample ID: LCS		*LCS*				Batch ID:	**R37827**	Analysis Date:	3/18/2010 2:38:37 AM		
Chloride	5.158	mg/L	0.50	5	0	103	90	110			
Nitrogen, Nitrite (As N)	1.047	mg/L	0.10	1	0	105	90	110			
Bromide	2.606	mg/L	0.10	2.5	0	104	90	110			
Nitrogen, Nitrate (As N)	2.650	mg/L	0.10	2.5	0	106	90	110			
Phosphorus, Orthophosphate (As P)	5.304	mg/L	0.50	5	0	106	90	110			
Sulfate	10.68	mg/L	0.50	10	0	107	90	110			
Method: EPA Method 8015B: Diesel Range											
Sample ID: MB-21685		*MBLK*				Batch ID:	**21685**	Analysis Date:	3/21/2010 8:36:20 PM		
Diesel Range Organics (DRO)	ND	mg/L	1.0								
Motor Oil Range Organics (MRO)	ND	mg/L	5.0								
Sample ID: LCS-21685		*LCS*				Batch ID:	**21685**	Analysis Date:	3/21/2010 9:12:34 PM		
Diesel Range Organics (DRO)	7.632	mg/L	1.0	5	0	153	74	157			
Sample ID: LCSD-21685		*LCSD*				Batch ID:	**21685**	Analysis Date:	3/23/2010 3:15:31 PM		
Diesel Range Organics (DRO)	6.143	mg/L	1.0	5	0	123	74	157	21.6	23	

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: 1st Qtr 2010 **Work Order:** 1003409

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8015B: Gasoline Range											
Sample ID: 5ML RB		*MBLK*				Batch ID:	**R37912**	Analysis Date:		3/24/2010 8:36:12 AM	
Gasoline Range Organics (GRO)	ND	mg/L	0.050								
Sample ID: 2.5UG GRO LCS		*LCS*				Batch ID:	**R37912**	Analysis Date:		3/24/2010 6:17:10 PM	
Gasoline Range Organics (GRO)	0.5352	mg/L	0.050	0.5	0	107	80	115			
Sample ID: 2.5UG GRO LCSD		*LCSD*				Batch ID:	**R37912**	Analysis Date:		3/24/2010 6:47:31 PM	
Gasoline Range Organics (GRO)	0.5388	mg/L	0.050	0.5	0	108	80	115	0.670	8.39	

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: 1st Qtr 2010 **Work Order:** 1003409

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260B: VOLATILES											
Sample ID: b2		*MBLK*				Batch ID:	**R37844**	Analysis Date:	3/19/2010 9:11:09 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	1.0								
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	1.0								
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:

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QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: 1st Qtr 2010 **Work Order:** 1003409

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260B: VOLATILES											
Sample ID: b2		*MBLK*				Batch ID:	**R37844**	Analysis Date:	3/19/2010 9:11:09 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: 100ng lcs		*LCS*				Batch ID:	**R37844**	Analysis Date:	3/19/2010 10:36:05 AM		
Benzene	19.60	µg/L	1.0	20	0	98.0	76.7	114			
Toluene	22.10	µg/L	1.0	20	0	111	78.4	117			
Chlorobenzene	20.71	µg/L	1.0	20	0	104	80.7	127			
1,1-Dichloroethene	22.96	µg/L	1.0	20	0	115	80.2	128			
Trichloroethene (TCE)	18.82	µg/L	1.0	20	0	94.1	77.4	115			

Qualifiers:

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QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: 1st Qtr 2010 **Work Order:** 1003409

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8270C: Semivolatiles											
Sample ID: mb-21702		*MBLK*				Batch ID:	**21702**	Analysis Date:	3/22/2010 3:44:51 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	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: 1st Qtr 2010 **Work Order:** 1003409

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8270C: Semivolatiles											
Sample ID: mb-21702		*MBLK*				Batch ID:	**21702**	Analysis Date:	3/22/2010 3:44:51 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	10								
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-21702		*LCS*				Batch ID:	**21702**	Analysis Date:	3/22/2010 4:14:27 PM		
Acenaphthene	85.98	µg/L	10	100	0	86.0	33.2	88.1			
4-Chloro-3-methylphenol	204.6	µg/L	10	200	0	102	26.5	101			S
2-Chlorophenol	203.9	µg/L	10	200	0	102	27.5	88.7			S
1,4-Dichlorobenzene	85.74	µg/L	10	100	0	85.7	27.2	74.1			S
2,4-Dinitrotoluene	97.92	µg/L	10	100	0	97.9	32.6	107			
N-Nitrosodi-n-propylamine	101.9	µg/L	10	100	0	102	27.1	96.3			S
4-Nitrophenol	116.1	µg/L	10	200	0	58.0	6.78	74.7			
Pentachlorophenol	198.8	µg/L	20	200	3.76	97.5	14.8	113			
Phenol	123.5	µg/L	10	200	0	61.8	17	53.4			S
Pyrene	93.56	µg/L	10	100	0	93.6	27	96.3			
1,2,4-Trichlorobenzene	79.24	µg/L	10	100	0	79.2	30	77.9			S
Sample ID: lcsd-21702		*LCSD*				Batch ID:	**21702**	Analysis Date:	3/22/2010 4:44:07 PM		
Acenaphthene	84.08	µg/L	10	100	0	84.1	33.2	88.1	2.23	30.5	
4-Chloro-3-methylphenol	193.7	µg/L	10	200	0	96.9	26.5	101	5.46	28.6	
2-Chlorophenol	174.6	µg/L	10	200	0	87.3	27.5	88.7	15.5	107	
1,4-Dichlorobenzene	69.76	µg/L	10	100	0	69.8	27.2	74.1	20.6	62.1	
2,4-Dinitrotoluene	95.38	µg/L	10	100	0	95.4	32.6	107	2.63	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: 1st Qtr 2010 **Work Order:** 1003409

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8270C: Semivolatiles											
Sample ID: lcsd-21702		*LCSD*				Batch ID:	**21702**	Analysis Date:		3/22/2010 4:44:07 PM	
N-Nitrosodi-n-propylamine	84.06	µg/L	10	100	0	84.1	27.1	96.3	19.2	30.3	
4-Nitrophenol	120.8	µg/L	10	200	0	60.4	6.78	74.7	3.97	36.3	
Pentachlorophenol	179.0	µg/L	20	200	3.76	87.6	14.8	113	10.5	49	
Phenol	106.7	µg/L	10	200	0	53.3	17	53.4	14.6	52.4	
Pyrene	83.60	µg/L	10	100	0	83.6	27	96.3	11.2	16.3	
1,2,4-Trichlorobenzene	72.20	µg/L	10	100	0	72.2	30	77.9	9.30	36.4	
Method: EPA Method 7470: Mercury											
Sample ID: MB-21707		*MBLK*				Batch ID:	**21707**	Analysis Date:		3/22/2010 2:45:26 PM	
Mercury	ND	mg/L	0.00020								
Sample ID: LCS-21707		*LCS*				Batch ID:	**21707**	Analysis Date:		3/22/2010 2:47:11 PM	
Mercury	0.005217	mg/L	0.00020	0.005	2E-05	104	80	120			

Qualifiers:

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

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: 1st Qtr 2010 **Work Order:** 1003409

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 6010B: Dissolved Metals											
Sample ID: MBLK		*MBLK*				Batch ID:	**R37871**	Analysis Date:	3/22/2010 12:17:47 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								
Zinc	ND	mg/L	0.050								
Sample ID: LCS		*LCS*				Batch ID:	**R37871**	Analysis Date:	3/22/2010 12:20:33 PM		
Arsenic	0.4759	mg/L	0.020	0.5	0	95.2	80	120			
Barium	0.4601	mg/L	0.020	0.5	0	92.0	80	120			
Cadmium	0.4742	mg/L	0.0020	0.5	0	94.8	80	120			
Calcium	48.08	mg/L	1.0	50.5	0	95.2	80	120			
Chromium	0.4674	mg/L	0.0060	0.5	0	93.5	80	120			
Copper	0.4937	mg/L	0.0060	0.5	0	98.7	80	120			
Iron	0.4712	mg/L	0.020	0.5	0	94.2	80	120			
Lead	0.4733	mg/L	0.0050	0.5	0	94.7	80	120			
Magnesium	48.32	mg/L	1.0	50.5	0	95.7	80	120			
Manganese	0.4618	mg/L	0.0020	0.5	0	92.4	80	120			
Potassium	51.31	mg/L	1.0	55	0	93.3	80	120			
Selenium	0.4608	mg/L	0.050	0.5	0	92.2	80	120			
Silver	0.4778	mg/L	0.0050	0.5	0	95.6	80	120			
Sodium	47.37	mg/L	1.0	50.5	0	93.8	80	120			
Zinc	0.4631	mg/L	0.050	0.5	0	92.6	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: 1st Qtr 2010 **Work Order:** 1003409

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA 6010B: Total Recoverable Metals											
Sample ID: MB-21728		*MBLK*				Batch ID:	**21728**	Analysis Date:	3/24/2010 11:30:15 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-21728		*LCS*				Batch ID:	**21728**	Analysis Date:	3/24/2010 11:33:05 AM		
Arsenic	0.5089	mg/L	0.020	0.5	0	102	80	120			
Barium	0.4950	mg/L	0.020	0.5	0	99.0	80	120			
Cadmium	0.5045	mg/L	0.0020	0.5	0	101	80	120			
Chromium	0.5052	mg/L	0.0060	0.5	0.0018	101	80	120			
Copper	0.5502	mg/L	0.0060	0.5	0	110	80	120			
Iron	0.5061	mg/L	0.050	0.5	0.0309	95.1	80	120			
Lead	0.4975	mg/L	0.0050	0.5	0	99.5	80	120			
Manganese	0.4987	mg/L	0.0020	0.5	0	99.7	80	120			
Selenium	0.4965	mg/L	0.050	0.5	0	99.3	80	120			
Silver	0.5044	mg/L	0.0050	0.5	0	101	80	120			
Zinc	0.4925	mg/L	0.020	0.5	0	98.5	80	120			
Sample ID: LCS-21728		*LCS*				Batch ID:	**21728**	Analysis Date:	3/24/2010 11:36:04 AM		
Arsenic	0.5077	mg/L	0.020	0.5	0	102	80	120			
Barium	0.4939	mg/L	0.020	0.5	0	98.8	80	120			
Cadmium	0.5015	mg/L	0.0020	0.5	0	100	80	120			
Chromium	0.5013	mg/L	0.0060	0.5	0.0018	99.9	80	120			
Copper	0.5510	mg/L	0.0060	0.5	0	110	80	120			
Iron	0.5101	mg/L	0.050	0.5	0.0309	95.8	80	120			
Lead	0.4984	mg/L	0.0050	0.5	0	99.7	80	120			
Manganese	0.4975	mg/L	0.0020	0.5	0	99.5	80	120			
Selenium	0.4973	mg/L	0.050	0.5	0	99.5	80	120			
Silver	0.5022	mg/L	0.0050	0.5	0	100	80	120			
Zinc	0.4915	mg/L	0.020	0.5	0	98.3	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: **3/17/2010**

Work Order Number **1003409** Received by: ARS

Sample ID labels checked by: _____ Initials

Checklist completed by: _____ Signature 3/17/10 Date

Matrix: Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐	Not Shipped ☐
Custody seals intact on sample bottles?	Yes ☑	No ☐	N/A ☐	
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☑	No ☐	
Water - Preservation labels on bottle and cap match?	Yes ☑	No ☐	N/A ☐	
Water - pH acceptable upon receipt?	Yes ☑	No ☐	N/A ☐	
Container/Temp Blank temperature?	**5.3°**	*<6° C Acceptable* If given sufficient time to cool.		

Number of preserved bottles checked for pH: 5

<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
Rt 3 Box 7
Mailing Address: Gallup Refinery
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: 1st QTR 2010
Project #: OW ~~#~~ 52
Project Manager: G. Rajen
Sampler: C Johnson
On Ice: [illegible]
Sample Temperature: 5.3

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. 1003109	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Wet Metals Total	Wet Metals Diss.	Gen Chem		Air Bubbles (Y ☐)
3/16/10	1214	H2O	OW-52	40ml (3)	HCl	/			X													
				40ml (3)	HCl	/										X						
				1L Amber	None	/											X					
				500ml (2)	HNO3	/												X				
				150ml (2)	HNO3	/													X			
				250ml (1)	None	/														X		
				500ml (1)	HNO3	/														X		
				125ml (1)	H2SO4	/														X		

Date:	Time:	Relinquished by:	Received by:	Date	Time
3/16/10	1245	[signature]	[signature]	3/17/10	8:55
Date:	Time:	Relinquished by:	Received by:	Date	Time

Remarks: Gen Chem: Cations/Anions, pH Conductivity

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