

AP-111

BINDER 2

1 of 5

**Annual Ground Water Monitoring Report:
Gallup Refinery – 2012**



Western Refining

Gallup, New Mexico

April 17, 2012

Appendix K



*Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com*

April 05, 2012

Cheryl Johnson

Western Refining Southwest, Gallup

Rt. 3 Box 7

Gallup, NM 87301

TEL: (505) 722-0231

FAX (505) 722-0210

RE: 1st QTR 2012 Groundwater Sampling

OrderNo.: 1203901

Dear Cheryl Johnson:

Hall Environmental Analysis Laboratory received 4 sample(s) on 3/23/2012 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.**Analytical Report**

Lab Order 1203901

Date Reported: 4/5/2012

CLIENT: Western Refining Southwest, Gallup**Client Sample ID:** OW-13**Project:** 1st QTR 2012 Groundwater Sampling**Collection Date:** 3/21/2012 1:20:00 PM**Lab ID:** 1203901-001**Matrix:** AQUEOUS**Received Date:** 3/23/2012 11:07:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: MMS
Benzene	ND	1.0		µg/L	1	3/28/2012 12:52:23 PM
Toluene	ND	1.0		µg/L	1	3/28/2012 12:52:23 PM
Ethylbenzene	ND	1.0		µg/L	1	3/28/2012 12:52:23 PM
Methyl tert-butyl ether (MTBE)	8.2	1.0		µg/L	1	3/28/2012 12:52:23 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	3/28/2012 12:52:23 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	3/28/2012 12:52:23 PM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	3/28/2012 12:52:23 PM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	3/28/2012 12:52:23 PM
Naphthalene	ND	2.0		µg/L	1	3/28/2012 12:52:23 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	3/28/2012 12:52:23 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	3/28/2012 12:52:23 PM
Acetone	ND	10		µg/L	1	3/28/2012 12:52:23 PM
Bromobenzene	ND	1.0		µg/L	1	3/28/2012 12:52:23 PM
Bromodichloromethane	ND	1.0		µg/L	1	3/28/2012 12:52:23 PM
Bromoform	ND	1.0		µg/L	1	3/28/2012 12:52:23 PM
Bromomethane	ND	3.0		µg/L	1	3/28/2012 12:52:23 PM
2-Butanone	ND	10		µg/L	1	3/28/2012 12:52:23 PM
Carbon disulfide	ND	10		µg/L	1	3/28/2012 12:52:23 PM
Carbon Tetrachloride	ND	1.0		µg/L	1	3/28/2012 12:52:23 PM
Chlorobenzene	ND	1.0		µg/L	1	3/28/2012 12:52:23 PM
Chloroethane	ND	2.0		µg/L	1	3/28/2012 12:52:23 PM
Chloroform	ND	1.0		µg/L	1	3/28/2012 12:52:23 PM
Chloromethane	ND	3.0		µg/L	1	3/28/2012 12:52:23 PM
2-Chlorotoluene	ND	1.0		µg/L	1	3/28/2012 12:52:23 PM
4-Chlorotoluene	ND	1.0		µg/L	1	3/28/2012 12:52:23 PM
cis-1,2-DCE	ND	1.0		µg/L	1	3/28/2012 12:52:23 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	3/28/2012 12:52:23 PM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	3/28/2012 12:52:23 PM
Dibromochloromethane	ND	1.0		µg/L	1	3/28/2012 12:52:23 PM
Dibromomethane	ND	1.0		µg/L	1	3/28/2012 12:52:23 PM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	3/28/2012 12:52:23 PM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	3/28/2012 12:52:23 PM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	3/28/2012 12:52:23 PM
Dichlorodifluoromethane	ND	1.0		µg/L	1	3/28/2012 12:52:23 PM
1,1-Dichloroethane	ND	1.0		µg/L	1	3/28/2012 12:52:23 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	3/28/2012 12:52:23 PM
1,2-Dichloropropane	ND	1.0		µg/L	1	3/28/2012 12:52:23 PM
1,3-Dichloropropane	ND	1.0		µg/L	1	3/28/2012 12:52:23 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	3/28/2012 12:52:23 PM
1,1-Dichloropropene	ND	1.0		µg/L	1	3/28/2012 12:52:23 PM
Hexachlorobutadiene	ND	1.0		µg/L	1	3/28/2012 12:52:23 PM
2-Hexanone	ND	10		µg/L	1	3/28/2012 12:52:23 PM

Qualifiers: */X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1203901

Date Reported: 4/5/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: OW-13

Project: 1st QTR 2012 Groundwater Sampling

Collection Date: 3/21/2012 1:20:00 PM

Lab ID: 1203901-001

Matrix: AQUEOUS

Received Date: 3/23/2012 11:07:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: MMS
Isopropylbenzene	ND	1.0		µg/L	1	3/28/2012 12:52:23 PM
4-Isopropyltoluene	ND	1.0		µg/L	1	3/28/2012 12:52:23 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	3/28/2012 12:52:23 PM
Methylene Chloride	ND	3.0		µg/L	1	3/28/2012 12:52:23 PM
n-Butylbenzene	ND	1.0		µg/L	1	3/28/2012 12:52:23 PM
n-Propylbenzene	ND	1.0		µg/L	1	3/28/2012 12:52:23 PM
sec-Butylbenzene	ND	1.0		µg/L	1	3/28/2012 12:52:23 PM
Styrene	ND	1.0		µg/L	1	3/28/2012 12:52:23 PM
tert-Butylbenzene	ND	1.0		µg/L	1	3/28/2012 12:52:23 PM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	3/28/2012 12:52:23 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	3/28/2012 12:52:23 PM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	3/28/2012 12:52:23 PM
trans-1,2-DCE	ND	1.0		µg/L	1	3/28/2012 12:52:23 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	3/28/2012 12:52:23 PM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	3/28/2012 12:52:23 PM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	3/28/2012 12:52:23 PM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	3/28/2012 12:52:23 PM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	3/28/2012 12:52:23 PM
Trichloroethene (TCE)	ND	1.0		µg/L	1	3/28/2012 12:52:23 PM
Trichlorofluoromethane	ND	1.0		µg/L	1	3/28/2012 12:52:23 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	3/28/2012 12:52:23 PM
Vinyl chloride	ND	1.0		µg/L	1	3/28/2012 12:52:23 PM
Xylenes, Total	ND	1.5		µg/L	1	3/28/2012 12:52:23 PM
Surr: 1,2-Dichloroethane-d4	98.1	70-130		%REC	1	3/28/2012 12:52:23 PM
Surr: 4-Bromofluorobenzene	108	70-130		%REC	1	3/28/2012 12:52:23 PM
Surr: Dibromofluoromethane	112	69.8-130		%REC	1	3/28/2012 12:52:23 PM
Surr: Toluene-d8	101	70-130		%REC	1	3/28/2012 12:52:23 PM

Qualifiers: * / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1203901

Date Reported: 4/5/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: OW-14

Project: 1st QTR 2012 Groundwater Sampling

Collection Date: 3/21/2012 2:38:00 PM

Lab ID: 1203901-002

Matrix: AQUEOUS

Received Date: 3/23/2012 11:07:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: MMS
Benzene	2,300	50		µg/L	50	3/28/2012 2:19:58 PM
Toluene	ND	10		µg/L	10	3/28/2012 2:49:12 PM
Ethylbenzene	51	10		µg/L	10	3/28/2012 2:49:12 PM
Methyl tert-butyl ether (MTBE)	1,400	10		µg/L	10	3/28/2012 2:49:12 PM
1,2,4-Trimethylbenzene	ND	10		µg/L	10	3/28/2012 2:49:12 PM
1,3,5-Trimethylbenzene	ND	10		µg/L	10	3/28/2012 2:49:12 PM
1,2-Dichloroethane (EDC)	ND	10		µg/L	10	3/28/2012 2:49:12 PM
1,2-Dibromoethane (EDB)	ND	10		µg/L	10	3/28/2012 2:49:12 PM
Naphthalene	ND	20		µg/L	10	3/28/2012 2:49:12 PM
1-Methylnaphthalene	ND	40		µg/L	10	3/28/2012 2:49:12 PM
2-Methylnaphthalene	ND	40		µg/L	10	3/28/2012 2:49:12 PM
Acetone	ND	100		µg/L	10	3/28/2012 2:49:12 PM
Bromobenzene	ND	10		µg/L	10	3/28/2012 2:49:12 PM
Bromodichloromethane	ND	10		µg/L	10	3/28/2012 2:49:12 PM
Bromoform	ND	10		µg/L	10	3/28/2012 2:49:12 PM
Bromomethane	ND	30		µg/L	10	3/28/2012 2:49:12 PM
2-Butanone	ND	100		µg/L	10	3/28/2012 2:49:12 PM
Carbon disulfide	ND	100		µg/L	10	3/28/2012 2:49:12 PM
Carbon Tetrachloride	ND	10		µg/L	10	3/28/2012 2:49:12 PM
Chlorobenzene	ND	10		µg/L	10	3/28/2012 2:49:12 PM
Chloroethane	ND	20		µg/L	10	3/28/2012 2:49:12 PM
Chloroform	ND	10		µg/L	10	3/28/2012 2:49:12 PM
Chloromethane	ND	30		µg/L	10	3/28/2012 2:49:12 PM
2-Chlorotoluene	ND	10		µg/L	10	3/28/2012 2:49:12 PM
4-Chlorotoluene	ND	10		µg/L	10	3/28/2012 2:49:12 PM
cis-1,2-DCE	ND	10		µg/L	10	3/28/2012 2:49:12 PM
cis-1,3-Dichloropropene	ND	10		µg/L	10	3/28/2012 2:49:12 PM
1,2-Dibromo-3-chloropropane	ND	20		µg/L	10	3/28/2012 2:49:12 PM
Dibromochloromethane	ND	10		µg/L	10	3/28/2012 2:49:12 PM
Dibromomethane	ND	10		µg/L	10	3/28/2012 2:49:12 PM
1,2-Dichlorobenzene	ND	10		µg/L	10	3/28/2012 2:49:12 PM
1,3-Dichlorobenzene	ND	10		µg/L	10	3/28/2012 2:49:12 PM
1,4-Dichlorobenzene	ND	10		µg/L	10	3/28/2012 2:49:12 PM
Dichlorodifluoromethane	ND	10		µg/L	10	3/28/2012 2:49:12 PM
1,1-Dichloroethane	ND	10		µg/L	10	3/28/2012 2:49:12 PM
1,1-Dichloroethene	ND	10		µg/L	10	3/28/2012 2:49:12 PM
1,2-Dichloropropane	ND	10		µg/L	10	3/28/2012 2:49:12 PM
1,3-Dichloropropane	ND	10		µg/L	10	3/28/2012 2:49:12 PM
2,2-Dichloropropane	ND	20		µg/L	10	3/28/2012 2:49:12 PM
1,1-Dichloropropene	ND	10		µg/L	10	3/28/2012 2:49:12 PM
Hexachlorobutadiene	ND	10		µg/L	10	3/28/2012 2:49:12 PM
2-Hexanone	ND	100		µg/L	10	3/28/2012 2:49:12 PM

Qualifiers: *X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1203901

Date Reported: 4/5/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: OW-14

Project: 1st QTR 2012 Groundwater Sampling

Collection Date: 3/21/2012 2:38:00 PM

Lab ID: 1203901-002

Matrix: AQUEOUS

Received Date: 3/23/2012 11:07:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: MMS
Isopropylbenzene	ND	10		µg/L	10	3/28/2012 2:49:12 PM
4-Isopropyltoluene	ND	10		µg/L	10	3/28/2012 2:49:12 PM
4-Methyl-2-pentanone	ND	100		µg/L	10	3/28/2012 2:49:12 PM
Methylene Chloride	ND	30		µg/L	10	3/28/2012 2:49:12 PM
n-Butylbenzene	ND	10		µg/L	10	3/28/2012 2:49:12 PM
n-Propylbenzene	ND	10		µg/L	10	3/28/2012 2:49:12 PM
sec-Butylbenzene	ND	10		µg/L	10	3/28/2012 2:49:12 PM
Styrene	ND	10		µg/L	10	3/28/2012 2:49:12 PM
tert-Butylbenzene	ND	10		µg/L	10	3/28/2012 2:49:12 PM
1,1,1,2-Tetrachloroethane	ND	10		µg/L	10	3/28/2012 2:49:12 PM
1,1,2,2-Tetrachloroethane	ND	20		µg/L	10	3/28/2012 2:49:12 PM
Tetrachloroethene (PCE)	ND	10		µg/L	10	3/28/2012 2:49:12 PM
trans-1,2-DCE	ND	10		µg/L	10	3/28/2012 2:49:12 PM
trans-1,3-Dichloropropene	ND	10		µg/L	10	3/28/2012 2:49:12 PM
1,2,3-Trichlorobenzene	ND	10		µg/L	10	3/28/2012 2:49:12 PM
1,2,4-Trichlorobenzene	ND	10		µg/L	10	3/28/2012 2:49:12 PM
1,1,1-Trichloroethane	ND	10		µg/L	10	3/28/2012 2:49:12 PM
1,1,2-Trichloroethane	ND	10		µg/L	10	3/28/2012 2:49:12 PM
Trichloroethene (TCE)	ND	10		µg/L	10	3/28/2012 2:49:12 PM
Trichlorofluoromethane	ND	10		µg/L	10	3/28/2012 2:49:12 PM
1,2,3-Trichloropropane	ND	20		µg/L	10	3/28/2012 2:49:12 PM
Vinyl chloride	ND	10		µg/L	10	3/28/2012 2:49:12 PM
Xylenes, Total	ND	15		µg/L	10	3/28/2012 2:49:12 PM
Surr: 1,2-Dichloroethane-d4	95.5	70-130		%REC	10	3/28/2012 2:49:12 PM
Surr: 4-Bromofluorobenzene	102	70-130		%REC	10	3/28/2012 2:49:12 PM
Surr: Dibromofluoromethane	108	69.8-130		%REC	10	3/28/2012 2:49:12 PM
Surr: Toluene-d8	108	70-130		%REC	10	3/28/2012 2:49:12 PM

Qualifiers: * / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1203901

Date Reported: 4/5/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: OW-29

Project: 1st QTR 2012 Groundwater Sampling

Collection Date: 3/21/2012 2:10:00 PM

Lab ID: 1203901-003

Matrix: AQUEOUS

Received Date: 3/23/2012 11:07:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: MMS
Benzene	ND	1.0		µg/L	1	3/28/2012 4:17:45 PM
Toluene	ND	1.0		µg/L	1	3/28/2012 4:17:45 PM
Ethylbenzene	ND	1.0		µg/L	1	3/28/2012 4:17:45 PM
Methyl tert-butyl ether (MTBE)	620	10		µg/L	10	3/28/2012 3:48:17 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	3/28/2012 4:17:45 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	3/28/2012 4:17:45 PM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	3/28/2012 4:17:45 PM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	3/28/2012 4:17:45 PM
Naphthalene	ND	2.0		µg/L	1	3/28/2012 4:17:45 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	3/28/2012 4:17:45 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	3/28/2012 4:17:45 PM
Acetone	ND	10		µg/L	1	3/28/2012 4:17:45 PM
Bromobenzene	ND	1.0		µg/L	1	3/28/2012 4:17:45 PM
Bromodichloromethane	ND	1.0		µg/L	1	3/28/2012 4:17:45 PM
Bromoform	ND	1.0		µg/L	1	3/28/2012 4:17:45 PM
Bromomethane	ND	3.0		µg/L	1	3/28/2012 4:17:45 PM
2-Butanone	ND	10		µg/L	1	3/28/2012 4:17:45 PM
Carbon disulfide	ND	10		µg/L	1	3/28/2012 4:17:45 PM
Carbon Tetrachloride	ND	1.0		µg/L	1	3/28/2012 4:17:45 PM
Chlorobenzene	ND	1.0		µg/L	1	3/28/2012 4:17:45 PM
Chloroethane	ND	2.0		µg/L	1	3/28/2012 4:17:45 PM
Chloroform	ND	1.0		µg/L	1	3/28/2012 4:17:45 PM
Chloromethane	ND	3.0		µg/L	1	3/28/2012 4:17:45 PM
2-Chlorotoluene	ND	1.0		µg/L	1	3/28/2012 4:17:45 PM
4-Chlorotoluene	ND	1.0		µg/L	1	3/28/2012 4:17:45 PM
cis-1,2-DCE	ND	1.0		µg/L	1	3/28/2012 4:17:45 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	3/28/2012 4:17:45 PM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	3/28/2012 4:17:45 PM
Dibromochloromethane	ND	1.0		µg/L	1	3/28/2012 4:17:45 PM
Dibromomethane	ND	1.0		µg/L	1	3/28/2012 4:17:45 PM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	3/28/2012 4:17:45 PM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	3/28/2012 4:17:45 PM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	3/28/2012 4:17:45 PM
Dichlorodifluoromethane	ND	1.0		µg/L	1	3/28/2012 4:17:45 PM
1,1-Dichloroethane	ND	1.0		µg/L	1	3/28/2012 4:17:45 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	3/28/2012 4:17:45 PM
1,2-Dichloropropane	ND	1.0		µg/L	1	3/28/2012 4:17:45 PM
1,3-Dichloropropane	ND	1.0		µg/L	1	3/28/2012 4:17:45 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	3/28/2012 4:17:45 PM
1,1-Dichloropropene	ND	1.0		µg/L	1	3/28/2012 4:17:45 PM
Hexachlorobutadiene	ND	1.0		µg/L	1	3/28/2012 4:17:45 PM
2-Hexanone	ND	10		µg/L	1	3/28/2012 4:17:45 PM

Qualifiers: * / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
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Project: 1st QTR 2012 Groundwater Sampling

Collection Date: 3/21/2012 2:10:00 PM

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Matrix: AQUEOUS

Received Date: 3/23/2012 11:07:00 AM

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EPA METHOD 8260B: VOLATILES						Analyst: MMS
Isopropylbenzene	ND	1.0		µg/L	1	3/28/2012 4:17:45 PM
4-Isopropyltoluene	ND	1.0		µg/L	1	3/28/2012 4:17:45 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	3/28/2012 4:17:45 PM
Methylene Chloride	ND	3.0		µg/L	1	3/28/2012 4:17:45 PM
n-Butylbenzene	ND	1.0		µg/L	1	3/28/2012 4:17:45 PM
n-Propylbenzene	ND	1.0		µg/L	1	3/28/2012 4:17:45 PM
sec-Butylbenzene	ND	1.0		µg/L	1	3/28/2012 4:17:45 PM
Styrene	ND	1.0		µg/L	1	3/28/2012 4:17:45 PM
tert-Butylbenzene	ND	1.0		µg/L	1	3/28/2012 4:17:45 PM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	3/28/2012 4:17:45 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	3/28/2012 4:17:45 PM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	3/28/2012 4:17:45 PM
trans-1,2-DCE	ND	1.0		µg/L	1	3/28/2012 4:17:45 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	3/28/2012 4:17:45 PM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	3/28/2012 4:17:45 PM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	3/28/2012 4:17:45 PM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	3/28/2012 4:17:45 PM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	3/28/2012 4:17:45 PM
Trichloroethene (TCE)	ND	1.0		µg/L	1	3/28/2012 4:17:45 PM
Trichlorofluoromethane	ND	1.0		µg/L	1	3/28/2012 4:17:45 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	3/28/2012 4:17:45 PM
Vinyl chloride	ND	1.0		µg/L	1	3/28/2012 4:17:45 PM
Xylenes, Total	ND	1.5		µg/L	1	3/28/2012 4:17:45 PM
Surr: 1,2-Dichloroethane-d4	94.1	70-130		%REC	1	3/28/2012 4:17:45 PM
Surr: 4-Bromofluorobenzene	104	70-130		%REC	1	3/28/2012 4:17:45 PM
Surr: Dibromofluoromethane	107	69.8-130		%REC	1	3/28/2012 4:17:45 PM
Surr: Toluene-d8	99.2	70-130		%REC	1	3/28/2012 4:17:45 PM

Qualifiers: * / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1203901

Date Reported: 4/5/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: OW-30

Project: 1st QTR 2012 Groundwater Sampling

Collection Date: 3/21/2012 10:25:00 AM

Lab ID: 1203901-004

Matrix: AQUEOUS

Received Date: 3/23/2012 11:07:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: MMS
Benzene	ND	1.0		µg/L	1	3/28/2012 5:45:32 PM
Toluene	ND	1.0		µg/L	1	3/28/2012 5:45:32 PM
Ethylbenzene	ND	1.0		µg/L	1	3/28/2012 5:45:32 PM
Methyl tert-butyl ether (MTBE)	1,600	20		µg/L	20	3/28/2012 5:16:19 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	3/28/2012 5:45:32 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	3/28/2012 5:45:32 PM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	3/28/2012 5:45:32 PM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	3/28/2012 5:45:32 PM
Naphthalene	ND	2.0		µg/L	1	3/28/2012 5:45:32 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	3/28/2012 5:45:32 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	3/28/2012 5:45:32 PM
Acetone	ND	10		µg/L	1	3/28/2012 5:45:32 PM
Bromobenzene	ND	1.0		µg/L	1	3/28/2012 5:45:32 PM
Bromodichloromethane	ND	1.0		µg/L	1	3/28/2012 5:45:32 PM
Bromoform	ND	1.0		µg/L	1	3/28/2012 5:45:32 PM
Bromomethane	ND	3.0		µg/L	1	3/28/2012 5:45:32 PM
2-Butanone	ND	10		µg/L	1	3/28/2012 5:45:32 PM
Carbon disulfide	ND	10		µg/L	1	3/28/2012 5:45:32 PM
Carbon Tetrachloride	ND	1.0		µg/L	1	3/28/2012 5:45:32 PM
Chlorobenzene	ND	1.0		µg/L	1	3/28/2012 5:45:32 PM
Chloroethane	ND	2.0		µg/L	1	3/28/2012 5:45:32 PM
Chloroform	ND	1.0		µg/L	1	3/28/2012 5:45:32 PM
Chloromethane	ND	3.0		µg/L	1	3/28/2012 5:45:32 PM
2-Chlorotoluene	ND	1.0		µg/L	1	3/28/2012 5:45:32 PM
4-Chlorotoluene	ND	1.0		µg/L	1	3/28/2012 5:45:32 PM
cis-1,2-DCE	ND	1.0		µg/L	1	3/28/2012 5:45:32 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	3/28/2012 5:45:32 PM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	3/28/2012 5:45:32 PM
Dibromochloromethane	ND	1.0		µg/L	1	3/28/2012 5:45:32 PM
Dibromomethane	ND	1.0		µg/L	1	3/28/2012 5:45:32 PM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	3/28/2012 5:45:32 PM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	3/28/2012 5:45:32 PM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	3/28/2012 5:45:32 PM
Dichlorodifluoromethane	ND	1.0		µg/L	1	3/28/2012 5:45:32 PM
1,1-Dichloroethane	ND	1.0		µg/L	1	3/28/2012 5:45:32 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	3/28/2012 5:45:32 PM
1,2-Dichloropropane	ND	1.0		µg/L	1	3/28/2012 5:45:32 PM
1,3-Dichloropropane	ND	1.0		µg/L	1	3/28/2012 5:45:32 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	3/28/2012 5:45:32 PM
1,1-Dichloropropene	ND	1.0		µg/L	1	3/28/2012 5:45:32 PM
Hexachlorobutadiene	ND	1.0		µg/L	1	3/28/2012 5:45:32 PM
2-Hexanone	ND	10		µg/L	1	3/28/2012 5:45:32 PM

Qualifiers: *X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1203901

Date Reported: 4/5/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: OW-30

Project: 1st QTR 2012 Groundwater Sampling

Collection Date: 3/21/2012 10:25:00 AM

Lab ID: 1203901-004

Matrix: AQUEOUS

Received Date: 3/23/2012 11:07:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: MMS
Isopropylbenzene	ND	1.0		µg/L	1	3/28/2012 5:45:32 PM
4-Isopropyltoluene	ND	1.0		µg/L	1	3/28/2012 5:45:32 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	3/28/2012 5:45:32 PM
Methylene Chloride	ND	3.0		µg/L	1	3/28/2012 5:45:32 PM
n-Butylbenzene	ND	1.0		µg/L	1	3/28/2012 5:45:32 PM
n-Propylbenzene	ND	1.0		µg/L	1	3/28/2012 5:45:32 PM
sec-Butylbenzene	ND	1.0		µg/L	1	3/28/2012 5:45:32 PM
Styrene	ND	1.0		µg/L	1	3/28/2012 5:45:32 PM
tert-Butylbenzene	ND	1.0		µg/L	1	3/28/2012 5:45:32 PM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	3/28/2012 5:45:32 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	3/28/2012 5:45:32 PM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	3/28/2012 5:45:32 PM
trans-1,2-DCE	ND	1.0		µg/L	1	3/28/2012 5:45:32 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	3/28/2012 5:45:32 PM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	3/28/2012 5:45:32 PM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	3/28/2012 5:45:32 PM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	3/28/2012 5:45:32 PM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	3/28/2012 5:45:32 PM
Trichloroethene (TCE)	ND	1.0		µg/L	1	3/28/2012 5:45:32 PM
Trichlorofluoromethane	ND	1.0		µg/L	1	3/28/2012 5:45:32 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	3/28/2012 5:45:32 PM
Vinyl chloride	ND	1.0		µg/L	1	3/28/2012 5:45:32 PM
Xylenes, Total	ND	1.5		µg/L	1	3/28/2012 5:45:32 PM
Surr: 1,2-Dichloroethane-d4	92.7	70-130		%REC	1	3/28/2012 5:45:32 PM
Surr: 4-Bromofluorobenzene	106	70-130		%REC	1	3/28/2012 5:45:32 PM
Surr: Dibromofluoromethane	106	69.8-130		%REC	1	3/28/2012 5:45:32 PM
Surr: Toluene-d8	100	70-130		%REC	1	3/28/2012 5:45:32 PM

Qualifiers: * / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203901

05-Apr-12

Client: Western Refining Southwest, Gallup
Project: 1st QTR 2012 Groundwater Sampling

Sample ID	5ml rb	SampType: MBLK		TestCode: EPA Method 8260B: VOLATILES						
Client ID:	PBW	Batch ID: R1773		RunNo: 1773						
Prep Date:		Analysis Date: 3/28/2012		SeqNo: 49782		Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								

Qualifiers:

*X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203901

05-Apr-12

Client: Western Refining Southwest, Gallup
Project: 1st QTR 2012 Groundwater Sampling

Sample ID	5ml rb	SampType:	MBLK	TestCode:	EPA Method 8260B: VOLATILES					
Client ID:	PBW	Batch ID:	R1773	RunNo:	1773					
Prep Date:		Analysis Date:	3/28/2012	SeqNo:	49782	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	1.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	9.1		10.00		91.4	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		104	70	130			
Surr: Dibromofluoromethane	11		10.00		107	69.8	130			
Surr: Toluene-d8	10		10.00		103	70	130			

Sample ID	100ng lcs	SampType:	LCS	TestCode:	EPA Method 8260B: VOLATILES					
Client ID:	LCSW	Batch ID:	R1773	RunNo:	1773					
Prep Date:		Analysis Date:	3/28/2012	SeqNo:	49784	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	98.1	84.1	126			
Toluene	19	1.0	20.00	0	95.7	80	120			
Chlorobenzene	19	1.0	20.00	0	96.9	70	130			
1,1-Dichloroethene	20	1.0	20.00	0	100	83	130			
Trichloroethene (TCE)	19	1.0	20.00	0	96.6	76.2	119			
Surr: 1,2-Dichloroethane-d4	10		10.00		101	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		101	70	130			

Qualifiers:

Value exceeds Maximum Contaminant Level.

Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203901

05-Apr-12

Client: Western Refining Southwest, Gallup
Project: 1st QTR 2012 Groundwater Sampling

Sample ID 100ng lcs	SampType: LCS		TestCode: EPA Method 8260B: VOLATILES							
Client ID: LCSW	Batch ID: R1773		RunNo: 1773							
Prep Date:	Analysis Date: 3/28/2012		SeqNo: 49784		Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	11		10.00		109	69.8	130			
Surr: Toluene-d8	10		10.00		101	70	130			

Sample ID 1203901-001a ms	SampType: MS		TestCode: EPA Method 8260B: VOLATILES							
Client ID: OW-13	Batch ID: R1773		RunNo: 1773							
Prep Date:	Analysis Date: 3/28/2012		SeqNo: 49903		Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	97.4	71.1	135			
Toluene	18	1.0	20.00	0	92.1	74	121			
Chlorobenzene	18	1.0	20.00	0	91.4	70	130			
1,1-Dichloroethene	19	1.0	20.00	0	93.9	76.3	127			
Trichloroethene (TCE)	19	1.0	20.00	0	94.0	70	130			
Surr: 1,2-Dichloroethane-d4	9.7		10.00		97.2	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		114	70	130			
Surr: Dibromofluoromethane	11		10.00		110	69.8	130			
Surr: Toluene-d8	10		10.00		102	70	130			

Sample ID 1203901-001a msd	SampType: MSD		TestCode: EPA Method 8260B: VOLATILES							
Client ID: OW-13	Batch ID: R1773		RunNo: 1773							
Prep Date:	Analysis Date: 3/28/2012		SeqNo: 49907		Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	98.7	71.1	135	1.38	21.9	
Toluene	18	1.0	20.00	0	89.9	74	121	2.48	18.5	
Chlorobenzene	18	1.0	20.00	0	87.6	70	130	4.24	17.7	
1,1-Dichloroethene	19	1.0	20.00	0	92.8	76.3	127	1.11	16.5	
Trichloroethene (TCE)	18	1.0	20.00	0	92.4	70	130	1.71	18.9	
Surr: 1,2-Dichloroethane-d4	10		10.00		103	70	130	0	0	
Surr: 4-Bromofluorobenzene	11		10.00		106	70	130	0	0	
Surr: Dibromofluoromethane	12		10.00		116	69.8	130	0	0	
Surr: Toluene-d8	9.5		10.00		95.2	70	130	0	0	

Qualifiers:

*X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87106
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Western Refining Gallup Work Order Number: 1203901
Received by/date: MLG 03/23/12
Logged By: Anne Thorne 3/23/2012 11:07:00 AM *Anne Thorne*
Completed By: Anne Thorne 3/23/2012 *Anne Thorne*
Reviewed By: *[Signature]* 03/23/12

Chain of Custody

1. Were seals intact? Yes ☐ No ☐ Not Present ☒
2. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
3. How was the sample delivered? Client

Log In

4. Coolers are present? (see 19. for cooler specific information) Yes ☒ No ☐ NA ☐
5. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
6. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
7. Sample(s) in proper container(s)? Yes ☒ No ☐
8. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
9. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
10. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
11. VOA vials have zero headspace? Yes ☒ No ☐ No VOA Vials ☐
12. Were any sample containers received broken? Yes ☐ No ☒
13. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
14. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
15. Is it clear what analyses were requested? Yes ☒ No ☐
16. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH: _____
(<2 or >12 unless noted)
Adjusted? _____
Checked by: _____

Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:	_____	Date	_____
By Whom:	_____	Via:	☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:	_____		
Client Instructions:	_____		

18. Additional remarks:

19. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Client: Wes ☒ Refining		☒ Standard ☐ Rush				
Project Name: 1st QTR 2012 Groundwater		Project #: Sampling				
Mailing Address: Rt 3 Box 7		Project #: Quarterly Sampling				
Phone #: 505-722-3833		Project Manager: Cheryl Johnson				
email or Fax#: 505-722-0210		Sampler: T. Fleener / S. Ukle				
QA/QC Package: ☒ Standard ☐ Level 4 (Full Validation)		On Ice: ☒ Yes ☐ No				
Accreditation: ☐ NELAP ☐ Other		Sample Temperature: 10				
☐ EDD (Type)		HEAL No. 1203901				
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.
3-2-12	1320	Water	OW-13	VDA-4	HCl	-001
	1438		OW-14			-002
	1410		OW-29			-003
	1025		OW-30			-004
Remarks:						
Date: 23-12	Time: 1107	Relinquished by: <i>Liam Walsh</i>		Received by: <i>myuocp</i>		Date: 03/23/12
Date:	Time:	Relinquished by:		Recalled 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
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com*

April 18, 2012

Cheryl Johnson

Western Refining Southwest, Gallup

Rt. 3 Box 7

Gallup, NM 87301

TEL: (505) 722-0231

FAX (505) 722-0210

RE: 1st QTR 2012 Groundwater Sampling

OrderNo.: 1203766

Dear Cheryl Johnson:

Hall Environmental Analysis Laboratory received 3 sample(s) on 3/21/2012 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1203766

Date Reported: 4/18/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: GWM-1

Project: 1st QTR 2012 Groundwater Sampling

Collection Date: 3/20/2012 3:25:00 PM

Lab ID: 1203766-001

Matrix: AQUEOUS

Received Date: 3/21/2012 12:47:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: JPM
Diesel Range Organics (DRO)	3.5	1.0		mg/L	1	3/22/2012 10:39:05 AM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	3/22/2012 10:39:05 AM
Surr: DNOP	104	61.3-164		%REC	1	3/22/2012 10:39:05 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	1.0	1.0		mg/L	20	3/24/2012 3:15:58 PM
Surr: BFB	92.2	69.3-120		%REC	20	3/24/2012 3:15:58 PM
EPA METHOD 300.0: ANIONS						Analyst: BRM
Fluoride	3.6	0.50		mg/L	5	3/21/2012 6:52:32 PM
Chloride	1,200	50		mg/L	100	3/22/2012 4:40:20 PM
Nitrogen, Nitrite (As N)	ND	0.50		mg/L	5	3/21/2012 6:52:32 PM
Bromide	3.2	0.50		mg/L	5	3/21/2012 6:52:32 PM
Nitrogen, Nitrate (As N)	ND	0.50		mg/L	5	3/21/2012 6:52:32 PM
Phosphorus, Orthophosphate (As P)	ND	2.5		mg/L	5	3/21/2012 6:52:32 PM
Sulfate	130	2.5		mg/L	5	3/21/2012 6:52:32 PM
EPA METHOD 200.7: DISSOLVED METALS						Analyst: RAG
Barium	0.97	0.0020		mg/L	1	4/2/2012 6:31:59 PM
Cadmium	ND	0.0020		mg/L	1	4/2/2012 6:31:59 PM
Calcium	320	10		mg/L	10	4/2/2012 6:44:55 PM
Chromium	ND	0.0060		mg/L	1	4/2/2012 6:31:59 PM
Copper	ND	0.0060		mg/L	1	4/2/2012 6:31:59 PM
Iron	9.4	0.20	*	mg/L	10	4/2/2012 6:44:55 PM
Lead	0.0052	0.0050		mg/L	1	4/2/2012 6:31:59 PM
Magnesium	75	1.0		mg/L	1	4/2/2012 6:31:59 PM
Manganese	3.0	0.020	*	mg/L	10	4/2/2012 6:44:55 PM
Potassium	2.5	1.0		mg/L	1	4/2/2012 6:31:59 PM
Silver	ND	0.0050		mg/L	1	4/2/2012 6:31:59 PM
Sodium	1,100	100		mg/L	100	4/5/2012 8:26:04 AM
Zinc	0.067	0.010		mg/L	1	4/2/2012 6:31:59 PM
EPA METHOD 200.7: TOTAL METALS						Analyst: RAG
Barium	1.1	0.020		mg/L	10	3/27/2012 4:15:23 PM
Cadmium	ND	0.0020		mg/L	1	3/26/2012 3:39:29 PM
Chromium	ND	0.0060		mg/L	1	3/26/2012 3:39:29 PM
Copper	ND	0.0060		mg/L	1	3/26/2012 3:39:29 PM
Iron	8.9	0.20	*	mg/L	10	3/28/2012 2:44:45 PM
Lead	0.0058	0.0050		mg/L	1	3/26/2012 3:39:29 PM
Manganese	3.0	0.020	*	mg/L	10	3/27/2012 4:15:23 PM
Silver	ND	0.0050		mg/L	1	3/26/2012 3:39:29 PM
Zinc	0.016	0.010		mg/L	1	3/26/2012 3:39:29 PM
EPA 200.8: DISSOLVED METALS						Analyst: SNV

Qualifiers: * / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1203766

Date Reported: 4/18/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: GWM-1

Project: 1st QTR 2012 Groundwater Sampling

Collection Date: 3/20/2012 3:25:00 PM

Lab ID: 1203766-001

Matrix: AQUEOUS

Received Date: 3/21/2012 12:47:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA 200.8: DISSOLVED METALS						Analyst: SNV
Arsenic	0.073	0.0020	*	mg/L	2	4/12/2012 6:28:22 PM
Selenium	0.0096	0.0020		mg/L	2	4/13/2012 2:33:25 PM
Uranium	0.0060	0.0020		mg/L	2	4/12/2012 6:28:22 PM
200.8 ICPMS METALS:TOTAL						Analyst: SNV
Arsenic	0.073	0.0050	*	mg/L	5	4/17/2012 3:00:48 PM
Selenium	0.010	0.0025		mg/L	2.5	4/4/2012 5:17:45 PM
Uranium	0.0069	0.0025		mg/L	2.5	4/4/2012 5:17:45 PM
EPA METHOD 245.1: MERCURY						Analyst: JLF
Mercury	ND	0.0010		mg/L	5	3/23/2012 4:43:44 PM
EPA METHOD 8260B: VOLATILES						Analyst: MMS
Benzene	5.7	1.0		µg/L	1	3/26/2012 9:14:17 PM
Toluene	ND	1.0		µg/L	1	3/26/2012 9:14:17 PM
Ethylbenzene	1.9	1.0		µg/L	1	3/26/2012 9:14:17 PM
Methyl tert-butyl ether (MTBE)	54	1.0		µg/L	1	3/26/2012 9:14:17 PM
1,2,4-Trimethylbenzene	1.8	1.0		µg/L	1	3/26/2012 9:14:17 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	3/26/2012 9:14:17 PM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	3/26/2012 9:14:17 PM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	3/26/2012 9:14:17 PM
Naphthalene	ND	2.0		µg/L	1	3/26/2012 9:14:17 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	3/26/2012 9:14:17 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	3/26/2012 9:14:17 PM
Acetone	11	10		µg/L	1	3/26/2012 9:14:17 PM
Bromobenzene	ND	1.0		µg/L	1	3/26/2012 9:14:17 PM
Bromodichloromethane	ND	1.0		µg/L	1	3/26/2012 9:14:17 PM
Bromoform	ND	1.0		µg/L	1	3/26/2012 9:14:17 PM
Bromomethane	ND	3.0		µg/L	1	3/26/2012 9:14:17 PM
2-Butanone	ND	10		µg/L	1	3/26/2012 9:14:17 PM
Carbon disulfide	ND	10		µg/L	1	3/26/2012 9:14:17 PM
Carbon Tetrachloride	ND	1.0		µg/L	1	3/26/2012 9:14:17 PM
Chlorobenzene	ND	1.0		µg/L	1	3/26/2012 9:14:17 PM
Chloroethane	ND	2.0		µg/L	1	3/26/2012 9:14:17 PM
Chloroform	ND	1.0		µg/L	1	3/26/2012 9:14:17 PM
Chloromethane	ND	3.0		µg/L	1	3/26/2012 9:14:17 PM
2-Chlorotoluene	ND	1.0		µg/L	1	3/26/2012 9:14:17 PM
4-Chlorotoluene	ND	1.0		µg/L	1	3/26/2012 9:14:17 PM
cis-1,2-DCE	ND	1.0		µg/L	1	3/26/2012 9:14:17 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	3/26/2012 9:14:17 PM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	3/26/2012 9:14:17 PM
Dibromochloromethane	ND	1.0		µg/L	1	3/26/2012 9:14:17 PM
Dibromomethane	ND	1.0		µg/L	1	3/26/2012 9:14:17 PM

Qualifiers:

- *X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1203766

Date Reported: 4/18/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: GWM-1

Project: 1st QTR 2012 Groundwater Sampling

Collection Date: 3/20/2012 3:25:00 PM

Lab ID: 1203766-001

Matrix: AQUEOUS

Received Date: 3/21/2012 12:47:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: MMS
1,2-Dichlorobenzene	ND	1.0		µg/L	1	3/26/2012 9:14:17 PM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	3/26/2012 9:14:17 PM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	3/26/2012 9:14:17 PM
Dichlorodifluoromethane	ND	1.0		µg/L	1	3/26/2012 9:14:17 PM
1,1-Dichloroethane	ND	1.0		µg/L	1	3/26/2012 9:14:17 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	3/26/2012 9:14:17 PM
1,2-Dichloropropane	ND	1.0		µg/L	1	3/26/2012 9:14:17 PM
1,3-Dichloropropane	ND	1.0		µg/L	1	3/26/2012 9:14:17 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	3/26/2012 9:14:17 PM
1,1-Dichloropropene	ND	1.0		µg/L	1	3/26/2012 9:14:17 PM
Hexachlorobutadiene	ND	1.0		µg/L	1	3/26/2012 9:14:17 PM
2-Hexanone	ND	10		µg/L	1	3/26/2012 9:14:17 PM
Isopropylbenzene	ND	1.0		µg/L	1	3/26/2012 9:14:17 PM
4-Isopropyltoluene	ND	1.0		µg/L	1	3/26/2012 9:14:17 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	3/26/2012 9:14:17 PM
Methylene Chloride	ND	3.0		µg/L	1	3/26/2012 9:14:17 PM
n-Butylbenzene	ND	1.0		µg/L	1	3/26/2012 9:14:17 PM
n-Propylbenzene	1.1	1.0		µg/L	1	3/26/2012 9:14:17 PM
sec-Butylbenzene	ND	1.0		µg/L	1	3/26/2012 9:14:17 PM
Styrene	ND	1.0		µg/L	1	3/26/2012 9:14:17 PM
tert-Butylbenzene	ND	1.0		µg/L	1	3/26/2012 9:14:17 PM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	3/26/2012 9:14:17 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	3/26/2012 9:14:17 PM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	3/26/2012 9:14:17 PM
trans-1,2-DCE	ND	1.0		µg/L	1	3/26/2012 9:14:17 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	3/26/2012 9:14:17 PM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	3/26/2012 9:14:17 PM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	3/26/2012 9:14:17 PM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	3/26/2012 9:14:17 PM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	3/26/2012 9:14:17 PM
Trichloroethene (TCE)	ND	1.0		µg/L	1	3/26/2012 9:14:17 PM
Trichlorofluoromethane	ND	1.0		µg/L	1	3/26/2012 9:14:17 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	3/26/2012 9:14:17 PM
Vinyl chloride	ND	1.0		µg/L	1	3/26/2012 9:14:17 PM
Xylenes, Total	7.0	1.5		µg/L	1	3/26/2012 9:14:17 PM
Surr: 1,2-Dichloroethane-d4	93.9	70-130		%REC	1	3/26/2012 9:14:17 PM
Surr: 4-Bromofluorobenzene	99.1	70-130		%REC	1	3/26/2012 9:14:17 PM
Surr: Dibromofluoromethane	113	69.8-130		%REC	1	3/26/2012 9:14:17 PM
Surr: Toluene-d8	99.3	70-130		%REC	1	3/26/2012 9:14:17 PM

Qualifiers: *X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.**Analytical Report**

Lab Order 1203766

Date Reported: 4/18/2012

CLIENT: Western Refining Southwest, Gallup**Client Sample ID:** GMW-2**Project:** 1st QTR 2012 Groundwater Sampling**Collection Date:** 3/20/2012 4:10:00 PM**Lab ID:** 1203766-002**Matrix:** AQUEOUS**Received Date:** 3/21/2012 12:47:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: JMP
Diesel Range Organics (DRO)	2.4	1.0		mg/L	1	3/22/2012 11:04:27 AM
Surr: DNOP	111	61.3-164		%REC	1	3/22/2012 11:04:27 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	0.25		mg/L	5	3/26/2012 2:02:37 AM
Surr: BFB	82.3	69.3-120		%REC	5	3/26/2012 2:02:37 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	12		µg/L	5	3/24/2012 1:15:05 PM
Benzene	ND	5.0		µg/L	5	3/24/2012 1:15:05 PM
Toluene	ND	5.0		µg/L	5	3/24/2012 1:15:05 PM
Ethylbenzene	ND	5.0		µg/L	5	3/24/2012 1:15:05 PM
Xylenes, Total	ND	10		µg/L	5	3/24/2012 1:15:05 PM
Surr: 4-Bromofluorobenzene	69.8	55-140		%REC	5	3/24/2012 1:15:05 PM
EPA METHOD 300.0: ANIONS						Analyst: BRM
Fluoride	3.6	0.50		mg/L	5	3/21/2012 7:17:20 PM
Chloride	1,500	50		mg/L	100	3/22/2012 4:52:45 PM
Nitrogen, Nitrite (As N)	ND	0.50		mg/L	5	3/21/2012 7:17:20 PM
Bromide	4.4	0.50		mg/L	5	3/21/2012 7:17:20 PM
Nitrogen, Nitrate (As N)	38	0.50	*	mg/L	5	3/21/2012 7:17:20 PM
Phosphorus, Orthophosphate (As P)	ND	2.5		mg/L	5	3/21/2012 7:17:20 PM
Sulfate	1,300	50		mg/L	100	3/22/2012 4:52:45 PM
EPA METHOD 200.7: DISSOLVED METALS						Analyst: ELS
Calcium	530	10		mg/L	10	4/5/2012 8:28:46 AM
Magnesium	95	1.0		mg/L	1	4/2/2012 6:47:20 PM
Potassium	2.9	1.0		mg/L	1	4/2/2012 6:47:20 PM
Sodium	1,500	100		mg/L	100	4/5/2012 8:31:37 AM

Qualifiers: */X Value exceeds Maximum Contaminant Level.
 E Value above quantitation range
 J Analyte detected below quantitation limits
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits

 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1203766

Date Reported: 4/18/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: GMW-3

Project: 1st QTR 2012 Groundwater Sampling

Collection Date: 3/20/2012 4:25:00 PM

Lab ID: 1203766-003

Matrix: AQUEOUS

Received Date: 3/21/2012 12:47:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: JPM
Diesel Range Organics (DRO)	2.7	1.0		mg/L	1	3/22/2012 11:29:49 AM
Surr: DNOP	108	61.3-164		%REC	1	3/22/2012 11:29:49 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	0.25		mg/L	5	3/24/2012 2:45:32 PM
Surr: BFB	97.1	69.3-120		%REC	5	3/24/2012 2:45:32 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	12		µg/L	5	3/24/2012 2:45:32 PM
Benzene	ND	5.0		µg/L	5	3/24/2012 2:45:32 PM
Toluene	ND	5.0		µg/L	5	3/24/2012 2:45:32 PM
Ethylbenzene	ND	5.0		µg/L	5	3/24/2012 2:45:32 PM
Xylenes, Total	ND	10		µg/L	5	3/24/2012 2:45:32 PM
Surr: 4-Bromofluorobenzene	98.8	55-140		%REC	5	3/24/2012 2:45:32 PM
EPA METHOD 300.0: ANIONS						Analyst: BRM
Fluoride	4.9	0.50	*	mg/L	5	3/21/2012 7:42:10 PM
Chloride	1,300	50		mg/L	100	3/22/2012 5:05:10 PM
Nitrogen, Nitrite (As N)	ND	0.50		mg/L	5	3/21/2012 7:42:10 PM
Bromide	2.8	0.50		mg/L	5	3/21/2012 7:42:10 PM
Nitrogen, Nitrate (As N)	18	0.50	*	mg/L	5	3/21/2012 7:42:10 PM
Phosphorus, Orthophosphate (As P)	ND	2.5		mg/L	5	3/21/2012 7:42:10 PM
Sulfate	1,600	50		mg/L	100	3/22/2012 5:05:10 PM
EPA METHOD 200.7: DISSOLVED METALS						Analyst: RAG
Calcium	480	5.0		mg/L	5	4/2/2012 6:57:46 PM
Magnesium	87	1.0		mg/L	1	4/2/2012 6:55:16 PM
Potassium	3.7	1.0		mg/L	1	4/2/2012 6:55:16 PM
Sodium	1,400	100		mg/L	100	4/5/2012 8:34:19 AM

Qualifiers: * / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203766

18-Apr-12

Client: Western Refining Southwest, Gallup
Project: 1st QTR 2012 Groundwater Sampling

Sample ID	MB	SampType:	MBLK	TestCode:	EPA Method 200.7: Dissolved Metals					
Client ID:	PBW	Batch ID:	R1868	RunNo:	1868					
Prep Date:		Analysis Date:	4/2/2012	SeqNo:	52370	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	ND	0.0020								
Cadmium	ND	0.0020								
Calcium	ND	1.0								
Chromium	ND	0.0060								
Copper	ND	0.0060								
Iron	ND	0.020								
Lead	ND	0.0050								
Magnesium	ND	1.0								
Manganese	ND	0.0020								
Potassium	ND	1.0								
Silver	ND	0.0050								
Zinc	ND	0.010								

Sample ID	LCS	SampType:	LCS	TestCode:	EPA Method 200.7: Dissolved Metals					
Client ID:	LCSW	Batch ID:	R1868	RunNo:	1868					
Prep Date:		Analysis Date:	4/2/2012	SeqNo:	52371	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.52	0.0020	0.5000	0	104	85	115			
Cadmium	0.52	0.0020	0.5000	0	104	85	115			
Calcium	48	1.0	50.00	0	96.3	85	115			
Chromium	0.51	0.0060	0.5000	0	103	85	115			
Copper	0.52	0.0060	0.5000	0	104	85	115			
Iron	0.51	0.020	0.5000	0	102	85	115			
Lead	0.51	0.0050	0.5000	0	102	85	115			
Magnesium	49	1.0	50.00	0	97.1	85	115			
Manganese	0.51	0.0020	0.5000	0	102	85	115			
Potassium	47	1.0	50.00	0	93.3	85	115			
Silver	0.11	0.0050	0.1000	0	106	85	115			
Zinc	0.52	0.010	0.5000	0	103	85	115			

Sample ID	MB	SampType:	MBLK	TestCode:	EPA Method 200.7: Dissolved Metals					
Client ID:	PBW	Batch ID:	R1923	RunNo:	1923					
Prep Date:		Analysis Date:	4/5/2012	SeqNo:	53521	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	ND	1.0								
Sodium	ND	1.0								

Qualifiers:

Value exceeds Maximum Contaminant Level.

Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203766

18-Apr-12

Client: Western Refining Southwest, Gallup

Project: 1st QTR 2012 Groundwater Sampling

Sample ID	LCS		SampType: LCS		TestCode: EPA Method 200.7: Dissolved Metals					
Client ID:	LCSW		Batch ID: R1923		RunNo: 1923					
Prep Date:			Analysis Date: 4/5/2012		SeqNo: 53522		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	52	1.0	50.00	0	104	85	115			
Sodium	51	1.0	50.00	0	103	85	115			

Sample ID	MB	SampType:	MBLK		TestCode:	EPA Method 200.7: Dissolved Metals				
Client ID:	PBW	Batch ID:	R1923		RunNo:	1923				
Prep Date:		Analysis Date:	4/5/2012		SeqNo:	53523		Units: mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	ND	1.0								
Sodium	ND	1.0								

Sample ID	LCS		SampType:	LCS		TestCode:	EPA Method 200.7: Dissolved Metals				
Client ID:	LCSW		Batch ID:	R1923		RunNo:	1923				
Prep Date:			Analysis Date:	4/5/2012		SeqNo:	53524		Units: mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Calcium	53	1.0	50.00	0	105	85	115				
Sodium	52	1.0	50.00	0	104	85	115				

Qualifiers:

* / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203766

18-Apr-12

Client: Western Refining Southwest, Gallup
Project: 1st QTR 2012 Groundwater Sampling

Sample ID	MB-1230	SampType:	MBLK		TestCode:	EPA Method 200.7: Total Metals				
Client ID:	PBW	Batch ID:	1230		RunNo:	1702				
Prep Date:	3/26/2012	Analysis Date:	3/26/2012		SeqNo:	48039	Units:	mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	ND	0.0020								
Cadmium	ND	0.0020								
Chromium	ND	0.0060								
Copper	ND	0.0060								
Iron	ND	0.020								
Lead	ND	0.0050								
Manganese	ND	0.0020								
Silver	ND	0.0050								
Zinc	ND	0.010								

Sample ID	LCS-1230		SampType: LCS		TestCode: EPA Method 200.7: Total Metals					
Client ID:	LCSW		Batch ID: 1230		RunNo: 1702					
Prep Date:	3/26/2012		Analysis Date: 3/26/2012		SeqNo: 48040		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.49	0.0020	0.5000	0	98.7	85	115			
Cadmium	0.51	0.0020	0.5000	0.0004200	101	85	115			
Chromium	0.49	0.0060	0.5000	0.0006400	98.8	85	115			
Copper	0.50	0.0060	0.5000	0.001800	99.1	85	115			
Iron	0.48	0.020	0.5000	0	96.3	85	115			
Lead	0.49	0.0050	0.5000	0	98.4	85	115			
Manganese	0.48	0.0020	0.5000	0	96.2	85	115			
Silver	0.10	0.0050	0.1000	0	102	85	115			
Zinc	0.49	0.010	0.5000	0	97.7	85	115			

Qualifiers:

- | | | |
|--|----|--|
| Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND | Not Detected at the Reporting Limit |
| R RPD outside accepted recovery limits | RL | Reporting Detection Limit |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203766

18-Apr-12

Client: Western Refining Southwest, Gallup

Project: 1st QTR 2012 Groundwater Sampling

Sample ID	MB	SampType:	MBLK	TestCode:	EPA 200.8: Dissolved Metals					
Client ID:	PBW	Batch ID:	R2111	RunNo:	2111					
Prep Date:		Analysis Date:	4/12/2012	SeqNo:	58404	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.0010								
Uranium	ND	0.0010								

Sample ID	LCS	SampType: LCS			TestCode: EPA 200.8: Dissolved Metals					
Client ID:	LCSW	Batch ID: R2111			RunNo: 2111					
Prep Date:		Analysis Date: 4/12/2012			SeqNo: 58405		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.025	0.0010	0.02500	0	99.4	85	115			
Uranium	0.024	0.0010	0.02500	0	95.9	85	115			

Sample ID	1203798-001DMS		SampType:	MS		TestCode:	EPA 200.8: Dissolved Metals				
Client ID:	BatchQC		Batch ID:	R2111		RunNo:	2111				
Prep Date:			Analysis Date:	4/12/2012		SeqNo:	58409		Units:	mg/L	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Arsenic	0.028	0.0010	0.02500	0.003713	97.1	70	130				
Uranium	0.026	0.0010	0.02500	0.001260	97.5	70	130				

Sample ID	1203898-001EMS		SampType:	MS		TestCode:	EPA 200.8: Dissolved Metals				
Client ID:	BatchQC		Batch ID:	R2111		RunNo:	2111				
Prep Date:			Analysis Date:	4/12/2012		SeqNo:	58420		Units:	mg/L	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Arsenic	0.026	0.0010	0.02500	0.001858	97.3	70	130				

Sample ID	MB	SampType:	MBLK	TestCode:	EPA 200.8: Dissolved Metals					
Client ID:	PBW	Batch ID:	R2139	RunNo:	2139					
Prep Date:		Analysis Date:	4/13/2012	SeqNo:	59445	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Selenium	ND	0.0010								

Sample ID	LCS	SampType:	LCS	TestCode:	EPA 200.8: Dissolved Metals					
Client ID:	LCSW	Batch ID:	R2139	RunNo:	2139					
Prep Date:		Analysis Date:	4/13/2012	SeqNo:	59446	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Selenium	0.025	0.0010	0.02500	0	100	85	115			

Qualifiers:

*X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203766

18-Apr-12

Client: Western Refining Southwest, Gallup
Project: 1st QTR 2012 Groundwater Sampling

Sample ID	1203798-001DMS		SampType:	MS		TestCode:	EPA 200.8: Dissolved Metals				
Client ID:	BatchQC		Batch ID:	R2139		RunNo:	2139				
Prep Date:			Analysis Date:	4/13/2012		SeqNo:	59450		Units: mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Selenium	0.028	0.0010	0.02500	0.005266	91.2	70	130				

Qualifiers:

Value exceeds Maximum Contaminant Level.
Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203766

18-Apr-12

Client: Western Refining Southwest, Gallup
Project: 1st QTR 2012 Groundwater Sampling

Sample ID	MB-1230	SampType:	MBLK	TestCode:	200.8 ICPMS Metals:Total					
Client ID:	PBW	Batch ID:	1230	RunNo:	1930					
Prep Date:	3/26/2012	Analysis Date:	4/4/2012	SeqNo:	53748	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.0025								
Selenium	ND	0.0025								
Uranium	ND	0.0025								

Qualifiers:

*X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203766

18-Apr-12

Client: Western Refining Southwest, Gallup
Project: 1st QTR 2012 Groundwater Sampling

Sample ID	MB-1217	SampType:	MBLK	TestCode:	EPA Method 245.1: Mercury					
Client ID:	PBW	Batch ID:	1217	RunNo:	1649					
Prep Date:	3/23/2012	Analysis Date:	3/23/2012	SeqNo:	46664	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.00020								

Sample ID	LCS-1217	SampType:	LCS	TestCode:	EPA Method 245.1: Mercury					
Client ID:	LCSW	Batch ID:	1217	RunNo:	1649					
Prep Date:	3/23/2012	Analysis Date:	3/23/2012	SeqNo:	46665	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0050	0.00020	0.005000	0	101	80	120			

Sample ID	1203766-001EMS	SampType:	MS	TestCode:	EPA Method 245.1: Mercury					
Client ID:	GWM-1	Batch ID:	1217	RunNo:	1649					
Prep Date:	3/23/2012	Analysis Date:	3/23/2012	SeqNo:	46696	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0054	0.0010	0.005000	0	108	75	125			

Sample ID	1203766-001EMSD	SampType:	MSD	TestCode:	EPA Method 245.1: Mercury					
Client ID:	GWM-1	Batch ID:	1217	RunNo:	1649					
Prep Date:	3/23/2012	Analysis Date:	3/23/2012	SeqNo:	46697	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0055	0.0010	0.005000	0	111	75	125	2.60	20	

Qualifiers:

Value exceeds Maximum Contaminant Level.
Value above quantitation range
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R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203766

18-Apr-12

Client: Western Refining Southwest, Gallup

Project: 1st QTR 2012 Groundwater Sampling

Sample ID	MB		SampType:	MBLK		TestCode:	EPA Method 300.0: Anions			
Client ID:	PBW		Batch ID:	R1603		RunNo:	1603			
Prep Date:			Analysis Date:	3/21/2012		SeqNo:	45120		Units: mg/L	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.10								
Nitrogen, Nitrite (As N)	ND	0.10								
Bromide	ND	0.10								
Nitrogen, Nitrate (As N)	ND	0.10								
Phosphorus, Orthophosphate (As P	ND	0.50								
Sulfate	ND	0.50								

Sample ID	LCS		SampType:	LCS		TestCode:	EPA Method 300.0: Anions			
Client ID:	LCSW		Batch ID:	R1603		RunNo:	1603			
Prep Date:			Analysis Date:	3/21/2012		SeqNo:	45121		Units: mg/L	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.51	0.10	0.5000	0	102	90	110			
Nitrogen, Nitrite (As N)	0.94	0.10	1.000	0	93.9	90	110			
Bromide	2.4	0.10	2.500	0	94.7	90	110			
Nitrogen, Nitrate (As N)	2.4	0.10	2.500	0	97.0	90	110			
Phosphorus, Orthophosphate (As P	4.8	0.50	5.000	0	95.9	90	110			
Sulfate	9.7	0.50	10.00	0	97.0	90	110			

Sample ID	LCS D		SampType:	LCS D		TestCode:	EPA Method 300.0: Anions			
Client ID:	LCSS02		Batch ID:	R1603		RunNo:	1603			
Prep Date:			Analysis Date:	3/21/2012		SeqNo:	45122		Units: mg/L	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.52	0.10	0.5000	0	104	90	110	2.06	20	
Nitrogen, Nitrite (As N)	0.95	0.10	1.000	0	94.5	90	110	0.669	20	
Bromide	2.4	0.10	2.500	0	95.3	90	110	0.658	20	
Nitrogen, Nitrate (As N)	2.4	0.10	2.500	0	97.5	90	110	0.580	20	
Phosphorus, Orthophosphate (As P	4.8	0.50	5.000	0	96.4	90	110	0.448	20	
Sulfate	9.7	0.50	10.00	0	97.4	90	110	0.462	20	

Sample ID	1203750-001FMS		SampType:	MS		TestCode:	EPA Method 300.0: Anions			
Client ID:	BatchQC		Batch ID:	R1603		RunNo:	1603			
Prep Date:			Analysis Date:	3/21/2012		SeqNo:	45124		Units: mg/L	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	25	5.0	25.00	1.873	94.2	72.9	113			
Bromide	150	5.0	125.0	31.23	94.3	76	114			
Nitrogen, Nitrate (As N)	120	5.0	125.0	0	96.5	82.8	116			
Phosphorus, Orthophosphate (As P	230	25	250.0	0	92.7	79.3	108			

Qualifiers:

* / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203766

18-Apr-12

Client: Western Refining Southwest, Gallup
Project: 1st QTR 2012 Groundwater Sampling

Sample ID	1203750-001FMSD		SampType:	MSD		TestCode:	EPA Method 300.0: Anions			
Client ID:	BatchQC		Batch ID:	R1603		RunNo:	1603			
Prep Date:			Analysis Date:	3/21/2012		SeqNo:	45125		Units:	mg/L
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	26	5.0	25.00	1.873	94.9	72.9	113	0.763	20	
Bromide	150	5.0	125.0	31.23	94.8	76	114	0.457	20	
Nitrogen, Nitrate (As N)	120	5.0	125.0	0	97.0	82.8	116	0.495	20	
Phosphorus, Orthophosphate (As P	230	25	250.0	0	93.3	79.3	108	0.696	20	

Sample ID	1203795-001AMS		SampType:	MS		TestCode:	EPA Method 300.0: Anions			
Client ID:	BatchQC		Batch ID:	R1603		RunNo:	1603			
Prep Date:			Analysis Date:	3/21/2012		SeqNo:	45133		Units:	mg/L
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.99	0.10	0.5000	0.5112	95.4	72.9	113			
Nitrogen, Nitrite (As N)	0.89	0.10	1.000	0	89.2	77.6	111			
Bromide	2.4	0.10	2.500	0	96.5	76	114			
Nitrogen, Nitrate (As N)	3.5	0.10	2.500	0.9770	101	82.8	116			
Phosphorus, Orthophosphate (As P	4.7	0.50	5.000	0	94.7	79.3	108			

Sample ID	1203795-001AMSD		SampType:	MSD		TestCode:	EPA Method 300.0: Anions			
Client ID:	BatchQC		Batch ID:	R1603		RunNo:	1603			
Prep Date:			Analysis Date:	3/21/2012		SeqNo:	45134		Units:	mg/L
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.99	0.10	0.5000	0.5112	96.1	72.9	113	0.353	20	
Nitrogen, Nitrite (As N)	0.90	0.10	1.000	0	89.7	77.6	111	0.590	20	
Bromide	2.4	0.10	2.500	0	96.7	76	114	0.146	20	
Nitrogen, Nitrate (As N)	3.5	0.10	2.500	0.9770	102	82.8	116	0.457	20	
Phosphorus, Orthophosphate (As P	4.8	0.50	5.000	0	95.6	79.3	108	0.913	20	

Sample ID	MB		SampType:	MBLK		TestCode:	EPA Method 300.0: Anions			
Client ID:	PBW		Batch ID:	R1629		RunNo:	1629			
Prep Date:			Analysis Date:	3/22/2012		SeqNo:	46248		Units:	mg/L
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								
Sulfate	ND	0.50								

Sample ID	LCS		SampType:	LCS		TestCode:	EPA Method 300.0: Anions			
Client ID:	LCSW		Batch ID:	R1629		RunNo:	1629			
Prep Date:			Analysis Date:	3/22/2012		SeqNo:	46249		Units:	mg/L
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.7	0.50	5.000	0	94.2	90	110			
Sulfate	9.8	0.50	10.00	0	97.6	90	110			

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203766

18-Apr-12

Client: Western Refining Southwest, Gallup

Project: 1st QTR 2012 Groundwater Sampling

Sample ID	1203799-001AMS	SampType:	MS	TestCode:	EPA Method 300.0: Anions					
Client ID:	BatchQC	Batch ID:	R1629	RunNo:	1629					
Prep Date:		Analysis Date:	3/22/2012	SeqNo:	46261	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	17	0.50	5.000	11.60	104	78	107			

Sample ID	1203799-001AMSD	SampType:	MSD	TestCode:	EPA Method 300.0: Anions					
Client ID:	BatchQC	Batch ID:	R1629	RunNo:	1629					
Prep Date:		Analysis Date:	3/22/2012	SeqNo:	46262	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	17	0.50	5.000	11.60	101	78	107	0.778	20	

Qualifiers:

*X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203766

18-Apr-12

Client: Western Refining Southwest, Gallup
Project: 1st QTR 2012 Groundwater Sampling

Sample ID	MB-1190		SampType:	MBLK		TestCode:	EPA Method 8015B: Diesel Range				
Client ID:	PBW		Batch ID:	1190		RunNo:	1609				
Prep Date:	3/22/2012		Analysis Date:	3/22/2012		SeqNo:	45452		Units: mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	ND	1.0									
Motor Oil Range Organics (MRO)	ND	5.0									
Surr: DNOP	1.0		1.000		102	61.3	164				

Sample ID	LCS-1190		SampType:	LCS		TestCode:	EPA Method 8015B: Diesel Range				
Client ID:	LCSW		Batch ID:	1190		RunNo:	1609				
Prep Date:	3/22/2012		Analysis Date:	3/22/2012		SeqNo:	45460		Units: mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	4.9	1.0	5.000	0	97.9	74	157				
Surr: DNOP	0.50		0.5000		101	61.3	164				

Sample ID	LCSD-1190		SampType:	LCSD		TestCode:	EPA Method 8015B: Diesel Range				
Client ID:	LCSS02		Batch ID:	1190		RunNo:	1609				
Prep Date:	3/22/2012		Analysis Date:	3/22/2012		SeqNo:	45474		Units: mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	5.4	1.0	5.000	0	109	74	157	10.5	23		
Surr: DNOP	0.54		0.5000		108	61.3	164	0	0		

Qualifiers:

- | | | |
|--|----|--|
| Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND | Not Detected at the Reporting Limit |
| R RPD outside accepted recovery limits | RL | Reporting Detection Limit |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203766

18-Apr-12

Client: Western Refining Southwest, Gallup

Project: 1st QTR 2012 Groundwater Sampling

Sample ID	5ML RB	SampType:	MBLK	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	PBW	Batch ID:	R1654	RunNo:	1654					
Prep Date:		Analysis Date:	3/23/2012	SeqNo:	46786	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	18		20.00		88.5	69.3	120			

Sample ID	2.5UG GRO LCS	SampType:	LCS	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	LCSW	Batch ID:	R1654	RunNo:	1654					
Prep Date:		Analysis Date:	3/23/2012	SeqNo:	46787	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	20		20.00		98.5	69.3	120			

Sample ID	5ML RB	SampType:	MBLK	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	PBW	Batch ID:	R1658	RunNo:	1658					
Prep Date:		Analysis Date:	3/24/2012	SeqNo:	46945	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050								
Surr: BFB	18		20.00		92.2	69.3	120			

Sample ID	2.5UG GRO LCS	SampType:	LCS	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	LCSW	Batch ID:	R1658	RunNo:	1658					
Prep Date:		Analysis Date:	3/24/2012	SeqNo:	46946	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.59	0.050	0.5000	0	119	101	123			
Surr: BFB	20		20.00		102	69.3	120			

Sample ID	1203766-001AMS	SampType:	MS	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	GWM-1	Batch ID:	R1658	RunNo:	1658					
Prep Date:		Analysis Date:	3/24/2012	SeqNo:	46955	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	12	1.0	10.00	1.048	107	75.4	121			
Surr: BFB	380		400.0		95.8	69.3	120			

Sample ID	1203766-001AMSD	SampType:	MSD	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	GWM-1	Batch ID:	R1658	RunNo:	1658					
Prep Date:		Analysis Date:	3/24/2012	SeqNo:	46956	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	12	1.0	10.00	1.048	110	75.4	121	2.02	10.5	
Surr: BFB	380		400.0		93.9	69.3	120	0	0	

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203766

18-Apr-12

Client: Western Refining Southwest, Gallup
Project: 1st QTR 2012 Groundwater Sampling

Sample ID	5ML RB	SampType:	MBLK	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	PBW	Batch ID:	R1683	RunNo:	1683					
Prep Date:		Analysis Date:	3/25/2012	SeqNo:	47649	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050								
Surr: BFB	17		20.00		86.1	69.3	120			

Sample ID	2.5UG GRO LCS	SampType:	LCS	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	LCSW	Batch ID:	R1683	RunNo:	1683					
Prep Date:		Analysis Date:	3/25/2012	SeqNo:	47650	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.56	0.050	0.5000	0	113	101	123			
Surr: BFB	19		20.00		96.0	69.3	120			

Qualifiers:

- Value exceeds Maximum Contaminant Level.
Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203766

18-Apr-12

Client: Western Refining Southwest, Gallup

Project: 1st QTR 2012 Groundwater Sampling

Sample ID	5ML RB	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBW	Batch ID:	R1655	RunNo:	1655					
Prep Date:		Analysis Date:	3/23/2012	SeqNo:	46805	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	18		20.00		89.8	55	140			

Sample ID	100NG BTEX LCS	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSW	Batch ID:	R1655	RunNo:	1655					
Prep Date:		Analysis Date:	3/23/2012	SeqNo:	46806	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	22		20.00		110	55	140			

Sample ID	5ML RB	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBW	Batch ID:	R1659	RunNo:	1659					
Prep Date:		Analysis Date:	3/24/2012	SeqNo:	46980	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	2.5								
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	2.0								
Surr: 4-Bromofluorobenzene	19		20.00		94.7	55	140			

Sample ID	100NG BTEX LCS	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSW	Batch ID:	R1659	RunNo:	1659					
Prep Date:		Analysis Date:	3/24/2012	SeqNo:	46981	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	21	2.5	20.00	0	104	50.5	158			
Benzene	21	1.0	20.00	0	105	80	120			
Toluene	23	1.0	20.00	0	113	80	120			
Ethylbenzene	22	1.0	20.00	0	112	80	120			
Xylenes, Total	67	2.0	60.00	0	112	80	120			
Surr: 4-Bromofluorobenzene	24		20.00		118	55	140			

Sample ID	1203766-002AMS	SampType:	MS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	GMW-2	Batch ID:	R1659	RunNo:	1659					
Prep Date:		Analysis Date:	3/24/2012	SeqNo:	46984	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	100	12	100.0	2.480	97.4	58	139			
Benzene	100	5.0	100.0	0	104	70.1	118			
Toluene	110	5.0	100.0	0	110	72.3	117			
Ethylbenzene	110	5.0	100.0	0	109	73.5	117			

Qualifiers:

*X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203766

18-Apr-12

Client: Western Refining Southwest, Gallup
Project: 1st QTR 2012 Groundwater Sampling

Sample ID	1203766-002AMS	SampType:	MS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	GMW-2	Batch ID:	R1659	RunNo:	1659					
Prep Date:		Analysis Date:	3/24/2012	SeqNo:	46984	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Xylenes, Total	330	10	300.0	0	110	73.1	119			
Surr: 4-Bromofluorobenzene	110		100.0		115	55	140			

Sample ID	1203766-002AMSD	SampType:	MSD	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	GMW-2	Batch ID:	R1659	RunNo:	1659					
Prep Date:		Analysis Date:	3/24/2012	SeqNo:	46985	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	100	12	100.0	2.480	101	58	139	3.52	15.2	
Benzene	100	5.0	100.0	0	104	70.1	118	0.741	16.4	
Toluene	110	5.0	100.0	0	107	72.3	117	3.09	13.9	
Ethylbenzene	110	5.0	100.0	0	106	73.5	117	2.92	13.5	
Xylenes, Total	320	10	300.0	0	106	73.1	119	3.02	12.9	
Surr: 4-Bromofluorobenzene	110		100.0		112	55	140	0	0	

Qualifiers:

Value exceeds Maximum Contaminant Level.
Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203766

18-Apr-12

Client: Western Refining Southwest, Gallup

Project: 1st QTR 2012 Groundwater Sampling

Sample ID	5ml rb	SampType:	MBLK	TestCode:	EPA Method 8260B: VOLATILES					
Client ID:	PBW	Batch ID:	R1715	RunNo:	1715					
Prep Date:		Analysis Date:	3/26/2012	SeqNo:	48299	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								

Qualifiers:

*X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203766

18-Apr-12

Client: Western Refining Southwest, Gallup
Project: 1st QTR 2012 Groundwater Sampling

Sample ID	5ml rb	SampType:	MBLK	TestCode:	EPA Method 8260B: VOLATILES					
Client ID:	PBW	Batch ID:	R1715	RunNo:	1715					
Prep Date:		Analysis Date:	3/26/2012	SeqNo:	48299	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	1.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	9.3		10.00		92.9	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		103	70	130			
Surr: Dibromofluoromethane	11		10.00		114	69.8	130			
Surr: Toluene-d8	10		10.00		102	70	130			

Sample ID	100ng lcs-c	SampType:	LCS	TestCode:	EPA Method 8260B: VOLATILES					
Client ID:	LCSW	Batch ID:	R1715	RunNo:	1715					
Prep Date:		Analysis Date:	3/26/2012	SeqNo:	48300	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	18	1.0	20.00	0	92.3	84.1	126			
Toluene	20	1.0	20.00	0	98.3	80	120			
Chlorobenzene	19	1.0	20.00	0	96.1	70	130			
1,1-Dichloroethene	18	1.0	20.00	0	90.6	83	130			
Trichloroethene (TCE)	19	1.0	20.00	0	96.9	76.2	119			
Surr: 1,2-Dichloroethane-d4	9.5		10.00		95.0	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		102	70	130			

Qualifiers:

Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
Value above quantitation range	H	Holding times for preparation or analysis exceeded
J Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R RPD outside accepted recovery limits	RL	Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203766

18-Apr-12

Client: Western Refining Southwest, Gallup

Project: 1st QTR 2012 Groundwater Sampling

Sample ID	100ng lcs-c	SampType:	LCS	TestCode:	EPA Method 8260B: VOLATILES					
Client ID:	LCSW	Batch ID:	R1715	RunNo:	1715					
Prep Date:		Analysis Date:	3/26/2012	SeqNo:	48300	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	11		10.00		108	69.8	130			
Surr: Toluene-d8	10		10.00		103	70	130			

Qualifiers:

*X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87105
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name:	Western Refining Gallup	Work Order Number:	1203766
Received by/date:	<i>[Signature]</i> 03/21/12		
Logged By:	Ashley Gallegos	3/21/2012 12:47:00 PM	<i>[Signature]</i>
Completed By:	Ashley Gallegos	3/21/2012 1:06:27 PM	<i>[Signature]</i>
Reviewed By:	AT 03/22/12		

Chain of Custody

1. Were seals intact? Yes ☒ No ☐ Not Present ☐
2. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
3. How was the sample delivered? Client

Log In

4. Coolers are present? (see 19. for cooler specific information) Yes ☒ No ☐ NA ☐
5. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
6. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
7. Sample(s) in proper container(s)? Yes ☒ No ☐
8. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
9. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
10. Was preservative added to bottles? Yes ☒ No ☒ NA ☐
11. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
12. Were any sample containers received broken? Yes ☐ No ☒
13. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
14. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
15. Is it clear what analyses were requested? Yes ☒ No ☐
16. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

# of preserved bottles checked for pH:	7
Adjusted?	Yes
Checked by:	<i>[Signature]</i>

Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:		Date:	
By Whom:		Via:	☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:			
Client Instructions:			

18. Additional remarks:

19. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			



www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

[illegible]

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
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com*

April 16, 2012

Cheryl Johnson

Western Refining Southwest, Gallup

Rt. 3 Box 7

Gallup, NM 87301

TEL: (505) 722-0231

FAX (505) 722-0210

RE: 1st QTR 2012 Groundwater Sampling

OrderNo.: 1203777

Dear Cheryl Johnson:

Hall Environmental Analysis Laboratory received 3 sample(s) on 3/21/2012 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1203777

Date Reported: 4/16/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: Infl To AL-1

Project: 1st QTR 2012 Groundwater Sampling

Collection Date: 3/21/2012 7:40:00 AM

Lab ID: 1203777-001

Matrix: AQUEOUS

Received Date: 3/21/2012 12:47:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: JMP
Diesel Range Organics (DRO)	26	1.0		mg/L	1	3/22/2012 11:55:16 AM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	3/22/2012 11:55:16 AM
Surr: DNOP	112	61.3-164		%REC	1	3/22/2012 11:55:16 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	4.5	1.0		mg/L	20	3/27/2012 1:46:40 AM
Surr: BFB	97.2	69.3-120		%REC	20	3/27/2012 1:46:40 AM
EPA METHOD 300.0: ANIONS						Analyst: BRM
Chloride	740	25		mg/L	50	3/21/2012 9:33:50 PM
SM5210B: BOD						Analyst: JAL
Biochemical Oxygen Demand	840	2.0		mg/L	1	3/27/2012 6:15:00 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	50		µg/L	1	3/23/2012 4:29:28 PM
Acenaphthylene	ND	50		µg/L	1	3/23/2012 4:29:28 PM
Aniline	840	50		µg/L	1	3/23/2012 4:29:28 PM
Anthracene	ND	50		µg/L	1	3/23/2012 4:29:28 PM
Azobenzene	ND	50		µg/L	1	3/23/2012 4:29:28 PM
Benz(a)anthracene	ND	50		µg/L	1	3/23/2012 4:29:28 PM
Benzo(a)pyrene	ND	50		µg/L	1	3/23/2012 4:29:28 PM
Benzo(b)fluoranthene	ND	50		µg/L	1	3/23/2012 4:29:28 PM
Benzo(g,h,i)perylene	ND	50		µg/L	1	3/23/2012 4:29:28 PM
Benzo(k)fluoranthene	ND	50		µg/L	1	3/23/2012 4:29:28 PM
Benzoic acid	ND	100		µg/L	1	3/23/2012 4:29:28 PM
Benzyl alcohol	ND	50		µg/L	1	3/23/2012 4:29:28 PM
Bis(2-chloroethoxy)methane	ND	50		µg/L	1	3/23/2012 4:29:28 PM
Bis(2-chloroethyl)ether	ND	50		µg/L	1	3/23/2012 4:29:28 PM
Bis(2-chloroisopropyl)ether	ND	50		µg/L	1	3/23/2012 4:29:28 PM
Bis(2-ethylhexyl)phthalate	ND	50		µg/L	1	3/23/2012 4:29:28 PM
4-Bromophenyl phenyl ether	ND	50		µg/L	1	3/23/2012 4:29:28 PM
Butyl benzyl phthalate	ND	50		µg/L	1	3/23/2012 4:29:28 PM
Carbazole	ND	50		µg/L	1	3/23/2012 4:29:28 PM
4-Chloro-3-methylphenol	ND	50		µg/L	1	3/23/2012 4:29:28 PM
4-Chloroaniline	ND	50		µg/L	1	3/23/2012 4:29:28 PM
2-Chloronaphthalene	ND	50		µg/L	1	3/23/2012 4:29:28 PM
2-Chlorophenol	ND	50		µg/L	1	3/23/2012 4:29:28 PM
4-Chlorophenyl phenyl ether	ND	50		µg/L	1	3/23/2012 4:29:28 PM
Chrysene	ND	50		µg/L	1	3/23/2012 4:29:28 PM
Di-n-butyl phthalate	ND	50		µg/L	1	3/23/2012 4:29:28 PM
Di-n-octyl phthalate	ND	50		µg/L	1	3/23/2012 4:29:28 PM
Dibenz(a,h)anthracene	ND	50		µg/L	1	3/23/2012 4:29:28 PM
Dibenzofuran	ND	50		µg/L	1	3/23/2012 4:29:28 PM

Qualifiers:

- *X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

Analytical Report

Lab Order 1203777

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 4/16/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: Infl To AL-1

Project: 1st QTR 2012 Groundwater Sampling

Collection Date: 3/21/2012 7:40:00 AM

Lab ID: 1203777-001

Matrix: AQUEOUS

Received Date: 3/21/2012 12:47:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
1,2-Dichlorobenzene	ND	50		µg/L	1	3/23/2012 4:29:28 PM
1,3-Dichlorobenzene	ND	50		µg/L	1	3/23/2012 4:29:28 PM
1,4-Dichlorobenzene	ND	50		µg/L	1	3/23/2012 4:29:28 PM
3,3'-Dichlorobenzidine	ND	50		µg/L	1	3/23/2012 4:29:28 PM
Diethyl phthalate	ND	50		µg/L	1	3/23/2012 4:29:28 PM
Dimethyl phthalate	ND	50		µg/L	1	3/23/2012 4:29:28 PM
2,4-Dichlorophenol	ND	100		µg/L	1	3/23/2012 4:29:28 PM
2,4-Dimethylphenol	400	50		µg/L	1	3/23/2012 4:29:28 PM
4,6-Dinitro-2-methylphenol	ND	100		µg/L	1	3/23/2012 4:29:28 PM
2,4-Dinitrophenol	ND	100		µg/L	1	3/23/2012 4:29:28 PM
2,4-Dinitrotoluene	ND	50		µg/L	1	3/23/2012 4:29:28 PM
2,6-Dinitrotoluene	ND	50		µg/L	1	3/23/2012 4:29:28 PM
Fluoranthene	ND	50		µg/L	1	3/23/2012 4:29:28 PM
Fluorene	ND	50		µg/L	1	3/23/2012 4:29:28 PM
Hexachlorobenzene	ND	50		µg/L	1	3/23/2012 4:29:28 PM
Hexachlorobutadiene	ND	50		µg/L	1	3/23/2012 4:29:28 PM
Hexachlorocyclopentadiene	ND	50		µg/L	1	3/23/2012 4:29:28 PM
Hexachloroethane	ND	50		µg/L	1	3/23/2012 4:29:28 PM
Indeno(1,2,3-cd)pyrene	ND	50		µg/L	1	3/23/2012 4:29:28 PM
Isophorone	ND	50		µg/L	1	3/23/2012 4:29:28 PM
1-Methylnaphthalene	60	50		µg/L	1	3/23/2012 4:29:28 PM
2-Methylnaphthalene	85	50		µg/L	1	3/23/2012 4:29:28 PM
2-Methylphenol	2,500	500		µg/L	10	3/23/2012 6:59:39 PM
3+4-Methylphenol	5,300	500		µg/L	10	3/23/2012 6:59:39 PM
N-Nitrosodi-n-propylamine	ND	50		µg/L	1	3/23/2012 4:29:28 PM
N-Nitrosodimethylamine	ND	50		µg/L	1	3/23/2012 4:29:28 PM
N-Nitrosodiphenylamine	ND	50		µg/L	1	3/23/2012 4:29:28 PM
Naphthalene	76	50		µg/L	1	3/23/2012 4:29:28 PM
2-Nitroaniline	ND	50		µg/L	1	3/23/2012 4:29:28 PM
3-Nitroaniline	ND	50		µg/L	1	3/23/2012 4:29:28 PM
4-Nitroaniline	ND	100		µg/L	1	3/23/2012 4:29:28 PM
Nitrobenzene	ND	50		µg/L	1	3/23/2012 4:29:28 PM
2-Nitrophenol	ND	50		µg/L	1	3/23/2012 4:29:28 PM
4-Nitrophenol	ND	50		µg/L	1	3/23/2012 4:29:28 PM
Pentachlorophenol	ND	100		µg/L	1	3/23/2012 4:29:28 PM
Phenanthrene	ND	50		µg/L	1	3/23/2012 4:29:28 PM
Phenol	11,000	500		µg/L	10	3/23/2012 6:59:39 PM
Pyrene	ND	50		µg/L	1	3/23/2012 4:29:28 PM
Pyridine	ND	50		µg/L	1	3/23/2012 4:29:28 PM
1,2,4-Trichlorobenzene	ND	50		µg/L	1	3/23/2012 4:29:28 PM
2,4,5-Trichlorophenol	ND	50		µg/L	1	3/23/2012 4:29:28 PM
2,4,6-Trichlorophenol	ND	50		µg/L	1	3/23/2012 4:29:28 PM

Qualifiers: * / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1203777

Date Reported: 4/16/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: Infl To AL-1

Project: 1st QTR 2012 Groundwater Sampling

Collection Date: 3/21/2012 7:40:00 AM

Lab ID: 1203777-001

Matrix: AQUEOUS

Received Date: 3/21/2012 12:47:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Surr: 2,4,6-Tribromophenol	94.4	18.1-138		%REC	1	3/23/2012 4:29:28 PM
Surr: 2-Fluorobiphenyl	83.9	25.9-101		%REC	1	3/23/2012 4:29:28 PM
Surr: 2-Fluorophenol	78.9	12.5-93.2		%REC	1	3/23/2012 4:29:28 PM
Surr: 4-Terphenyl-d14	91.4	29.5-112		%REC	1	3/23/2012 4:29:28 PM
Surr: Nitrobenzene-d5	88.4	20.5-120		%REC	1	3/23/2012 4:29:28 PM
Surr: Phenol-d5	58.0	11.5-73.2		%REC	1	3/23/2012 4:29:28 PM
EPA METHOD 8260B: VOLATILES						Analyst: MMS
Benzene	180	10		µg/L	10	3/26/2012 9:43:35 PM
Toluene	360	10		µg/L	10	3/26/2012 9:43:35 PM
Ethylbenzene	34	10		µg/L	10	3/26/2012 9:43:35 PM
Methyl tert-butyl ether (MTBE)	ND	10		µg/L	10	3/26/2012 9:43:35 PM
1,2,4-Trimethylbenzene	73	10		µg/L	10	3/26/2012 9:43:35 PM
1,3,5-Trimethylbenzene	22	10		µg/L	10	3/26/2012 9:43:35 PM
1,2-Dichloroethane (EDC)	ND	10		µg/L	10	3/26/2012 9:43:35 PM
1,2-Dibromoethane (EDB)	ND	10		µg/L	10	3/26/2012 9:43:35 PM
Naphthalene	100	20		µg/L	10	3/26/2012 9:43:35 PM
1-Methylnaphthalene	71	40		µg/L	10	3/26/2012 9:43:35 PM
2-Methylnaphthalene	120	40		µg/L	10	3/26/2012 9:43:35 PM
Acetone	11,000	1,000		µg/L	100	3/28/2012 6:30:59 AM
Bromobenzene	ND	10		µg/L	10	3/26/2012 9:43:35 PM
Bromodichloromethane	ND	10		µg/L	10	3/26/2012 9:43:35 PM
Bromoform	ND	10		µg/L	10	3/26/2012 9:43:35 PM
Bromomethane	ND	30		µg/L	10	3/26/2012 9:43:35 PM
2-Butanone	1,800	100		µg/L	10	3/26/2012 9:43:35 PM
Carbon disulfide	ND	100		µg/L	10	3/26/2012 9:43:35 PM
Carbon Tetrachloride	ND	10		µg/L	10	3/26/2012 9:43:35 PM
Chlorobenzene	ND	10		µg/L	10	3/26/2012 9:43:35 PM
Chloroethane	ND	20		µg/L	10	3/26/2012 9:43:35 PM
Chloroform	ND	10		µg/L	10	3/26/2012 9:43:35 PM
Chloromethane	ND	30		µg/L	10	3/26/2012 9:43:35 PM
2-Chlorotoluene	ND	10		µg/L	10	3/26/2012 9:43:35 PM
4-Chlorotoluene	ND	10		µg/L	10	3/26/2012 9:43:35 PM
cis-1,2-DCE	ND	10		µg/L	10	3/26/2012 9:43:35 PM
cis-1,3-Dichloropropene	ND	10		µg/L	10	3/26/2012 9:43:35 PM
1,2-Dibromo-3-chloropropane	ND	20		µg/L	10	3/26/2012 9:43:35 PM
Dibromochloromethane	ND	10		µg/L	10	3/26/2012 9:43:35 PM
Dibromomethane	ND	10		µg/L	10	3/26/2012 9:43:35 PM
1,2-Dichlorobenzene	ND	10		µg/L	10	3/26/2012 9:43:35 PM
1,3-Dichlorobenzene	ND	10		µg/L	10	3/26/2012 9:43:35 PM
1,4-Dichlorobenzene	ND	10		µg/L	10	3/26/2012 9:43:35 PM
Dichlorodifluoromethane	ND	10		µg/L	10	3/26/2012 9:43:35 PM

Qualifiers: * /X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

Analytical Report

Lab Order 1203777

Date Reported: 4/16/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: Infl To AL-1

Project: 1st QTR 2012 Groundwater Sampling

Collection Date: 3/21/2012 7:40:00 AM

Lab ID: 1203777-001

Matrix: AQUEOUS

Received Date: 3/21/2012 12:47:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: MMS
1,1-Dichloroethane	ND	10		µg/L	10	3/26/2012 9:43:35 PM
1,1-Dichloroethene	ND	10		µg/L	10	3/26/2012 9:43:35 PM
1,2-Dichloropropane	ND	10		µg/L	10	3/26/2012 9:43:35 PM
1,3-Dichloropropane	ND	10		µg/L	10	3/26/2012 9:43:35 PM
2,2-Dichloropropane	ND	20		µg/L	10	3/26/2012 9:43:35 PM
1,1-Dichloropropene	ND	10		µg/L	10	3/26/2012 9:43:35 PM
Hexachlorobutadiene	ND	10		µg/L	10	3/26/2012 9:43:35 PM
2-Hexanone	ND	100		µg/L	10	3/26/2012 9:43:35 PM
Isopropylbenzene	ND	10		µg/L	10	3/26/2012 9:43:35 PM
4-Isopropyltoluene	ND	10		µg/L	10	3/26/2012 9:43:35 PM
4-Methyl-2-pentanone	ND	100		µg/L	10	3/26/2012 9:43:35 PM
Methylene Chloride	ND	30		µg/L	10	3/26/2012 9:43:35 PM
n-Butylbenzene	ND	10		µg/L	10	3/26/2012 9:43:35 PM
n-Propylbenzene	ND	10		µg/L	10	3/26/2012 9:43:35 PM
sec-Butylbenzene	ND	10		µg/L	10	3/26/2012 9:43:35 PM
Styrene	ND	10		µg/L	10	3/26/2012 9:43:35 PM
tert-Butylbenzene	ND	10		µg/L	10	3/26/2012 9:43:35 PM
1,1,1,2-Tetrachloroethane	ND	10		µg/L	10	3/26/2012 9:43:35 PM
1,1,2,2-Tetrachloroethane	ND	20		µg/L	10	3/26/2012 9:43:35 PM
Tetrachloroethene (PCE)	ND	10		µg/L	10	3/26/2012 9:43:35 PM
trans-1,2-DCE	ND	10		µg/L	10	3/26/2012 9:43:35 PM
trans-1,3-Dichloropropene	ND	10		µg/L	10	3/26/2012 9:43:35 PM
1,2,3-Trichlorobenzene	ND	10		µg/L	10	3/26/2012 9:43:35 PM
1,2,4-Trichlorobenzene	ND	10		µg/L	10	3/26/2012 9:43:35 PM
1,1,1-Trichloroethane	ND	10		µg/L	10	3/26/2012 9:43:35 PM
1,1,2-Trichloroethane	ND	10		µg/L	10	3/26/2012 9:43:35 PM
Trichloroethene (TCE)	ND	10		µg/L	10	3/26/2012 9:43:35 PM
Trichlorofluoromethane	ND	10		µg/L	10	3/26/2012 9:43:35 PM
1,2,3-Trichloropropane	ND	20		µg/L	10	3/26/2012 9:43:35 PM
Vinyl chloride	ND	10		µg/L	10	3/26/2012 9:43:35 PM
Xylenes, Total	250	15		µg/L	10	3/26/2012 9:43:35 PM
Surr: 1,2-Dichloroethane-d4	97.1	70-130		%REC	10	3/26/2012 9:43:35 PM
Surr: 4-Bromofluorobenzene	105	70-130		%REC	10	3/26/2012 9:43:35 PM
Surr: Dibromofluoromethane	116	69.8-130		%REC	10	3/26/2012 9:43:35 PM
Surr: Toluene-d8	95.9	70-130		%REC	10	3/26/2012 9:43:35 PM
SM4500-H+B: PH						Analyst: JLF
pH	9.13	1.68	*H	pH units	1	3/23/2012 2:22:19 PM

Qualifiers: *X Value exceeds Maximum Contaminant Level.
 E Value above quantitation range
 J Analyte detected below quantitation limits
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1203777

Date Reported: 4/16/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: Infl To AL-2

Project: 1st QTR 2012 Groundwater Sampling

Collection Date: 3/20/2012 1:40:00 PM

Lab ID: 1203777-002

Matrix: AQUEOUS

Received Date: 3/21/2012 12:47:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: JPM
Diesel Range Organics (DRO)	8.0	1.0		mg/L	1	3/22/2012 12:20:41 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	3/22/2012 12:20:41 PM
Surr: DNOP	115	61.3-164		%REC	1	3/22/2012 12:20:41 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	1.2	1.0		mg/L	20	3/27/2012 3:18:32 AM
Surr: BFB	109	69.3-120		%REC	20	3/27/2012 3:18:32 AM
EPA METHOD 300.0: ANIONS						Analyst: BRM
Chloride	1,400	50		mg/L	100	3/24/2012 12:03:11 AM
SM5210B: BOD						Analyst: JAL
Biochemical Oxygen Demand	440	2.0		mg/L	1	3/27/2012 6:15:00 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	50		µg/L	1	3/23/2012 4:59:24 PM
Acenaphthylene	ND	50		µg/L	1	3/23/2012 4:59:24 PM
Aniline	200	50		µg/L	1	3/23/2012 4:59:24 PM
Anthracene	ND	50		µg/L	1	3/23/2012 4:59:24 PM
Azobenzene	ND	50		µg/L	1	3/23/2012 4:59:24 PM
Benz(a)anthracene	ND	50		µg/L	1	3/23/2012 4:59:24 PM
Benzo(a)pyrene	ND	50		µg/L	1	3/23/2012 4:59:24 PM
Benzo(b)fluoranthene	ND	50		µg/L	1	3/23/2012 4:59:24 PM
Benzo(g,h,i)perylene	ND	50		µg/L	1	3/23/2012 4:59:24 PM
Benzo(k)fluoranthene	ND	50		µg/L	1	3/23/2012 4:59:24 PM
Benzoic acid	ND	100		µg/L	1	3/23/2012 4:59:24 PM
Benzyl alcohol	ND	50		µg/L	1	3/23/2012 4:59:24 PM
Bis(2-chloroethoxy)methane	ND	50		µg/L	1	3/23/2012 4:59:24 PM
Bis(2-chloroethyl)ether	ND	50		µg/L	1	3/23/2012 4:59:24 PM
Bis(2-chloroisopropyl)ether	ND	50		µg/L	1	3/23/2012 4:59:24 PM
Bis(2-ethylhexyl)phthalate	ND	50		µg/L	1	3/23/2012 4:59:24 PM
4-Bromophenyl phenyl ether	ND	50		µg/L	1	3/23/2012 4:59:24 PM
Butyl benzyl phthalate	ND	50		µg/L	1	3/23/2012 4:59:24 PM
Carbazole	ND	50		µg/L	1	3/23/2012 4:59:24 PM
4-Chloro-3-methylphenol	ND	50		µg/L	1	3/23/2012 4:59:24 PM
4-Chloroaniline	ND	50		µg/L	1	3/23/2012 4:59:24 PM
2-Chloronaphthalene	ND	50		µg/L	1	3/23/2012 4:59:24 PM
2-Chlorophenol	ND	50		µg/L	1	3/23/2012 4:59:24 PM
4-Chlorophenyl phenyl ether	ND	50		µg/L	1	3/23/2012 4:59:24 PM
Chrysene	ND	50		µg/L	1	3/23/2012 4:59:24 PM
Di-n-butyl phthalate	ND	50		µg/L	1	3/23/2012 4:59:24 PM
Di-n-octyl phthalate	ND	50		µg/L	1	3/23/2012 4:59:24 PM
Dibenz(a,h)anthracene	ND	50		µg/L	1	3/23/2012 4:59:24 PM
Dibenzofuran	ND	50		µg/L	1	3/23/2012 4:59:24 PM

Qualifiers: * /X Value exceeds Maximum Contaminant Level.
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 J Analyte detected below quantitation limits
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 RL Reporting Detection Limit

Analytical Report

Lab Order 1203777

Date Reported: 4/16/2012

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Western Refining Southwest, Gallup**Client Sample ID:** Infl To AL-2**Project:** 1st QTR 2012 Groundwater Sampling**Collection Date:** 3/20/2012 1:40:00 PM**Lab ID:** 1203777-002**Matrix:** AQUEOUS**Received Date:** 3/21/2012 12:47:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
1,2-Dichlorobenzene	ND	50		µg/L	1	3/23/2012 4:59:24 PM
1,3-Dichlorobenzene	ND	50		µg/L	1	3/23/2012 4:59:24 PM
1,4-Dichlorobenzene	ND	50		µg/L	1	3/23/2012 4:59:24 PM
3,3'-Dichlorobenzidine	ND	50		µg/L	1	3/23/2012 4:59:24 PM
Diethyl phthalate	ND	50		µg/L	1	3/23/2012 4:59:24 PM
Dimethyl phthalate	ND	50		µg/L	1	3/23/2012 4:59:24 PM
2,4-Dichlorophenol	ND	100		µg/L	1	3/23/2012 4:59:24 PM
2,4-Dimethylphenol	98	50		µg/L	1	3/23/2012 4:59:24 PM
4,6-Dinitro-2-methylphenol	ND	100		µg/L	1	3/23/2012 4:59:24 PM
2,4-Dinitrophenol	ND	100		µg/L	1	3/23/2012 4:59:24 PM
2,4-Dinitrotoluene	ND	50		µg/L	1	3/23/2012 4:59:24 PM
2,6-Dinitrotoluene	ND	50		µg/L	1	3/23/2012 4:59:24 PM
Fluoranthene	ND	50		µg/L	1	3/23/2012 4:59:24 PM
Fluorene	ND	50		µg/L	1	3/23/2012 4:59:24 PM
Hexachlorobenzene	ND	50		µg/L	1	3/23/2012 4:59:24 PM
Hexachlorobutadiene	ND	50		µg/L	1	3/23/2012 4:59:24 PM
Hexachlorocyclopentadiene	ND	50		µg/L	1	3/23/2012 4:59:24 PM
Hexachloroethane	ND	50		µg/L	1	3/23/2012 4:59:24 PM
Indeno(1,2,3-cd)pyrene	ND	50		µg/L	1	3/23/2012 4:59:24 PM
Isophorone	ND	50		µg/L	1	3/23/2012 4:59:24 PM
1-Methylnaphthalene	ND	50		µg/L	1	3/23/2012 4:59:24 PM
2-Methylnaphthalene	ND	50		µg/L	1	3/23/2012 4:59:24 PM
2-Methylphenol	900	50		µg/L	1	3/23/2012 4:59:24 PM
3+4-Methylphenol	1,300	500		µg/L	10	3/23/2012 7:29:45 PM
N-Nitrosodi-n-propylamine	ND	50		µg/L	1	3/23/2012 4:59:24 PM
N-Nitrosodimethylamine	ND	50		µg/L	1	3/23/2012 4:59:24 PM
N-Nitrosodiphenylamine	ND	50		µg/L	1	3/23/2012 4:59:24 PM
Naphthalene	ND	50		µg/L	1	3/23/2012 4:59:24 PM
2-Nitroaniline	ND	50		µg/L	1	3/23/2012 4:59:24 PM
3-Nitroaniline	ND	50		µg/L	1	3/23/2012 4:59:24 PM
4-Nitroaniline	ND	100		µg/L	1	3/23/2012 4:59:24 PM
Nitrobenzene	ND	50		µg/L	1	3/23/2012 4:59:24 PM
2-Nitrophenol	ND	50		µg/L	1	3/23/2012 4:59:24 PM
4-Nitrophenol	ND	50		µg/L	1	3/23/2012 4:59:24 PM
Pentachlorophenol	ND	100		µg/L	1	3/23/2012 4:59:24 PM
Phenanthrene	ND	50		µg/L	1	3/23/2012 4:59:24 PM
Phenol	3,400	500		µg/L	10	3/23/2012 7:29:45 PM
Pyrene	ND	50		µg/L	1	3/23/2012 4:59:24 PM
Pyridine	ND	50		µg/L	1	3/23/2012 4:59:24 PM
1,2,4-Trichlorobenzene	ND	50		µg/L	1	3/23/2012 4:59:24 PM
2,4,5-Trichlorophenol	ND	50		µg/L	1	3/23/2012 4:59:24 PM
2,4,6-Trichlorophenol	ND	50		µg/L	1	3/23/2012 4:59:24 PM

Qualifiers: * / X Value exceeds Maximum Contaminant Level.
 E Value above quantitation range
 J Analyte detected below quantitation limits
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1203777

Date Reported: 4/16/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: Infl To AL-2

Project: 1st QTR 2012 Groundwater Sampling

Collection Date: 3/20/2012 1:40:00 PM

Lab ID: 1203777-002

Matrix: AQUEOUS

Received Date: 3/21/2012 12:47:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Surr: 2,4,6-Tribromophenol	101	18.1-138		%REC	1	3/23/2012 4:59:24 PM
Surr: 2-Fluorobiphenyl	79.1	25.9-101		%REC	1	3/23/2012 4:59:24 PM
Surr: 2-Fluorophenol	71.6	12.5-93.2		%REC	1	3/23/2012 4:59:24 PM
Surr: 4-Terphenyl-d14	89.8	29.5-112		%REC	1	3/23/2012 4:59:24 PM
Surr: Nitrobenzene-d5	87.3	20.5-120		%REC	1	3/23/2012 4:59:24 PM
Surr: Phenol-d5	51.7	11.5-73.2		%REC	1	3/23/2012 4:59:24 PM
EPA METHOD 8260B: VOLATILES						Analyst: MMS
Benzene	ND	10		µg/L	10	3/26/2012 10:12:57 PM
Toluene	ND	10		µg/L	10	3/26/2012 10:12:57 PM
Ethylbenzene	ND	10		µg/L	10	3/26/2012 10:12:57 PM
Methyl tert-butyl ether (MTBE)	ND	10		µg/L	10	3/26/2012 10:12:57 PM
1,2,4-Trimethylbenzene	ND	10		µg/L	10	3/26/2012 10:12:57 PM
1,3,5-Trimethylbenzene	ND	10		µg/L	10	3/26/2012 10:12:57 PM
1,2-Dichloroethane (EDC)	ND	10		µg/L	10	3/26/2012 10:12:57 PM
1,2-Dibromoethane (EDB)	ND	10		µg/L	10	3/26/2012 10:12:57 PM
Naphthalene	ND	20		µg/L	10	3/26/2012 10:12:57 PM
1-Methylnaphthalene	ND	40		µg/L	10	3/26/2012 10:12:57 PM
2-Methylnaphthalene	ND	40		µg/L	10	3/26/2012 10:12:57 PM
Acetone	4,400	500		µg/L	50	3/28/2012 7:00:12 AM
Bromobenzene	ND	10		µg/L	10	3/26/2012 10:12:57 PM
Bromodichloromethane	ND	10		µg/L	10	3/26/2012 10:12:57 PM
Bromoform	ND	10		µg/L	10	3/26/2012 10:12:57 PM
Bromomethane	ND	30		µg/L	10	3/26/2012 10:12:57 PM
2-Butanone	260	100		µg/L	10	3/26/2012 10:12:57 PM
Carbon disulfide	ND	100		µg/L	10	3/26/2012 10:12:57 PM
Carbon Tetrachloride	ND	10		µg/L	10	3/26/2012 10:12:57 PM
Chlorobenzene	ND	10		µg/L	10	3/26/2012 10:12:57 PM
Chloroethane	ND	20		µg/L	10	3/26/2012 10:12:57 PM
Chloroform	ND	10		µg/L	10	3/26/2012 10:12:57 PM
Chloromethane	ND	30		µg/L	10	3/26/2012 10:12:57 PM
2-Chlorotoluene	ND	10		µg/L	10	3/26/2012 10:12:57 PM
4-Chlorotoluene	ND	10		µg/L	10	3/26/2012 10:12:57 PM
cis-1,2-DCE	ND	10		µg/L	10	3/26/2012 10:12:57 PM
cis-1,3-Dichloropropene	ND	10		µg/L	10	3/26/2012 10:12:57 PM
1,2-Dibromo-3-chloropropane	ND	20		µg/L	10	3/26/2012 10:12:57 PM
Dibromochloromethane	ND	10		µg/L	10	3/26/2012 10:12:57 PM
Dibromomethane	ND	10		µg/L	10	3/26/2012 10:12:57 PM
1,2-Dichlorobenzene	ND	10		µg/L	10	3/26/2012 10:12:57 PM
1,3-Dichlorobenzene	ND	10		µg/L	10	3/26/2012 10:12:57 PM
1,4-Dichlorobenzene	ND	10		µg/L	10	3/26/2012 10:12:57 PM
Dichlorodifluoromethane	ND	10		µg/L	10	3/26/2012 10:12:57 PM

Qualifiers: *X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

Analytical Report

Lab Order 1203777

Date Reported: 4/16/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: Infl To AL-2

Project: 1st QTR 2012 Groundwater Sampling

Collection Date: 3/20/2012 1:40:00 PM

Lab ID: 1203777-002

Matrix: AQUEOUS

Received Date: 3/21/2012 12:47:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: MMS
1,1-Dichloroethane	ND	10		µg/L	10	3/26/2012 10:12:57 PM
1,1-Dichloroethene	ND	10		µg/L	10	3/26/2012 10:12:57 PM
1,2-Dichloropropane	ND	10		µg/L	10	3/26/2012 10:12:57 PM
1,3-Dichloropropane	ND	10		µg/L	10	3/26/2012 10:12:57 PM
2,2-Dichloropropane	ND	20		µg/L	10	3/26/2012 10:12:57 PM
1,1-Dichloropropene	ND	10		µg/L	10	3/26/2012 10:12:57 PM
Hexachlorobutadiene	ND	10		µg/L	10	3/26/2012 10:12:57 PM
2-Hexanone	ND	100		µg/L	10	3/26/2012 10:12:57 PM
Isopropylbenzene	ND	10		µg/L	10	3/26/2012 10:12:57 PM
4-Isopropyltoluene	ND	10		µg/L	10	3/26/2012 10:12:57 PM
4-Methyl-2-pentanone	ND	100		µg/L	10	3/26/2012 10:12:57 PM
Methylene Chloride	ND	30		µg/L	10	3/26/2012 10:12:57 PM
n-Butylbenzene	ND	10		µg/L	10	3/26/2012 10:12:57 PM
n-Propylbenzene	ND	10		µg/L	10	3/26/2012 10:12:57 PM
sec-Butylbenzene	ND	10		µg/L	10	3/26/2012 10:12:57 PM
Styrene	ND	10		µg/L	10	3/26/2012 10:12:57 PM
tert-Butylbenzene	ND	10		µg/L	10	3/26/2012 10:12:57 PM
1,1,1,2-Tetrachloroethane	ND	10		µg/L	10	3/26/2012 10:12:57 PM
1,1,2,2-Tetrachloroethane	ND	20		µg/L	10	3/26/2012 10:12:57 PM
Tetrachloroethene (PCE)	ND	10		µg/L	10	3/26/2012 10:12:57 PM
trans-1,2-DCE	ND	10		µg/L	10	3/26/2012 10:12:57 PM
trans-1,3-Dichloropropene	ND	10		µg/L	10	3/26/2012 10:12:57 PM
1,2,3-Trichlorobenzene	ND	10		µg/L	10	3/26/2012 10:12:57 PM
1,2,4-Trichlorobenzene	ND	10		µg/L	10	3/26/2012 10:12:57 PM
1,1,1-Trichloroethane	ND	10		µg/L	10	3/26/2012 10:12:57 PM
1,1,2-Trichloroethane	ND	10		µg/L	10	3/26/2012 10:12:57 PM
Trichloroethene (TCE)	ND	10		µg/L	10	3/26/2012 10:12:57 PM
Trichlorofluoromethane	ND	10		µg/L	10	3/26/2012 10:12:57 PM
1,2,3-Trichloropropane	ND	20		µg/L	10	3/26/2012 10:12:57 PM
Vinyl chloride	ND	10		µg/L	10	3/26/2012 10:12:57 PM
Xylenes, Total	ND	15		µg/L	10	3/26/2012 10:12:57 PM
Surr: 1,2-Dichloroethane-d4	96.8	70-130		%REC	10	3/26/2012 10:12:57 PM
Surr: 4-Bromofluorobenzene	104	70-130		%REC	10	3/26/2012 10:12:57 PM
Surr: Dibromofluoromethane	114	69.8-130		%REC	10	3/26/2012 10:12:57 PM
Surr: Toluene-d8	98.0	70-130		%REC	10	3/26/2012 10:12:57 PM
SM4500-H+B: PH						Analyst: JLF
pH	7.52	1.68	H	pH units	1	3/23/2012 2:25:50 PM

Qualifiers: *X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.**Analytical Report**

Lab Order 1203777

Date Reported: 4/16/2012

CLIENT: Western Refining Southwest, Gallup**Client Sample ID:** Infl to EP-1**Project:** 1st QTR 2012 Groundwater Sampling**Collection Date:** 3/20/2012 2:00:00 PM**Lab ID:** 1203777-003**Matrix:** AQUEOUS**Received Date:** 3/21/2012 12:47:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: JMP
Diesel Range Organics (DRO)	12	1.0		mg/L	1	3/22/2012 12:45:47 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	3/22/2012 12:45:47 PM
Surr: DNOP	112	61.3-164		%REC	1	3/22/2012 12:45:47 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	1.0		mg/L	20	3/27/2012 3:48:45 AM
Surr: BFB	77.7	69.3-120		%REC	20	3/27/2012 3:48:45 AM
EPA METHOD 300.0: ANIONS						Analyst: BRM
Fluoride	60	5.0	*	mg/L	50	3/21/2012 10:23:29 PM
Chloride	2,600	100		mg/L	200	3/24/2012 12:15:36 AM
Nitrogen, Nitrite (As N)	2.8	1.0		mg/L	10	3/21/2012 10:11:05 PM
Bromide	4.7	1.0		mg/L	10	3/21/2012 10:11:05 PM
Nitrogen, Nitrate (As N)	ND	1.0		mg/L	10	3/21/2012 10:11:05 PM
Phosphorus, Orthophosphate (As P)	ND	5.0		mg/L	10	3/21/2012 10:11:05 PM
Sulfate	820	25		mg/L	50	3/21/2012 10:23:29 PM
EPA METHOD 200.7: DISSOLVED METALS						Analyst: RAG
Barium	0.051	0.0020		mg/L	1	4/2/2012 7:00:54 PM
Cadmium	ND	0.0020		mg/L	1	4/2/2012 7:00:54 PM
Calcium	130	20		mg/L	20	4/2/2012 7:03:21 PM
Chromium	ND	0.0060		mg/L	1	4/3/2012 5:15:20 PM
Copper	ND	0.0060		mg/L	1	4/2/2012 7:00:54 PM
Iron	2.5	0.40	*	mg/L	20	4/2/2012 7:03:21 PM
Lead	ND	0.0050		mg/L	1	4/3/2012 5:15:20 PM
Magnesium	45	1.0		mg/L	1	4/2/2012 7:00:54 PM
Manganese	0.27	0.0020	*	mg/L	1	4/2/2012 7:00:54 PM
Potassium	150	20		mg/L	20	4/2/2012 7:03:21 PM
Silver	ND	0.0050		mg/L	1	4/5/2012 8:37:01 AM
Sodium	1,500	20		mg/L	20	4/2/2012 7:03:21 PM
Zinc	0.071	0.010		mg/L	1	4/3/2012 5:15:20 PM
EPA METHOD 200.7: TOTAL METALS						Analyst: RAG
Barium	0.30	0.0020		mg/L	1	3/26/2012 3:52:16 PM
Cadmium	ND	0.0020		mg/L	1	3/26/2012 3:52:16 PM
Chromium	0.022	0.0060		mg/L	1	3/26/2012 3:52:16 PM
Copper	0.030	0.0060		mg/L	1	3/26/2012 3:52:16 PM
Iron	12	0.40	*	mg/L	20	3/28/2012 2:47:10 PM
Lead	0.0058	0.0050		mg/L	1	3/26/2012 3:52:16 PM
Manganese	0.31	0.0020	*	mg/L	1	3/26/2012 3:52:16 PM
Silver	ND	0.0050		mg/L	1	3/26/2012 3:52:16 PM
Zinc	0.36	0.010		mg/L	1	3/26/2012 3:52:16 PM
EPA 200.8: DISSOLVED METALS						Analyst: SNV

Qualifiers: * / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

Analytical Report

Lab Order 1203777

Date Reported: 4/16/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: Infl to EP-1

Project: 1st QTR 2012 Groundwater Sampling

Collection Date: 3/20/2012 2:00:00 PM

Lab ID: 1203777-003

Matrix: AQUEOUS

Received Date: 3/21/2012 12:47:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA 200.8: DISSOLVED METALS						Analyst: SNV
Arsenic	0.013	0.0020	*	mg/L	2	4/12/2012 6:30:14 PM
Selenium	0.022	0.0020		mg/L	2	4/13/2012 2:35:17 PM
Uranium	0.0027	0.0020		mg/L	2	4/12/2012 6:30:14 PM
200.8 ICPMS METALS:TOTAL						Analyst: SNV
Arsenic	0.021	0.0025	*	mg/L	2.5	4/4/2012 5:13:49 PM
Selenium	0.022	0.0025		mg/L	2.5	4/4/2012 5:13:49 PM
Uranium	0.0051	0.0025		mg/L	2.5	4/4/2012 5:13:49 PM
EPA METHOD 245.1: MERCURY						Analyst: JLF
Mercury	ND	0.00020		mg/L	1	3/23/2012 3:57:30 PM
SM5210B: BOD						Analyst: JAL
Biochemical Oxygen Demand	610	2.0		mg/L	1	3/27/2012 6:15:00 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	50		µg/L	1	3/23/2012 5:29:21 PM
Acenaphthylene	ND	50		µg/L	1	3/23/2012 5:29:21 PM
Aniline	360	50		µg/L	1	3/23/2012 5:29:21 PM
Anthracene	ND	50		µg/L	1	3/23/2012 5:29:21 PM
Azobenzene	ND	50		µg/L	1	3/23/2012 5:29:21 PM
Benz(a)anthracene	ND	50		µg/L	1	3/23/2012 5:29:21 PM
Benzo(a)pyrene	ND	50		µg/L	1	3/23/2012 5:29:21 PM
Benzo(b)fluoranthene	ND	50		µg/L	1	3/23/2012 5:29:21 PM
Benzo(g,h,i)perylene	ND	50		µg/L	1	3/23/2012 5:29:21 PM
Benzo(k)fluoranthene	ND	50		µg/L	1	3/23/2012 5:29:21 PM
Benzoic acid	ND	100		µg/L	1	3/23/2012 5:29:21 PM
Benzyl alcohol	ND	50		µg/L	1	3/23/2012 5:29:21 PM
Bis(2-chloroethoxy)methane	ND	50		µg/L	1	3/23/2012 5:29:21 PM
Bis(2-chloroethyl)ether	ND	50		µg/L	1	3/23/2012 5:29:21 PM
Bis(2-chloroisopropyl)ether	ND	50		µg/L	1	3/23/2012 5:29:21 PM
Bis(2-ethylhexyl)phthalate	ND	50		µg/L	1	3/23/2012 5:29:21 PM
4-Bromophenyl phenyl ether	ND	50		µg/L	1	3/23/2012 5:29:21 PM
Butyl benzyl phthalate	ND	50		µg/L	1	3/23/2012 5:29:21 PM
Carbazole	ND	50		µg/L	1	3/23/2012 5:29:21 PM
4-Chloro-3-methylphenol	ND	50		µg/L	1	3/23/2012 5:29:21 PM
4-Chloroaniline	ND	50		µg/L	1	3/23/2012 5:29:21 PM
2-Chloronaphthalene	ND	50		µg/L	1	3/23/2012 5:29:21 PM
2-Chlorophenol	ND	50		µg/L	1	3/23/2012 5:29:21 PM
4-Chlorophenyl phenyl ether	ND	50		µg/L	1	3/23/2012 5:29:21 PM
Chrysene	ND	50		µg/L	1	3/23/2012 5:29:21 PM
Di-n-butyl phthalate	ND	50		µg/L	1	3/23/2012 5:29:21 PM
Di-n-octyl phthalate	ND	50		µg/L	1	3/23/2012 5:29:21 PM
Dibenz(a,h)anthracene	ND	50		µg/L	1	3/23/2012 5:29:21 PM

Qualifiers: * / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1203777

Date Reported: 4/16/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: Infl to EP-1

Project: 1st QTR 2012 Groundwater Sampling

Collection Date: 3/20/2012 2:00:00 PM

Lab ID: 1203777-003

Matrix: AQUEOUS

Received Date: 3/21/2012 12:47:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Dibenzofuran	ND	50		µg/L	1	3/23/2012 5:29:21 PM
1,2-Dichlorobenzene	ND	50		µg/L	1	3/23/2012 5:29:21 PM
1,3-Dichlorobenzene	ND	50		µg/L	1	3/23/2012 5:29:21 PM
1,4-Dichlorobenzene	ND	50		µg/L	1	3/23/2012 5:29:21 PM
3,3'-Dichlorobenzidine	ND	50		µg/L	1	3/23/2012 5:29:21 PM
Diethyl phthalate	ND	50		µg/L	1	3/23/2012 5:29:21 PM
Dimethyl phthalate	ND	50		µg/L	1	3/23/2012 5:29:21 PM
2,4-Dichlorophenol	ND	100		µg/L	1	3/23/2012 5:29:21 PM
2,4-Dimethylphenol	170	50		µg/L	1	3/23/2012 5:29:21 PM
4,6-Dinitro-2-methylphenol	ND	100		µg/L	1	3/23/2012 5:29:21 PM
2,4-Dinitrophenol	ND	100		µg/L	1	3/23/2012 5:29:21 PM
2,4-Dinitrotoluene	ND	50		µg/L	1	3/23/2012 5:29:21 PM
2,6-Dinitrotoluene	ND	50		µg/L	1	3/23/2012 5:29:21 PM
Fluoranthene	ND	50		µg/L	1	3/23/2012 5:29:21 PM
Fluorene	ND	50		µg/L	1	3/23/2012 5:29:21 PM
Hexachlorobenzene	ND	50		µg/L	1	3/23/2012 5:29:21 PM
Hexachlorobutadiene	ND	50		µg/L	1	3/23/2012 5:29:21 PM
Hexachlorocyclopentadiene	ND	50		µg/L	1	3/23/2012 5:29:21 PM
Hexachloroethane	ND	50		µg/L	1	3/23/2012 5:29:21 PM
Indeno(1,2,3-cd)pyrene	ND	50		µg/L	1	3/23/2012 5:29:21 PM
Isophorone	ND	50		µg/L	1	3/23/2012 5:29:21 PM
1-Methylnaphthalene	ND	50		µg/L	1	3/23/2012 5:29:21 PM
2-Methylnaphthalene	ND	50		µg/L	1	3/23/2012 5:29:21 PM
2-Methylphenol	1,600	500		µg/L	10	3/23/2012 7:59:48 PM
3+4-Methylphenol	2,200	500		µg/L	10	3/23/2012 7:59:48 PM
N-Nitrosodi-n-propylamine	ND	50		µg/L	1	3/23/2012 5:29:21 PM
N-Nitrosodimethylamine	ND	50		µg/L	1	3/23/2012 5:29:21 PM
N-Nitrosodiphenylamine	ND	50		µg/L	1	3/23/2012 5:29:21 PM
Naphthalene	ND	50		µg/L	1	3/23/2012 5:29:21 PM
2-Nitroaniline	ND	50		µg/L	1	3/23/2012 5:29:21 PM
3-Nitroaniline	ND	50		µg/L	1	3/23/2012 5:29:21 PM
4-Nitroaniline	ND	100		µg/L	1	3/23/2012 5:29:21 PM
Nitrobenzene	ND	50		µg/L	1	3/23/2012 5:29:21 PM
2-Nitrophenol	ND	50		µg/L	1	3/23/2012 5:29:21 PM
4-Nitrophenol	ND	50		µg/L	1	3/23/2012 5:29:21 PM
Pentachlorophenol	ND	100		µg/L	1	3/23/2012 5:29:21 PM
Phenanthrene	ND	50		µg/L	1	3/23/2012 5:29:21 PM
Phenol	6,100	500		µg/L	10	3/23/2012 7:59:48 PM
Pyrene	ND	50		µg/L	1	3/23/2012 5:29:21 PM
Pyridine	ND	50		µg/L	1	3/23/2012 5:29:21 PM
1,2,4-Trichlorobenzene	ND	50		µg/L	1	3/23/2012 5:29:21 PM
2,4,5-Trichlorophenol	ND	50		µg/L	1	3/23/2012 5:29:21 PM

Qualifiers: */X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Analytical Report

Lab Order 1203777

Date Reported: 4/16/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: Infl to EP-1

Project: 1st QTR 2012 Groundwater Sampling

Collection Date: 3/20/2012 2:00:00 PM

Lab ID: 1203777-003

Matrix: AQUEOUS

Received Date: 3/21/2012 12:47:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
2,4,6-Trichlorophenol	ND	50		µg/L	1	3/23/2012 5:29:21 PM
Surr: 2,4,6-Tribromophenol	100	18.1-138		%REC	1	3/23/2012 5:29:21 PM
Surr: 2-Fluorobiphenyl	83.0	25.9-101		%REC	1	3/23/2012 5:29:21 PM
Surr: 2-Fluorophenol	73.6	12.5-93.2		%REC	1	3/23/2012 5:29:21 PM
Surr: 4-Terphenyl-d14	90.0	29.5-112		%REC	1	3/23/2012 5:29:21 PM
Surr: Nitrobenzene-d5	84.4	20.5-120		%REC	1	3/23/2012 5:29:21 PM
Surr: Phenol-d5	52.2	11.5-73.2		%REC	1	3/23/2012 5:29:21 PM
EPA METHOD 8260B: VOLATILES						Analyst: MMS
Benzene	ND	10		µg/L	10	3/26/2012 10:42:17 PM
Toluene	ND	10		µg/L	10	3/26/2012 10:42:17 PM
Ethylbenzene	ND	10		µg/L	10	3/26/2012 10:42:17 PM
Methyl tert-butyl ether (MTBE)	ND	10		µg/L	10	3/26/2012 10:42:17 PM
1,2,4-Trimethylbenzene	ND	10		µg/L	10	3/26/2012 10:42:17 PM
1,3,5-Trimethylbenzene	ND	10		µg/L	10	3/26/2012 10:42:17 PM
1,2-Dichloroethane (EDC)	ND	10		µg/L	10	3/26/2012 10:42:17 PM
1,2-Dibromoethane (EDB)	ND	10		µg/L	10	3/26/2012 10:42:17 PM
Naphthalene	ND	20		µg/L	10	3/26/2012 10:42:17 PM
1-Methylnaphthalene	ND	40		µg/L	10	3/26/2012 10:42:17 PM
2-Methylnaphthalene	ND	40		µg/L	10	3/26/2012 10:42:17 PM
Acetone	3,100	500		µg/L	50	3/28/2012 7:29:21 AM
Bromobenzene	ND	10		µg/L	10	3/26/2012 10:42:17 PM
Bromodichloromethane	ND	10		µg/L	10	3/26/2012 10:42:17 PM
Bromoform	ND	10		µg/L	10	3/26/2012 10:42:17 PM
Bromomethane	ND	30		µg/L	10	3/26/2012 10:42:17 PM
2-Butanone	250	100		µg/L	10	3/26/2012 10:42:17 PM
Carbon disulfide	ND	100		µg/L	10	3/26/2012 10:42:17 PM
Carbon Tetrachloride	ND	10		µg/L	10	3/26/2012 10:42:17 PM
Chlorobenzene	ND	10		µg/L	10	3/26/2012 10:42:17 PM
Chloroethane	ND	20		µg/L	10	3/26/2012 10:42:17 PM
Chloroform	ND	10		µg/L	10	3/26/2012 10:42:17 PM
Chloromethane	ND	30		µg/L	10	3/26/2012 10:42:17 PM
2-Chlorotoluene	ND	10		µg/L	10	3/26/2012 10:42:17 PM
4-Chlorotoluene	ND	10		µg/L	10	3/26/2012 10:42:17 PM
cis-1,2-DCE	ND	10		µg/L	10	3/26/2012 10:42:17 PM
cis-1,3-Dichloropropene	ND	10		µg/L	10	3/26/2012 10:42:17 PM
1,2-Dibromo-3-chloropropane	ND	20		µg/L	10	3/26/2012 10:42:17 PM
Dibromochloromethane	ND	10		µg/L	10	3/26/2012 10:42:17 PM
Dibromomethane	ND	10		µg/L	10	3/26/2012 10:42:17 PM
1,2-Dichlorobenzene	ND	10		µg/L	10	3/26/2012 10:42:17 PM
1,3-Dichlorobenzene	ND	10		µg/L	10	3/26/2012 10:42:17 PM
1,4-Dichlorobenzene	ND	10		µg/L	10	3/26/2012 10:42:17 PM

Qualifiers: * / X Value exceeds Maximum Contaminant Level.
 E Value above quantitation range
 J Analyte detected below quantitation limits
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.**Analytical Report**

Lab Order 1203777

Date Reported: 4/16/2012

CLIENT: Western Refining Southwest, Gallup**Client Sample ID:** Infl to EP-1**Project:** 1st QTR 2012 Groundwater Sampling**Collection Date:** 3/20/2012 2:00:00 PM**Lab ID:** 1203777-003**Matrix:** AQUEOUS**Received Date:** 3/21/2012 12:47:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: MMS
Dichlorodifluoromethane	ND	10		µg/L	10	3/26/2012 10:42:17 PM
1,1-Dichloroethane	ND	10		µg/L	10	3/26/2012 10:42:17 PM
1,1-Dichloroethene	ND	10		µg/L	10	3/26/2012 10:42:17 PM
1,2-Dichloropropane	ND	10		µg/L	10	3/26/2012 10:42:17 PM
1,3-Dichloropropane	ND	10		µg/L	10	3/26/2012 10:42:17 PM
2,2-Dichloropropane	ND	20		µg/L	10	3/26/2012 10:42:17 PM
1,1-Dichloropropene	ND	10		µg/L	10	3/26/2012 10:42:17 PM
Hexachlorobutadiene	ND	10		µg/L	10	3/26/2012 10:42:17 PM
2-Hexanone	ND	100		µg/L	10	3/26/2012 10:42:17 PM
Isopropylbenzene	ND	10		µg/L	10	3/26/2012 10:42:17 PM
4-Isopropyltoluene	ND	10		µg/L	10	3/26/2012 10:42:17 PM
4-Methyl-2-pentanone	ND	100		µg/L	10	3/26/2012 10:42:17 PM
Methylene Chloride	ND	30		µg/L	10	3/26/2012 10:42:17 PM
n-Butylbenzene	ND	10		µg/L	10	3/26/2012 10:42:17 PM
n-Propylbenzene	ND	10		µg/L	10	3/26/2012 10:42:17 PM
sec-Butylbenzene	ND	10		µg/L	10	3/26/2012 10:42:17 PM
Styrene	ND	10		µg/L	10	3/26/2012 10:42:17 PM
tert-Butylbenzene	ND	10		µg/L	10	3/26/2012 10:42:17 PM
1,1,1,2-Tetrachloroethane	ND	10		µg/L	10	3/26/2012 10:42:17 PM
1,1,2,2-Tetrachloroethane	ND	20		µg/L	10	3/26/2012 10:42:17 PM
Tetrachloroethene (PCE)	ND	10		µg/L	10	3/26/2012 10:42:17 PM
trans-1,2-DCE	ND	10		µg/L	10	3/26/2012 10:42:17 PM
trans-1,3-Dichloropropene	ND	10		µg/L	10	3/26/2012 10:42:17 PM
1,2,3-Trichlorobenzene	ND	10		µg/L	10	3/26/2012 10:42:17 PM
1,2,4-Trichlorobenzene	ND	10		µg/L	10	3/26/2012 10:42:17 PM
1,1,1-Trichloroethane	ND	10		µg/L	10	3/26/2012 10:42:17 PM
1,1,2-Trichloroethane	ND	10		µg/L	10	3/26/2012 10:42:17 PM
Trichloroethene (TCE)	ND	10		µg/L	10	3/26/2012 10:42:17 PM
Trichlorofluoromethane	ND	10		µg/L	10	3/26/2012 10:42:17 PM
1,2,3-Trichloropropane	ND	20		µg/L	10	3/26/2012 10:42:17 PM
Vinyl chloride	ND	10		µg/L	10	3/26/2012 10:42:17 PM
Xylenes, Total	ND	15		µg/L	10	3/26/2012 10:42:17 PM
Surr: 1,2-Dichloroethane-d4	91.4	70-130		%REC	10	3/26/2012 10:42:17 PM
Surr: 4-Bromofluorobenzene	99.4	70-130		%REC	10	3/26/2012 10:42:17 PM
Surr: Dibromofluoromethane	110	69.8-130		%REC	10	3/26/2012 10:42:17 PM
Surr: Toluene-d8	100	70-130		%REC	10	3/26/2012 10:42:17 PM
SM4500-H+B: PH						Analyst: JLF
pH	7.79	1.68	H	pH units	1	3/23/2012 2:29:23 PM

Qualifiers: * / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

Anatek Labs, Inc.

1282 Alturas Drive • Moscow, ID 83843 • (208) 883-2839 • Fax (208) 882-9246 • email moscow@anateklabs.com
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 #: 120323033
Project Name: 1203777

Analytical Results Report

Sample Number	120323033-001	Sampling Date	3/20/2012	Date/Time Received	3/23/2012	1:11 PM
Client Sample ID	1203777-001F / INFL TO AL-1	Sampling Time	7:40 AM			
Matrix	Water					
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
COD	1900	mg/L	125	4/4/2012	JLU	EPA 410.4	

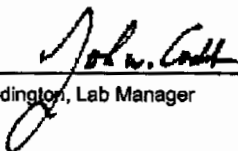
Sample Number	120323033-002	Sampling Date	3/20/2012	Date/Time Received	3/23/2012	1:11 PM
Client Sample ID	1203777-002F / INFL TO AL-2	Sampling Time	1:40 PM			
Matrix	Water					
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
COD	1090	mg/L	50	4/4/2012	JLU	EPA 410.4	

Sample Number	120323033-003	Sampling Date	3/20/2012	Date/Time Received	3/23/2012	1:11 PM
Client Sample ID	1203777-003H / INFL TO EP-1	Sampling Time	2:00 PM			
Matrix	Water					
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
COD	1600	mg/L	125	4/4/2012	JLU	EPA 410.4	

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:C585
Certifications held by Anatek Labs WA: EPA:WA00168; ID:WA00168; WA:C585; MT:Cert0095

Friday, April 06, 2012

Page 1 of 1

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203777

16-Apr-12

Client: Western Refining Southwest, Gallup
Project: 1st QTR 2012 Groundwater Sampling

Sample ID MB	SampType: MBLK	TestCode: EPA Method 200.7: Dissolved Metals								
Client ID: PBW	Batch ID: R1868	RunNo: 1868								
Prep Date:	Analysis Date: 4/2/2012	SeqNo: 52370 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	ND	0.0020								
Cadmium	ND	0.0020								
Calcium	ND	1.0								
Copper	ND	0.0060								
Iron	ND	0.020								
Magnesium	ND	1.0								
Manganese	ND	0.0020								
Potassium	ND	1.0								
Sodium	ND	1.0								

Sample ID LCS	SampType: LCS	TestCode: EPA Method 200.7: Dissolved Metals								
Client ID: LCSW	Batch ID: R1868	RunNo: 1868								
Prep Date:	Analysis Date: 4/2/2012	SeqNo: 52371 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.52	0.0020	0.5000	0	104	85	115			
Cadmium	0.52	0.0020	0.5000	0	104	85	115			
Calcium	48	1.0	50.00	0	96.3	85	115			
Copper	0.52	0.0060	0.5000	0	104	85	115			
Iron	0.51	0.020	0.5000	0	102	85	115			
Magnesium	49	1.0	50.00	0	97.1	85	115			
Manganese	0.51	0.0020	0.5000	0	102	85	115			
Potassium	47	1.0	50.00	0	93.3	85	115			
Sodium	48	1.0	50.00	0	95.1	85	115			

Sample ID MB	SampType: MBLK	TestCode: EPA Method 200.7: Dissolved Metals								
Client ID: PBW	Batch ID: R1888	RunNo: 1888								
Prep Date:	Analysis Date: 4/3/2012	SeqNo: 52722 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chromium	ND	0.0060								
Lead	ND	0.0050								
Zinc	ND	0.010								

Sample ID LCS	SampType: LCS	TestCode: EPA Method 200.7: Dissolved Metals								
Client ID: LCSW	Batch ID: R1888	RunNo: 1888								
Prep Date:	Analysis Date: 4/3/2012	SeqNo: 52723 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chromium	0.49	0.0060	0.5000	0	97.7	85	115			
Lead	0.49	0.0050	0.5000	0	98.4	85	115			
Zinc	0.49	0.010	0.5000	0	97.9	85	115			

Qualifiers:

*X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203777

16-Apr-12

Client: Western Refining Southwest, Gallup

Project: 1st QTR 2012 Groundwater Sampling

Sample ID	MB	SampType:	MBLK	TestCode:	EPA Method 200.7: Dissolved Metals					
Client ID:	PBW	Batch ID:	R1923	RunNo:	1923					
Prep Date:		Analysis Date:	4/5/2012	SeqNo:	53521	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Silver	ND	0.0050								

Sample ID	LCS	SampType:	LCS	TestCode:	EPA Method 200.7: Dissolved Metals					
Client ID:	LCSW	Batch ID:	R1923	RunNo:	1923					
Prep Date:		Analysis Date:	4/5/2012	SeqNo:	53522	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Silver	0.098	0.0050	0.1000	0	98.2	85	115			

Sample ID	MB	SampType:	MBLK	TestCode:	EPA Method 200.7: Dissolved Metals					
Client ID:	PBW	Batch ID:	R1923	RunNo:	1923					
Prep Date:		Analysis Date:	4/5/2012	SeqNo:	53523	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Silver	ND	0.0050								

Sample ID	LCS	SampType:	LCS	TestCode:	EPA Method 200.7: Dissolved Metals					
Client ID:	LCSW	Batch ID:	R1923	RunNo:	1923					
Prep Date:		Analysis Date:	4/5/2012	SeqNo:	53524	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Silver	0.10	0.0050	0.1000	0	100	85	115			

Qualifiers:

Value exceeds Maximum Contaminant Level.
Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203777

16-Apr-12

Client: Western Refining Southwest, Gallup
Project: 1st QTR 2012 Groundwater Sampling

Sample ID	MB-1230		SampType:	MBLK		TestCode:	EPA Method 200.7: Total Metals				
Client ID:	PBW		Batch ID:	1230		RunNo:	1702				
Prep Date:	3/26/2012		Analysis Date:	3/26/2012		SeqNo:	48039		Units:		mg/L
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Barium	ND	0.0020									
Cadmium	ND	0.0020									
Chromium	ND	0.0060									
Copper	ND	0.0060									
Iron	ND	0.020									
Lead	ND	0.0050									
Manganese	ND	0.0020									
Silver	ND	0.0050									
Zinc	ND	0.010									

Sample ID	LCS-1230		SampType: LCS		TestCode: EPA Method 200.7: Total Metals					
Client ID:	LCSW		Batch ID: 1230		RunNo: 1702					
Prep Date:	3/26/2012		Analysis Date: 3/26/2012		SeqNo: 48040		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.49	0.0020	0.5000	0	98.7	85	115			
Cadmium	0.51	0.0020	0.5000	0.0004200	101	85	115			
Chromium	0.49	0.0060	0.5000	0.0006400	98.8	85	115			
Copper	0.50	0.0060	0.5000	0.001800	99.1	85	115			
Iron	0.48	0.020	0.5000	0	96.3	85	115			
Lead	0.49	0.0050	0.5000	0	98.4	85	115			
Manganese	0.48	0.0020	0.5000	0	96.2	85	115			
Silver	0.10	0.0050	0.1000	0	102	85	115			
Zinc	0.49	0.010	0.5000	0	97.7	85	115			

Qualifiers:

* / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203777

16-Apr-12

Client: Western Refining Southwest, Gallup
Project: 1st QTR 2012 Groundwater Sampling

Sample ID	MB	SampType:	MBLK	TestCode:	EPA 200.8: Dissolved Metals					
Client ID:	PBW	Batch ID:	R2111	RunNo:	2111					
Prep Date:		Analysis Date:	4/12/2012	SeqNo:	58404	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.0010								
Uranium	ND	0.0010								

Sample ID	LCS	SampType:	LCS	TestCode:	EPA 200.8: Dissolved Metals					
Client ID:	LCSW	Batch ID:	R2111	RunNo:	2111					
Prep Date:		Analysis Date:	4/12/2012	SeqNo:	58405	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.025	0.0010	0.02500	0	99.4	85	115			
Uranium	0.024	0.0010	0.02500	0	95.9	85	115			

Sample ID	1203798-001DMS		SampType:	MS		TestCode:	EPA 200.8: Dissolved Metals				
Client ID:	BatchQC		Batch ID:	R2111		RunNo:	2111				
Prep Date:			Analysis Date:	4/12/2012		SeqNo:	58409		Units: mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Arsenic	0.028	0.0010	0.02500	0.003713	97.1	70	130				
Uranium	0.026	0.0010	0.02500	0.001260	97.5	70	130				

Sample ID	1203898-001EMS			SampType:	MS		TestCode:	EPA 200.8: Dissolved Metals			
Client ID:	BatchQC			Batch ID:	R2111		RunNo:	2111			
Prep Date:				Analysis Date:	4/12/2012		SeqNo:	58420		Units:	mg/L
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Arsenic	0.026	0.0010	0.02500	0.001858	97.3	70	130				

Sample ID	MB	SampType:	MBLK	TestCode:	EPA 200.8: Dissolved Metals					
Client ID:	PBW	Batch ID:	R2139	RunNo:	2139					
Prep Date:		Analysis Date:	4/13/2012	SeqNo:	59445	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Selenium	ND	0.0010								

Sample ID	LCS	SampType:	LCS	TestCode:	EPA 200.8: Dissolved Metals					
Client ID:	LCSW	Batch ID:	R2139	RunNo:	2139					
Prep Date:		Analysis Date:	4/13/2012	SeqNo:	59446	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Selenium	0.025	0.0010	0.02500	0	100	85	115			

Qualifiers:

Value exceeds Maximum Contaminant Level.
Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203777

16-Apr-12

Client: Western Refining Southwest, Gallup
Project: 1st QTR 2012 Groundwater Sampling

Sample ID	1203798-001DMS			SampType:	MS		TestCode:	EPA 200.8: Dissolved Metals			
Client ID:	BatchQC		Batch ID:	R2139		RunNo:	2139				
Prep Date:			Analysis Date:	4/13/2012		SeqNo:	59450		Units: mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Selenium	0.028	0.0010	0.02500	0.005266	91.2	70	130				

Qualifiers:

* /X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203777

16-Apr-12

Client: Western Refining Southwest, Gallup
Project: 1st QTR 2012 Groundwater Sampling

Sample ID	MB-1230	SampType:	MBLK	TestCode:	200.8 ICPMS Metals:Total					
Client ID:	PBW	Batch ID:	1230	RunNo:	1930					
Prep Date:	3/26/2012	Analysis Date:	4/4/2012	SeqNo:	53748	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.0025								
Selenium	ND	0.0025								
Uranium	ND	0.0025								

Qualifiers:

Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
Value above quantitation range	H	Holding times for preparation or analysis exceeded
J Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R RPD outside accepted recovery limits	RL	Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203777

16-Apr-12

Client: Western Refining Southwest, Gallup
Project: 1st QTR 2012 Groundwater Sampling

Sample ID	MB-1217	SampType:	MBLK	TestCode:	EPA Method 245.1: Mercury					
Client ID:	PBW	Batch ID:	1217	RunNo:	1649					
Prep Date:	3/23/2012	Analysis Date:	3/23/2012	SeqNo:	46664	Units: mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.00020								

Sample ID	LCS-1217	SampType:	LCS	TestCode:	EPA Method 245.1: Mercury					
Client ID:	LCSW	Batch ID:	1217	RunNo:	1649					
Prep Date:	3/23/2012	Analysis Date:	3/23/2012	SeqNo:	46665	Units: mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0050	0.00020	0.005000	0	101	80	120			

Sample ID	1203766-001EMS	SampType:	MS	TestCode:	EPA Method 245.1: Mercury					
Client ID:	BatchQC	Batch ID:	1217	RunNo:	1649					
Prep Date:	3/23/2012	Analysis Date:	3/23/2012	SeqNo:	46696	Units: mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0054	0.0010	0.005000	0	108	75	125			

Sample ID	1203766-001EMSD	SampType:	MSD	TestCode:	EPA Method 245.1: Mercury					
Client ID:	BatchQC	Batch ID:	1217	RunNo:	1649					
Prep Date:	3/23/2012	Analysis Date:	3/23/2012	SeqNo:	46697	Units: mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0055	0.0010	0.005000	0	111	75	125	2.60	20	

Qualifiers:

* / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203777

16-Apr-12

Client: Western Refining Southwest, Gallup

Project: 1st QTR 2012 Groundwater Sampling

Sample ID	MB	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBW	Batch ID:	R1603	RunNo:	1603					
Prep Date:		Analysis Date:	3/21/2012	SeqNo:	45120	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.10								
Chloride	ND	0.50								
Nitrogen, Nitrite (As N)	ND	0.10								
Bromide	ND	0.10								
Nitrogen, Nitrate (As N)	ND	0.10								
Phosphorus, Orthophosphate (As P)	ND	0.50								
Sulfate	ND	0.50								

Sample ID	LCS	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSW	Batch ID:	R1603	RunNo:	1603					
Prep Date:		Analysis Date:	3/21/2012	SeqNo:	45121	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.51	0.10	0.5000	0	102	90	110			
Chloride	4.7	0.50	5.000	0	93.3	90	110			
Nitrogen, Nitrite (As N)	0.94	0.10	1.000	0	93.9	90	110			
Bromide	2.4	0.10	2.500	0	94.7	90	110			
Nitrogen, Nitrate (As N)	2.4	0.10	2.500	0	97.0	90	110			
Phosphorus, Orthophosphate (As P)	4.8	0.50	5.000	0	95.9	90	110			
Sulfate	9.7	0.50	10.00	0	97.0	90	110			

Sample ID	LCSD	SampType:	LCSD	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS02	Batch ID:	R1603	RunNo:	1603					
Prep Date:		Analysis Date:	3/21/2012	SeqNo:	45122	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.52	0.10	0.5000	0	104	90	110	2.06	20	
Chloride	4.7	0.50	5.000	0	94.4	90	110	1.21	20	
Nitrogen, Nitrite (As N)	0.95	0.10	1.000	0	94.5	90	110	0.669	20	
Bromide	2.4	0.10	2.500	0	95.3	90	110	0.658	20	
Nitrogen, Nitrate (As N)	2.4	0.10	2.500	0	97.5	90	110	0.580	20	
Phosphorus, Orthophosphate (As P)	4.8	0.50	5.000	0	96.4	90	110	0.448	20	
Sulfate	9.7	0.50	10.00	0	97.4	90	110	0.462	20	

Sample ID	1203750-001FMS	SampType:	MS	TestCode:	EPA Method 300.0: Anions					
Client ID:	BatchQC	Batch ID:	R1603	RunNo:	1603					
Prep Date:		Analysis Date:	3/21/2012	SeqNo:	45124	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	25	5.0	25.00	1.873	94.2	72.9	113			
Bromide	150	5.0	125.0	31.23	94.3	76	114			
Nitrogen, Nitrate (As N)	120	5.0	125.0	0	96.5	82.8	116			

Qualifiers:

- | | | |
|--|----|--|
| Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| Analyte detected below quantitation limits | ND | Not Detected at the Reporting Limit |
| RPD outside accepted recovery limits | RL | Reporting Detection Limit |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203777

16-Apr-12

Client: Western Refining Southwest, Gallup
Project: 1st QTR 2012 Groundwater Sampling

Sample ID	1203750-001FMS	SampType:	MS	TestCode:	EPA Method 300.0: Anions					
Client ID:	BatchQC	Batch ID:	R1603	RunNo:	1603					
Prep Date:		Analysis Date:	3/21/2012	SeqNo:	45124	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Phosphorus, Orthophosphate (As P)	230	25	250.0	0	92.7	79.3	108			

Sample ID	1203750-001FMSD	SampType:	MSD	TestCode:	EPA Method 300.0: Anions					
Client ID:	BatchQC	Batch ID:	R1603	RunNo:	1603					
Prep Date:		Analysis Date:	3/21/2012	SeqNo:	45125	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	26	5.0	25.00	1.873	94.9	72.9	113	0.763	20	
Bromide	150	5.0	125.0	31.23	94.8	76	114	0.457	20	
Nitrogen, Nitrate (As N)	120	5.0	125.0	0	97.0	82.8	116	0.495	20	
Phosphorus, Orthophosphate (As P)	230	25	250.0	0	93.3	79.3	108	0.696	20	

Sample ID	1203795-001AMS	SampType:	MS	TestCode:	EPA Method 300.0: Anions					
Client ID:	BatchQC	Batch ID:	R1603	RunNo:	1603					
Prep Date:		Analysis Date:	3/21/2012	SeqNo:	45133	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.99	0.10	0.5000	0.5112	95.4	72.9	113			
Chloride	15	0.50	5.000	9.762	106	78	107			
Nitrogen, Nitrite (As N)	0.89	0.10	1.000	0	89.2	77.6	111			
Bromide	2.4	0.10	2.500	0	96.5	76	114			
Nitrogen, Nitrate (As N)	3.5	0.10	2.500	0.9770	101	82.8	116			
Phosphorus, Orthophosphate (As P)	4.7	0.50	5.000	0	94.7	79.3	108			

Sample ID	1203795-001AMSD	SampType:	MSD	TestCode:	EPA Method 300.0: Anions					
Client ID:	BatchQC	Batch ID:	R1603	RunNo:	1603					
Prep Date:		Analysis Date:	3/21/2012	SeqNo:	45134	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.99	0.10	0.5000	0.5112	96.1	72.9	113	0.353	20	
Chloride	15	0.50	5.000	9.762	107	78	107	0.325	20	S
Nitrogen, Nitrite (As N)	0.90	0.10	1.000	0	89.7	77.6	111	0.590	20	
Bromide	2.4	0.10	2.500	0	96.7	76	114	0.146	20	
Nitrogen, Nitrate (As N)	3.5	0.10	2.500	0.9770	102	82.8	116	0.457	20	
Phosphorus, Orthophosphate (As P)	4.8	0.50	5.000	0	95.6	79.3	108	0.913	20	

Sample ID	MB	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBW	Batch ID:	R1676	RunNo:	1676					
Prep Date:		Analysis Date:	3/23/2012	SeqNo:	47441	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								

Qualifiers:

*X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203777

16-Apr-12

Client: Western Refining Southwest, Gallup

Project: 1st QTR 2012 Groundwater Sampling

Sample ID	LCS	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSW	Batch ID:	R1676	RunNo:	1676					
Prep Date:		Analysis Date:	3/23/2012	SeqNo:	47442	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.8	0.50	5.000	0	95.0	90	110			

Qualifiers:

Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
Value above quantitation range	H	Holding times for preparation or analysis exceeded
Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
RPD outside accepted recovery limits	RL	Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203777

16-Apr-12

Client: Western Refining Southwest, Gallup

Project: 1st QTR 2012 Groundwater Sampling

Sample ID	MB-1190		SampType:	MBLK		TestCode:	EPA Method 8015B: Diesel Range			
Client ID:	PBW		Batch ID:	1190		RunNo:	1609			
Prep Date:	3/22/2012		Analysis Date:	3/22/2012		SeqNo:	45452		Units: mg/L	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	1.0								
Motor Oil Range Organics (MRO)	ND	5.0								
Surr: DNOP	1.0		1.000		102	61.3	164			

Sample ID	LCS-1190		SampType:	LCS		TestCode:	EPA Method 8015B: Diesel Range			
Client ID:	LCSW		Batch ID:	1190		RunNo:	1609			
Prep Date:	3/22/2012		Analysis Date:	3/22/2012		SeqNo:	45460		Units: mg/L	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	4.9	1.0	5.000	0	97.9	74	157			
Surr: DNOP	0.50		0.5000		101	61.3	164			

Sample ID	LCSD-1190		SampType:	LCSD		TestCode:	EPA Method 8015B: Diesel Range			
Client ID:	LCSS02		Batch ID:	1190		RunNo:	1609			
Prep Date:	3/22/2012		Analysis Date:	3/22/2012		SeqNo:	45474		Units: mg/L	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	5.4	1.0	5.000	0	109	74	157	10.5	23	
Surr: DNOP	0.54		0.5000		108	61.3	164	0	0	

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203777

16-Apr-12

Client: Western Refining Southwest, Gallup
Project: 1st QTR 2012 Groundwater Sampling

Sample ID	5ML RB	SampType:	MBLK	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	PBW	Batch ID:	R1707	RunNo:	1707					
Prep Date:		Analysis Date:	3/26/2012	SeqNo:	48117	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050								
Surr: BFB	18		20.00		91.7	69.3	120			

Sample ID	2.5UG GRO LCS	SampType:	LCS	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	LCSW	Batch ID:	R1707	RunNo:	1707					
Prep Date:		Analysis Date:	3/26/2012	SeqNo:	48118	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.59	0.050	0.5000	0	117	101	123			
Surr: BFB	19		20.00		97.2	69.3	120			

Sample ID	1203777-001AMS	SampType:	MS	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	Infl To AL-1	Batch ID:	R1707	RunNo:	1707					
Prep Date:		Analysis Date:	3/27/2012	SeqNo:	48133	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	16	1.0	10.00	4.496	120	75.4	121			
Surr: BFB	430		400.0		107	69.3	120			

Sample ID	1203777-001AMSD	SampType:	MSD	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	Infl To AL-1	Batch ID:	R1707	RunNo:	1707					
Prep Date:		Analysis Date:	3/27/2012	SeqNo:	48134	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	17	1.0	10.00	4.496	129	75.4	121	5.72	10.5	S
Surr: BFB	350		400.0		87.2	69.3	120	0	0	

Qualifiers:

Value exceeds Maximum Contaminant Level.
Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203777

16-Apr-12

Client: Western Refining Southwest, Gallup

Project: 1st QTR 2012 Groundwater Sampling

Sample ID	5ml rb	SampType:	MBLK	TestCode:	EPA Method 8260B: VOLATILES					
Client ID:	PBW	Batch ID:	R1715	RunNo:	1715					
Prep Date:		Analysis Date:	3/26/2012	SeqNo:	48299	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								

Qualifiers:

*X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203777

16-Apr-12

Client: Western Refining Southwest, Gallup
Project: 1st QTR 2012 Groundwater Sampling

Sample ID	5ml rb	SampType:	MBLK	TestCode:	EPA Method 8260B: VOLATILES					
Client ID:	PBW	Batch ID:	R1715	RunNo:	1715					
Prep Date:		Analysis Date:	3/26/2012	SeqNo:	48299	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	1.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	9.3		10.00		92.9	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		103	70	130			
Surr: Dibromofluoromethane	11		10.00		114	69.8	130			
Surr: Toluene-d8	10		10.00		102	70	130			

Sample ID	100ng lcs-c	SampType:	LCS	TestCode:	EPA Method 8260B: VOLATILES					
Client ID:	LCSW	Batch ID:	R1715	RunNo:	1715					
Prep Date:		Analysis Date:	3/26/2012	SeqNo:	48300	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	18	1.0	20.00	0	92.3	84.1	126			
Toluene	20	1.0	20.00	0	98.3	80	120			
Chlorobenzene	19	1.0	20.00	0	96.1	70	130			
1,1-Dichloroethene	18	1.0	20.00	0	90.6	83	130			
Trichloroethene (TCE)	19	1.0	20.00	0	96.9	76.2	119			
Surr: 1,2-Dichloroethane-d4	9.5		10.00		95.0	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		102	70	130			
Surr: Dibromofluoromethane	11		10.00		108	69.8	130			

Qualifiers:

Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
Value above quantitation range	H	Holding times for preparation or analysis exceeded
J Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R RPD outside accepted recovery limits	RL	Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203777

16-Apr-12

Client: Western Refining Southwest, Gallup

Project: 1st QTR 2012 Groundwater Sampling

Sample ID	100ng lcs-c	SampType:	LCS	TestCode:	EPA Method 8260B: VOLATILES					
Client ID:	LCSW	Batch ID:	R1715	RunNo:	1715					
Prep Date:		Analysis Date:	3/26/2012	SeqNo:	48300	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Toluene-d8	10		10.00		103	70	130			

Sample ID	b4	SampType:	MBLK		TestCode:	EPA Method 8260B: VOLATILES				
Client ID:	PBW	Batch ID:	R1753		RunNo:	1753				
Prep Date:		Analysis Date:	3/27/2012		SeqNo:	49319	Units:	µg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acetone	ND	10								
Surr: 1,2-Dichloroethane-d4	9.9		10.00		99.1	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		99.6	70	130			
Surr: Dibromofluoromethane	12		10.00		118	69.8	130			
Surr: Toluene-d8	9.8		10.00		98.2	70	130			

Qualifiers:

*X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203777

16-Apr-12

Client: Western Refining Southwest, Gallup

Project: 1st QTR 2012 Groundwater Sampling

Sample ID	mb-1187	SampType:	MBLK	TestCode:	EPA Method 8270C: Semivolatiles					
Client ID:	PBW	Batch ID:	1187	RunNo:	1636					
Prep Date:	3/22/2012	Analysis Date:	3/23/2012	SeqNo:	46382	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	ND	10								
Acenaphthylene	ND	10								
Aniline	ND	10								
Anthracene	ND	10								
Azobenzene	ND	10								
Benz(a)anthracene	ND	10								
Benzo(a)pyrene	ND	10								
Benzo(b)fluoranthene	ND	10								
Benzo(g,h,i)perylene	ND	10								
Benzo(k)fluoranthene	ND	10								
Benzoic acid	ND	20								
Benzyl alcohol	ND	10								
Bis(2-chloroethoxy)methane	ND	10								
Bis(2-chloroethyl)ether	ND	10								
Bis(2-chloroisopropyl)ether	ND	10								
Bis(2-ethylhexyl)phthalate	ND	10								
4-Bromophenyl phenyl ether	ND	10								
benzyl phthalate	ND	10								
Carbazole	ND	10								
4-Chloro-3-methylphenol	ND	10								
4-Chloroaniline	ND	10								
2-Chloronaphthalene	ND	10								
2-Chlorophenol	ND	10								
4-Chlorophenyl phenyl ether	ND	10								
Chrysene	ND	10								
Di-n-butyl phthalate	ND	10								
Di-n-octyl phthalate	ND	10								
Dibenz(a,h)anthracene	ND	10								
Dibenzofuran	ND	10								
1,2-Dichlorobenzene	ND	5.0								
1,3-Dichlorobenzene	ND	10								
1,4-Dichlorobenzene	ND	5.0								
3,3'-Dichlorobenzidine	ND	10								
Diethyl phthalate	ND	10								
Dimethyl phthalate	ND	10								
2,4-Dichlorophenol	ND	20								
2,4-Dimethylphenol	ND	10								
4,6-Dinitro-2-methylphenol	ND	20								
2,4-Dinitrophenol	ND	5.0								
2,4-Dinitrotoluene	ND	5.0								
2,6-Dinitrotoluene	ND	10								

Qualifiers:

Value exceeds Maximum Contaminant Level.
Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203777

16-Apr-12

Client: Western Refining Southwest, Gallup

Project: 1st QTR 2012 Groundwater Sampling

Sample ID	mb-1187	SampType:	MBLK	TestCode:	EPA Method 8270C: Semivolatiles					
Client ID:	PBW	Batch ID:	1187	RunNo:	1636					
Prep Date:	3/22/2012	Analysis Date:	3/23/2012	SeqNo:	46382	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoranthene	ND	10								
Fluorene	ND	10								
Hexachlorobenzene	ND	5.0								
Hexachlorobutadiene	ND	10								
Hexachlorocyclopentadiene	ND	10								
Hexachloroethane	ND	5.0								
Indeno(1,2,3-cd)pyrene	ND	10								
Isophorone	ND	10								
1-Methylnaphthalene	ND	10								
2-Methylnaphthalene	ND	10								
2-Methylphenol	ND	5.0								
3+4-Methylphenol	ND	5.0								
N-Nitrosodi-n-propylamine	ND	10								
N-Nitrosodimethylamine	ND	10								
N-Nitrosodiphenylamine	ND	10								
Naphthalene	ND	10								
2-Nitroaniline	ND	10								
3-Nitroaniline	ND	10								
4-Nitroaniline	ND	20								
Nitrobenzene	ND	5.0								
2-Nitrophenol	ND	10								
4-Nitrophenol	ND	10								
Pentachlorophenol	ND	5.0								
Phenanthrene	ND	10								
Phenol	ND	10								
Pyrene	ND	10								
Pyridine	ND	5.0								
1,2,4-Trichlorobenzene	ND	10								
2,4,5-Trichlorophenol	ND	10								
2,4,6-Trichlorophenol	ND	10								
Surr: 2,4,6-Tribromophenol	180		200.0		92.2	18.1	138			
Surr: 2-Fluorobiphenyl	75		100.0		74.8	25.9	101			
Surr: 2-Fluorophenol	140		200.0		72.0	12.5	93.2			
Surr: 4-Terphenyl-d14	81		100.0		81.5	29.5	112			
Surr: Nitrobenzene-d5	86		100.0		86.5	20.5	120			
Surr: Phenol-d5	110		200.0		54.7	11.5	73.2			

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203777

16-Apr-12

Client: Western Refining Southwest, Gallup
Project: 1st QTR 2012 Groundwater Sampling

Sample ID	lcs-1187		SampType: LCS			TestCode: EPA Method 8270C: Semivolatiles				
Client ID:	LCSW		Batch ID: 1187			RunNo: 1636				
Prep Date:	3/22/2012		Analysis Date: 3/23/2012			SeqNo: 46383	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	79	10	100.0	0	79.5	37.7	119			
4-Chloro-3-methylphenol	76	10	100.0	0	75.5	48.8	104			
2-Chlorophenol	73	10	100.0	0	72.7	38.2	109			
1,4-Dichlorobenzene	69	5.0	100.0	0	69.4	33.7	99.1			
2,4-Dinitrotoluene	79	5.0	100.0	0	79.4	39.9	125			
N-Nitrosodi-n-propylamine	78	10	100.0	0	78.3	43.8	95.1			
4-Nitrophenol	33	10	100.0	0	32.6	21.7	68.6			
Pentachlorophenol	47	5.0	100.0	0	47.1	26.7	107			
Phenol	47	10	100.0	0	47.3	23.9	65.8			
Pyrene	84	10	100.0	0	84.4	45.7	107			
1,2,4-Trichlorobenzene	80	10	100.0	0	80.1	30.8	104			
Surr: 2,4,6-Tribromophenol	87		100.0		87.0	18.1	138			
Surr: 2-Fluorobiphenyl	84		100.0		83.6	25.9	101			
Surr: 2-Fluorophenol	56		100.0		55.7	12.5	93.2			
Surr: 4-Terphenyl-d14	90		100.0		90.2	29.5	112			
Surr: Nitrobenzene-d5	82		100.0		81.6	20.5	120			
Surr: Phenol-d5	50		100.0		50.4	11.5	73.2			

Sample ID	lcsd-1187		SampType: LCSD			TestCode: EPA Method 8270C: Semivolatiles				
Client ID:	LCSS02		Batch ID: 1187			RunNo: 1636				
Prep Date:	3/22/2012		Analysis Date: 3/23/2012			SeqNo: 46385	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	77	10	100.0	0	77.4	37.7	119	2.60	20	
4-Chloro-3-methylphenol	73	10	100.0	0	72.6	48.8	104	3.97	20	
2-Chlorophenol	72	10	100.0	0	72.2	38.2	109	0.635	20	
1,4-Dichlorobenzene	66	5.0	100.0	0	65.6	33.7	99.1	5.54	20	
2,4-Dinitrotoluene	77	5.0	100.0	0	77.4	39.9	125	2.60	20	
N-Nitrosodi-n-propylamine	78	10	100.0	0	77.6	43.8	95.1	0.898	20	
4-Nitrophenol	33	10	100.0	0	32.5	21.7	68.6	0.368	20	
Pentachlorophenol	48	5.0	100.0	0	48.5	26.7	107	2.80	20	
Phenol	49	10	100.0	0	48.7	23.9	65.8	3.00	20	
Pyrene	81	10	100.0	0	80.5	45.7	107	4.73	20	
1,2,4-Trichlorobenzene	80	10	100.0	0	79.7	30.8	104	0.501	20	
Surr: 2,4,6-Tribromophenol	94		100.0		93.9	18.1	138	0	0	
Surr: 2-Fluorobiphenyl	84		100.0		84.3	25.9	101	0	0	
Surr: 2-Fluorophenol	58		100.0		57.8	12.5	93.2	0	0	
Surr: 4-Terphenyl-d14	89		100.0		89.1	29.5	112	0	0	
Surr: Nitrobenzene-d5	80		100.0		80.3	20.5	120	0	0	
Surr: Phenol-d5	49		100.0		49.5	11.5	73.2	0	0	

Qualifiers:

Value exceeds Maximum Contaminant Level.
Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203777

16-Apr-12

Client: Western Refining Southwest, Gallup

Project: 1st QTR 2012 Groundwater Sampling

Sample ID	MB-1186		SampType:	MBLK		TestCode:	SM5210B: BOD				
Client ID:	PBW		Batch ID:	1186		RunNo:	1697				
Prep Date:	3/22/2012		Analysis Date:	3/27/2012		SeqNo:	47881		Units: mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Biochemical Oxygen Demand	ND	2.0									

Sample ID	MB-1186		SampType:	MBLK		TestCode:	SM5210B: BOD				
Client ID:	PBW		Batch ID:	1186		RunNo:	1697				
Prep Date:	3/22/2012		Analysis Date:	3/27/2012		SeqNo:	47882		Units: mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Biochemical Oxygen Demand	ND	2.0									

Sample ID	LCS-1186		SampType:	LCS		TestCode:	SM5210B: BOD				
Client ID:	LCSW		Batch ID:	1186		RunNo:	1697				
Prep Date:	3/22/2012		Analysis Date:	3/27/2012		SeqNo:	47883		Units: mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Biochemical Oxygen Demand	180	2.0	198.0	0	89.6	84.6	115.4				

Sample ID	LCSD-1186	SampType:	LCSD	TestCode:	SM5210B: BOD					
Client ID:	LCSS02	Batch ID:	1186	RunNo:	1697					
Prep Date:	3/22/2012	Analysis Date:	3/27/2012	SeqNo:	47884	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Biochemical Oxygen Demand	180	2.0	198.0	0	90.4	84.6	115.4	0.842	20	

Sample ID	1203744-001ADUP		SampType:	DUP		TestCode:	SM5210B: BOD				
Client ID:	BatchQC		Batch ID:	1186		RunNo:	1697				
Prep Date:	3/22/2012		Analysis Date:	3/27/2012		SeqNo:	47886		Units: mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Biochemical Oxygen Demand	10	2.0						0.300	20		

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203777

16-Apr-12

Client: Western Refining Southwest, Gallup
Project: 1st QTR 2012 Groundwater Sampling

Sample ID	1203750-001f dup	SampType:	DUP	TestCode:	SM4500-H+B: pH					
Client ID:	BatchQC	Batch ID:	R1673	RunNo:	1673					
Prep Date:		Analysis Date:	3/23/2012	SeqNo:	47341	Units:	pH units			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
pH	7.29	1.68						0		H

Qualifiers:

Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
Value above quantitation range	H	Holding times for preparation or analysis exceeded
J Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R RPD outside accepted recovery limits	RL	Reporting Detection Limit



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87105
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name:	Western Refining Gallup	Work Order Number:	1203777
Received by/date:	<i>[Signature]</i> 03/21/12		
Logged By:	Ashley Gallegos	3/21/2012 12:47:00 PM	<i>[Signature]</i>
Completed By:	Ashley Gallegos	3/21/2012 2:14:53 PM	<i>[Signature]</i>
Reviewed By:	<i>[Signature]</i> IO 03/21/12		

Chain of Custody

1. Were seals intact? Yes ☐ No ☐ Not Present ☒
2. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
3. How was the sample delivered? Client

Log In

4. Coolers are present? (see 19. for cooler specific information) Yes ☒ No ☐ NA ☐
5. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
6. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
7. Sample(s) in proper container(s)? Yes ☒ No ☐
8. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
9. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
10. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
11. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
12. Were any sample containers received broken? Yes ☐ No ☒
13. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
14. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
15. Is it clear what analyses were requested? Yes ☒ No ☐
16. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

# of preserved bottles checked for pH:	6
Adjusted? <2 or >12 unless noted	
Checked by:	IO

Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:		Date:	
By Whom:		Via:	☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:			
Client Instructions:			

18. Additional remarks:

19. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			

Chain-of-Custody Record

Client: West Refining

Turn-Around Time:

☒ Standard ☐ Rush

Project Name

1st QTR 2012 Groundwater

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)

Project Manager:

Cheryl Johnson

Sampler: T. Fleener / S. Hoke

On Ice: ☒ Yes ☐ No

Sample Temperature

10

Date Time Matrix Sample Request ID

3-20-12 0740 W Infl to AL-1

3-20-12 1340 W Infl to AL-2

3-20-12 1400 W Infl to EP-1

Container Type and #

various

various

various

Preservative Type

various

various

various

HEAL No

1203777

-001

-002

-003

Analysis Request

WACC Metals (Total and Dissolved)

8015B (DRO/GRO)

Air Bubbles (Y or N)

Remarks:

Received by: *Alan D* Date Time: 3-21-12 0830

Date: 3/21/12 Time: 0830

Received by: *Alan D* Date Time: 03/21/12 1247

Date: 3/21/12 Time: 1247

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



*Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com*

April 18, 2012

Cheryl Johnson

Western Refining Southwest, Gallup

Rt. 3 Box 7

Gallup, NM 87301

TEL: (505) 722-0231

FAX (505) 722-0210

RE: 1st QTR 2012 Groundwater Sampling

OrderNo.: 1203798

Dear Cheryl Johnson:

Hall Environmental Analysis Laboratory received 3 sample(s) on 3/21/2012 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.**Analytical Report**

Lab Order 1203798

Date Reported: 4/18/2012

CLIENT: Western Refining Southwest, Gallup**Client Sample ID:** Pilot Eff**Project:** 1st QTR 2012 Groundwater Sampling**Collection Date:** 3/20/2012 1:20:00 PM**Lab ID:** 1203798-001**Matrix:** AQUEOUS**Received Date:** 3/21/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: JMP
Diesel Range Organics (DRO)	4.7	1.0		mg/L	1	3/22/2012 1:36:03 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	3/22/2012 1:36:03 PM
Surr: DNOP	116	61.3-164		%REC	1	3/22/2012 1:36:03 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	0.50		mg/L	10	3/27/2012 3:17:42 PM
Surr: BFB	92.6	69.3-120		%REC	10	3/27/2012 3:17:42 PM
EPA METHOD 200.7: DISSOLVED METALS						Analyst: RAG
Barium	0.014	0.0020		mg/L	1	4/2/2012 7:06:32 PM
Cadmium	ND	0.0020		mg/L	1	4/2/2012 7:06:32 PM
Chromium	0.0081	0.0060		mg/L	1	4/3/2012 5:20:44 PM
Copper	0.010	0.0060		mg/L	1	4/2/2012 7:06:32 PM
Iron	0.16	0.020		mg/L	1	4/2/2012 7:06:32 PM
Lead	ND	0.0050		mg/L	1	4/3/2012 5:20:44 PM
Manganese	0.027	0.0020		mg/L	1	4/2/2012 7:06:32 PM
Silver	ND	0.0050		mg/L	1	4/6/2012 7:12:29 AM
Zinc	0.033	0.010		mg/L	1	4/3/2012 5:20:44 PM
EPA METHOD 200.7: TOTAL METALS						Analyst: RAG
Barium	0.022	0.0020		mg/L	1	3/26/2012 3:54:43 PM
Cadmium	ND	0.0020		mg/L	1	3/26/2012 3:54:43 PM
Chromium	0.045	0.0060		mg/L	1	3/26/2012 3:54:43 PM
Copper	0.080	0.0060		mg/L	1	3/26/2012 3:54:43 PM
Iron	1.1	0.10	*	mg/L	5	3/28/2012 2:49:42 PM
Lead	ND	0.0050		mg/L	1	3/26/2012 3:54:43 PM
Manganese	0.035	0.0020		mg/L	1	3/26/2012 3:54:43 PM
Silver	ND	0.0050		mg/L	1	3/26/2012 3:54:43 PM
Zinc	0.092	0.010		mg/L	1	3/26/2012 3:54:43 PM
EPA 200.8: DISSOLVED METALS						Analyst: SNV
Arsenic	0.0037	0.0010		mg/L	1	4/12/2012 6:33:58 PM
Selenium	0.0053	0.0010		mg/L	1	4/13/2012 2:39:02 PM
Uranium	0.0013	0.0010		mg/L	1	4/12/2012 6:33:58 PM
200.8 ICPMS METALS:TOTAL						Analyst: SNV
Arsenic	0.0061	0.0025		mg/L	2.5	4/4/2012 5:02:01 PM
Selenium	0.0057	0.0025		mg/L	2.5	4/4/2012 5:02:01 PM
Uranium	ND	0.0025		mg/L	2.5	4/4/2012 5:02:01 PM
EPA METHOD 245.1: MERCURY						Analyst: JLF
Mercury	ND	0.00020		mg/L	1	3/29/2012 3:30:02 PM
SM5210B: BOD						Analyst: JAL
Biochemical Oxygen Demand	130	2.0		mg/L	1	3/27/2012 6:15:00 AM

Qualifiers: * / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

Analytical Report

Lab Order 1203798

Date Reported: 4/18/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: Pilot Eff

Project: 1st QTR 2012 Groundwater Sampling

Collection Date: 3/20/2012 1:20:00 PM

Lab ID: 1203798-001

Matrix: AQUEOUS

Received Date: 3/21/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: MMS
Benzene	ND	10		µg/L	10	3/26/2012 11:40:42 PM
Toluene	ND	10		µg/L	10	3/26/2012 11:40:42 PM
Ethylbenzene	ND	10		µg/L	10	3/26/2012 11:40:42 PM
Methyl tert-butyl ether (MTBE)	ND	10		µg/L	10	3/26/2012 11:40:42 PM
1,2,4-Trimethylbenzene	ND	10		µg/L	10	3/26/2012 11:40:42 PM
1,3,5-Trimethylbenzene	ND	10		µg/L	10	3/26/2012 11:40:42 PM
1,2-Dichloroethane (EDC)	ND	10		µg/L	10	3/26/2012 11:40:42 PM
1,2-Dibromoethane (EDB)	ND	10		µg/L	10	3/26/2012 11:40:42 PM
Naphthalene	ND	20		µg/L	10	3/26/2012 11:40:42 PM
1-Methylnaphthalene	ND	40		µg/L	10	3/26/2012 11:40:42 PM
2-Methylnaphthalene	ND	40		µg/L	10	3/26/2012 11:40:42 PM
Acetone	230	100		µg/L	10	3/26/2012 11:40:42 PM
Bromobenzene	ND	10		µg/L	10	3/26/2012 11:40:42 PM
Bromodichloromethane	ND	10		µg/L	10	3/26/2012 11:40:42 PM
Bromoform	ND	10		µg/L	10	3/26/2012 11:40:42 PM
Bromomethane	ND	30		µg/L	10	3/26/2012 11:40:42 PM
2-Butanone	ND	100		µg/L	10	3/26/2012 11:40:42 PM
Carbon disulfide	ND	100		µg/L	10	3/26/2012 11:40:42 PM
Carbon Tetrachloride	ND	10		µg/L	10	3/26/2012 11:40:42 PM
Chlorobenzene	ND	10		µg/L	10	3/26/2012 11:40:42 PM
Chloroethane	ND	20		µg/L	10	3/26/2012 11:40:42 PM
Chloroform	ND	10		µg/L	10	3/26/2012 11:40:42 PM
Chloromethane	ND	30		µg/L	10	3/26/2012 11:40:42 PM
2-Chlorotoluene	ND	10		µg/L	10	3/26/2012 11:40:42 PM
4-Chlorotoluene	ND	10		µg/L	10	3/26/2012 11:40:42 PM
cis-1,2-DCE	ND	10		µg/L	10	3/26/2012 11:40:42 PM
cis-1,3-Dichloropropene	ND	10		µg/L	10	3/26/2012 11:40:42 PM
1,2-Dibromo-3-chloropropane	ND	20		µg/L	10	3/26/2012 11:40:42 PM
Dibromochloromethane	ND	10		µg/L	10	3/26/2012 11:40:42 PM
Dibromomethane	ND	10		µg/L	10	3/26/2012 11:40:42 PM
1,2-Dichlorobenzene	ND	10		µg/L	10	3/26/2012 11:40:42 PM
1,3-Dichlorobenzene	ND	10		µg/L	10	3/26/2012 11:40:42 PM
1,4-Dichlorobenzene	ND	10		µg/L	10	3/26/2012 11:40:42 PM
Dichlorodifluoromethane	ND	10		µg/L	10	3/26/2012 11:40:42 PM
1,1-Dichloroethane	ND	10		µg/L	10	3/26/2012 11:40:42 PM
1,1-Dichloroethene	ND	10		µg/L	10	3/26/2012 11:40:42 PM
1,2-Dichloropropane	ND	10		µg/L	10	3/26/2012 11:40:42 PM
1,3-Dichloropropane	ND	10		µg/L	10	3/26/2012 11:40:42 PM
2,2-Dichloropropane	ND	20		µg/L	10	3/26/2012 11:40:42 PM
1,1-Dichloropropene	ND	10		µg/L	10	3/26/2012 11:40:42 PM
Hexachlorobutadiene	ND	10		µg/L	10	3/26/2012 11:40:42 PM
2-Hexanone	ND	100		µg/L	10	3/26/2012 11:40:42 PM

Qualifiers: */X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1203798

Date Reported: 4/18/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: Pilot Eff

Project: 1st QTR 2012 Groundwater Sampling

Collection Date: 3/20/2012 1:20:00 PM

Lab ID: 1203798-001

Matrix: AQUEOUS

Received Date: 3/21/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: MMS
Isopropylbenzene	ND	10		µg/L	10	3/26/2012 11:40:42 PM
4-Isopropyltoluene	ND	10		µg/L	10	3/26/2012 11:40:42 PM
4-Methyl-2-pentanone	ND	100		µg/L	10	3/26/2012 11:40:42 PM
Methylene Chloride	ND	30		µg/L	10	3/26/2012 11:40:42 PM
n-Butylbenzene	ND	10		µg/L	10	3/26/2012 11:40:42 PM
n-Propylbenzene	ND	10		µg/L	10	3/26/2012 11:40:42 PM
sec-Butylbenzene	ND	10		µg/L	10	3/26/2012 11:40:42 PM
Styrene	ND	10		µg/L	10	3/26/2012 11:40:42 PM
tert-Butylbenzene	ND	10		µg/L	10	3/26/2012 11:40:42 PM
1,1,1,2-Tetrachloroethane	ND	10		µg/L	10	3/26/2012 11:40:42 PM
1,1,2,2-Tetrachloroethane	ND	20		µg/L	10	3/26/2012 11:40:42 PM
Tetrachloroethene (PCE)	ND	10		µg/L	10	3/26/2012 11:40:42 PM
trans-1,2-DCE	ND	10		µg/L	10	3/26/2012 11:40:42 PM
trans-1,3-Dichloropropene	ND	10		µg/L	10	3/26/2012 11:40:42 PM
1,2,3-Trichlorobenzene	ND	10		µg/L	10	3/26/2012 11:40:42 PM
1,2,4-Trichlorobenzene	ND	10		µg/L	10	3/26/2012 11:40:42 PM
1,1,1-Trichloroethane	ND	10		µg/L	10	3/26/2012 11:40:42 PM
1,1,2-Trichloroethane	ND	10		µg/L	10	3/26/2012 11:40:42 PM
Trichloroethene (TCE)	ND	10		µg/L	10	3/26/2012 11:40:42 PM
Trichlorofluoromethane	ND	10		µg/L	10	3/26/2012 11:40:42 PM
1,2,3-Trichloropropane	ND	20		µg/L	10	3/26/2012 11:40:42 PM
Vinyl chloride	ND	10		µg/L	10	3/26/2012 11:40:42 PM
Xylenes, Total	ND	15		µg/L	10	3/26/2012 11:40:42 PM
Surr: 1,2-Dichloroethane-d4	94.8	70-130		%REC	10	3/26/2012 11:40:42 PM
Surr: 4-Bromofluorobenzene	101	70-130		%REC	10	3/26/2012 11:40:42 PM
Surr: Dibromofluoromethane	114	69.8-130		%REC	10	3/26/2012 11:40:42 PM
Surr: Toluene-d8	96.1	70-130		%REC	10	3/26/2012 11:40:42 PM

Qualifiers: *X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1203798

Date Reported: 4/18/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: NAPIS Eff

Project: 1st QTR 2012 Groundwater Sampling

Collection Date: 3/21/2012 7:50:00 AM

Lab ID: 1203798-002

Matrix: AQUEOUS

Received Date: 3/21/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: JMP
Diesel Range Organics (DRO)	23	1.0		mg/L	1	3/22/2012 2:01:08 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	3/22/2012 2:01:08 PM
Surr: DNOP	114	61.3-164		%REC	1	3/22/2012 2:01:08 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	120	25		mg/L	500	3/27/2012 3:48:00 PM
Surr: BFB	99.1	69.3-120		%REC	500	3/27/2012 3:48:00 PM
EPA METHOD 300.0: ANIONS						Analyst: BRM
Fluoride	220	10	*	mg/L	100	3/28/2012 6:02:17 AM
Chloride	700	25		mg/L	50	3/21/2012 8:44:12 PM
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10	3/21/2012 8:31:48 PM
Bromide	4.6	1.0		mg/L	10	3/21/2012 8:31:48 PM
Nitrogen, Nitrate (As N)	2.1	1.0		mg/L	10	3/21/2012 8:31:48 PM
Phosphorus, Orthophosphate (As P)	ND	5.0		mg/L	10	3/21/2012 8:31:48 PM
Sulfate	470	5.0		mg/L	10	3/21/2012 8:31:48 PM
EPA METHOD 200.7: DISSOLVED METALS						Analyst: RAG
Barium	0.037	0.0020		mg/L	1	4/2/2012 7:12:51 PM
Cadmium	ND	0.0020		mg/L	1	4/2/2012 7:12:51 PM
Calcium	40	1.0		mg/L	1	4/2/2012 7:12:51 PM
Chromium	ND	0.0060		mg/L	1	4/3/2012 5:26:54 PM
Copper	ND	0.0060		mg/L	1	4/2/2012 7:12:51 PM
Iron	0.50	0.020	*	mg/L	1	4/2/2012 7:12:51 PM
Lead	ND	0.0050		mg/L	1	4/3/2012 5:26:54 PM
Magnesium	15	1.0		mg/L	1	4/2/2012 7:12:51 PM
Manganese	0.17	0.0020	*	mg/L	1	4/2/2012 7:12:51 PM
Potassium	160	5.0		mg/L	5	4/2/2012 7:26:09 PM
Silver	ND	0.0050		mg/L	1	4/6/2012 7:15:30 AM
Sodium	790	10		mg/L	10	4/6/2012 7:18:28 AM
Zinc	0.024	0.010		mg/L	1	4/3/2012 5:26:54 PM
EPA METHOD 200.7: TOTAL METALS						Analyst: RAG
Barium	0.10	0.0020		mg/L	1	3/26/2012 3:57:14 PM
Cadmium	ND	0.0020		mg/L	1	3/26/2012 3:57:14 PM
Chromium	0.0077	0.0060		mg/L	1	3/26/2012 3:57:14 PM
Copper	0.0060	0.0060		mg/L	1	3/26/2012 3:57:14 PM
Iron	3.3	0.10	*	mg/L	5	3/28/2012 2:52:46 PM
Lead	ND	0.0050		mg/L	1	3/26/2012 3:57:14 PM
Manganese	0.17	0.0020	*	mg/L	1	3/26/2012 3:57:14 PM
Silver	ND	0.0050		mg/L	1	3/26/2012 3:57:14 PM
Zinc	0.047	0.010		mg/L	1	3/26/2012 3:57:14 PM
EPA 200.8: DISSOLVED METALS						Analyst: SNV

Qualifiers: * / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
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R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1203798

Date Reported: 4/18/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: NAPIS Eff

Project: 1st QTR 2012 Groundwater Sampling

Collection Date: 3/21/2012 7:50:00 AM

Lab ID: 1203798-002

Matrix: AQUEOUS

Received Date: 3/21/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA 200.8: DISSOLVED METALS						Analyst: SNV
Arsenic	0.0063	0.0010		mg/L	1	4/12/2012 6:37:43 PM
Selenium	0.051	0.0050	*	mg/L	5	4/13/2012 2:42:47 PM
Uranium	ND	0.0010		mg/L	1	4/12/2012 6:37:43 PM
200.8 ICPMS METALS:TOTAL						Analyst: SNV
Arsenic	0.013	0.0025	*	mg/L	2.5	4/4/2012 5:05:57 PM
Selenium	0.016	0.0025		mg/L	2.5	4/4/2012 5:05:57 PM
Uranium	ND	0.0025		mg/L	2.5	4/4/2012 5:05:57 PM
EPA METHOD 245.1: MERCURY						Analyst: JLF
Mercury	0.0017	0.00020		mg/L	1	3/23/2012 3:59:14 PM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	10		µg/L	1	3/23/2012 5:59:22 PM
Acenaphthylene	ND	10		µg/L	1	3/23/2012 5:59:22 PM
Aniline	630	100		µg/L	10	3/23/2012 8:29:38 PM
Anthracene	ND	10		µg/L	1	3/23/2012 5:59:22 PM
Azobenzene	ND	10		µg/L	1	3/23/2012 5:59:22 PM
Benz(a)anthracene	ND	10		µg/L	1	3/23/2012 5:59:22 PM
Benzo(a)pyrene	ND	10		µg/L	1	3/23/2012 5:59:22 PM
Benzo(b)fluoranthene	ND	10		µg/L	1	3/23/2012 5:59:22 PM
Benzo(g,h,i)perylene	ND	10		µg/L	1	3/23/2012 5:59:22 PM
Benzo(k)fluoranthene	ND	10		µg/L	1	3/23/2012 5:59:22 PM
Benzoic acid	ND	20		µg/L	1	3/23/2012 5:59:22 PM
Benzyl alcohol	ND	10		µg/L	1	3/23/2012 5:59:22 PM
Bis(2-chloroethoxy)methane	ND	10		µg/L	1	3/23/2012 5:59:22 PM
Bis(2-chloroethyl)ether	ND	10		µg/L	1	3/23/2012 5:59:22 PM
Bis(2-chloroisopropyl)ether	ND	10		µg/L	1	3/23/2012 5:59:22 PM
Bis(2-ethylhexyl)phthalate	ND	10		µg/L	1	3/23/2012 5:59:22 PM
4-Bromophenyl phenyl ether	ND	10		µg/L	1	3/23/2012 5:59:22 PM
Butyl benzyl phthalate	ND	10		µg/L	1	3/23/2012 5:59:22 PM
Carbazole	12	10		µg/L	1	3/23/2012 5:59:22 PM
4-Chloro-3-methylphenol	ND	10		µg/L	1	3/23/2012 5:59:22 PM
4-Chloroaniline	ND	10		µg/L	1	3/23/2012 5:59:22 PM
2-Chloronaphthalene	ND	10		µg/L	1	3/23/2012 5:59:22 PM
2-Chlorophenol	ND	10		µg/L	1	3/23/2012 5:59:22 PM
4-Chlorophenyl phenyl ether	ND	10		µg/L	1	3/23/2012 5:59:22 PM
Chrysene	ND	10		µg/L	1	3/23/2012 5:59:22 PM
Di-n-butyl phthalate	ND	10		µg/L	1	3/23/2012 5:59:22 PM
Di-n-octyl phthalate	ND	10		µg/L	1	3/23/2012 5:59:22 PM
Dibenz(a,h)anthracene	ND	10		µg/L	1	3/23/2012 5:59:22 PM
Dibenzofuran	ND	10		µg/L	1	3/23/2012 5:59:22 PM
1,2-Dichlorobenzene	ND	10		µg/L	1	3/23/2012 5:59:22 PM

Qualifiers: *X Value exceeds Maximum Contaminant Level.
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 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 RL Reporting Detection Limit

Analytical Report

Lab Order 1203798

Date Reported: 4/18/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: NAPIS Eff

Project: 1st QTR 2012 Groundwater Sampling

Collection Date: 3/21/2012 7:50:00 AM

Lab ID: 1203798-002

Matrix: AQUEOUS

Received Date: 3/21/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
1,3-Dichlorobenzene	ND	10		µg/L	1	3/23/2012 5:59:22 PM
1,4-Dichlorobenzene	ND	10		µg/L	1	3/23/2012 5:59:22 PM
3,3'-Dichlorobenzidine	ND	10		µg/L	1	3/23/2012 5:59:22 PM
Diethyl phthalate	ND	10		µg/L	1	3/23/2012 5:59:22 PM
Dimethyl phthalate	ND	10		µg/L	1	3/23/2012 5:59:22 PM
2,4-Dichlorophenol	ND	20		µg/L	1	3/23/2012 5:59:22 PM
2,4-Dimethylphenol	330	100		µg/L	10	3/23/2012 8:29:38 PM
4,6-Dinitro-2-methylphenol	ND	20		µg/L	1	3/23/2012 5:59:22 PM
2,4-Dinitrophenol	ND	20		µg/L	1	3/23/2012 5:59:22 PM
2,4-Dinitrotoluene	ND	10		µg/L	1	3/23/2012 5:59:22 PM
2,6-Dinitrotoluene	ND	10		µg/L	1	3/23/2012 5:59:22 PM
Fluoranthene	ND	10		µg/L	1	3/23/2012 5:59:22 PM
Fluorene	ND	10		µg/L	1	3/23/2012 5:59:22 PM
Hexachlorobenzene	ND	10		µg/L	1	3/23/2012 5:59:22 PM
Hexachlorobutadiene	ND	10		µg/L	1	3/23/2012 5:59:22 PM
Hexachlorocyclopentadiene	ND	10		µg/L	1	3/23/2012 5:59:22 PM
Hexachloroethane	ND	10		µg/L	1	3/23/2012 5:59:22 PM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	3/23/2012 5:59:22 PM
Isophorone	ND	10		µg/L	1	3/23/2012 5:59:22 PM
1-Methylnaphthalene	73	10		µg/L	1	3/23/2012 5:59:22 PM
2-Methylnaphthalene	110	10		µg/L	1	3/23/2012 5:59:22 PM
2-Methylphenol	2,200	100		µg/L	10	3/23/2012 8:29:38 PM
3+4-Methylphenol	4,000	1,000		µg/L	100	3/25/2012 2:02:10 PM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	3/23/2012 5:59:22 PM
N-Nitrosodimethylamine	ND	10		µg/L	1	3/23/2012 5:59:22 PM
N-Nitrosodiphenylamine	ND	10		µg/L	1	3/23/2012 5:59:22 PM
Naphthalene	170	10		µg/L	1	3/23/2012 5:59:22 PM
2-Nitroaniline	ND	10		µg/L	1	3/23/2012 5:59:22 PM
3-Nitroaniline	ND	10		µg/L	1	3/23/2012 5:59:22 PM
4-Nitroaniline	ND	20		µg/L	1	3/23/2012 5:59:22 PM
Nitrobenzene	ND	10		µg/L	1	3/23/2012 5:59:22 PM
2-Nitrophenol	ND	10		µg/L	1	3/23/2012 5:59:22 PM
4-Nitrophenol	ND	10		µg/L	1	3/23/2012 5:59:22 PM
Pentachlorophenol	ND	20		µg/L	1	3/23/2012 5:59:22 PM
Phenanthrene	ND	10		µg/L	1	3/23/2012 5:59:22 PM
Phenol	8,600	1,000		µg/L	100	3/25/2012 2:02:10 PM
Pyrene	ND	10		µg/L	1	3/23/2012 5:59:22 PM
Pyridine	ND	10		µg/L	1	3/23/2012 5:59:22 PM
1,2,4-Trichlorobenzene	ND	10		µg/L	1	3/23/2012 5:59:22 PM
2,4,5-Trichlorophenol	ND	10		µg/L	1	3/23/2012 5:59:22 PM
2,4,6-Trichlorophenol	ND	10		µg/L	1	3/23/2012 5:59:22 PM
Surr: 2,4,6-Tribromophenol	70.2	18.1-138		%REC	1	3/23/2012 5:59:22 PM

Qualifiers: *X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.**Analytical Report**

Lab Order 1203798

Date Reported: 4/18/2012

CLIENT: Western Refining Southwest, Gallup**Client Sample ID:** NAPIS Eff**Project:** 1st QTR 2012 Groundwater Sampling**Collection Date:** 3/21/2012 7:50:00 AM**Lab ID:** 1203798-002**Matrix:** AQUEOUS**Received Date:** 3/21/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Surr: 2-Fluorobiphenyl	55.3	25.9-101		%REC	1	3/23/2012 5:59:22 PM
Surr: 2-Fluorophenol	17.6	12.5-93.2		%REC	1	3/23/2012 5:59:22 PM
Surr: 4-Terphenyl-d14	74.2	29.5-112		%REC	1	3/23/2012 5:59:22 PM
Surr: Nitrobenzene-d5	78.7	20.5-120		%REC	1	3/23/2012 5:59:22 PM
Surr: Phenol-d5	18.0	11.5-73.2		%REC	1	3/23/2012 5:59:22 PM
EPA METHOD 8260B: VOLATILES						Analyst: MMS
Benzene	11,000	1,000		µg/L	1000	3/27/2012 2:07:14 AM
Toluene	20,000	1,000		µg/L	1000	3/27/2012 2:07:14 AM
Ethylbenzene	1,300	100		µg/L	100	3/27/2012 2:36:32 AM
Methyl tert-butyl ether (MTBE)	ND	100		µg/L	100	3/27/2012 2:36:32 AM
1,2,4-Trimethylbenzene	900	100		µg/L	100	3/27/2012 2:36:32 AM
1,3,5-Trimethylbenzene	270	100		µg/L	100	3/27/2012 2:36:32 AM
1,2-Dichloroethane (EDC)	ND	100		µg/L	100	3/27/2012 2:36:32 AM
1,2-Dibromoethane (EDB)	ND	100		µg/L	100	3/27/2012 2:36:32 AM
Naphthalene	320	200		µg/L	100	3/27/2012 2:36:32 AM
1-Methylnaphthalene	ND	400		µg/L	100	3/27/2012 2:36:32 AM
2-Methylnaphthalene	ND	400		µg/L	100	3/27/2012 2:36:32 AM
Acetone	14,000	1,000		µg/L	100	3/27/2012 2:36:32 AM
Bromobenzene	ND	100		µg/L	100	3/27/2012 2:36:32 AM
Bromodichloromethane	ND	100		µg/L	100	3/27/2012 2:36:32 AM
Bromoforn	ND	100		µg/L	100	3/27/2012 2:36:32 AM
Bromomethane	ND	300		µg/L	100	3/27/2012 2:36:32 AM
2-Butanone	2,400	1,000		µg/L	100	3/27/2012 2:36:32 AM
Carbon disulfide	ND	1,000		µg/L	100	3/27/2012 2:36:32 AM
Carbon Tetrachloride	ND	100		µg/L	100	3/27/2012 2:36:32 AM
Chlorobenzene	ND	100		µg/L	100	3/27/2012 2:36:32 AM
Chloroethane	ND	200		µg/L	100	3/27/2012 2:36:32 AM
Chloroforn	ND	100		µg/L	100	3/27/2012 2:36:32 AM
Chloromethane	ND	300		µg/L	100	3/27/2012 2:36:32 AM
2-Chlorotoluene	ND	100		µg/L	100	3/27/2012 2:36:32 AM
4-Chlorotoluene	ND	100		µg/L	100	3/27/2012 2:36:32 AM
cis-1,2-DCE	ND	100		µg/L	100	3/27/2012 2:36:32 AM
cis-1,3-Dichloropropene	ND	100		µg/L	100	3/27/2012 2:36:32 AM
1,2-Dibromo-3-chloropropane	ND	200		µg/L	100	3/27/2012 2:36:32 AM
Dibromochloromethane	ND	100		µg/L	100	3/27/2012 2:36:32 AM
Dibromomethane	ND	100		µg/L	100	3/27/2012 2:36:32 AM
1,2-Dichlorobenzene	ND	100		µg/L	100	3/27/2012 2:36:32 AM
1,3-Dichlorobenzene	ND	100		µg/L	100	3/27/2012 2:36:32 AM
1,4-Dichlorobenzene	ND	100		µg/L	100	3/27/2012 2:36:32 AM
Dichlorodifluoromethane	ND	100		µg/L	100	3/27/2012 2:36:32 AM
1,1-Dichloroethane	ND	100		µg/L	100	3/27/2012 2:36:32 AM

Qualifiers: */X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

Analytical Report

Lab Order 1203798

Date Reported: 4/18/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: NAPIS Eff

Project: 1st QTR 2012 Groundwater Sampling

Collection Date: 3/21/2012 7:50:00 AM

Lab ID: 1203798-002

Matrix: AQUEOUS

Received Date: 3/21/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: MMS
1,1-Dichloroethene	ND	100		µg/L	100	3/27/2012 2:36:32 AM
1,2-Dichloropropane	ND	100		µg/L	100	3/27/2012 2:36:32 AM
1,3-Dichloropropane	ND	100		µg/L	100	3/27/2012 2:36:32 AM
2,2-Dichloropropane	ND	200		µg/L	100	3/27/2012 2:36:32 AM
1,1-Dichloropropene	ND	100		µg/L	100	3/27/2012 2:36:32 AM
Hexachlorobutadiene	ND	100		µg/L	100	3/27/2012 2:36:32 AM
2-Hexanone	ND	1,000		µg/L	100	3/27/2012 2:36:32 AM
Isopropylbenzene	ND	100		µg/L	100	3/27/2012 2:36:32 AM
4-Isopropyltoluene	ND	100		µg/L	100	3/27/2012 2:36:32 AM
4-Methyl-2-pentanone	ND	1,000		µg/L	100	3/27/2012 2:36:32 AM
Methylene Chloride	ND	300		µg/L	100	3/27/2012 2:36:32 AM
n-Butylbenzene	ND	100		µg/L	100	3/27/2012 2:36:32 AM
n-Propylbenzene	130	100		µg/L	100	3/27/2012 2:36:32 AM
sec-Butylbenzene	ND	100		µg/L	100	3/27/2012 2:36:32 AM
Styrene	ND	100		µg/L	100	3/27/2012 2:36:32 AM
tert-Butylbenzene	ND	100		µg/L	100	3/27/2012 2:36:32 AM
1,1,1,2-Tetrachloroethane	ND	100		µg/L	100	3/27/2012 2:36:32 AM
1,1,2,2-Tetrachloroethane	ND	200		µg/L	100	3/27/2012 2:36:32 AM
Tetrachloroethene (PCE)	ND	100		µg/L	100	3/27/2012 2:36:32 AM
trans-1,2-DCE	ND	100		µg/L	100	3/27/2012 2:36:32 AM
trans-1,3-Dichloropropene	ND	100		µg/L	100	3/27/2012 2:36:32 AM
1,2,3-Trichlorobenzene	ND	100		µg/L	100	3/27/2012 2:36:32 AM
1,2,4-Trichlorobenzene	ND	100		µg/L	100	3/27/2012 2:36:32 AM
1,1,1-Trichloroethane	ND	100		µg/L	100	3/27/2012 2:36:32 AM
1,1,2-Trichloroethane	ND	100		µg/L	100	3/27/2012 2:36:32 AM
Trichloroethene (TCE)	ND	100		µg/L	100	3/27/2012 2:36:32 AM
Trichlorofluoromethane	ND	100		µg/L	100	3/27/2012 2:36:32 AM
1,2,3-Trichloropropane	ND	200		µg/L	100	3/27/2012 2:36:32 AM
Vinyl chloride	ND	100		µg/L	100	3/27/2012 2:36:32 AM
Xylenes, Total	7,800	150		µg/L	100	3/27/2012 2:36:32 AM
Surr: 1,2-Dichloroethane-d4	102	70-130		%REC	100	3/27/2012 2:36:32 AM
Surr: 4-Bromofluorobenzene	106	70-130		%REC	100	3/27/2012 2:36:32 AM
Surr: Dibromofluoromethane	112	69.8-130		%REC	100	3/27/2012 2:36:32 AM
Surr: Toluene-d8	101	70-130		%REC	100	3/27/2012 2:36:32 AM
EPA 120.1: SPECIFIC CONDUCTANCE						Analyst: JLF
Conductivity	5,100	0.010		µmhos/cm	1	3/27/2012 10:05:14 AM
SM4500-H+B: PH						Analyst: JLF
pH	8.90	1.68	*H	pH units	1	3/23/2012 2:32:58 PM

Qualifiers: *X Value exceeds Maximum Contaminant Level.
 E Value above quantitation range
 J Analyte detected below quantitation limits
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.**Analytical Report**

Lab Order 1203798

Date Reported: 4/18/2012

CLIENT: Western Refining Southwest, Gallup**Client Sample ID:** AL-2 to EP-1**Project:** 1st QTR 2012 Groundwater Sampling**Collection Date:** 3/20/2012 2:10:00 PM**Lab ID:** 1203798-003**Matrix:** AQUEOUS**Received Date:** 3/21/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: JMP
Diesel Range Organics (DRO)	15	1.0		mg/L	1	3/22/2012 2:26:28 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	3/22/2012 2:26:28 PM
Surr: DNOP	113	61.3-164		%REC	1	3/22/2012 2:26:28 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	0.50		mg/L	10	3/27/2012 4:18:17 PM
Surr: BFB	80.0	69.3-120		%REC	10	3/27/2012 4:18:17 PM
EPA METHOD 300.0: ANIONS						Analyst: BRM
Fluoride	57	5.0	*	mg/L	50	3/21/2012 9:09:01 PM
Chloride	2,200	100		mg/L	200	3/28/2012 6:14:42 AM
Nitrogen, Nitrite (As N)	1.2	1.0		mg/L	10	3/21/2012 8:56:37 PM
Bromide	5.0	1.0		mg/L	10	3/21/2012 8:56:37 PM
Nitrogen, Nitrate (As N)	ND	1.0		mg/L	10	3/21/2012 8:56:37 PM
Phosphorus, Orthophosphate (As P)	ND	5.0		mg/L	10	3/21/2012 8:56:37 PM
Sulfate	780	25		mg/L	50	3/21/2012 9:09:01 PM
EPA METHOD 200.7: DISSOLVED METALS						Analyst: RAG
Barium	0.053	0.0020		mg/L	1	4/2/2012 7:31:03 PM
Cadmium	ND	0.0020		mg/L	1	4/2/2012 7:31:03 PM
Calcium	130	20		mg/L	20	4/2/2012 7:33:29 PM
Chromium	ND	0.0060		mg/L	1	4/3/2012 5:37:57 PM
Copper	ND	0.0060		mg/L	1	4/2/2012 7:31:03 PM
Iron	2.8	0.40	*	mg/L	20	4/2/2012 7:33:29 PM
Lead	0.0051	0.0050		mg/L	1	4/3/2012 5:37:57 PM
Magnesium	44	1.0		mg/L	1	4/2/2012 7:31:03 PM
Manganese	0.28	0.0020	*	mg/L	1	4/2/2012 7:31:03 PM
Potassium	150	20		mg/L	20	4/2/2012 7:33:29 PM
Silver	ND	0.0050		mg/L	1	4/6/2012 7:21:21 AM
Sodium	1,500	20		mg/L	20	4/2/2012 7:33:29 PM
Zinc	0.088	0.010		mg/L	1	4/3/2012 5:37:57 PM
EPA METHOD 200.7: TOTAL METALS						Analyst: RAG
Barium	0.29	0.0020		mg/L	1	3/26/2012 4:01:30 PM
Cadmium	ND	0.0020		mg/L	1	3/26/2012 4:01:30 PM
Chromium	0.021	0.0060		mg/L	1	3/26/2012 4:01:30 PM
Copper	0.026	0.0060		mg/L	1	3/26/2012 4:01:30 PM
Iron	12	0.40	*	mg/L	20	3/28/2012 2:55:31 PM
Lead	ND	0.0050		mg/L	1	3/26/2012 4:01:30 PM
Manganese	0.30	0.0020	*	mg/L	1	3/26/2012 4:01:30 PM
Silver	ND	0.0050		mg/L	1	3/26/2012 4:01:30 PM
Zinc	0.35	0.010		mg/L	1	3/26/2012 4:01:30 PM
EPA 200.8: DISSOLVED METALS						Analyst: SNV

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RL Reporting Detection Limit

Analytical Report

Lab Order 1203798

Date Reported: 4/18/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: AL-2 to EP-1

Project: 1st QTR 2012 Groundwater Sampling

Collection Date: 3/20/2012 2:10:00 PM

Lab ID: 1203798-003

Matrix: AQUEOUS

Received Date: 3/21/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA 200.8: DISSOLVED METALS						Analyst: SNV
Arsenic	0.013	0.0020	*	mg/L	2	4/12/2012 6:48:47 PM
Selenium	0.022	0.0020		mg/L	2	4/13/2012 2:52:12 PM
Uranium	0.0026	0.0020		mg/L	2	4/16/2012 3:20:27 PM
200.8 ICPMS METALS:TOTAL						Analyst: SNV
Arsenic	0.020	0.0025	*	mg/L	2.5	4/4/2012 5:09:53 PM
Selenium	0.021	0.0025		mg/L	2.5	4/4/2012 5:09:53 PM
Uranium	0.0049	0.0025		mg/L	2.5	4/4/2012 5:09:53 PM
EPA METHOD 245.1: MERCURY						Analyst: JLF
Mercury	0.0046	0.00020	*	mg/L	1	3/23/2012 4:01:01 PM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	50		µg/L	1	3/23/2012 6:29:29 PM
Acenaphthylene	ND	50		µg/L	1	3/23/2012 6:29:29 PM
Aniline	380	50		µg/L	1	3/23/2012 6:29:29 PM
Anthracene	ND	50		µg/L	1	3/23/2012 6:29:29 PM
Azobenzene	ND	50		µg/L	1	3/23/2012 6:29:29 PM
Benz(a)anthracene	ND	50		µg/L	1	3/23/2012 6:29:29 PM
Benzo(a)pyrene	ND	50		µg/L	1	3/23/2012 6:29:29 PM
Benzo(b)fluoranthene	ND	50		µg/L	1	3/23/2012 6:29:29 PM
Benzo(g,h,i)perylene	ND	50		µg/L	1	3/23/2012 6:29:29 PM
Benzo(k)fluoranthene	ND	50		µg/L	1	3/23/2012 6:29:29 PM
Benzoic acid	ND	100		µg/L	1	3/23/2012 6:29:29 PM
Benzyl alcohol	ND	50		µg/L	1	3/23/2012 6:29:29 PM
Bis(2-chloroethoxy)methane	ND	50		µg/L	1	3/23/2012 6:29:29 PM
Bis(2-chloroethyl)ether	ND	50		µg/L	1	3/23/2012 6:29:29 PM
Bis(2-chloroisopropyl)ether	ND	50		µg/L	1	3/23/2012 6:29:29 PM
Bis(2-ethylhexyl)phthalate	ND	50		µg/L	1	3/23/2012 6:29:29 PM
4-Bromophenyl phenyl ether	ND	50		µg/L	1	3/23/2012 6:29:29 PM
Butyl benzyl phthalate	ND	50		µg/L	1	3/23/2012 6:29:29 PM
Carbazole	ND	50		µg/L	1	3/23/2012 6:29:29 PM
4-Chloro-3-methylphenol	ND	50		µg/L	1	3/23/2012 6:29:29 PM
4-Chloroaniline	ND	50		µg/L	1	3/23/2012 6:29:29 PM
2-Chloronaphthalene	ND	50		µg/L	1	3/23/2012 6:29:29 PM
2-Chlorophenol	ND	50		µg/L	1	3/23/2012 6:29:29 PM
4-Chlorophenyl phenyl ether	ND	50		µg/L	1	3/23/2012 6:29:29 PM
Chrysene	ND	50		µg/L	1	3/23/2012 6:29:29 PM
Di-n-butyl phthalate	ND	50		µg/L	1	3/23/2012 6:29:29 PM
Di-n-octyl phthalate	ND	50		µg/L	1	3/23/2012 6:29:29 PM
Dibenz(a,h)anthracene	ND	50		µg/L	1	3/23/2012 6:29:29 PM
Dibenzofuran	ND	50		µg/L	1	3/23/2012 6:29:29 PM
1,2-Dichlorobenzene	ND	50		µg/L	1	3/23/2012 6:29:29 PM

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Lab Order 1203798

Date Reported: 4/18/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: AL-2 to EP-1

Project: 1st QTR 2012 Groundwater Sampling

Collection Date: 3/20/2012 2:10:00 PM

Lab ID: 1203798-003

Matrix: AQUEOUS

Received Date: 3/21/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
1,3-Dichlorobenzene	ND	50		µg/L	1	3/23/2012 6:29:29 PM
1,4-Dichlorobenzene	ND	50		µg/L	1	3/23/2012 6:29:29 PM
3,3'-Dichlorobenzidine	ND	50		µg/L	1	3/23/2012 6:29:29 PM
Diethyl phthalate	ND	50		µg/L	1	3/23/2012 6:29:29 PM
Dimethyl phthalate	ND	50		µg/L	1	3/23/2012 6:29:29 PM
2,4-Dichlorophenol	ND	100		µg/L	1	3/23/2012 6:29:29 PM
2,4-Dimethylphenol	180	50		µg/L	1	3/23/2012 6:29:29 PM
4,6-Dinitro-2-methylphenol	ND	100		µg/L	1	3/23/2012 6:29:29 PM
2,4-Dinitrophenol	ND	100		µg/L	1	3/23/2012 6:29:29 PM
2,4-Dinitrotoluene	ND	50		µg/L	1	3/23/2012 6:29:29 PM
2,6-Dinitrotoluene	ND	50		µg/L	1	3/23/2012 6:29:29 PM
Fluoranthene	ND	50		µg/L	1	3/23/2012 6:29:29 PM
Fluorene	ND	50		µg/L	1	3/23/2012 6:29:29 PM
Hexachlorobenzene	ND	50		µg/L	1	3/23/2012 6:29:29 PM
Hexachlorobutadiene	ND	50		µg/L	1	3/23/2012 6:29:29 PM
Hexachlorocyclopentadiene	ND	50		µg/L	1	3/23/2012 6:29:29 PM
Hexachloroethane	ND	50		µg/L	1	3/23/2012 6:29:29 PM
Indeno(1,2,3-cd)pyrene	ND	50		µg/L	1	3/23/2012 6:29:29 PM
Isophorone	ND	50		µg/L	1	3/23/2012 6:29:29 PM
1-Methylnaphthalene	ND	50		µg/L	1	3/23/2012 6:29:29 PM
2-Methylnaphthalene	ND	50		µg/L	1	3/23/2012 6:29:29 PM
2-Methylphenol	1,400	500		µg/L	10	3/25/2012 1:32:54 PM
3+4-Methylphenol	2,100	500		µg/L	10	3/25/2012 1:32:54 PM
N-Nitrosodi-n-propylamine	ND	50		µg/L	1	3/23/2012 6:29:29 PM
N-Nitrosodimethylamine	ND	50		µg/L	1	3/23/2012 6:29:29 PM
N-Nitrosodiphenylamine	ND	50		µg/L	1	3/23/2012 6:29:29 PM
Naphthalene	ND	50		µg/L	1	3/23/2012 6:29:29 PM
2-Nitroaniline	ND	50		µg/L	1	3/23/2012 6:29:29 PM
3-Nitroaniline	ND	50		µg/L	1	3/23/2012 6:29:29 PM
4-Nitroaniline	ND	100		µg/L	1	3/23/2012 6:29:29 PM
Nitrobenzene	ND	50		µg/L	1	3/23/2012 6:29:29 PM
2-Nitrophenol	ND	50		µg/L	1	3/23/2012 6:29:29 PM
4-Nitrophenol	ND	50		µg/L	1	3/23/2012 6:29:29 PM
Pentachlorophenol	ND	100		µg/L	1	3/23/2012 6:29:29 PM
Phenanthrene	ND	50		µg/L	1	3/23/2012 6:29:29 PM
Phenol	5,400	500		µg/L	10	3/25/2012 1:32:54 PM
Pyrene	ND	50		µg/L	1	3/23/2012 6:29:29 PM
Pyridine	ND	50		µg/L	1	3/23/2012 6:29:29 PM
1,2,4-Trichlorobenzene	ND	50		µg/L	1	3/23/2012 6:29:29 PM
2,4,5-Trichlorophenol	ND	50		µg/L	1	3/23/2012 6:29:29 PM
2,4,6-Trichlorophenol	ND	50		µg/L	1	3/23/2012 6:29:29 PM
Surr: 2,4,6-Tribromophenol	98.3	18.1-138		%REC	1	3/23/2012 6:29:29 PM

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Hall Environmental Analysis Laboratory, Inc.

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Project: 1st QTR 2012 Groundwater Sampling

Collection Date: 3/20/2012 2:10:00 PM

Lab ID: 1203798-003

Matrix: AQUEOUS

Received Date: 3/21/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Surr: 2-Fluorobiphenyl	90.5	25.9-101		%REC	1	3/23/2012 6:29:29 PM
Surr: 2-Fluorophenol	75.4	12.5-93.2		%REC	1	3/23/2012 6:29:29 PM
Surr: 4-Terphenyl-d14	88.8	29.5-112		%REC	1	3/23/2012 6:29:29 PM
Surr: Nitrobenzene-d5	91.6	20.5-120		%REC	1	3/23/2012 6:29:29 PM
Surr: Phenol-d5	53.6	11.5-73.2		%REC	1	3/23/2012 6:29:29 PM
EPA METHOD 8260B: VOLATILES						Analyst: MMS
Benzene	ND	10		µg/L	10	3/27/2012 3:35:06 AM
Toluene	ND	10		µg/L	10	3/27/2012 3:35:06 AM
Ethylbenzene	ND	10		µg/L	10	3/27/2012 3:35:06 AM
Methyl tert-butyl ether (MTBE)	ND	10		µg/L	10	3/27/2012 3:35:06 AM
1,2,4-Trimethylbenzene	ND	10		µg/L	10	3/27/2012 3:35:06 AM
1,3,5-Trimethylbenzene	ND	10		µg/L	10	3/27/2012 3:35:06 AM
1,2-Dichloroethane (EDC)	ND	10		µg/L	10	3/27/2012 3:35:06 AM
1,2-Dibromoethane (EDB)	ND	10		µg/L	10	3/27/2012 3:35:06 AM
Naphthalene	ND	20		µg/L	10	3/27/2012 3:35:06 AM
1-Methylnaphthalene	ND	40		µg/L	10	3/27/2012 3:35:06 AM
2-Methylnaphthalene	ND	40		µg/L	10	3/27/2012 3:35:06 AM
Acetone	3,100	500		µg/L	50	3/28/2012 7:58:34 AM
Bromobenzene	ND	10		µg/L	10	3/27/2012 3:35:06 AM
Bromodichloromethane	ND	10		µg/L	10	3/27/2012 3:35:06 AM
Bromoform	ND	10		µg/L	10	3/27/2012 3:35:06 AM
Bromomethane	ND	30		µg/L	10	3/27/2012 3:35:06 AM
2-Butanone	220	100		µg/L	10	3/27/2012 3:35:06 AM
Carbon disulfide	ND	100		µg/L	10	3/27/2012 3:35:06 AM
Carbon Tetrachloride	ND	10		µg/L	10	3/27/2012 3:35:06 AM
Chlorobenzene	ND	10		µg/L	10	3/27/2012 3:35:06 AM
Chloroethane	ND	20		µg/L	10	3/27/2012 3:35:06 AM
Chloroform	ND	10		µg/L	10	3/27/2012 3:35:06 AM
Chloromethane	ND	30		µg/L	10	3/27/2012 3:35:06 AM
2-Chlorotoluene	ND	10		µg/L	10	3/27/2012 3:35:06 AM
4-Chlorotoluene	ND	10		µg/L	10	3/27/2012 3:35:06 AM
cis-1,2-DCE	ND	10		µg/L	10	3/27/2012 3:35:06 AM
cis-1,3-Dichloropropene	ND	10		µg/L	10	3/27/2012 3:35:06 AM
1,2-Dibromo-3-chloropropane	ND	20		µg/L	10	3/27/2012 3:35:06 AM
Dibromochloromethane	ND	10		µg/L	10	3/27/2012 3:35:06 AM
Dibromomethane	ND	10		µg/L	10	3/27/2012 3:35:06 AM
1,2-Dichlorobenzene	ND	10		µg/L	10	3/27/2012 3:35:06 AM
1,3-Dichlorobenzene	ND	10		µg/L	10	3/27/2012 3:35:06 AM
1,4-Dichlorobenzene	ND	10		µg/L	10	3/27/2012 3:35:06 AM
Dichlorodifluoromethane	ND	10		µg/L	10	3/27/2012 3:35:06 AM
1,1-Dichloroethane	ND	10		µg/L	10	3/27/2012 3:35:06 AM

Qualifiers: *X Value exceeds Maximum Contaminant Level.
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Analytical Report

Lab Order 1203798

Date Reported: 4/18/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: AL-2 to EP-1

Project: 1st QTR 2012 Groundwater Sampling

Collection Date: 3/20/2012 2:10:00 PM

Lab ID: 1203798-003

Matrix: AQUEOUS

Received Date: 3/21/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: MMS
1,1-Dichloroethene	ND	10		µg/L	10	3/27/2012 3:35:06 AM
1,2-Dichloropropane	ND	10		µg/L	10	3/27/2012 3:35:06 AM
1,3-Dichloropropane	ND	10		µg/L	10	3/27/2012 3:35:06 AM
2,2-Dichloropropane	ND	20		µg/L	10	3/27/2012 3:35:06 AM
1,1-Dichloropropene	ND	10		µg/L	10	3/27/2012 3:35:06 AM
Hexachlorobutadiene	ND	10		µg/L	10	3/27/2012 3:35:06 AM
2-Hexanone	ND	100		µg/L	10	3/27/2012 3:35:06 AM
Isopropylbenzene	ND	10		µg/L	10	3/27/2012 3:35:06 AM
4-Isopropyltoluene	ND	10		µg/L	10	3/27/2012 3:35:06 AM
4-Methyl-2-pentanone	ND	100		µg/L	10	3/27/2012 3:35:06 AM
Methylene Chloride	ND	30		µg/L	10	3/27/2012 3:35:06 AM
n-Butylbenzene	ND	10		µg/L	10	3/27/2012 3:35:06 AM
n-Propylbenzene	ND	10		µg/L	10	3/27/2012 3:35:06 AM
sec-Butylbenzene	ND	10		µg/L	10	3/27/2012 3:35:06 AM
Styrene	ND	10		µg/L	10	3/27/2012 3:35:06 AM
tert-Butylbenzene	ND	10		µg/L	10	3/27/2012 3:35:06 AM
1,1,1,2-Tetrachloroethane	ND	10		µg/L	10	3/27/2012 3:35:06 AM
1,1,2,2-Tetrachloroethane	ND	20		µg/L	10	3/27/2012 3:35:06 AM
Tetrachloroethene (PCE)	ND	10		µg/L	10	3/27/2012 3:35:06 AM
trans-1,2-DCE	ND	10		µg/L	10	3/27/2012 3:35:06 AM
trans-1,3-Dichloropropene	ND	10		µg/L	10	3/27/2012 3:35:06 AM
1,2,3-Trichlorobenzene	ND	10		µg/L	10	3/27/2012 3:35:06 AM
1,2,4-Trichlorobenzene	ND	10		µg/L	10	3/27/2012 3:35:06 AM
1,1,1-Trichloroethane	ND	10		µg/L	10	3/27/2012 3:35:06 AM
1,1,2-Trichloroethane	ND	10		µg/L	10	3/27/2012 3:35:06 AM
Trichloroethene (TCE)	ND	10		µg/L	10	3/27/2012 3:35:06 AM
Trichlorofluoromethane	ND	10		µg/L	10	3/27/2012 3:35:06 AM
1,2,3-Trichloropropane	ND	20		µg/L	10	3/27/2012 3:35:06 AM
Vinyl chloride	ND	10		µg/L	10	3/27/2012 3:35:06 AM
Xylenes, Total	ND	15		µg/L	10	3/27/2012 3:35:06 AM
Surr: 1,2-Dichloroethane-d4	104	70-130		%REC	10	3/27/2012 3:35:06 AM
Surr: 4-Bromofluorobenzene	103	70-130		%REC	10	3/27/2012 3:35:06 AM
Surr: Dibromofluoromethane	121	69.8-130		%REC	10	3/27/2012 3:35:06 AM
Surr: Toluene-d8	94.6	70-130		%REC	10	3/27/2012 3:35:06 AM

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 RL Reporting Detection Limit



12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Anne Thorne
Hall Environmental Analysis Laborat
4901 Hawkins NE
Albuquerque, NM 87109

March 27, 2012

Date Received : March 23, 2012
Description :
Sample ID : 1203798-001F PILOT EFF
Collected By :
Collection Date : 03/20/12 13:20

ESC Sample # : L566604-01

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
COD	350	10.	mg/l	410.4	03/27/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note:

The reported analytical results relate only to the sample submitted.

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

Reported: 03/27/12 12:19 Printed: 03/27/12 12:19



YOUR LAB OF CHOICE

Hall Environmental Analysis Laboratory
Anne Thorne
4901 Hawkins NE

Albuquerque, NM 87109

Quality Assurance Report
Level II

L566604

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

March 27, 2012

		Laboratory Blank							
Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed			
COD	< 10	mg/l			WG584812	03/27/12 10:16			
Analyte	Units	Result	Duplicate	RPD	Limit	Ref Samp	Batch		
COD	mg/l	26.0	25.0	3.54	5	L566677-02	WG584812		
COD	mg/l	25.0	22.0	12.4*	5	L566516-01	WG584812		
Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch			
		Known Val	Result						
COD	mg/l	230	244.	106.	90-110	WG584812			
Analyte	Units	Result	Ref	%Rec	Limit	RPD	Limit	Batch	
COD	mg/l	236.	244.	103.	90-110	3.33	5	WG584812	
Analyte	Units	MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch	
COD	mg/l	412.	0	400	103.	90-110	L566533-01	WG584812	
Analyte	Units	MSD	Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
COD	mg/l	416.	412.	104.	90-110	0.966	5	L566533-01	WG584812

Batch number / Run number / Sample number cross reference

WG584812: R2089933: L566604-01

* * Calculations are performed prior to rounding of reported values.

* Performance of this Analyte is outside of established criteria.

For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203798

18-Apr-12

Client: Western Refining Southwest, Gallup
Project: 1st QTR 2012 Groundwater Sampling

Sample ID	MB	SampType:	MBLK	TestCode:	EPA Method 200.7: Dissolved Metals					
Client ID:	PBW	Batch ID:	R1868	RunNo:	1868					
Prep Date:		Analysis Date:	4/2/2012	SeqNo:	52370	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	ND	0.0020								
Cadmium	ND	0.0020								
Calcium	ND	1.0								
Copper	ND	0.0060								
Iron	ND	0.020								
Magnesium	ND	1.0								
Manganese	ND	0.0020								
Potassium	ND	1.0								
Sodium	ND	1.0								

Sample ID	LCS	SampType:	LCS	TestCode:	EPA Method 200.7: Dissolved Metals					
Client ID:	LCSW	Batch ID:	R1868	RunNo:	1868					
Prep Date:		Analysis Date:	4/2/2012	SeqNo:	52371	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.52	0.0020	0.5000	0	104	85	115			
Cadmium	0.52	0.0020	0.5000	0	104	85	115			
Calcium	48	1.0	50.00	0	96.3	85	115			
Copper	0.52	0.0060	0.5000	0	104	85	115			
Iron	0.51	0.020	0.5000	0	102	85	115			
Magnesium	49	1.0	50.00	0	97.1	85	115			
Manganese	0.51	0.0020	0.5000	0	102	85	115			
Potassium	47	1.0	50.00	0	93.3	85	115			
Sodium	48	1.0	50.00	0	95.1	85	115			

Sample ID	MB	SampType:	MBLK	TestCode:	EPA Method 200.7: Dissolved Metals					
Client ID:	PBW	Batch ID:	R1888	RunNo:	1888					
Prep Date:		Analysis Date:	4/3/2012	SeqNo:	52722	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chromium	ND	0.0060								
Lead	ND	0.0050								
Zinc	ND	0.010								

Sample ID	LCS	SampType:	LCS	TestCode:	EPA Method 200.7: Dissolved Metals					
Client ID:	LCSW	Batch ID:	R1888	RunNo:	1888					
Prep Date:		Analysis Date:	4/3/2012	SeqNo:	52723	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chromium	0.49	0.0060	0.5000	0	97.7	85	115			
Lead	0.49	0.0050	0.5000	0	98.4	85	115			
Zinc	0.49	0.010	0.5000	0	97.9	85	115			

Qualifiers:

- | | | |
|--|----|--|
| Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND | Not Detected at the Reporting Limit |
| R RPD outside accepted recovery limits | RL | Reporting Detection Limit |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203798

18-Apr-12

Client: Western Refining Southwest, Gallup
Project: 1st QTR 2012 Groundwater Sampling

Sample ID MB	SampType: MBLK		TestCode: EPA Method 200.7: Dissolved Metals							
Client ID: PBW	Batch ID: R1956		RunNo: 1956							
Prep Date:	Analysis Date: 4/6/2012		SeqNo: 55272		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Silver	ND	0.0050								
Sodium	ND	1.0								

Sample ID LCS	SampType: LCS		TestCode: EPA Method 200.7: Dissolved Metals							
Client ID: LCSW	Batch ID: R1956		RunNo: 1956							
Prep Date:	Analysis Date: 4/6/2012		SeqNo: 55273		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Silver	0.10	0.0050	0.1000	0	101	85	115			
Sodium	52	1.0	50.00	0	104	85	115			

Sample ID 1203801-001BMS	SampType: MS		TestCode: EPA Method 200.7: Dissolved Metals							
Client ID: BatchQC	Batch ID: R1956		RunNo: 1956							
Prep Date:	Analysis Date: 4/6/2012		SeqNo: 55290		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Silver	0.072	0.0050	0.1000	0	71.5	70	130			

Sample ID 1203801-001BMSD	SampType: MSD		TestCode: EPA Method 200.7: Dissolved Metals							
Client ID: BatchQC	Batch ID: R1956		RunNo: 1956							
Prep Date:	Analysis Date: 4/6/2012		SeqNo: 55291		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Silver	0.053	0.0050	0.1000	0	52.7	70	130	30.4	20	SR

Qualifiers:

*X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203798

18-Apr-12

Client: Western Refining Southwest, Gallup
Project: 1st QTR 2012 Groundwater Sampling

Sample ID	MB-1230		SampType:	MBLK		TestCode:	EPA Method 200.7: Total Metals			
Client ID:	PBW		Batch ID:	1230		RunNo:	1702			
Prep Date:	3/26/2012		Analysis Date:	3/26/2012		SeqNo:	48039		Units: mg/L	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	ND	0.0020								
Cadmium	ND	0.0020								
Chromium	ND	0.0060								
Copper	ND	0.0060								
Iron	ND	0.020								
Lead	ND	0.0050								
Manganese	ND	0.0020								
Silver	ND	0.0050								
Zinc	ND	0.010								

Sample ID	LCS-1230		SampType:	LCS		TestCode:	EPA Method 200.7: Total Metals			
Client ID:	LCSW		Batch ID:	1230		RunNo:	1702			
Prep Date:	3/26/2012		Analysis Date:	3/26/2012		SeqNo:	48040		Units: mg/L	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.49	0.0020	0.5000	0	98.7	85	115			
Cadmium	0.51	0.0020	0.5000	0.0004200	101	85	115			
Chromium	0.49	0.0060	0.5000	0.0006400	98.8	85	115			
Copper	0.50	0.0060	0.5000	0.001800	99.1	85	115			
Iron	0.48	0.020	0.5000	0	96.3	85	115			
Lead	0.49	0.0050	0.5000	0	98.4	85	115			
Manganese	0.48	0.0020	0.5000	0	96.2	85	115			
Silver	0.10	0.0050	0.1000	0	102	85	115			
Zinc	0.49	0.010	0.5000	0	97.7	85	115			

Qualifiers:

Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
Value above quantitation range	H	Holding times for preparation or analysis exceeded
J Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R RPD outside accepted recovery limits	RL	Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203798

18-Apr-12

Client: Western Refining Southwest, Gallup
Project: 1st QTR 2012 Groundwater Sampling

Sample ID MB	SampType: MBLK		TestCode: EPA 200.8: Dissolved Metals							
Client ID: PBW	Batch ID: R2111		RunNo: 2111							
Prep Date:	Analysis Date: 4/12/2012		SeqNo: 58404		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.0010								
Uranium	ND	0.0010								

Sample ID LCS	SampType: LCS		TestCode: EPA 200.8: Dissolved Metals							
Client ID: LCSW	Batch ID: R2111		RunNo: 2111							
Prep Date:	Analysis Date: 4/12/2012		SeqNo: 58405		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.025	0.0010	0.02500	0	99.4	85	115			
Uranium	0.024	0.0010	0.02500	0	95.9	85	115			

Sample ID 1203798-001DMS	SampType: MS		TestCode: EPA 200.8: Dissolved Metals							
Client ID: Pilot Eff	Batch ID: R2111		RunNo: 2111							
Prep Date:	Analysis Date: 4/12/2012		SeqNo: 58409		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.028	0.0010	0.02500	0.003713	97.1	70	130			
Uranium	0.026	0.0010	0.02500	0.001260	97.5	70	130			

Sample ID 1203898-001EMS	SampType: MS		TestCode: EPA 200.8: Dissolved Metals							
Client ID: BatchQC	Batch ID: R2111		RunNo: 2111							
Prep Date:	Analysis Date: 4/12/2012		SeqNo: 58420		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.026	0.0010	0.02500	0.001858	97.3	70	130			

Sample ID MB	SampType: MBLK		TestCode: EPA 200.8: Dissolved Metals							
Client ID: PBW	Batch ID: R2139		RunNo: 2139							
Prep Date:	Analysis Date: 4/13/2012		SeqNo: 59445		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Selenium	ND	0.0010								

Sample ID LCS	SampType: LCS		TestCode: EPA 200.8: Dissolved Metals							
Client ID: LCSW	Batch ID: R2139		RunNo: 2139							
Prep Date:	Analysis Date: 4/13/2012		SeqNo: 59446		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Selenium	0.025	0.0010	0.02500	0	100	85	115			

Qualifiers:

*X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203798

18-Apr-12

Client: Western Refining Southwest, Gallup

Project: 1st QTR 2012 Groundwater Sampling

Sample ID	1203798-001DMS			SampType:	MS		TestCode:	EPA 200.8: Dissolved Metals			
Client ID:	Pilot Eff			Batch ID:	R2139		RunNo:	2139			
Prep Date:				Analysis Date:	4/13/2012		SeqNo:	59450		Units:	mg/L
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Selenium	0.028	0.0010	0.02500	0.005266	91.2	70	130				

Sample ID	MB	SampType:	MBLK	TestCode:	EPA 200.8: Dissolved Metals					
Client ID:	PBW	Batch ID:	R2166	RunNo:	2166					
Prep Date:		Analysis Date:	4/16/2012	SeqNo:	60402	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Uranium	ND	0.0010								

Sample ID	LCS	SampType:	LCS	TestCode:	EPA 200.8: Dissolved Metals					
Client ID:	LCSW	Batch ID:	R2166	RunNo:	2166					
Prep Date:		Analysis Date:	4/16/2012	SeqNo:	60403	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Uranium	0.023	0.0010	0.02500	0	92.2	85	115			

Qualifiers:

Value exceeds Maximum Contaminant Level.

Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203798

18-Apr-12

Client: Western Refining Southwest, Gallup

Project: 1st QTR 2012 Groundwater Sampling

Sample ID	MB-1230	SampType:	MBLK	TestCode:	200.8 ICPMS Metals:Total					
Client ID:	PBW	Batch ID:	1230	RunNo:	1930					
Prep Date:	3/26/2012	Analysis Date:	4/4/2012	SeqNo:	53748	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.0025								
Selenium	ND	0.0025								
Uranium	ND	0.0025								

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203798

18-Apr-12

Client: Western Refining Southwest, Gallup

Project: 1st QTR 2012 Groundwater Sampling

Sample ID	MB-1217	SampType:	MBLK	TestCode:	EPA Method 245.1: Mercury					
Client ID:	PBW	Batch ID:	1217	RunNo:	1649					
Prep Date:	3/23/2012	Analysis Date:	3/23/2012	SeqNo:	46664	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.00020								

Sample ID	LCS-1217	SampType:	LCS	TestCode:	EPA Method 245.1: Mercury					
Client ID:	LCSW	Batch ID:	1217	RunNo:	1649					
Prep Date:	3/23/2012	Analysis Date:	3/23/2012	SeqNo:	46665	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0050	0.00020	0.005000	0	101	80	120			

Sample ID	1203766-001EMS	SampType:	MS	TestCode:	EPA Method 245.1: Mercury					
Client ID:	BatchQC	Batch ID:	1217	RunNo:	1649					
Prep Date:	3/23/2012	Analysis Date:	3/23/2012	SeqNo:	46696	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0054	0.0010	0.005000	0	108	75	125			

Sample ID	1203766-001EMSD	SampType:	MSD	TestCode:	EPA Method 245.1: Mercury					
Client ID:	BatchQC	Batch ID:	1217	RunNo:	1649					
Prep Date:	3/23/2012	Analysis Date:	3/23/2012	SeqNo:	46697	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0055	0.0010	0.005000	0	111	75	125	2.60	20	

Sample ID	MB-1297	SampType:	MBLK	TestCode:	EPA Method 245.1: Mercury					
Client ID:	PBW	Batch ID:	1297	RunNo:	1786					
Prep Date:	3/29/2012	Analysis Date:	3/29/2012	SeqNo:	50512	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.00020								

Sample ID	LCS-1297	SampType:	LCS	TestCode:	EPA Method 245.1: Mercury					
Client ID:	LCSW	Batch ID:	1297	RunNo:	1786					
Prep Date:	3/29/2012	Analysis Date:	3/29/2012	SeqNo:	50513	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0049	0.00020	0.005000	0	97.6	80	120			

Sample ID	1203721-004AMS	SampType:	MS	TestCode:	EPA Method 245.1: Mercury					
Client ID:	BatchQC	Batch ID:	1297	RunNo:	1786					
Prep Date:	3/29/2012	Analysis Date:	3/29/2012	SeqNo:	50515	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0048	0.00020	0.005000	0	96.8	75	125			

Qualifiers:

*** Value exceeds Maximum Contaminant Level.

Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203798

18-Apr-12

Client: Western Refining Southwest, Gallup

Project: 1st QTR 2012 Groundwater Sampling

Sample ID	1203721-004AMSD			SampType:	MSD		TestCode:	EPA Method 245.1: Mercury			
Client ID:	BatchQC		Batch ID:		1297		RunNo:	1786			
Prep Date:	3/29/2012		Analysis Date:		3/29/2012		SeqNo:	50516		Units:	mg/L
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Mercury	0.0049	0.00020	0.005000	0	97.8	75	125	0.996	20		

Qualifiers:

* / X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203798

18-Apr-12

Client: Western Refining Southwest, Gallup

Project: 1st QTR 2012 Groundwater Sampling

Sample ID	MB	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBW	Batch ID:	R1603	RunNo:	1603					
Prep Date:		Analysis Date:	3/21/2012	SeqNo:	45120	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Fluoride	ND	0.10								
Chloride	ND	0.50								
Nitrogen, Nitrite (As N)	ND	0.10								
Bromide	ND	0.10								
Nitrogen, Nitrate (As N)	ND	0.10								
Phosphorus, Orthophosphate (As P)	ND	0.50								
Sulfate	ND	0.50								

Sample ID	LCS	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSW	Batch ID:	R1603	RunNo:	1603					
Prep Date:		Analysis Date:	3/21/2012	SeqNo:	45121	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Fluoride	0.51	0.10	0.5000	0	102	90	110			
Chloride	4.7	0.50	5.000	0	93.3	90	110			
Nitrogen, Nitrite (As N)	0.94	0.10	1.000	0	93.9	90	110			
Bromide	2.4	0.10	2.500	0	94.7	90	110			
Nitrogen, Nitrate (As N)	2.4	0.10	2.500	0	97.0	90	110			
Phosphorus, Orthophosphate (As P)	4.8	0.50	5.000	0	95.9	90	110			
Sulfate	9.7	0.50	10.00	0	97.0	90	110			

Sample ID	LCSD	SampType:	LCSD	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS02	Batch ID:	R1603	RunNo:	1603					
Prep Date:		Analysis Date:	3/21/2012	SeqNo:	45122	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Fluoride	0.52	0.10	0.5000	0	104	90	110	2.06	20	
Chloride	4.7	0.50	5.000	0	94.4	90	110	1.21	20	
Nitrogen, Nitrite (As N)	0.95	0.10	1.000	0	94.5	90	110	0.669	20	
Bromide	2.4	0.10	2.500	0	95.3	90	110	0.658	20	
Nitrogen, Nitrate (As N)	2.4	0.10	2.500	0	97.5	90	110	0.580	20	
Phosphorus, Orthophosphate (As P)	4.8	0.50	5.000	0	96.4	90	110	0.448	20	
Sulfate	9.7	0.50	10.00	0	97.4	90	110	0.462	20	

Sample ID	1203750-001FMS	SampType:	MS	TestCode:	EPA Method 300.0: Anions					
Client ID:	BatchQC	Batch ID:	R1603	RunNo:	1603					
Prep Date:		Analysis Date:	3/21/2012	SeqNo:	45124	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Fluoride	25	5.0	25.00	1.873	94.2	72.9	113			
Bromide	150	5.0	125.0	31.23	94.3	76	114			
Nitrogen, Nitrate (As N)	120	5.0	125.0	0	96.5	82.8	116			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203798

18-Apr-12

Client: Western Refining Southwest, Gallup
Project: 1st QTR 2012 Groundwater Sampling

Sample ID	1203750-001FMS	SampType:	MS	TestCode:	EPA Method 300.0: Anions					
Client ID:	BatchQC	Batch ID:	R1603	RunNo:	1603					
Prep Date:		Analysis Date:	3/21/2012	SeqNo:	45124	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Phosphorus, Orthophosphate (As P	230	25	250.0	0	92.7	79.3	108			

Sample ID	1203750-001FMSD			SampType:	MSD		TestCode:	EPA Method 300.0: Anions			
Client ID:	BatchQC		Batch ID:	R1603		RunNo:	1603				
Prep Date:			Analysis Date:	3/21/2012		SeqNo:	45125		Units:	mg/L	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Fluoride	26	5.0	25.00	1.873	94.9	72.9	113	0.763	20		
Bromide	150	5.0	125.0	31.23	94.8	76	114	0.457	20		
Nitrogen, Nitrate (As N)	120	5.0	125.0	0	97.0	82.8	116	0.495	20		
Phosphorus, Orthophosphate (As P	230	25	250.0	0	93.3	79.3	108	0.696	20		

Sample ID	1203795-001AMS		SampType:	MS		TestCode:	EPA Method 300.0: Anions				
Client ID:	BatchQC		Batch ID:	R1603		RunNo:	1603				
Prep Date:			Analysis Date:	3/21/2012		SeqNo:	45133		Units:	mg/L	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Fluoride	0.99	0.10	0.5000	0.5112	95.4	72.9	113				
Chloride	15	0.50	5.000	9.762	106	78	107				
Nitrogen, Nitrite (As N)	0.89	0.10	1.000	0	89.2	77.6	111				
Bromide	2.4	0.10	2.500	0	96.5	76	114				
Nitrogen, Nitrate (As N)	3.5	0.10	2.500	0.9770	101	82.8	116				
Phosphorus, Orthophosphate (As P	4.7	0.50	5.000	0	94.7	79.3	108				

Sample ID	1203795-001AMSD			SampType:	MSD		TestCode:	EPA Method 300.0: Anions			
Client ID:	BatchQC		Batch ID:	R1603		RunNo:	1603				
Prep Date:	Analysis Date:			3/21/2012		SeqNo:	45134		Units: mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Fluoride	0.99	0.10	0.5000	0.5112	96.1	72.9	113	0.353	20	S	
Chloride	15	0.50	5.000	9.762	107	78	107	0.325	20		
Nitrogen, Nitrite (As N)	0.90	0.10	1.000	0	89.7	77.6	111	0.590	20		
Bromide	2.4	0.10	2.500	0	96.7	76	114	0.146	20		
Nitrogen, Nitrate (As N)	3.5	0.10	2.500	0.9770	102	82.8	116	0.457	20		
Phosphorus, Orthophosphate (As P	4.8	0.50	5.000	0	95.6	79.3	108	0.913	20		

Sample ID	MB	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBW	Batch ID:	R1735	RunNo:	1735					
Prep Date:		Analysis Date:	3/27/2012	SeqNo:	48783	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.10								

Qualifiers:

*X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203798

18-Apr-12

Client: Western Refining Southwest, Gallup
Project: 1st QTR 2012 Groundwater Sampling

Sample ID	MB	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBW	Batch ID:	R1735	RunNo:	1735					
Prep Date:		Analysis Date:	3/27/2012	SeqNo:	48783	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								

Sample ID	LCS	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSW	Batch ID:	R1735	RunNo:	1735					
Prep Date:		Analysis Date:	3/27/2012	SeqNo:	48784	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.50	0.10	0.5000	0	99.6	90	110			
Chloride	4.7	0.50	5.000	0	93.1	90	110			

Sample ID	1203962-001CMS	SampType:	MS	TestCode:	EPA Method 300.0: Anions					
Client ID:	BatchQC	Batch ID:	R1735	RunNo:	1735					
Prep Date:		Analysis Date:	3/27/2012	SeqNo:	48802	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.69	0.10	0.5000	0.2249	92.2	72.9	113			

Sample ID	1203962-001CMSD	SampType:	MSD	TestCode:	EPA Method 300.0: Anions					
Client ID:	BatchQC	Batch ID:	R1735	RunNo:	1735					
Prep Date:		Analysis Date:	3/27/2012	SeqNo:	48803	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.69	0.10	0.5000	0.2249	92.7	72.9	113	0.395	20	

Sample ID	MB	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBW	Batch ID:	R1735	RunNo:	1735					
Prep Date:		Analysis Date:	3/27/2012	SeqNo:	48837	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.10								
Chloride	ND	0.50								

Sample ID	LCS	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSW	Batch ID:	R1735	RunNo:	1735					
Prep Date:		Analysis Date:	3/27/2012	SeqNo:	48838	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.52	0.10	0.5000	0	104	90	110			
Chloride	4.7	0.50	5.000	0	94.8	90	110			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203798

18-Apr-12

Client: Western Refining Southwest, Gallup
Project: 1st QTR 2012 Groundwater Sampling

Sample ID	1203975-001CMS	SampType:	MS	TestCode:	EPA Method 300.0: Anions					
Client ID:	BatchQC	Batch ID:	R1735	RunNo:	1735					
Prep Date:		Analysis Date:	3/28/2012	SeqNo:	48847	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.68	0.10	0.5000	0.1727	101	72.9	113			
Chloride	5.9	0.50	5.000	1.140	95.0	78	107			

Sample ID	1203975-001CMSD	SampType:	MSD	TestCode:	EPA Method 300.0: Anions					
Client ID:	BatchQC	Batch ID:	R1735	RunNo:	1735					
Prep Date:		Analysis Date:	3/28/2012	SeqNo:	48848	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.67	0.10	0.5000	0.1727	99.9	72.9	113	0.500	20	
Chloride	5.9	0.50	5.000	1.140	94.9	78	107	0.0636	20	

Sample ID	1203994-001AMS	SampType:	MS	TestCode:	EPA Method 300.0: Anions					
Client ID:	BatchQC	Batch ID:	R1735	RunNo:	1735					
Prep Date:		Analysis Date:	3/28/2012	SeqNo:	48856	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.76	0.10	0.5000	0.2686	98.8	72.9	113			
Chloride	20	0.50	5.000	14.51	106	78	107			

Sample ID	1203994-001AMSD	SampType:	MSD	TestCode:	EPA Method 300.0: Anions					
Client ID:	BatchQC	Batch ID:	R1735	RunNo:	1735					
Prep Date:		Analysis Date:	3/28/2012	SeqNo:	48857	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.77	0.10	0.5000	0.2686	100	72.9	113	1.00	20	
Chloride	20	0.50	5.000	14.51	109	78	107	0.898	20	S

Qualifiers:

*X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203798

18-Apr-12

Client: Western Refining Southwest, Gallup

Project: 1st QTR 2012 Groundwater Sampling

Sample ID	MB-1190		SampType:	MBLK		TestCode:	EPA Method 8015B: Diesel Range			
Client ID:	PBW		Batch ID:	1190		RunNo:	1609			
Prep Date:	3/22/2012		Analysis Date:	3/22/2012		SeqNo:	45452		Units: mg/L	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	1.0								
Motor Oil Range Organics (MRO)	ND	5.0								
Surr: DNOP	1.0		1.000		102	61.3	164			

Sample ID	LCS-1190		SampType:	LCS		TestCode:	EPA Method 8015B: Diesel Range			
Client ID:	LCSW		Batch ID:	1190		RunNo:	1609			
Prep Date:	3/22/2012		Analysis Date:	3/22/2012		SeqNo:	45460		Units: mg/L	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	4.9	1.0	5.000	0	97.9	74	157			
Surr: DNOP	0.50		0.5000		101	61.3	164			

Sample ID	LCSD-1190		SampType:	LCSD		TestCode:	EPA Method 8015B: Diesel Range			
Client ID:	LCSS02		Batch ID:	1190		RunNo:	1609			
Prep Date:	3/22/2012		Analysis Date:	3/22/2012		SeqNo:	45474		Units: mg/L	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	5.4	1.0	5.000	0	109	74	157	10.5	23	
r: DNOP	0.54		0.5000		108	61.3	164	0	0	

Qualifiers:

*~ Value exceeds Maximum Contaminant Level.
Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203798

18-Apr-12

Client: Western Refining Southwest, Gallup
Project: 1st QTR 2012 Groundwater Sampling

Sample ID	5ML RB	SampType:	MBLK	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	PBW	Batch ID:	R1744	RunNo:	1744					
Prep Date:		Analysis Date:	3/27/2012	SeqNo:	49064	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050								
Surr: BFB	19		20.00		93.2	69.3	120			

Sample ID	2.5UG GRO LCS	SampType:	LCS	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	LCSW	Batch ID:	R1744	RunNo:	1744					
Prep Date:		Analysis Date:	3/27/2012	SeqNo:	49065	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.56	0.050	0.5000	0	113	101	123			
Surr: BFB	16		20.00		79.3	69.3	120			

Sample ID	1203798-002AMS	SampType:	MS	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	NAPIS Eff	Batch ID:	R1744	RunNo:	1744					
Prep Date:		Analysis Date:	3/27/2012	SeqNo:	49127	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	350	25	250.0	117.5	94.6	75.4	121			
Surr: BFB	9,700		10,000		97.0	69.3	120			

Sample ID	1203798-002AMSD	SampType:	MSD	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	NAPIS Eff	Batch ID:	R1744	RunNo:	1744					
Prep Date:		Analysis Date:	3/27/2012	SeqNo:	49128	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	350	25	250.0	117.5	93.2	75.4	121	0.965	10.5	
Surr: BFB	8,200		10,000		81.8	69.3	120	0	0	

Qualifiers:

* / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203798

18-Apr-12

Client: Western Refining Southwest, Gallup

Project: 1st QTR 2012 Groundwater Sampling

Sample ID	5ml rb	SampType:	MBLK	TestCode:	EPA Method 8260B: VOLATILES					
Client ID:	PBW	Batch ID:	R1715	RunNo:	1715					
Prep Date:		Analysis Date:	3/26/2012	SeqNo:	48299	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								

Qualifiers:

* Value exceeds Maximum Contaminant Level.

Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203798

18-Apr-12

Client: Western Refining Southwest, Gallup
Project: 1st QTR 2012 Groundwater Sampling

Sample ID	5ml rb	SampType:	MBLK	TestCode:	EPA Method 8260B: VOLATILES					
Client ID:	PBW	Batch ID:	R1715	RunNo:	1715					
Prep Date:		Analysis Date:	3/26/2012	SeqNo:	48299	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	1.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	9.3		10.00		92.9	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		103	70	130			
Surr: Dibromofluoromethane	11		10.00		114	69.8	130			
Surr: Toluene-d8	10		10.00		102	70	130			

Sample ID	100ng lcs-c	SampType:	LCS	TestCode:	EPA Method 8260B: VOLATILES					
Client ID:	LCSW	Batch ID:	R1715	RunNo:	1715					
Prep Date:		Analysis Date:	3/26/2012	SeqNo:	48300	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	18	1.0	20.00	0	92.3	84.1	126			
Toluene	20	1.0	20.00	0	98.3	80	120			
Chlorobenzene	19	1.0	20.00	0	96.1	70	130			
1,1-Dichloroethene	18	1.0	20.00	0	90.6	83	130			
Trichloroethene (TCE)	19	1.0	20.00	0	96.9	76.2	119			
Surr: 1,2-Dichloroethane-d4	9.5		10.00		95.0	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		102	70	130			

Qualifiers:

*X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203798

18-Apr-12

Client: Western Refining Southwest, Gallup

Project: 1st QTR 2012 Groundwater Sampling

Sample ID	100ng lcs-c	SampType:	LCS	TestCode:	EPA Method 8260B: VOLATILES					
Client ID:	LCSW	Batch ID:	R1715	RunNo:	1715					
Prep Date:		Analysis Date:	3/26/2012	SeqNo:	48300	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	11		10.00		108	69.8	130			
Surr: Toluene-d8	10		10.00		103	70	130			

Sample ID	b4	SampType: MBLK		TestCode: EPA Method 8260B: VOLATILES						
Client ID:	PBW	Batch ID: R1753		RunNo: 1753						
Prep Date:		Analysis Date: 3/27/2012		SeqNo: 49319		Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acetone	ND	10								
Surr: 1,2-Dichloroethane-d4	9.9		10.00		99.1	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		99.6	70	130			
Surr: Dibromofluoromethane	12		10.00		118	69.8	130			
Surr: Toluene-d8	9.8		10.00		98.2	70	130			

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203798

18-Apr-12

Client: Western Refining Southwest, Gallup

Project: 1st QTR 2012 Groundwater Sampling

Sample ID	mb-1187	SampType:	MBLK	TestCode:	EPA Method 8270C: Semivolatiles					
Client ID:	PBW	Batch ID:	1187	RunNo:	1636					
Prep Date:	3/22/2012	Analysis Date:	3/23/2012	SeqNo:	46382	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	ND	10								
Acenaphthylene	ND	10								
Aniline	ND	10								
Anthracene	ND	10								
Azobenzene	ND	10								
Benz(a)anthracene	ND	10								
Benzo(a)pyrene	ND	10								
Benzo(b)fluoranthene	ND	10								
Benzo(g,h,i)perylene	ND	10								
Benzo(k)fluoranthene	ND	10								
Benzoic acid	ND	20								
Benzyl alcohol	ND	10								
Bis(2-chloroethoxy)methane	ND	10								
Bis(2-chloroethyl)ether	ND	10								
Bis(2-chloroisopropyl)ether	ND	10								
Bis(2-ethylhexyl)phthalate	ND	10								
4-Bromophenyl phenyl ether	ND	10								
Butyl benzyl phthalate	ND	10								
Carbazole	ND	10								
4-Chloro-3-methylphenol	ND	10								
4-Chloroaniline	ND	10								
2-Chloronaphthalene	ND	10								
2-Chlorophenol	ND	10								
4-Chlorophenyl phenyl ether	ND	10								
Chrysene	ND	10								
Di-n-butyl phthalate	ND	10								
Di-n-octyl phthalate	ND	10								
Dibenz(a,h)anthracene	ND	10								
Dibenzofuran	ND	10								
1,2-Dichlorobenzene	ND	5.0								
1,3-Dichlorobenzene	ND	10								
1,4-Dichlorobenzene	ND	5.0								
3,3'-Dichlorobenzidine	ND	10								
Diethyl phthalate	ND	10								
Dimethyl phthalate	ND	10								
2,4-Dichlorophenol	ND	20								
2,4-Dimethylphenol	ND	10								
4,6-Dinitro-2-methylphenol	ND	20								
2,4-Dinitrophenol	ND	5.0								
2,4-Dinitrotoluene	ND	5.0								
2,6-Dinitrotoluene	ND	10								

Qualifiers:

* / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203798

18-Apr-12

Client: Western Refining Southwest, Gallup

Project: 1st QTR 2012 Groundwater Sampling

Sample ID	mb-1187	SampType:	MBLK	TestCode:	EPA Method 8270C: Semivolatiles					
Client ID:	PBW	Batch ID:	1187	RunNo:	1636					
Prep Date:	3/22/2012	Analysis Date:	3/23/2012	SeqNo:	46382	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoranthene	ND	10								
Fluorene	ND	10								
Hexachlorobenzene	ND	5.0								
Hexachlorobutadiene	ND	10								
Hexachlorocyclopentadiene	ND	10								
Hexachloroethane	ND	5.0								
Indeno(1,2,3-cd)pyrene	ND	10								
Isophorone	ND	10								
1-Methylnaphthalene	ND	10								
2-Methylnaphthalene	ND	10								
2-Methylphenol	ND	5.0								
3+4-Methylphenol	ND	5.0								
N-Nitrosodi-n-propylamine	ND	10								
N-Nitrosodimethylamine	ND	10								
N-Nitrosodiphenylamine	ND	10								
Naphthalene	ND	10								
2-Nitroaniline	ND	10								
o-aniline	ND	10								
p-aniline	ND	20								
Nitrobenzene	ND	5.0								
2-Nitrophenol	ND	10								
4-Nitrophenol	ND	10								
Pentachlorophenol	ND	5.0								
Phenanthrene	ND	10								
Phenol	ND	10								
Pyrene	ND	10								
Pyridine	ND	5.0								
1,2,4-Trichlorobenzene	ND	10								
2,4,5-Trichlorophenol	ND	10								
2,4,6-Trichlorophenol	ND	10								
Surr: 2,4,6-Tribromophenol	180		200.0		92.2	18.1	138			
Surr: 2-Fluorobiphenyl	75		100.0		74.8	25.9	101			
Surr: 2-Fluorophenol	140		200.0		72.0	12.5	93.2			
Surr: 4-Terphenyl-d14	81		100.0		81.5	29.5	112			
Surr: Nitrobenzene-d5	86		100.0		86.5	20.5	120			
Surr: Phenol-d5	110		200.0		54.7	11.5	73.2			

Qualifiers:

- | | | |
|--|----|--|
| Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND | Not Detected at the Reporting Limit |
| R RPD outside accepted recovery limits | RL | Reporting Detection Limit |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203798

18-Apr-12

Client: Western Refining Southwest, Gallup

Project: 1st QTR 2012 Groundwater Sampling

Sample ID	lcs-1187		SampType: LCS			TestCode: EPA Method 8270C: Semivolatiles				
Client ID:	LCSW		Batch ID: 1187			RunNo: 1636				
Prep Date:	3/22/2012		Analysis Date: 3/23/2012			SeqNo: 46383		Units: µg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	79	10	100.0	0	79.5	37.7	119			
4-Chloro-3-methylphenol	76	10	100.0	0	75.5	48.8	104			
2-Chlorophenol	73	10	100.0	0	72.7	38.2	109			
1,4-Dichlorobenzene	69	5.0	100.0	0	69.4	33.7	99.1			
2,4-Dinitrotoluene	79	5.0	100.0	0	79.4	39.9	125			
N-Nitrosodi-n-propylamine	78	10	100.0	0	78.3	43.8	95.1			
4-Nitrophenol	33	10	100.0	0	32.6	21.7	68.6			
Pentachlorophenol	47	5.0	100.0	0	47.1	26.7	107			
Phenol	47	10	100.0	0	47.3	23.9	65.8			
Pyrene	84	10	100.0	0	84.4	45.7	107			
1,2,4-Trichlorobenzene	80	10	100.0	0	80.1	30.8	104			
Surr: 2,4,6-Tribromophenol	87		100.0		87.0	18.1	138			
Surr: 2-Fluorobiphenyl	84		100.0		83.6	25.9	101			
Surr: 2-Fluorophenol	56		100.0		55.7	12.5	93.2			
Surr: 4-Terphenyl-d14	90		100.0		90.2	29.5	112			
Surr: Nitrobenzene-d5	82		100.0		81.6	20.5	120			
Surr: Phenol-d5	50		100.0		50.4	11.5	73.2			

Sample ID	lcsd-1187		SampType: LCSD			TestCode: EPA Method 8270C: Semivolatiles				
Client ID:	LCSS02		Batch ID: 1187			RunNo: 1636				
Prep Date:	3/22/2012		Analysis Date: 3/23/2012			SeqNo: 46385		Units: µg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	77	10	100.0	0	77.4	37.7	119	2.60	20	
4-Chloro-3-methylphenol	73	10	100.0	0	72.6	48.8	104	3.97	20	
2-Chlorophenol	72	10	100.0	0	72.2	38.2	109	0.635	20	
1,4-Dichlorobenzene	66	5.0	100.0	0	65.6	33.7	99.1	5.54	20	
2,4-Dinitrotoluene	77	5.0	100.0	0	77.4	39.9	125	2.60	20	
N-Nitrosodi-n-propylamine	78	10	100.0	0	77.6	43.8	95.1	0.898	20	
4-Nitrophenol	33	10	100.0	0	32.5	21.7	68.6	0.368	20	
Pentachlorophenol	48	5.0	100.0	0	48.5	26.7	107	2.80	20	
Phenol	49	10	100.0	0	48.7	23.9	65.8	3.00	20	
Pyrene	81	10	100.0	0	80.5	45.7	107	4.73	20	
1,2,4-Trichlorobenzene	80	10	100.0	0	79.7	30.8	104	0.501	20	
Surr: 2,4,6-Tribromophenol	94		100.0		93.9	18.1	138	0	0	
Surr: 2-Fluorobiphenyl	84		100.0		84.3	25.9	101	0	0	
Surr: 2-Fluorophenol	58		100.0		57.8	12.5	93.2	0	0	
Surr: 4-Terphenyl-d14	89		100.0		89.1	29.5	112	0	0	
Surr: Nitrobenzene-d5	80		100.0		80.3	20.5	120	0	0	
Surr: Phenol-d5	49		100.0		49.5	11.5	73.2	0	0	

Qualifiers:

*X Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203798

18-Apr-12

Client: Western Refining Southwest, Gallup

Project: 1st QTR 2012 Groundwater Sampling

Sample ID	MB-1186	SampType:	MBLK	TestCode:	SM5210B: BOD					
Client ID:	PBW	Batch ID:	1186	RunNo:	1697					
Prep Date:	3/22/2012	Analysis Date:	3/27/2012	SeqNo:	47881	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Biochemical Oxygen Demand	ND	2.0								

Sample ID	MB-1186	SampType:	MBLK	TestCode:	SM5210B: BOD					
Client ID:	PBW	Batch ID:	1186	RunNo:	1697					
Prep Date:	3/22/2012	Analysis Date:	3/27/2012	SeqNo:	47882	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Biochemical Oxygen Demand	ND	2.0								

Sample ID	LCS-1186	SampType:	LCS	TestCode:	SM5210B: BOD					
Client ID:	LCSW	Batch ID:	1186	RunNo:	1697					
Prep Date:	3/22/2012	Analysis Date:	3/27/2012	SeqNo:	47883	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Biochemical Oxygen Demand	180	2.0	198.0	0	89.6	84.6	115.4			

Sample ID	LCSD-1186	SampType:	LCSD	TestCode:	SM5210B: BOD					
Client ID:	LCSS02	Batch ID:	1186	RunNo:	1697					
Prep Date:	3/22/2012	Analysis Date:	3/27/2012	SeqNo:	47884	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Biochemical Oxygen Demand	180	2.0	198.0	0	90.4	84.6	115.4	0.842	20	

Sample ID	1203744-001ADUP	SampType:	DUP	TestCode:	SM5210B: BOD					
Client ID:	BatchQC	Batch ID:	1186	RunNo:	1697					
Prep Date:	3/22/2012	Analysis Date:	3/27/2012	SeqNo:	47886	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Biochemical Oxygen Demand	10	2.0						0.300	20	

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203798

18-Apr-12

Client: Western Refining Southwest, Gallup

Project: 1st QTR 2012 Groundwater Sampling

Sample ID	1203902-001b dup	SampType:	DUP	TestCode:	EPA 120.1: Specific Conductance					
Client ID:	BatchQC	Batch ID:	R1724	RunNo:	1724					
Prep Date:		Analysis Date:	3/27/2012	SeqNo:	48557	Units:	µmhos/cm			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Conductivity	900	0.010						0.946	20	

Sample ID	1203953-001c dup	SampType:	DUP	TestCode:	EPA 120.1: Specific Conductance					
Client ID:	BatchQC	Batch ID:	R1724	RunNo:	1724					
Prep Date:		Analysis Date:	3/27/2012	SeqNo:	48566	Units:	µmhos/cm			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Conductivity	1,400	0.010						0.934	20	

Qualifiers:

*X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203798

18-Apr-12

Client: Western Refining Southwest, Gallup
Project: 1st QTR 2012 Groundwater Sampling

Sample ID	1203750-001f dup			SampType:	DUP		TestCode:	SM4500-H+B: pH			
Client ID:	BatchQC			Batch ID:	R1673		RunNo:	1673			
Prep Date:				Analysis Date:	3/23/2012		SeqNo:	47341		Units:	pH units
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
pH	7.29	1.68						0		H	

Qualifiers:

Value exceeds Maximum Contaminant Level.
Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87105
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Western Refining Gallup Work Order Number: 1203798
Received by/date: mg 03/21/12
Logged By: Ashley Gallegos 3/21/2012 1:00:00 PM AG
Completed By: Ashley Gallegos 3/21/2012 3:09:25 PM AG
Reviewed By: AG 03/22/12

Chain of Custody

1. Were seals intact? Yes ☐ No ☐ Not Present ☒
2. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
3. How was the sample delivered? Client

Log In

4. Coolers are present? (see 19. for cooler specific information) Yes ☒ No ☐ NA ☐
5. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
6. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
7. Sample(s) in proper container(s)? Yes ☒ No ☐
8. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
9. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
10. Was preservative added to bottles? Yes ☒ No ☐ NA ☐
11. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
12. Were any sample containers received broken? Yes ☐ No ☒
13. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☒ No ☐
14. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
15. Is it clear what analyses were requested? Yes ☒ No ☐
16. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☒ No ☐

of preserved bottles checked for pH: 10
Adjusted? YES (or >12 unless noted)
Checked by: AG

Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: _____ Date: _____
By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding: _____
Client Instructions: _____

18. Additional remarks:

19. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.1	Good	Yes			



*Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com*

April 18, 2012

Cheryl Johnson

Western Refining Southwest, Gallup

Rt. 3 Box 7

Gallup, NM 87301

TEL: (505) 722-0231

FAX (505) 722-0210

RE: 1st QTR 2012 Groundwater Sampling

OrderNo.: 1203800

Dear Cheryl Johnson:

Hall Environmental Analysis Laboratory received 4 sample(s) on 3/21/2012 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.**Analytical Report**Lab Order **1203800**Date Reported: **4/18/2012****CLIENT:** Western Refining Southwest, Gallup**Client Sample ID:** NAPIS-1**Project:** 1st QTR 2012 Groundwater Sampling**Collection Date:** 3/20/2012 9:45:00 AM**Lab ID:** 1203800-001**Matrix:** AQUEOUS**Received Date:** 3/21/2012 12:47:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: JMP
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	3/22/2012 2:52:03 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	3/22/2012 2:52:03 PM
Surr: DNOP	114	61.3-164		%REC	1	3/22/2012 2:52:03 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	3/26/2012 2:32:42 AM
Surr: BFB	104	69.3-120		%REC	1	3/26/2012 2:32:42 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	2.5		µg/L	1	3/24/2012 2:18:57 AM
Benzene	ND	1.0		µg/L	1	3/24/2012 2:18:57 AM
Toluene	ND	1.0		µg/L	1	3/24/2012 2:18:57 AM
Ethylbenzene	ND	1.0		µg/L	1	3/24/2012 2:18:57 AM
Xylenes, Total	ND	2.0		µg/L	1	3/24/2012 2:18:57 AM
Surr: 4-Bromofluorobenzene	66.9	55-140		%REC	1	3/24/2012 2:18:57 AM
EPA METHOD 300.0: ANIONS						Analyst: BRM
Fluoride	0.49	0.10		mg/L	1	3/22/2012 12:41:33 PM
Chloride	100	10		mg/L	20	3/22/2012 9:50:47 AM
Nitrogen, Nitrite (As N)	ND	0.10		mg/L	1	3/22/2012 9:38:22 AM
Bromide	1.6	0.10		mg/L	1	3/22/2012 9:38:22 AM
Nitrogen, Nitrate (As N)	3.3	0.10		mg/L	1	3/22/2012 9:38:22 AM
Phosphorus, Orthophosphate (As P)	ND	0.50	H	mg/L	1	3/22/2012 12:41:33 PM
Sulfate	56	10		mg/L	20	3/22/2012 9:50:47 AM
EPA METHOD 200.7: DISSOLVED METALS						Analyst: RAG
Barium	0.11	0.0020		mg/L	1	4/3/2012 5:43:20 PM
Cadmium	ND	0.0020		mg/L	1	4/3/2012 5:43:20 PM
Calcium	80	1.0		mg/L	1	4/6/2012 7:23:46 AM
Chromium	ND	0.0060		mg/L	1	4/3/2012 5:43:20 PM
Copper	ND	0.0060		mg/L	1	4/3/2012 5:43:20 PM
Iron	ND	0.020		mg/L	1	4/3/2012 5:43:20 PM
Lead	ND	0.0050		mg/L	1	4/3/2012 5:43:20 PM
Magnesium	15	1.0		mg/L	1	4/6/2012 7:23:46 AM
Manganese	0.0061	0.0020		mg/L	1	4/3/2012 5:43:20 PM
Potassium	ND	1.0		mg/L	1	4/6/2012 7:23:46 AM
Silver	ND	0.0050		mg/L	1	4/6/2012 7:23:46 AM
Sodium	350	5.0		mg/L	5	4/6/2012 7:26:48 AM
Zinc	0.022	0.010		mg/L	1	4/3/2012 5:43:20 PM
EPA METHOD 200.7: TOTAL METALS						Analyst: RAG
Barium	0.13	0.0020		mg/L	1	3/26/2012 4:03:58 PM
Cadmium	ND	0.0020		mg/L	1	3/26/2012 4:03:58 PM
Chromium	ND	0.0060		mg/L	1	3/26/2012 4:03:58 PM

Qualifiers: */X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

Analytical Report

Lab Order 1203800

Date Reported: 4/18/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: NAPIS-1

Project: 1st QTR 2012 Groundwater Sampling

Collection Date: 3/20/2012 9:45:00 AM

Lab ID: 1203800-001

Matrix: AQUEOUS

Received Date: 3/21/2012 12:47:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 200.7: TOTAL METALS						Analyst: RAG
Copper	ND	0.0060		mg/L	1	3/26/2012 4:03:58 PM
Iron	0.99	0.020	*	mg/L	1	3/26/2012 4:03:58 PM
Lead	ND	0.0050		mg/L	1	3/26/2012 4:03:58 PM
Manganese	0.039	0.0020		mg/L	1	3/26/2012 4:03:58 PM
Silver	ND	0.0050		mg/L	1	3/26/2012 4:03:58 PM
Zinc	ND	0.010		mg/L	1	3/26/2012 4:03:58 PM
EPA 200.8: DISSOLVED METALS						Analyst: SNV
Arsenic	0.0018	0.0010		mg/L	1	4/12/2012 6:41:29 PM
Selenium	0.0060	0.0010		mg/L	1	4/13/2012 2:46:33 PM
Uranium	0.010	0.0010		mg/L	1	4/12/2012 6:41:29 PM
200.8 ICPMS METALS:TOTAL						Analyst: SNV
Arsenic	ND	0.0025		mg/L	2.5	4/4/2012 4:38:21 PM
Selenium	0.0053	0.0025		mg/L	2.5	4/4/2012 4:38:21 PM
Uranium	0.012	0.0025		mg/L	2.5	4/4/2012 4:38:21 PM
EPA METHOD 245.1: MERCURY						Analyst: JLF
Mercury	ND	0.00020		mg/L	1	3/23/2012 4:02:45 PM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	10		µg/L	1	3/23/2012 2:30:02 PM
Acenaphthylene	ND	10		µg/L	1	3/23/2012 2:30:02 PM
Aniline	ND	10		µg/L	1	3/23/2012 2:30:02 PM
Anthracene	ND	10		µg/L	1	3/23/2012 2:30:02 PM
Azobenzene	ND	10		µg/L	1	3/23/2012 2:30:02 PM
Benz(a)anthracene	ND	10		µg/L	1	3/23/2012 2:30:02 PM
Benzo(a)pyrene	ND	10		µg/L	1	3/23/2012 2:30:02 PM
Benzo(b)fluoranthene	ND	10		µg/L	1	3/23/2012 2:30:02 PM
Benzo(g,h,i)perylene	ND	10		µg/L	1	3/23/2012 2:30:02 PM
Benzo(k)fluoranthene	ND	10		µg/L	1	3/23/2012 2:30:02 PM
Benzoic acid	ND	20		µg/L	1	3/23/2012 2:30:02 PM
Benzyl alcohol	ND	10		µg/L	1	3/23/2012 2:30:02 PM
Bis(2-chloroethoxy)methane	ND	10		µg/L	1	3/23/2012 2:30:02 PM
Bis(2-chloroethyl)ether	ND	10		µg/L	1	3/23/2012 2:30:02 PM
Bis(2-chloroisopropyl)ether	ND	10		µg/L	1	3/23/2012 2:30:02 PM
Bis(2-ethylhexyl)phthalate	ND	10		µg/L	1	3/23/2012 2:30:02 PM
4-Bromophenyl phenyl ether	ND	10		µg/L	1	3/23/2012 2:30:02 PM
Butyl benzyl phthalate	ND	10		µg/L	1	3/23/2012 2:30:02 PM
Carbazole	ND	10		µg/L	1	3/23/2012 2:30:02 PM
4-Chloro-3-methylphenol	ND	10		µg/L	1	3/23/2012 2:30:02 PM
4-Chloroaniline	ND	10		µg/L	1	3/23/2012 2:30:02 PM
2-Chloronaphthalene	ND	10		µg/L	1	3/23/2012 2:30:02 PM
2-Chlorophenol	ND	10		µg/L	1	3/23/2012 2:30:02 PM

Qualifiers: *X Value exceeds Maximum Contaminant Level.
 E Value above quantitation range
 J Analyte detected below quantitation limits
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.**Analytical Report**

Lab Order 1203800

Date Reported: 4/18/2012

CLIENT: Western Refining Southwest, Gallup**Client Sample ID:** NAPIS-1**Project:** 1st QTR 2012 Groundwater Sampling**Collection Date:** 3/20/2012 9:45:00 AM**Lab ID:** 1203800-001**Matrix:** AQUEOUS**Received Date:** 3/21/2012 12:47:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
4-Chlorophenyl phenyl ether	ND	10		µg/L	1	3/23/2012 2:30:02 PM
Chrysene	ND	10		µg/L	1	3/23/2012 2:30:02 PM
Di-n-butyl phthalate	ND	10		µg/L	1	3/23/2012 2:30:02 PM
Di-n-octyl phthalate	ND	10		µg/L	1	3/23/2012 2:30:02 PM
Dibenz(a,h)anthracene	ND	10		µg/L	1	3/23/2012 2:30:02 PM
Dibenzofuran	ND	10		µg/L	1	3/23/2012 2:30:02 PM
1,2-Dichlorobenzene	ND	10		µg/L	1	3/23/2012 2:30:02 PM
1,3-Dichlorobenzene	ND	10		µg/L	1	3/23/2012 2:30:02 PM
1,4-Dichlorobenzene	ND	10		µg/L	1	3/23/2012 2:30:02 PM
3,3'-Dichlorobenzidine	ND	10		µg/L	1	3/23/2012 2:30:02 PM
Diethyl phthalate	ND	10		µg/L	1	3/23/2012 2:30:02 PM
Dimethyl phthalate	ND	10		µg/L	1	3/23/2012 2:30:02 PM
2,4-Dichlorophenol	ND	20		µg/L	1	3/23/2012 2:30:02 PM
2,4-Dimethylphenol	ND	10		µg/L	1	3/23/2012 2:30:02 PM
4,6-Dinitro-2-methylphenol	ND	20		µg/L	1	3/23/2012 2:30:02 PM
2,4-Dinitrophenol	ND	20		µg/L	1	3/23/2012 2:30:02 PM
2,4-Dinitrotoluene	ND	10		µg/L	1	3/23/2012 2:30:02 PM
2,6-Dinitrotoluene	ND	10		µg/L	1	3/23/2012 2:30:02 PM
Fluoranthene	ND	10		µg/L	1	3/23/2012 2:30:02 PM
Fluorene	ND	10		µg/L	1	3/23/2012 2:30:02 PM
Hexachlorobenzene	ND	10		µg/L	1	3/23/2012 2:30:02 PM
Hexachlorobutadiene	ND	10		µg/L	1	3/23/2012 2:30:02 PM
Hexachlorocyclopentadiene	ND	10		µg/L	1	3/23/2012 2:30:02 PM
Hexachloroethane	ND	10		µg/L	1	3/23/2012 2:30:02 PM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	3/23/2012 2:30:02 PM
Isophorone	ND	10		µg/L	1	3/23/2012 2:30:02 PM
1-Methylnaphthalene	ND	10		µg/L	1	3/23/2012 2:30:02 PM
2-Methylnaphthalene	ND	10		µg/L	1	3/23/2012 2:30:02 PM
2-Methylphenol	ND	10		µg/L	1	3/23/2012 2:30:02 PM
3+4-Methylphenol	ND	10		µg/L	1	3/23/2012 2:30:02 PM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	3/23/2012 2:30:02 PM
N-Nitrosodimethylamine	ND	10		µg/L	1	3/23/2012 2:30:02 PM
N-Nitrosodiphenylamine	ND	10		µg/L	1	3/23/2012 2:30:02 PM
Naphthalene	ND	10		µg/L	1	3/23/2012 2:30:02 PM
2-Nitroaniline	ND	10		µg/L	1	3/23/2012 2:30:02 PM
3-Nitroaniline	ND	10		µg/L	1	3/23/2012 2:30:02 PM
4-Nitroaniline	ND	20		µg/L	1	3/23/2012 2:30:02 PM
Nitrobenzene	ND	10		µg/L	1	3/23/2012 2:30:02 PM
2-Nitrophenol	ND	10		µg/L	1	3/23/2012 2:30:02 PM
4-Nitrophenol	ND	10		µg/L	1	3/23/2012 2:30:02 PM
Pentachlorophenol	ND	20		µg/L	1	3/23/2012 2:30:02 PM
Phenanthrene	ND	10		µg/L	1	3/23/2012 2:30:02 PM

Qualifiers: * / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

Analytical Report

Lab Order 1203800

Date Reported: 4/18/2012

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Western Refining Southwest, Gallup**Client Sample ID:** NAPIS-1**Project:** 1st QTR 2012 Groundwater Sampling**Collection Date:** 3/20/2012 9:45:00 AM**Lab ID:** 1203800-001**Matrix:** AQUEOUS**Received Date:** 3/21/2012 12:47:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Phenol	ND	10		µg/L	1	3/23/2012 2:30:02 PM
Pyrene	ND	10		µg/L	1	3/23/2012 2:30:02 PM
Pyridine	ND	10		µg/L	1	3/23/2012 2:30:02 PM
1,2,4-Trichlorobenzene	ND	10		µg/L	1	3/23/2012 2:30:02 PM
2,4,5-Trichlorophenol	ND	10		µg/L	1	3/23/2012 2:30:02 PM
2,4,6-Trichlorophenol	ND	10		µg/L	1	3/23/2012 2:30:02 PM
Surr: 2,4,6-Tribromophenol	103	18.1-138		%REC	1	3/23/2012 2:30:02 PM
Surr: 2-Fluorobiphenyl	93.5	25.9-101		%REC	1	3/23/2012 2:30:02 PM
Surr: 2-Fluorophenol	73.9	12.5-93.2		%REC	1	3/23/2012 2:30:02 PM
Surr: 4-Terphenyl-d14	89.5	29.5-112		%REC	1	3/23/2012 2:30:02 PM
Surr: Nitrobenzene-d5	88.6	20.5-120		%REC	1	3/23/2012 2:30:02 PM
Surr: Phenol-d5	51.9	11.5-73.2		%REC	1	3/23/2012 2:30:02 PM

Qualifiers: *X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1203800

Date Reported: 4/18/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: NAPIS-2

Project: 1st QTR 2012 Groundwater Sampling

Collection Date: 3/20/2012 9:15:00 AM

Lab ID: 1203800-002

Matrix: AQUEOUS

Received Date: 3/21/2012 12:47:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: JMP
Diesel Range Organics (DRO)	4.7	1.0		mg/L	1	3/22/2012 3:17:26 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	3/22/2012 3:17:26 PM
Surr: DNOP	111	61.3-164		%REC	1	3/22/2012 3:17:26 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	1.4	0.50		mg/L	10	3/24/2012 2:49:00 AM
Surr: BFB	101	69.3-120		%REC	10	3/24/2012 2:49:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	370	25		µg/L	10	3/24/2012 2:49:00 AM
Benzene	19	10		µg/L	10	3/24/2012 2:49:00 AM
Toluene	ND	10		µg/L	10	3/24/2012 2:49:00 AM
Ethylbenzene	11	10		µg/L	10	3/24/2012 2:49:00 AM
Xylenes, Total	ND	20		µg/L	10	3/24/2012 2:49:00 AM
Surr: 4-Bromofluorobenzene	100	55-140		%REC	10	3/24/2012 2:49:00 AM
EPA METHOD 300.0: ANIONS						Analyst: BRM
Fluoride	0.49	0.10		mg/L	1	3/22/2012 12:29:08 PM
Chloride	330	10		mg/L	20	3/22/2012 10:15:36 AM
Bromide	0.94	0.10		mg/L	1	3/22/2012 10:03:11 AM
Phosphorus, Orthophosphate (As P)	ND	0.50	H	mg/L	1	3/22/2012 12:29:08 PM
Sulfate	5.3	0.50		mg/L	1	3/22/2012 10:03:11 AM
Nitrate+Nitrite as N	ND	1.0		mg/L	5	3/22/2012 7:34:06 PM
EPA METHOD 200.7: DISSOLVED METALS						Analyst: ELS
Barium	1.8	0.010		mg/L	5	4/6/2012 7:32:00 AM
Cadmium	ND	0.0020		mg/L	1	4/6/2012 7:29:40 AM
Calcium	94	1.0		mg/L	1	4/6/2012 7:29:40 AM
Chromium	ND	0.0060		mg/L	1	4/6/2012 7:29:40 AM
Copper	ND	0.0060		mg/L	1	4/6/2012 7:29:40 AM
Iron	3.0	0.10	*	mg/L	5	4/6/2012 7:32:00 AM
Lead	ND	0.0050		mg/L	1	4/6/2012 7:29:40 AM
Magnesium	18	1.0		mg/L	1	4/6/2012 7:29:40 AM
Manganese	1.5	0.010	*	mg/L	5	4/6/2012 7:32:00 AM
Potassium	ND	1.0		mg/L	1	4/6/2012 7:29:40 AM
Silver	ND	0.0050		mg/L	1	4/6/2012 7:29:40 AM
Sodium	350	5.0		mg/L	5	4/6/2012 7:32:00 AM
Zinc	0.070	0.010		mg/L	1	4/6/2012 7:29:40 AM
EPA METHOD 200.7: TOTAL METALS						Analyst: RAG
Barium	2.1	0.020	*	mg/L	10	3/27/2012 4:43:20 PM
Cadmium	ND	0.0020		mg/L	1	3/26/2012 4:15:24 PM
Chromium	ND	0.0060		mg/L	1	3/27/2012 4:40:49 PM
Copper	0.0071	0.0060		mg/L	1	3/26/2012 4:15:24 PM

Qualifiers: * / X Value exceeds Maximum Contaminant Level.
 E Value above quantitation range
 J Analyte detected below quantitation limits
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 RL Reporting Detection Limit

Analytical Report

Lab Order 1203800

Date Reported: 4/18/2012

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Western Refining Southwest, Gallup**Client Sample ID:** NAPIS-2**Project:** 1st QTR 2012 Groundwater Sampling**Collection Date:** 3/20/2012 9:15:00 AM**Lab ID:** 1203800-002**Matrix:** AQUEOUS**Received Date:** 3/21/2012 12:47:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 200.7: TOTAL METALS						Analyst: RAG
Iron	5.0	0.20	*	mg/L	10	3/28/2012 2:58:05 PM
Lead	ND	0.0050		mg/L	1	3/26/2012 4:15:24 PM
Manganese	1.6	0.020	*	mg/L	10	3/27/2012 4:43:20 PM
Silver	ND	0.0050		mg/L	1	3/26/2012 4:15:24 PM
Zinc	0.015	0.010		mg/L	1	3/27/2012 4:40:49 PM
EPA 200.8: DISSOLVED METALS						Analyst: SNV
Arsenic	0.0093	0.0010		mg/L	1	4/12/2012 6:52:31 PM
Selenium	0.0042	0.0010		mg/L	1	4/13/2012 2:55:57 PM
Uranium	ND	0.0010		mg/L	1	4/16/2012 3:24:14 PM
200.8 ICPMS METALS:TOTAL						Analyst: SNV
Arsenic	0.011	0.0025	*	mg/L	2.5	4/4/2012 4:50:13 PM
Selenium	0.0036	0.0025		mg/L	2.5	4/4/2012 4:50:13 PM
Uranium	ND	0.0025		mg/L	2.5	4/4/2012 4:50:13 PM
EPA METHOD 245.1: MERCURY						Analyst: JLF
Mercury	ND	0.00020		mg/L	1	3/23/2012 4:04:30 PM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	10		µg/L	1	3/23/2012 2:59:48 PM
Acenaphthylene	ND	10		µg/L	1	3/23/2012 2:59:48 PM
Aniline	ND	10		µg/L	1	3/23/2012 2:59:48 PM
Anthracene	ND	10		µg/L	1	3/23/2012 2:59:48 PM
Azobenzene	ND	10		µg/L	1	3/23/2012 2:59:48 PM
Benz(a)anthracene	ND	10		µg/L	1	3/23/2012 2:59:48 PM
Benzo(a)pyrene	ND	10		µg/L	1	3/23/2012 2:59:48 PM
Benzo(b)fluoranthene	ND	10		µg/L	1	3/23/2012 2:59:48 PM
Benzo(g,h,i)perylene	ND	10		µg/L	1	3/23/2012 2:59:48 PM
Benzo(k)fluoranthene	ND	10		µg/L	1	3/23/2012 2:59:48 PM
Benzoic acid	ND	20		µg/L	1	3/23/2012 2:59:48 PM
Benzyl alcohol	ND	10		µg/L	1	3/23/2012 2:59:48 PM
Bis(2-chloroethoxy)methane	ND	10		µg/L	1	3/23/2012 2:59:48 PM
Bis(2-chloroethyl)ether	ND	10		µg/L	1	3/23/2012 2:59:48 PM
Bis(2-chloroisopropyl)ether	ND	10		µg/L	1	3/23/2012 2:59:48 PM
Bis(2-ethylhexyl)phthalate	ND	10		µg/L	1	3/23/2012 2:59:48 PM
4-Bromophenyl phenyl ether	ND	10		µg/L	1	3/23/2012 2:59:48 PM
Butyl benzyl phthalate	ND	10		µg/L	1	3/23/2012 2:59:48 PM
Carbazole	ND	10		µg/L	1	3/23/2012 2:59:48 PM
4-Chloro-3-methylphenol	ND	10		µg/L	1	3/23/2012 2:59:48 PM
4-Chloroaniline	ND	10		µg/L	1	3/23/2012 2:59:48 PM
2-Chloronaphthalene	ND	10		µg/L	1	3/23/2012 2:59:48 PM
2-Chlorophenol	ND	10		µg/L	1	3/23/2012 2:59:48 PM
4-Chlorophenyl phenyl ether	ND	10		µg/L	1	3/23/2012 2:59:48 PM

Qualifiers: * / X Value exceeds Maximum Contaminant Level.
 E Value above quantitation range
 J Analyte detected below quantitation limits
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1203800

Date Reported: 4/18/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: NAPIS-2

Project: 1st QTR 2012 Groundwater Sampling

Collection Date: 3/20/2012 9:15:00 AM

Lab ID: 1203800-002

Matrix: AQUEOUS

Received Date: 3/21/2012 12:47:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Chrysene	ND	10		µg/L	1	3/23/2012 2:59:48 PM
Di-n-butyl phthalate	ND	10		µg/L	1	3/23/2012 2:59:48 PM
Di-n-octyl phthalate	ND	10		µg/L	1	3/23/2012 2:59:48 PM
Dibenz(a,h)anthracene	ND	10		µg/L	1	3/23/2012 2:59:48 PM
Dibenzofuran	ND	10		µg/L	1	3/23/2012 2:59:48 PM
1,2-Dichlorobenzene	ND	10		µg/L	1	3/23/2012 2:59:48 PM
1,3-Dichlorobenzene	ND	10		µg/L	1	3/23/2012 2:59:48 PM
1,4-Dichlorobenzene	ND	10		µg/L	1	3/23/2012 2:59:48 PM
3,3'-Dichlorobenzidine	ND	10		µg/L	1	3/23/2012 2:59:48 PM
Diethyl phthalate	ND	10		µg/L	1	3/23/2012 2:59:48 PM
Dimethyl phthalate	ND	10		µg/L	1	3/23/2012 2:59:48 PM
2,4-Dichlorophenol	ND	20		µg/L	1	3/23/2012 2:59:48 PM
2,4-Dimethylphenol	ND	10		µg/L	1	3/23/2012 2:59:48 PM
4,6-Dinitro-2-methylphenol	ND	20		µg/L	1	3/23/2012 2:59:48 PM
2,4-Dinitrophenol	ND	20		µg/L	1	3/23/2012 2:59:48 PM
2,4-Dinitrotoluene	ND	10		µg/L	1	3/23/2012 2:59:48 PM
2,6-Dinitrotoluene	ND	10		µg/L	1	3/23/2012 2:59:48 PM
Fluoranthene	ND	10		µg/L	1	3/23/2012 2:59:48 PM
Fluorene	ND	10		µg/L	1	3/23/2012 2:59:48 PM
Hexachlorobenzene	ND	10		µg/L	1	3/23/2012 2:59:48 PM
Hexachlorobutadiene	ND	10		µg/L	1	3/23/2012 2:59:48 PM
Hexachlorocyclopentadiene	ND	10		µg/L	1	3/23/2012 2:59:48 PM
Hexachloroethane	ND	10		µg/L	1	3/23/2012 2:59:48 PM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	3/23/2012 2:59:48 PM
Isophorone	ND	10		µg/L	1	3/23/2012 2:59:48 PM
1-Methylnaphthalene	15	10		µg/L	1	3/23/2012 2:59:48 PM
2-Methylnaphthalene	ND	10		µg/L	1	3/23/2012 2:59:48 PM
2-Methylphenol	15	10		µg/L	1	3/23/2012 2:59:48 PM
3+4-Methylphenol	34	10		µg/L	1	3/23/2012 2:59:48 PM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	3/23/2012 2:59:48 PM
N-Nitrosodimethylamine	ND	10		µg/L	1	3/23/2012 2:59:48 PM
N-Nitrosodiphenylamine	ND	10		µg/L	1	3/23/2012 2:59:48 PM
Naphthalene	ND	10		µg/L	1	3/23/2012 2:59:48 PM
2-Nitroaniline	ND	10		µg/L	1	3/23/2012 2:59:48 PM
3-Nitroaniline	ND	10		µg/L	1	3/23/2012 2:59:48 PM
4-Nitroaniline	ND	20		µg/L	1	3/23/2012 2:59:48 PM
Nitrobenzene	ND	10		µg/L	1	3/23/2012 2:59:48 PM
2-Nitrophenol	ND	10		µg/L	1	3/23/2012 2:59:48 PM
4-Nitrophenol	ND	10		µg/L	1	3/23/2012 2:59:48 PM
Pentachlorophenol	ND	20		µg/L	1	3/23/2012 2:59:48 PM
Phenanthrene	ND	10		µg/L	1	3/23/2012 2:59:48 PM
Phenol	78	10		µg/L	1	3/23/2012 2:59:48 PM

Qualifiers: */X Value exceeds Maximum Contaminant Level.
 E Value above quantitation range
 J Analyte detected below quantitation limits
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 RL Reporting Detection Limit

Analytical Report

Lab Order 1203800

Date Reported: 4/18/2012

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Western Refining Southwest, Gallup**Client Sample ID:** NAPIS-2**Project:** 1st QTR 2012 Groundwater Sampling**Collection Date:** 3/20/2012 9:15:00 AM**Lab ID:** 1203800-002**Matrix:** AQUEOUS**Received Date:** 3/21/2012 12:47:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Pyrene	ND	10		µg/L	1	3/23/2012 2:59:48 PM
Pyridine	ND	10		µg/L	1	3/23/2012 2:59:48 PM
1,2,4-Trichlorobenzene	ND	10		µg/L	1	3/23/2012 2:59:48 PM
2,4,5-Trichlorophenol	ND	10		µg/L	1	3/23/2012 2:59:48 PM
2,4,6-Trichlorophenol	ND	10		µg/L	1	3/23/2012 2:59:48 PM
Surr: 2,4,6-Tribromophenol	85.5	18.1-138		%REC	1	3/23/2012 2:59:48 PM
Surr: 2-Fluorobiphenyl	76.8	25.9-101		%REC	1	3/23/2012 2:59:48 PM
Surr: 2-Fluorophenol	60.7	12.5-93.2		%REC	1	3/23/2012 2:59:48 PM
Surr: 4-Terphenyl-d14	79.7	29.5-112		%REC	1	3/23/2012 2:59:48 PM
Surr: Nitrobenzene-d5	75.5	20.5-120		%REC	1	3/23/2012 2:59:48 PM
Surr: Phenol-d5	44.1	11.5-73.2		%REC	1	3/23/2012 2:59:48 PM

Qualifiers: * / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1203800

Date Reported: 4/18/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: NAPIS-3

Project: 1st QTR 2012 Groundwater Sampling

Collection Date: 3/20/2012 11:50:00 AM

Lab ID: 1203800-003

Matrix: AQUEOUS

Received Date: 3/21/2012 12:47:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: JMP
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	3/22/2012 3:42:51 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	3/22/2012 3:42:51 PM
Surr: DNOP	112	61.3-164		%REC	1	3/22/2012 3:42:51 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	3/24/2012 5:47:00 PM
Surr: BFB	87.8	69.3-120		%REC	1	3/24/2012 5:47:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	2.5		µg/L	1	3/24/2012 4:19:28 AM
Benzene	ND	1.0		µg/L	1	3/24/2012 4:19:28 AM
Toluene	ND	1.0		µg/L	1	3/24/2012 4:19:28 AM
Ethylbenzene	ND	1.0		µg/L	1	3/24/2012 4:19:28 AM
Xylenes, Total	ND	2.0		µg/L	1	3/24/2012 4:19:28 AM
Surr: 4-Bromofluorobenzene	68.8	55-140		%REC	1	3/24/2012 4:19:28 AM
EPA METHOD 300.0: ANIONS						Analyst: BRM
Fluoride	0.59	0.50		mg/L	5	3/22/2012 12:53:57 PM
Chloride	970	50		mg/L	100	3/23/2012 6:52:55 PM
Nitrogen, Nitrite (As N)	ND	0.50		mg/L	5	3/22/2012 10:28:00 AM
Bromide	4.4	0.50		mg/L	5	3/22/2012 10:28:00 AM
Nitrogen, Nitrate (As N)	19	0.50	*	mg/L	5	3/22/2012 10:28:00 AM
Phosphorus, Orthophosphate (As P)	ND	2.5	H	mg/L	5	3/22/2012 12:53:57 PM
Sulfate	390	25		mg/L	50	3/22/2012 10:40:24 AM
EPA METHOD 200.7: DISSOLVED METALS						Analyst: ELS
Barium	0.063	0.0020		mg/L	1	4/6/2012 7:46:55 AM
Cadmium	ND	0.0020		mg/L	1	4/6/2012 7:46:55 AM
Calcium	40	1.0		mg/L	1	4/6/2012 7:46:55 AM
Chromium	0.0079	0.0060		mg/L	1	4/6/2012 7:46:55 AM
Copper	ND	0.0060		mg/L	1	4/6/2012 7:46:55 AM
Iron	0.51	0.020	*	mg/L	1	4/6/2012 7:46:55 AM
Lead	ND	0.0050		mg/L	1	4/6/2012 7:46:55 AM
Magnesium	6.4	1.0		mg/L	1	4/6/2012 7:46:55 AM
Manganese	0.014	0.0020		mg/L	1	4/6/2012 7:46:55 AM
Potassium	3.9	1.0		mg/L	1	4/6/2012 7:46:55 AM
Silver	ND	0.0050		mg/L	1	4/6/2012 7:46:55 AM
Sodium	920	10		mg/L	10	4/6/2012 7:49:57 AM
Zinc	0.084	0.010		mg/L	1	4/6/2012 7:46:55 AM
EPA METHOD 200.7: TOTAL METALS						Analyst: RAG
Barium	0.16	0.0020		mg/L	1	3/26/2012 4:17:56 PM
Cadmium	ND	0.0020		mg/L	1	3/26/2012 4:17:56 PM
Chromium	0.017	0.0060		mg/L	1	3/27/2012 4:46:23 PM

Qualifiers:

- * / X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

Analytical Report

Lab Order 1203800

Date Reported: 4/18/2012

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Western Refining Southwest, Gallup**Client Sample ID:** NAPIS-3**Project:** 1st QTR 2012 Groundwater Sampling**Collection Date:** 3/20/2012 11:50:00 AM**Lab ID:** 1203800-003**Matrix:** AQUEOUS**Received Date:** 3/21/2012 12:47:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 200.7: TOTAL METALS						Analyst: RAG
Copper	0.0083	0.0060		mg/L	1	3/26/2012 4:17:56 PM
Iron	5.5	0.20	*	mg/L	10	3/28/2012 3:01:11 PM
Lead	0.0082	0.0050		mg/L	1	3/26/2012 4:17:56 PM
Manganese	0.12	0.0020	*	mg/L	1	3/26/2012 4:17:56 PM
Silver	ND	0.0050		mg/L	1	3/26/2012 4:17:56 PM
Zinc	0.22	0.010		mg/L	1	3/27/2012 4:46:23 PM
EPA 200.8: DISSOLVED METALS						Analyst: SNV
Arsenic	0.0039	0.0010		mg/L	1	4/12/2012 6:54:23 PM
Selenium	0.017	0.0010		mg/L	1	4/13/2012 2:57:49 PM
Uranium	0.032	0.0050	*	mg/L	5	4/16/2012 3:26:06 PM
200.8 ICPMS METALS:TOTAL						Analyst: SNV
Arsenic	0.0060	0.0025		mg/L	2.5	4/4/2012 4:54:09 PM
Selenium	0.017	0.0025		mg/L	2.5	4/4/2012 4:54:09 PM
Uranium	0.038	0.0025	*	mg/L	2.5	4/4/2012 4:54:09 PM
EPA METHOD 245.1: MERCURY						Analyst: JLF
Mercury	ND	0.00020		mg/L	1	3/23/2012 4:09:49 PM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	10		µg/L	1	3/23/2012 3:29:39 PM
Acenaphthylene	ND	10		µg/L	1	3/23/2012 3:29:39 PM
Aniline	ND	10		µg/L	1	3/23/2012 3:29:39 PM
Anthracene	ND	10		µg/L	1	3/23/2012 3:29:39 PM
Azobenzene	ND	10		µg/L	1	3/23/2012 3:29:39 PM
Benz(a)anthracene	ND	10		µg/L	1	3/23/2012 3:29:39 PM
Benzo(a)pyrene	ND	10		µg/L	1	3/23/2012 3:29:39 PM
Benzo(b)fluoranthene	ND	10		µg/L	1	3/23/2012 3:29:39 PM
Benzo(g,h,i)perylene	ND	10		µg/L	1	3/23/2012 3:29:39 PM
Benzo(k)fluoranthene	ND	10		µg/L	1	3/23/2012 3:29:39 PM
Benzoic acid	ND	20		µg/L	1	3/23/2012 3:29:39 PM
Benzyl alcohol	ND	10		µg/L	1	3/23/2012 3:29:39 PM
Bis(2-chloroethoxy)methane	ND	10		µg/L	1	3/23/2012 3:29:39 PM
Bis(2-chloroethyl)ether	ND	10		µg/L	1	3/23/2012 3:29:39 PM
Bis(2-chloroisopropyl)ether	ND	10		µg/L	1	3/23/2012 3:29:39 PM
Bis(2-ethylhexyl)phthalate	ND	10		µg/L	1	3/23/2012 3:29:39 PM
4-Bromophenyl phenyl ether	ND	10		µg/L	1	3/23/2012 3:29:39 PM
Butyl benzyl phthalate	ND	10		µg/L	1	3/23/2012 3:29:39 PM
Carbazole	ND	10		µg/L	1	3/23/2012 3:29:39 PM
4-Chloro-3-methylphenol	ND	10		µg/L	1	3/23/2012 3:29:39 PM
4-Chloroaniline	ND	10		µg/L	1	3/23/2012 3:29:39 PM
2-Chloronaphthalene	ND	10		µg/L	1	3/23/2012 3:29:39 PM
2-Chlorophenol	ND	10		µg/L	1	3/23/2012 3:29:39 PM

Qualifiers: *X Value exceeds Maximum Contaminant Level.
 E Value above quantitation range
 J Analyte detected below quantitation limits
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1203800

Date Reported: 4/18/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: NAPIS-3

Project: 1st QTR 2012 Groundwater Sampling

Collection Date: 3/20/2012 11:50:00 AM

Lab ID: 1203800-003

Matrix: AQUEOUS

Received Date: 3/21/2012 12:47:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
4-Chlorophenyl phenyl ether	ND	10		µg/L	1	3/23/2012 3:29:39 PM
Chrysene	ND	10		µg/L	1	3/23/2012 3:29:39 PM
Di-n-butyl phthalate	ND	10		µg/L	1	3/23/2012 3:29:39 PM
Di-n-octyl phthalate	ND	10		µg/L	1	3/23/2012 3:29:39 PM
Dibenz(a,h)anthracene	ND	10		µg/L	1	3/23/2012 3:29:39 PM
Dibenzofuran	ND	10		µg/L	1	3/23/2012 3:29:39 PM
1,2-Dichlorobenzene	ND	10		µg/L	1	3/23/2012 3:29:39 PM
1,3-Dichlorobenzene	ND	10		µg/L	1	3/23/2012 3:29:39 PM
1,4-Dichlorobenzene	ND	10		µg/L	1	3/23/2012 3:29:39 PM
3,3'-Dichlorobenzidine	ND	10		µg/L	1	3/23/2012 3:29:39 PM
Diethyl phthalate	ND	10		µg/L	1	3/23/2012 3:29:39 PM
Dimethyl phthalate	ND	10		µg/L	1	3/23/2012 3:29:39 PM
2,4-Dichlorophenol	ND	20		µg/L	1	3/23/2012 3:29:39 PM
2,4-Dimethylphenol	ND	10		µg/L	1	3/23/2012 3:29:39 PM
4,6-Dinitro-2-methylphenol	ND	20		µg/L	1	3/23/2012 3:29:39 PM
2,4-Dinitrophenol	ND	20		µg/L	1	3/23/2012 3:29:39 PM
2,4-Dinitrotoluene	ND	10		µg/L	1	3/23/2012 3:29:39 PM
2,6-Dinitrotoluene	ND	10		µg/L	1	3/23/2012 3:29:39 PM
Fluoranthene	ND	10		µg/L	1	3/23/2012 3:29:39 PM
Fluorene	ND	10		µg/L	1	3/23/2012 3:29:39 PM
Hexachlorobenzene	ND	10		µg/L	1	3/23/2012 3:29:39 PM
Hexachlorobutadiene	ND	10		µg/L	1	3/23/2012 3:29:39 PM
Hexachlorocyclopentadiene	ND	10		µg/L	1	3/23/2012 3:29:39 PM
Hexachloroethane	ND	10		µg/L	1	3/23/2012 3:29:39 PM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	3/23/2012 3:29:39 PM
Isophorone	ND	10		µg/L	1	3/23/2012 3:29:39 PM
1-Methylnaphthalene	ND	10		µg/L	1	3/23/2012 3:29:39 PM
2-Methylnaphthalene	ND	10		µg/L	1	3/23/2012 3:29:39 PM
2-Methylphenol	ND	10		µg/L	1	3/23/2012 3:29:39 PM
3+4-Methylphenol	ND	10		µg/L	1	3/23/2012 3:29:39 PM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	3/23/2012 3:29:39 PM
N-Nitrosodimethylamine	ND	10		µg/L	1	3/23/2012 3:29:39 PM
N-Nitrosodiphenylamine	ND	10		µg/L	1	3/23/2012 3:29:39 PM
Naphthalene	ND	10		µg/L	1	3/23/2012 3:29:39 PM
2-Nitroaniline	ND	10		µg/L	1	3/23/2012 3:29:39 PM
3-Nitroaniline	ND	10		µg/L	1	3/23/2012 3:29:39 PM
4-Nitroaniline	ND	20		µg/L	1	3/23/2012 3:29:39 PM
Nitrobenzene	ND	10		µg/L	1	3/23/2012 3:29:39 PM
2-Nitrophenol	ND	10		µg/L	1	3/23/2012 3:29:39 PM
4-Nitrophenol	ND	10		µg/L	1	3/23/2012 3:29:39 PM
Pentachlorophenol	ND	20		µg/L	1	3/23/2012 3:29:39 PM
Phenanthrene	ND	10		µg/L	1	3/23/2012 3:29:39 PM

Qualifiers: * / X Value exceeds Maximum Contaminant Level.
 E Value above quantitation range
 J Analyte detected below quantitation limits
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 RL Reporting Detection Limit

Analytical Report

Lab Order 1203800

Date Reported: 4/18/2012

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Western Refining Southwest, Gallup**Client Sample ID:** NAPIS-3**Project:** 1st QTR 2012 Groundwater Sampling**Collection Date:** 3/20/2012 11:50:00 AM**Lab ID:** 1203800-003**Matrix:** AQUEOUS**Received Date:** 3/21/2012 12:47:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Phenol	ND	10		µg/L	1	3/23/2012 3:29:39 PM
Pyrene	ND	10		µg/L	1	3/23/2012 3:29:39 PM
Pyridine	ND	10		µg/L	1	3/23/2012 3:29:39 PM
1,2,4-Trichlorobenzene	ND	10		µg/L	1	3/23/2012 3:29:39 PM
2,4,5-Trichlorophenol	ND	10		µg/L	1	3/23/2012 3:29:39 PM
2,4,6-Trichlorophenol	ND	10		µg/L	1	3/23/2012 3:29:39 PM
Surr: 2,4,6-Tribromophenol	97.3	18.1-138		%REC	1	3/23/2012 3:29:39 PM
Surr: 2-Fluorobiphenyl	89.3	25.9-101		%REC	1	3/23/2012 3:29:39 PM
Surr: 2-Fluorophenol	66.2	12.5-93.2		%REC	1	3/23/2012 3:29:39 PM
Surr: 4-Terphenyl-d14	83.6	29.5-112		%REC	1	3/23/2012 3:29:39 PM
Surr: Nitrobenzene-d5	84.0	20.5-120		%REC	1	3/23/2012 3:29:39 PM
Surr: Phenol-d5	49.9	11.5-73.2		%REC	1	3/23/2012 3:29:39 PM

Qualifiers: *X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1203800

Date Reported: 4/18/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: KA-3

Project: 1st QTR 2012 Groundwater Sampling

Collection Date: 3/20/2012 11:25:00 AM

Lab ID: 1203800-004

Matrix: AQUEOUS

Received Date: 3/21/2012 12:47:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: JMP
Diesel Range Organics (DRO)	1.8	1.0		mg/L	1	3/22/2012 4:08:13 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	3/22/2012 4:08:13 PM
Surr: DNOP	113	61.3-164		%REC	1	3/22/2012 4:08:13 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	0.16	0.10		mg/L	2	3/24/2012 6:17:01 PM
Surr: BFB	94.8	69.3-120		%REC	2	3/24/2012 6:17:01 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	35	5.0		µg/L	2	3/24/2012 6:17:01 PM
Benzene	15	2.0		µg/L	2	3/24/2012 6:17:01 PM
Toluene	ND	2.0		µg/L	2	3/24/2012 6:17:01 PM
Ethylbenzene	4.2	2.0		µg/L	2	3/24/2012 6:17:01 PM
Xylenes, Total	ND	4.0		µg/L	2	3/24/2012 6:17:01 PM
Surr: 4-Bromofluorobenzene	97.2	55-140		%REC	2	3/24/2012 6:17:01 PM
EPA METHOD 300.0: ANIONS						Analyst: BRM
Fluoride	2.0	0.50		mg/L	5	3/22/2012 1:06:21 PM
Chloride	440	25		mg/L	50	3/22/2012 11:05:14 AM
Nitrogen, Nitrite (As N)	ND	0.50		mg/L	5	3/22/2012 10:52:50 AM
Bromide	1.9	0.50		mg/L	5	3/22/2012 10:52:50 AM
Nitrogen, Nitrate (As N)	15	0.50	*	mg/L	5	3/22/2012 10:52:50 AM
Phosphorus, Orthophosphate (As P)	ND	2.5	H	mg/L	5	3/22/2012 1:06:21 PM
Sulfate	220	2.5		mg/L	5	3/22/2012 10:52:50 AM
EPA METHOD 200.7: DISSOLVED METALS						Analyst: ELS
Barium	0.068	0.0020		mg/L	1	4/6/2012 7:52:51 AM
Cadmium	ND	0.0020		mg/L	1	4/6/2012 7:52:51 AM
Calcium	93	1.0		mg/L	1	4/6/2012 7:52:51 AM
Chromium	0.011	0.0060		mg/L	1	4/6/2012 7:52:51 AM
Copper	ND	0.0060		mg/L	1	4/6/2012 7:52:51 AM
Iron	0.35	0.020	*	mg/L	1	4/6/2012 7:52:51 AM
Lead	ND	0.0050		mg/L	1	4/6/2012 7:52:51 AM
Magnesium	16	1.0		mg/L	1	4/6/2012 7:52:51 AM
Manganese	0.35	0.0020	*	mg/L	1	4/6/2012 7:52:51 AM
Potassium	2.8	1.0		mg/L	1	4/6/2012 7:52:51 AM
Silver	ND	0.0050		mg/L	1	4/6/2012 7:52:51 AM
Sodium	550	10		mg/L	10	4/6/2012 7:55:54 AM
Zinc	0.033	0.010		mg/L	1	4/6/2012 7:52:51 AM
EPA METHOD 200.7: TOTAL METALS						Analyst: RAG
Barium	0.99	0.0020		mg/L	1	3/26/2012 4:20:44 PM
Cadmium	ND	0.0020		mg/L	1	3/26/2012 4:20:44 PM
Chromium	0.033	0.0060		mg/L	1	3/27/2012 4:52:15 PM

Qualifiers: * / X Value exceeds Maximum Contaminant Level.
 E Value above quantitation range
 J Analyte detected below quantitation limits
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 RL Reporting Detection Limit

Analytical Report

Lab Order 1203800

Date Reported: 4/18/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: KA-3

Project: 1st QTR 2012 Groundwater Sampling

Collection Date: 3/20/2012 11:25:00 AM

Lab ID: 1203800-004

Matrix: AQUEOUS

Received Date: 3/21/2012 12:47:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 200.7: TOTAL METALS						Analyst: RAG
Copper	0.017	0.0060		mg/L	1	3/26/2012 4:20:44 PM
Iron	24	1.0	*	mg/L	50	3/28/2012 3:03:41 PM
Lead	ND	0.0050		mg/L	1	3/26/2012 4:20:44 PM
Manganese	1.8	0.010	*	mg/L	5	3/27/2012 4:56:51 PM
Silver	ND	0.0050		mg/L	1	3/26/2012 4:20:44 PM
Zinc	0.095	0.010		mg/L	1	3/27/2012 4:52:15 PM
EPA 200.8: DISSOLVED METALS						Analyst: SNV
Arsenic	0.0033	0.0010		mg/L	1	4/12/2012 6:58:09 PM
Selenium	0.0085	0.0010		mg/L	1	4/13/2012 3:01:34 PM
Uranium	0.018	0.0010		mg/L	1	4/16/2012 4:18:58 PM
200.8 ICPMS METALS:TOTAL						Analyst: SNV
Arsenic	0.0065	0.0025		mg/L	2.5	4/4/2012 4:58:05 PM
Selenium	0.0088	0.0025		mg/L	2.5	4/4/2012 4:58:05 PM
Uranium	0.023	0.0025		mg/L	2.5	4/4/2012 4:58:05 PM
EPA METHOD 245.1: MERCURY						Analyst: JLF
Mercury	ND	0.00020		mg/L	1	3/23/2012 4:11:34 PM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	10		µg/L	1	3/23/2012 3:59:32 PM
Acenaphthylene	ND	10		µg/L	1	3/23/2012 3:59:32 PM
Aniline	ND	10		µg/L	1	3/23/2012 3:59:32 PM
Anthracene	ND	10		µg/L	1	3/23/2012 3:59:32 PM
Azobenzene	ND	10		µg/L	1	3/23/2012 3:59:32 PM
Benz(a)anthracene	ND	10		µg/L	1	3/23/2012 3:59:32 PM
Benzo(a)pyrene	ND	10		µg/L	1	3/23/2012 3:59:32 PM
Benzo(b)fluoranthene	ND	10		µg/L	1	3/23/2012 3:59:32 PM
Benzo(g,h,i)perylene	ND	10		µg/L	1	3/23/2012 3:59:32 PM
Benzo(k)fluoranthene	ND	10		µg/L	1	3/23/2012 3:59:32 PM
Benzoic acid	ND	20		µg/L	1	3/23/2012 3:59:32 PM
Benzyl alcohol	ND	10		µg/L	1	3/23/2012 3:59:32 PM
Bis(2-chloroethoxy)methane	ND	10		µg/L	1	3/23/2012 3:59:32 PM
Bis(2-chloroethyl)ether	ND	10		µg/L	1	3/23/2012 3:59:32 PM
Bis(2-chloroisopropyl)ether	ND	10		µg/L	1	3/23/2012 3:59:32 PM
Bis(2-ethylhexyl)phthalate	ND	10		µg/L	1	3/23/2012 3:59:32 PM
4-Bromophenyl phenyl ether	ND	10		µg/L	1	3/23/2012 3:59:32 PM
Butyl benzyl phthalate	ND	10		µg/L	1	3/23/2012 3:59:32 PM
Carbazole	ND	10		µg/L	1	3/23/2012 3:59:32 PM
4-Chloro-3-methylphenol	ND	10		µg/L	1	3/23/2012 3:59:32 PM
4-Chloroaniline	ND	10		µg/L	1	3/23/2012 3:59:32 PM
2-Chloronaphthalene	ND	10		µg/L	1	3/23/2012 3:59:32 PM
2-Chlorophenol	ND	10		µg/L	1	3/23/2012 3:59:32 PM

Qualifiers: *X Value exceeds Maximum Contaminant Level.
 E Value above quantitation range
 J Analyte detected below quantitation limits
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1203800

Date Reported: 4/18/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: KA-3

Project: 1st QTR 2012 Groundwater Sampling

Collection Date: 3/20/2012 11:25:00 AM

Lab ID: 1203800-004

Matrix: AQUEOUS

Received Date: 3/21/2012 12:47:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
4-Chlorophenyl phenyl ether	ND	10		µg/L	1	3/23/2012 3:59:32 PM
Chrysene	ND	10		µg/L	1	3/23/2012 3:59:32 PM
Di-n-butyl phthalate	ND	10		µg/L	1	3/23/2012 3:59:32 PM
Di-n-octyl phthalate	ND	10		µg/L	1	3/23/2012 3:59:32 PM
Dibenz(a,h)anthracene	ND	10		µg/L	1	3/23/2012 3:59:32 PM
Dibenzofuran	ND	10		µg/L	1	3/23/2012 3:59:32 PM
1,2-Dichlorobenzene	ND	10		µg/L	1	3/23/2012 3:59:32 PM
1,3-Dichlorobenzene	ND	10		µg/L	1	3/23/2012 3:59:32 PM
1,4-Dichlorobenzene	ND	10		µg/L	1	3/23/2012 3:59:32 PM
3,3'-Dichlorobenzidine	ND	10		µg/L	1	3/23/2012 3:59:32 PM
Diethyl phthalate	ND	10		µg/L	1	3/23/2012 3:59:32 PM
Dimethyl phthalate	ND	10		µg/L	1	3/23/2012 3:59:32 PM
2,4-Dichlorophenol	ND	20		µg/L	1	3/23/2012 3:59:32 PM
2,4-Dimethylphenol	ND	10		µg/L	1	3/23/2012 3:59:32 PM
4,6-Dinitro-2-methylphenol	ND	20		µg/L	1	3/23/2012 3:59:32 PM
2,4-Dinitrophenol	ND	20		µg/L	1	3/23/2012 3:59:32 PM
2,4-Dinitrotoluene	ND	10		µg/L	1	3/23/2012 3:59:32 PM
2,6-Dinitrotoluene	ND	10		µg/L	1	3/23/2012 3:59:32 PM
Fluoranthene	ND	10		µg/L	1	3/23/2012 3:59:32 PM
Fluorene	ND	10		µg/L	1	3/23/2012 3:59:32 PM
Hexachlorobenzene	ND	10		µg/L	1	3/23/2012 3:59:32 PM
Hexachlorobutadiene	ND	10		µg/L	1	3/23/2012 3:59:32 PM
Hexachlorocyclopentadiene	ND	10		µg/L	1	3/23/2012 3:59:32 PM
Hexachloroethane	ND	10		µg/L	1	3/23/2012 3:59:32 PM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	3/23/2012 3:59:32 PM
Isophorone	ND	10		µg/L	1	3/23/2012 3:59:32 PM
1-Methylnaphthalene	ND	10		µg/L	1	3/23/2012 3:59:32 PM
2-Methylnaphthalene	ND	10		µg/L	1	3/23/2012 3:59:32 PM
2-Methylphenol	ND	10		µg/L	1	3/23/2012 3:59:32 PM
3+4-Methylphenol	ND	10		µg/L	1	3/23/2012 3:59:32 PM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	3/23/2012 3:59:32 PM
N-Nitrosodimethylamine	ND	10		µg/L	1	3/23/2012 3:59:32 PM
N-Nitrosodiphenylamine	ND	10		µg/L	1	3/23/2012 3:59:32 PM
Naphthalene	ND	10		µg/L	1	3/23/2012 3:59:32 PM
2-Nitroaniline	ND	10		µg/L	1	3/23/2012 3:59:32 PM
3-Nitroaniline	ND	10		µg/L	1	3/23/2012 3:59:32 PM
4-Nitroaniline	ND	20		µg/L	1	3/23/2012 3:59:32 PM
Nitrobenzene	ND	10		µg/L	1	3/23/2012 3:59:32 PM
2-Nitrophenol	ND	10		µg/L	1	3/23/2012 3:59:32 PM
4-Nitrophenol	ND	10		µg/L	1	3/23/2012 3:59:32 PM
Pentachlorophenol	ND	20		µg/L	1	3/23/2012 3:59:32 PM
Phenanthrene	ND	10		µg/L	1	3/23/2012 3:59:32 PM

Qualifiers: */X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Analytical Report

Lab Order 1203800

Date Reported: 4/18/2012

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Western Refining Southwest, Gallup**Client Sample ID:** KA-3**Project:** 1st QTR 2012 Groundwater Sampling**Collection Date:** 3/20/2012 11:25:00 AM**Lab ID:** 1203800-004**Matrix:** AQUEOUS**Received Date:** 3/21/2012 12:47:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Phenol	ND	10		µg/L	1	3/23/2012 3:59:32 PM
Pyrene	ND	10		µg/L	1	3/23/2012 3:59:32 PM
Pyridine	ND	10		µg/L	1	3/23/2012 3:59:32 PM
1,2,4-Trichlorobenzene	ND	10		µg/L	1	3/23/2012 3:59:32 PM
2,4,5-Trichlorophenol	ND	10		µg/L	1	3/23/2012 3:59:32 PM
2,4,6-Trichlorophenol	ND	10		µg/L	1	3/23/2012 3:59:32 PM
Surr: 2,4,6-Tribromophenol	109	18.1-138		%REC	1	3/23/2012 3:59:32 PM
Surr: 2-Fluorobiphenyl	98.3	25.9-101		%REC	1	3/23/2012 3:59:32 PM
Surr: 2-Fluorophenol	75.7	12.5-93.2		%REC	1	3/23/2012 3:59:32 PM
Surr: 4-Terphenyl-d14	97.8	29.5-112		%REC	1	3/23/2012 3:59:32 PM
Surr: Nitrobenzene-d5	101	20.5-120		%REC	1	3/23/2012 3:59:32 PM
Surr: Phenol-d5	51.3	11.5-73.2		%REC	1	3/23/2012 3:59:32 PM

Qualifiers: */X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203800

18-Apr-12

Client: Western Refining Southwest, Gallup
Project: 1st QTR 2012 Groundwater Sampling

Sample ID	MB	SampType:	MBLK	TestCode:	EPA Method 200.7: Dissolved Metals					
Client ID:	PBW	Batch ID:	R1888	RunNo:	1888					
Prep Date:		Analysis Date:	4/3/2012	SeqNo:	52722	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	ND	0.0020								
Cadmium	ND	0.0020								
Chromium	ND	0.0060								
Copper	ND	0.0060								
Iron	ND	0.020								
Lead	ND	0.0050								
Manganese	ND	0.0020								
Zinc	ND	0.010								

Sample ID	LCS	SampType:	LCS	TestCode:	EPA Method 200.7: Dissolved Metals					
Client ID:	LCSW	Batch ID:	R1888	RunNo:	1888					
Prep Date:		Analysis Date:	4/3/2012	SeqNo:	52723	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.49	0.0020	0.5000	0	97.3	85	115			
Cadmium	0.50	0.0020	0.5000	0	99.8	85	115			
Chromium	0.49	0.0060	0.5000	0	97.7	85	115			
Copper	0.49	0.0060	0.5000	0	97.7	85	115			
Iron	0.48	0.020	0.5000	0	95.8	85	115			
Lead	0.49	0.0050	0.5000	0	98.4	85	115			
Manganese	0.47	0.0020	0.5000	0	94.9	85	115			
Zinc	0.49	0.010	0.5000	0	97.9	85	115			

Sample ID	MB	SampType:	MBLK	TestCode:	EPA Method 200.7: Dissolved Metals					
Client ID:	PBW	Batch ID:	R1956	RunNo:	1956					
Prep Date:		Analysis Date:	4/6/2012	SeqNo:	55272	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	ND	0.0020								
Cadmium	ND	0.0020								
Calcium	ND	1.0								
Chromium	ND	0.0060								
Copper	ND	0.0060								
Iron	ND	0.020								
Lead	ND	0.0050								
Magnesium	ND	1.0								
Manganese	ND	0.0020								
Potassium	ND	1.0								
Silver	ND	0.0050								
Sodium	ND	1.0								
Zinc	ND	0.010								

Qualifiers:

*X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203800

18-Apr-12

Client: Western Refining Southwest, Gallup
Project: 1st QTR 2012 Groundwater Sampling

Sample ID	LCS		SampType:	LCS		TestCode:	EPA Method 200.7: Dissolved Metals			
Client ID:	LCSW		Batch ID:	R1956		RunNo:	1956			
Prep Date:			Analysis Date:	4/6/2012		SeqNo:	55273		Units: mg/L	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.49	0.0020	0.5000	0	97.7	85	115			
Cadmium	0.50	0.0020	0.5000	0	99.5	85	115			
Calcium	53	1.0	50.00	0	106	85	115			
Chromium	0.49	0.0060	0.5000	0	98.2	85	115			
Copper	0.49	0.0060	0.5000	0	97.9	85	115			
Iron	0.51	0.020	0.5000	0	101	85	115			
Lead	0.49	0.0050	0.5000	0	98.0	85	115			
Magnesium	53	1.0	50.00	0	106	85	115			
Manganese	0.48	0.0020	0.5000	0	95.9	85	115			
Potassium	51	1.0	50.00	0	102	85	115			
Silver	0.10	0.0050	0.1000	0	101	85	115			
Sodium	52	1.0	50.00	0	104	85	115			
Zinc	0.51	0.010	0.5000	0	101	85	115			

Sample ID	1203801-001BMS		SampType:	MS		TestCode:	EPA Method 200.7: Dissolved Metals			
Client ID:	BatchQC		Batch ID:	R1956		RunNo:	1956			
Prep Date:			Analysis Date:	4/6/2012		SeqNo:	55290		Units: mg/L	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.88	0.0020	0.5000	0.4210	92.5	70	130			
Cadmium	0.49	0.0020	0.5000	0	98.2	70	130			
Chromium	0.60	0.0060	0.5000	0.1110	97.1	70	130			
Copper	0.51	0.0060	0.5000	0	102	70	130			
Lead	0.47	0.0050	0.5000	0	94.7	70	130			
Silver	0.072	0.0050	0.1000	0	71.5	70	130			
Zinc	0.54	0.010	0.5000	0.03485	100	70	130			

Sample ID	1203801-001BMSD		SampType:	MSD		TestCode:	EPA Method 200.7: Dissolved Metals			
Client ID:	BatchQC		Batch ID:	R1956		RunNo:	1956			
Prep Date:			Analysis Date:	4/6/2012		SeqNo:	55291		Units: mg/L	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.87	0.0020	0.5000	0.4210	90.6	70	130	1.07	20	
Cadmium	0.48	0.0020	0.5000	0	96.5	70	130	1.71	20	
Chromium	0.59	0.0060	0.5000	0.1110	95.6	70	130	1.27	20	
Copper	0.50	0.0060	0.5000	0	100	70	130	1.80	20	
Lead	0.47	0.0050	0.5000	0	93.2	70	130	1.62	20	
Silver	0.053	0.0050	0.1000	0	52.7	70	130	30.4	20	SR
Zinc	0.53	0.010	0.5000	0.03485	99.1	70	130	0.925	20	

Qualifiers:

- | | | |
|--|----|--|
| Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND | Not Detected at the Reporting Limit |
| R RPD outside accepted recovery limits | RL | Reporting Detection Limit |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203800

18-Apr-12

Client: Western Refining Southwest, Gallup

Project: 1st QTR 2012 Groundwater Sampling

Sample ID	1203801-001BMS	SampType:	MS	TestCode:	EPA Method 200.7: Dissolved Metals					
Client ID:	BatchQC	Batch ID:	R1956	RunNo:	1956					
Prep Date:		Analysis Date:	4/6/2012	SeqNo:	55293	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Iron	3.3	0.10	2.500	0.9020	97.1	70	130			
Manganese	2.9	0.010	2.500	0.5988	92.6	70	130			

Sample ID	1203801-001BMSSD	SampType:	MSD	TestCode:	EPA Method 200.7: Dissolved Metals					
Client ID:	BatchQC	Batch ID:	R1956	RunNo:	1956					
Prep Date:		Analysis Date:	4/6/2012	SeqNo:	55294	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Iron	3.3	0.10	2.500	0.9020	94.8	70	130	1.72	20	
Manganese	2.9	0.010	2.500	0.5988	93.0	70	130	0.276	20	

Qualifiers:

*X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203800

18-Apr-12

Client: Western Refining Southwest, Gallup
Project: 1st QTR 2012 Groundwater Sampling

Sample ID	MB-1230		SampType:	MBLK		TestCode:	EPA Method 200.7: Total Metals			
Client ID:	PBW		Batch ID:	1230		RunNo:	1702			
Prep Date:	3/26/2012		Analysis Date:	3/26/2012		SeqNo:	48039		Units: mg/L	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	ND	0.0020								
Cadmium	ND	0.0020								
Chromium	ND	0.0060								
Copper	ND	0.0060								
Iron	ND	0.020								
Lead	ND	0.0050								
Manganese	ND	0.0020								
Silver	ND	0.0050								
Zinc	ND	0.010								

Sample ID	LCS-1230		SampType:	LCS		TestCode:	EPA Method 200.7: Total Metals			
Client ID:	LCSW		Batch ID:	1230		RunNo:	1702			
Prep Date:	3/26/2012		Analysis Date:	3/26/2012		SeqNo:	48040		Units: mg/L	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.49	0.0020	0.5000	0	98.7	85	115			
Cadmium	0.51	0.0020	0.5000	0.0004200	101	85	115			
Chromium	0.49	0.0060	0.5000	0.0006400	98.8	85	115			
Copper	0.50	0.0060	0.5000	0.001800	99.1	85	115			
Iron	0.48	0.020	0.5000	0	96.3	85	115			
Lead	0.49	0.0050	0.5000	0	98.4	85	115			
Manganese	0.48	0.0020	0.5000	0	96.2	85	115			
Silver	0.10	0.0050	0.1000	0	102	85	115			
Zinc	0.49	0.010	0.5000	0	97.7	85	115			

Qualifiers:

Value exceeds Maximum Contaminant Level.
Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203800

18-Apr-12

Client: Western Refining Southwest, Gallup
Project: 1st QTR 2012 Groundwater Sampling

Sample ID MB	SampType: MBLK	TestCode: EPA 200.8: Dissolved Metals								
Client ID: PBW	Batch ID: R2111	RunNo: 2111								
Prep Date:	Analysis Date: 4/12/2012	SeqNo: 58404 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Arsenic	ND	0.0010								
Uranium	ND	0.0010								

Sample ID LCS	SampType: LCS	TestCode: EPA 200.8: Dissolved Metals								
Client ID: LCSW	Batch ID: R2111	RunNo: 2111								
Prep Date:	Analysis Date: 4/12/2012	SeqNo: 58405 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Arsenic	0.025	0.0010	0.02500	0	99.4	85	115			
Uranium	0.024	0.0010	0.02500	0	95.9	85	115			

Sample ID 1203798-001DMS	SampType: MS	TestCode: EPA 200.8: Dissolved Metals								
Client ID: BatchQC	Batch ID: R2111	RunNo: 2111								
Prep Date:	Analysis Date: 4/12/2012	SeqNo: 58409 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Arsenic	0.028	0.0010	0.02500	0.003713	97.1	70	130			
Uranium	0.026	0.0010	0.02500	0.001260	97.5	70	130			

Sample ID 1203898-001EMS	SampType: MS	TestCode: EPA 200.8: Dissolved Metals								
Client ID: BatchQC	Batch ID: R2111	RunNo: 2111								
Prep Date:	Analysis Date: 4/12/2012	SeqNo: 58420 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Arsenic	0.026	0.0010	0.02500	0.001858	97.3	70	130			
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Sample ID MB	SampType: MBLK	TestCode: EPA 200.8: Dissolved Metals								
Client ID: PBW	Batch ID: R2139	RunNo: 2139								
Prep Date:	Analysis Date: 4/13/2012	SeqNo: 59445 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Selenium	ND	0.0010								
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Sample ID LCS	SampType: LCS	TestCode: EPA 200.8: Dissolved Metals								
Client ID: LCSW	Batch ID: R2139	RunNo: 2139								
Prep Date:	Analysis Date: 4/13/2012	SeqNo: 59446 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Selenium	0.025	0.0010	0.02500	0	100	85	115			
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Qualifiers:

*X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203800

18-Apr-12

Client: Western Refining Southwest, Gallup

Project: 1st QTR 2012 Groundwater Sampling

Sample ID	1203798-001DMS		SampType:	MS		TestCode:	EPA 200.8: Dissolved Metals				
Client ID:	BatchQC		Batch ID:	R2139		RunNo:	2139				
Prep Date:			Analysis Date:	4/13/2012		SeqNo:	59450		Units: mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Selenium	0.028	0.0010	0.02500	0.005266	91.2	70	130				

Sample ID	MB	SampType:	MBLK	TestCode:	EPA 200.8: Dissolved Metals					
Client ID:	PBW	Batch ID:	R2166	RunNo:	2166					
Prep Date:		Analysis Date:	4/16/2012	SeqNo:	60402	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Uranium	ND	0.0010								

Sample ID	LCS	SampType:	LCS	TestCode:	EPA 200.8: Dissolved Metals					
Client ID:	LCSW	Batch ID:	R2166	RunNo:	2166					
Prep Date:		Analysis Date:	4/16/2012	SeqNo:	60403	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Uranium	0.023	0.0010	0.02500	0	92.2	85	115			

Sample ID	MB	SampType:	MBLK	TestCode:	EPA 200.8: Dissolved Metals					
Client ID:	PBW	Batch ID:	R2167	RunNo:	2167					
Prep Date:		Analysis Date:	4/16/2012	SeqNo:	60429	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Uranium	ND	0.0010								

Sample ID	LCS	SampType:	LCS	TestCode:	EPA 200.8: Dissolved Metals					
Client ID:	LCSW	Batch ID:	R2167	RunNo:	2167					
Prep Date:		Analysis Date:	4/16/2012	SeqNo:	60430	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Uranium	0.024	0.0010	0.02500	0	96.5	85	115			

Sample ID	1203898-001EMS	SampType:	MS	TestCode:	EPA 200.8: Dissolved Metals					
Client ID:	BatchQC	Batch ID:	R2167	RunNo:	2167					
Prep Date:		Analysis Date:	4/16/2012	SeqNo:	60436	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Uranium	0.032	0.0010	0.02500	0.007582	97.1	70	130			

Qualifiers:

Value exceeds Maximum Contaminant Level.
Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203800

18-Apr-12

Client: Western Refining Southwest, Gallup
Project: 1st QTR 2012 Groundwater Sampling

Sample ID	MB-1230	SampType:	MBLK	TestCode: 200.8 ICPMS Metals:Total						
Client ID:	PBW	Batch ID:	1230	RunNo: 1930						
Prep Date:	3/26/2012	Analysis Date:	4/4/2012	SeqNo:	53748	Units: mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.0025								
Selenium	ND	0.0025								
Uranium	ND	0.0025								

Qualifiers:

*X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203800

18-Apr-12

Client: Western Refining Southwest, Gallup

Project: 1st QTR 2012 Groundwater Sampling

Sample ID	MB-1217	SampType:	MBLK	TestCode:	EPA Method 245.1: Mercury					
Client ID:	PBW	Batch ID:	1217	RunNo:	1649					
Prep Date:	3/23/2012	Analysis Date:	3/23/2012	SeqNo:	46664	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.00020								

Sample ID	LCS-1217	SampType:	LCS	TestCode:	EPA Method 245.1: Mercury					
Client ID:	LCSW	Batch ID:	1217	RunNo:	1649					
Prep Date:	3/23/2012	Analysis Date:	3/23/2012	SeqNo:	46665	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0050	0.00020	0.005000	0	101	80	120			

Sample ID	1203766-001EMS	SampType:	MS	TestCode:	EPA Method 245.1: Mercury					
Client ID:	BatchQC	Batch ID:	1217	RunNo:	1649					
Prep Date:	3/23/2012	Analysis Date:	3/23/2012	SeqNo:	46696	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0054	0.0010	0.005000	0	108	75	125			

Sample ID	1203766-001EMSD	SampType:	MSD	TestCode:	EPA Method 245.1: Mercury					
Client ID:	BatchQC	Batch ID:	1217	RunNo:	1649					
Prep Date:	3/23/2012	Analysis Date:	3/23/2012	SeqNo:	46697	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0055	0.0010	0.005000	0	111	75	125	2.60	20	

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Value above quantitation range
- Analyte detected below quantitation limits
- RPD outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit



*Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com*

April 18, 2012

Cheryl Johnson

Western Refining Southwest, Gallup

Rt. 3 Box 7

Gallup, NM 87301

TEL: (505) 722-0231

FAX (505) 722-0210

RE: 1st QTR 2012 Groundwater Sampling

OrderNo.: 1203801

Dear Cheryl Johnson:

Hall Environmental Analysis Laboratory received 3 sample(s) on 3/21/2012 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1203801

Date Reported: 4/18/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: East LDU

Project: 1st QTR 2012 Groundwater Sampling

Collection Date: 3/20/2012 10:30:00 AM

Lab ID: 1203801-001

Matrix: AQUEOUS

Received Date: 3/21/2012 12:47:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: JPM
Diesel Range Organics (DRO)	30	1.0		mg/L	1	3/22/2012 4:33:32 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	3/22/2012 4:33:32 PM
Surr: DNOP	115	61.3-164		%REC	1	3/22/2012 4:33:32 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	31	10		mg/L	200	3/28/2012 6:14:40 PM
Surr: BFB	93.4	69.3-120		%REC	200	3/28/2012 6:14:40 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	500		µg/L	200	3/28/2012 6:14:40 PM
Benzene	1,400	200		µg/L	200	3/28/2012 6:14:40 PM
Toluene	3,100	200		µg/L	200	3/28/2012 6:14:40 PM
Ethylbenzene	560	200		µg/L	200	3/28/2012 6:14:40 PM
Xylenes, Total	8,000	400		µg/L	200	3/28/2012 6:14:40 PM
Surr: 4-Bromofluorobenzene	100	55-140		%REC	200	3/28/2012 6:14:40 PM
EPA METHOD 200.7: DISSOLVED METALS						Analyst: ELS
Barium	0.42	0.0020		mg/L	1	4/6/2012 7:58:55 AM
Cadmium	ND	0.0020		mg/L	1	4/6/2012 7:58:55 AM
Chromium	0.11	0.0060	*	mg/L	1	4/6/2012 7:58:55 AM
Copper	ND	0.0060		mg/L	1	4/6/2012 7:58:55 AM
Iron	0.90	0.10	*	mg/L	5	4/6/2012 8:05:54 AM
Lead	ND	0.0050		mg/L	1	4/6/2012 7:58:55 AM
Manganese	0.60	0.010	*	mg/L	5	4/6/2012 8:05:54 AM
Silver	ND	0.0050		mg/L	1	4/6/2012 7:58:55 AM
Zinc	0.035	0.010		mg/L	1	4/6/2012 7:58:55 AM
EPA METHOD 200.7: TOTAL METALS						Analyst: RAG
Barium	0.44	0.0020		mg/L	1	3/29/2012 3:04:56 PM
Cadmium	ND	0.0020		mg/L	1	3/29/2012 3:04:56 PM
Chromium	0.11	0.0060	*	mg/L	1	3/29/2012 3:04:56 PM
Copper	ND	0.0060		mg/L	1	3/29/2012 3:04:56 PM
Iron	2.3	0.10	*	mg/L	5	3/29/2012 3:09:23 PM
Lead	ND	0.0050		mg/L	1	3/29/2012 3:04:56 PM
Manganese	0.58	0.0020	*	mg/L	1	3/29/2012 3:04:56 PM
Silver	ND	0.0050		mg/L	1	3/29/2012 3:04:56 PM
Zinc	0.064	0.010		mg/L	1	3/29/2012 3:04:56 PM
EPA 200.8: DISSOLVED METALS						Analyst: SNV
Arsenic	ND	0.0050		mg/L	5	4/12/2012 7:01:53 PM
Selenium	ND	0.0050		mg/L	5	4/13/2012 3:05:19 PM
Uranium	ND	0.0050		mg/L	5	4/16/2012 4:20:52 PM
200.8 ICPMS METALS:TOTAL						Analyst: SNV
Arsenic	0.0032	0.0025		mg/L	2.5	4/4/2012 12:32:36 PM

Qualifiers:

- * / X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

Analytical Report

Lab Order 1203801

Date Reported: 4/18/2012

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Western Refining Southwest, Gallup**Client Sample ID:** East LDU**Project:** 1st QTR 2012 Groundwater Sampling**Collection Date:** 3/20/2012 10:30:00 AM**Lab ID:** 1203801-001**Matrix:** AQUEOUS**Received Date:** 3/21/2012 12:47:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
200.8 ICPMS METALS:TOTAL						Analyst: SNV
Selenium	0.0026	0.0025		mg/L	2.5	4/4/2012 12:32:36 PM
Uranium	ND	0.0025		mg/L	2.5	4/4/2012 12:32:36 PM
EPA METHOD 245.1: MERCURY						Analyst: JLF
Mercury	ND	0.00020		mg/L	1	3/23/2012 4:13:20 PM

Qualifiers:

- * / X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1203801

Date Reported: 4/18/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: West LDU

Project: 1st QTR 2012 Groundwater Sampling

Collection Date: 3/20/2012 10:40:00 AM

Lab ID: 1203801-002

Matrix: AQUEOUS

Received Date: 3/21/2012 12:47:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: JMP
Diesel Range Organics (DRO)	6.9	1.0		mg/L	1	3/22/2012 4:58:55 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	3/22/2012 4:58:55 PM
Surr: DNOP	113	61.3-164		%REC	1	3/22/2012 4:58:55 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	42	2.5		mg/L	50	3/28/2012 6:44:55 PM
Surr: BFB	99.7	69.3-120		%REC	50	3/28/2012 6:44:55 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	120		µg/L	50	3/28/2012 6:44:55 PM
Benzene	1,600	50		µg/L	50	3/28/2012 6:44:55 PM
Toluene	6,000	100		µg/L	100	3/29/2012 6:54:14 PM
Ethylbenzene	690	50		µg/L	50	3/28/2012 6:44:55 PM
Xylenes, Total	7,600	100		µg/L	50	3/28/2012 6:44:55 PM
Surr: 4-Bromofluorobenzene	112	55-140		%REC	50	3/28/2012 6:44:55 PM
EPA METHOD 200.7: DISSOLVED METALS						Analyst: ELS
Barium	0.21	0.0020		mg/L	1	4/6/2012 8:24:22 AM
Cadmium	ND	0.0020		mg/L	1	4/6/2012 8:24:22 AM
Chromium	0.013	0.0060		mg/L	1	4/6/2012 8:24:22 AM
Copper	ND	0.0060		mg/L	1	4/6/2012 8:24:22 AM
Iron	0.61	0.020	*	mg/L	1	4/6/2012 8:24:22 AM
Lead	ND	0.0050		mg/L	1	4/6/2012 8:24:22 AM
Manganese	0.22	0.0020	*	mg/L	1	4/6/2012 8:24:22 AM
Silver	ND	0.0050		mg/L	1	4/6/2012 8:24:22 AM
Zinc	0.020	0.010		mg/L	1	4/6/2012 8:24:22 AM
EPA METHOD 200.7: TOTAL METALS						Analyst: RAG
Barium	0.21	0.0020		mg/L	1	3/29/2012 3:12:27 PM
Cadmium	ND	0.0020		mg/L	1	3/29/2012 3:12:27 PM
Chromium	0.011	0.0060		mg/L	1	3/29/2012 3:12:27 PM
Copper	ND	0.0060		mg/L	1	3/29/2012 3:12:27 PM
Iron	1.3	0.10	*	mg/L	5	3/29/2012 3:15:08 PM
Lead	ND	0.0050		mg/L	1	3/29/2012 3:12:27 PM
Manganese	0.22	0.0020	*	mg/L	1	3/29/2012 3:12:27 PM
Silver	ND	0.0050		mg/L	1	3/29/2012 3:12:27 PM
Zinc	0.014	0.010		mg/L	1	3/29/2012 3:12:27 PM
EPA 200.8: DISSOLVED METALS						Analyst: SNV
Arsenic	0.0018	0.0010		mg/L	1	4/12/2012 7:03:45 PM
Selenium	0.0038	0.0010		mg/L	1	4/13/2012 3:07:11 PM
Uranium	ND	0.0010		mg/L	1	4/16/2012 4:22:44 PM
200.8 ICPMS METALS:TOTAL						Analyst: SNV
Arsenic	0.0028	0.0025		mg/L	2.5	4/4/2012 12:36:32 PM

Qualifiers: * / X Value exceeds Maximum Contaminant Level.
 E Value above quantitation range
 J Analyte detected below quantitation limits
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 RL Reporting Detection Limit

Analytical Report

Lab Order 1203801

Date Reported: 4/18/2012

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Western Refining Southwest, Gallup**Client Sample ID:** West LDU**Project:** 1st QTR 2012 Groundwater Sampling**Collection Date:** 3/20/2012 10:40:00 AM**Lab ID:** 1203801-002**Matrix:** AQUEOUS**Received Date:** 3/21/2012 12:47:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
200.8 ICPMS METALS:TOTAL						Analyst: SNV
Selenium	0.0035	0.0025		mg/L	2.5	4/4/2012 12:36:32 PM
Uranium	ND	0.0025		mg/L	2.5	4/4/2012 12:36:32 PM
EPA METHOD 245.1: MERCURY						Analyst: JLF
Mercury	ND	0.00020		mg/L	1	3/23/2012 4:15:14 PM

Qualifiers: */X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.**Analytical Report**

Lab Order 1203801

Date Reported: 4/18/2012

CLIENT: Western Refining Southwest, Gallup**Client Sample ID:** Oil Sump LDU**Project:** 1st QTR 2012 Groundwater Sampling**Collection Date:** 3/20/2012 10:10:00 AM**Lab ID:** 1203801-003**Matrix:** AQUEOUS**Received Date:** 3/21/2012 12:47:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: JMP
Diesel Range Organics (DRO)	42	1.0		mg/L	1	3/22/2012 5:24:15 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	3/22/2012 5:24:15 PM
Surr: DNOP	116	61.3-164		%REC	1	3/22/2012 5:24:15 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	45	10		mg/L	200	3/28/2012 11:16:26 PM
Surr: BFB	96.8	69.3-120		%REC	200	3/28/2012 11:16:26 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	500		µg/L	200	3/28/2012 11:16:26 PM
Benzene	2,000	200		µg/L	200	3/28/2012 11:16:26 PM
Toluene	8,100	200		µg/L	200	3/28/2012 11:16:26 PM
Ethylbenzene	890	200		µg/L	200	3/28/2012 11:16:26 PM
Xylenes, Total	6,900	400		µg/L	200	3/28/2012 11:16:26 PM
Surr: 4-Bromofluorobenzene	105	55-140		%REC	200	3/28/2012 11:16:26 PM
EPA METHOD 200.7: DISSOLVED METALS						Analyst: ELS
Barium	0.23	0.0020		mg/L	1	4/6/2012 8:30:11 AM
Cadmium	ND	0.0020		mg/L	1	4/6/2012 8:30:11 AM
Chromium	0.047	0.0060		mg/L	1	4/6/2012 8:30:11 AM
Copper	ND	0.0060		mg/L	1	4/6/2012 8:30:11 AM
Iron	0.33	0.020	*	mg/L	1	4/6/2012 8:30:11 AM
Lead	ND	0.0050		mg/L	1	4/6/2012 8:30:11 AM
Manganese	0.79	0.0020	*	mg/L	1	4/6/2012 8:30:11 AM
Silver	ND	0.0050		mg/L	1	4/6/2012 8:30:11 AM
Zinc	0.024	0.010		mg/L	1	4/6/2012 8:30:11 AM
EPA METHOD 200.7: TOTAL METALS						Analyst: RAG
Barium	0.52	0.0020		mg/L	1	3/29/2012 3:18:10 PM
Cadmium	ND	0.0020		mg/L	1	3/29/2012 3:18:10 PM
Chromium	0.048	0.0060		mg/L	1	3/29/2012 3:18:10 PM
Copper	0.0093	0.0060		mg/L	1	3/29/2012 3:18:10 PM
Iron	4.5	0.10	*	mg/L	5	3/29/2012 3:29:57 PM
Lead	0.0065	0.0050		mg/L	1	3/29/2012 3:18:10 PM
Manganese	0.82	0.0020	*	mg/L	1	3/29/2012 3:18:10 PM
Silver	ND	0.0050		mg/L	1	3/29/2012 3:18:10 PM
Zinc	0.22	0.010		mg/L	1	3/29/2012 3:18:10 PM
EPA 200.8: DISSOLVED METALS						Analyst: SNV
Arsenic	0.0070	0.0050		mg/L	5	4/12/2012 7:14:34 PM
Selenium	0.020	0.0050		mg/L	5	4/16/2012 4:24:36 PM
Uranium	ND	0.0050		mg/L	5	4/16/2012 4:24:36 PM
200.8 ICPMS METALS:TOTAL						Analyst: SNV
Arsenic	0.020	0.0025	*	mg/L	2.5	4/4/2012 12:40:28 PM

Qualifiers: * / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

Analytical Report

Lab Order 1203801

Date Reported: 4/18/2012

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Western Refining Southwest, Gallup**Client Sample ID:** Oil Sump LDU**Project:** 1st QTR 2012 Groundwater Sampling**Collection Date:** 3/20/2012 10:10:00 AM**Lab ID:** 1203801-003**Matrix:** AQUEOUS**Received Date:** 3/21/2012 12:47:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
200.8 ICPMS METALS:TOTAL						Analyst: SNV
Selenium	0.012	0.0025		mg/L	2.5	4/4/2012 12:40:28 PM
Uranium	ND	0.0025		mg/L	2.5	4/4/2012 12:40:28 PM
EPA METHOD 245.1: MERCURY						Analyst: JLF
Mercury	0.0017	0.00020		mg/L	1	3/23/2012 4:17:06 PM

Qualifiers: */X Value exceeds Maximum Contaminant Level.
 E Value above quantitation range
 J Analyte detected below quantitation limits
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203801

18-Apr-12

Client: Western Refining Southwest, Gallup
Project: 1st QTR 2012 Groundwater Sampling

Sample ID MB	SampType: MBLK	TestCode: EPA Method 200.7: Dissolved Metals								
Client ID: PBW	Batch ID: R1956	RunNo: 1956								
Prep Date:	Analysis Date: 4/6/2012	SeqNo: 55272 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	ND	0.0020								
Cadmium	ND	0.0020								
Chromium	ND	0.0060								
Copper	ND	0.0060								
Iron	ND	0.020								
Lead	ND	0.0050								
Manganese	ND	0.0020								
Silver	ND	0.0050								
Zinc	ND	0.010								

Sample ID LCS	SampType: LCS	TestCode: EPA Method 200.7: Dissolved Metals								
Client ID: LCSW	Batch ID: R1956	RunNo: 1956								
Prep Date:	Analysis Date: 4/6/2012	SeqNo: 55273 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.49	0.0020	0.5000	0	97.7	85	115			
Cadmium	0.50	0.0020	0.5000	0	99.5	85	115			
Chromium	0.49	0.0060	0.5000	0	98.2	85	115			
Copper	0.49	0.0060	0.5000	0	97.9	85	115			
Iron	0.51	0.020	0.5000	0	101	85	115			
Lead	0.49	0.0050	0.5000	0	98.0	85	115			
Manganese	0.48	0.0020	0.5000	0	95.9	85	115			
Silver	0.10	0.0050	0.1000	0	101	85	115			
Zinc	0.51	0.010	0.5000	0	101	85	115			

Sample ID 1203801-001BMS	SampType: MS	TestCode: EPA Method 200.7: Dissolved Metals								
Client ID: East LDU	Batch ID: R1956	RunNo: 1956								
Prep Date:	Analysis Date: 4/6/2012	SeqNo: 55290 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.88	0.0020	0.5000	0.4210	92.5	70	130			
Cadmium	0.49	0.0020	0.5000	0	98.2	70	130			
Chromium	0.60	0.0060	0.5000	0.1110	97.1	70	130			
Copper	0.51	0.0060	0.5000	0	102	70	130			
Lead	0.47	0.0050	0.5000	0	94.7	70	130			
Silver	0.072	0.0050	0.1000	0	71.5	70	130			
Zinc	0.54	0.010	0.5000	0.03485	100	70	130			

Qualifiers:

*X Value exceeds Maximum Contaminant Level.
 E Value above quantitation range
 J Analyte detected below quantitation limits
 R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203801

18-Apr-12

Client: Western Refining Southwest, Gallup
Project: 1st QTR 2012 Groundwater Sampling

Sample ID	1203801-001BMSD	SampType:	MSD	TestCode:	EPA Method 200.7: Dissolved Metals					
Client ID:	East LDU	Batch ID:	R1956	RunNo:	1956					
Prep Date:		Analysis Date:	4/6/2012	SeqNo:	55291	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.87	0.0020	0.5000	0.4210	90.6	70	130	1.07	20	
Cadmium	0.48	0.0020	0.5000	0	96.5	70	130	1.71	20	
Chromium	0.59	0.0060	0.5000	0.1110	95.6	70	130	1.27	20	
Copper	0.50	0.0060	0.5000	0	100	70	130	1.80	20	
Lead	0.47	0.0050	0.5000	0	93.2	70	130	1.62	20	
Silver	0.053	0.0050	0.1000	0	52.7	70	130	30.4	20	SR
Zinc	0.53	0.010	0.5000	0.03485	99.1	70	130	0.925	20	

Sample ID	1203801-001BMS	SampType:	MS	TestCode:	EPA Method 200.7: Dissolved Metals					
Client ID:	East LDU	Batch ID:	R1956	RunNo:	1956					
Prep Date:		Analysis Date:	4/6/2012	SeqNo:	55293	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Iron	3.3	0.10	2.500	0.9020	97.1	70	130			
Manganese	2.9	0.010	2.500	0.5988	92.6	70	130			

Sample ID	1203801-001BMSD	SampType:	MSD	TestCode:	EPA Method 200.7: Dissolved Metals					
Client ID:	East LDU	Batch ID:	R1956	RunNo:	1956					
Prep Date:		Analysis Date:	4/6/2012	SeqNo:	55294	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Iron	3.3	0.10	2.500	0.9020	94.8	70	130	1.72	20	
Manganese	2.9	0.010	2.500	0.5988	93.0	70	130	0.276	20	

Qualifiers:

Value exceeds Maximum Contaminant Level.
Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203801

18-Apr-12

Client: Western Refining Southwest, Gallup
Project: 1st QTR 2012 Groundwater Sampling

Sample ID	MB-1231		SampType: MBLK		TestCode: EPA Method 200.7: Total Metals					
Client ID:	PBW		Batch ID: 1231		RunNo: 1760					
Prep Date:	3/26/2012		Analysis Date: 3/28/2012		SeqNo: 49464		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Cadmium	ND	0.0020								
Chromium	ND	0.0060								
Lead	ND	0.0050								
Manganese	ND	0.0020								

Sample ID	LCS-1231		SampType: LCS		TestCode: EPA Method 200.7: Total Metals					
Client ID:	LCSW		Batch ID: 1231		RunNo: 1760					
Prep Date:	3/26/2012		Analysis Date: 3/28/2012		SeqNo: 49465		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Cadmium	0.50	0.0020	0.5000	0	100	85	115			
Chromium	0.50	0.0060	0.5000	0	99.3	85	115			
Lead	0.49	0.0050	0.5000	0	97.1	85	115			
Manganese	0.48	0.0020	0.5000	0	95.8	85	115			

Sample ID	MB-1231		SampType:	MBLK		TestCode:	EPA Method 200.7: Total Metals				
Client ID:	PBW		Batch ID:	1231		RunNo:	1800				
Prep Date:	3/26/2012		Analysis Date:	3/29/2012		SeqNo:	50461		Units: mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Barium	ND	0.0020									
Copper	ND	0.0060									
Iron	ND	0.020									
Silver	ND	0.0050									
Zinc	ND	0.010									

Sample ID	LCS-1231		SampType: LCS		TestCode: EPA Method 200.7: Total Metals					
Client ID:	LCSW		Batch ID: 1231		RunNo: 1800					
Prep Date:	3/26/2012		Analysis Date: 3/29/2012		SeqNo: 50462		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.47	0.0020	0.5000	0	94.6	85	115			
Copper	0.47	0.0060	0.5000	0	94.6	85	115			
Iron	0.47	0.020	0.5000	0	93.8	85	115			
Silver	0.097	0.0050	0.1000	0	96.7	85	115			
Zinc	0.47	0.010	0.5000	0	94.1	85	115			

Qualifiers:

*X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203801

18-Apr-12

Client: Western Refining Southwest, Gallup
Project: 1st QTR 2012 Groundwater Sampling

Sample ID	MB	SampType:	MBLK	TestCode:	EPA 200.8: Dissolved Metals					
Client ID:	PBW	Batch ID:	R2111	RunNo:	2111					
Prep Date:		Analysis Date:	4/12/2012	SeqNo:	58404	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.0010								

Sample ID	LCS	SampType:	LCS	TestCode:	EPA 200.8: Dissolved Metals					
Client ID:	LCSW	Batch ID:	R2111	RunNo:	2111					
Prep Date:		Analysis Date:	4/12/2012	SeqNo:	58405	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.025	0.0010	0.02500	0	99.4	85	115			

Sample ID	1203798-001DMS	SampType:	MS	TestCode:	EPA 200.8: Dissolved Metals					
Client ID:	BatchQC	Batch ID:	R2111	RunNo:	2111					
Prep Date:		Analysis Date:	4/12/2012	SeqNo:	58409	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.028	0.0010	0.02500	0.003713	97.1	70	130			

Sample ID	1203898-001EMS	SampType:	MS	TestCode:	EPA 200.8: Dissolved Metals					
Client ID:	BatchQC	Batch ID:	R2111	RunNo:	2111					
Prep Date:		Analysis Date:	4/12/2012	SeqNo:	58420	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.026	0.0010	0.02500	0.001858	97.3	70	130			

Sample ID	MB	SampType:	MBLK	TestCode:	EPA 200.8: Dissolved Metals					
Client ID:	PBW	Batch ID:	R2139	RunNo:	2139					
Prep Date:		Analysis Date:	4/13/2012	SeqNo:	59445	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Selenium	ND	0.0010								

Sample ID	LCS	SampType:	LCS	TestCode:	EPA 200.8: Dissolved Metals					
Client ID:	LCSW	Batch ID:	R2139	RunNo:	2139					
Prep Date:		Analysis Date:	4/13/2012	SeqNo:	59446	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Selenium	0.025	0.0010	0.02500	0	100	85	115			

Sample ID	1203798-001DMS	SampType:	MS	TestCode:	EPA 200.8: Dissolved Metals					
Client ID:	BatchQC	Batch ID:	R2139	RunNo:	2139					
Prep Date:		Analysis Date:	4/13/2012	SeqNo:	59450	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Selenium	0.028	0.0010	0.02500	0.005266	91.2	70	130			

Qualifiers:

- | | | |
|--|----|--|
| Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| Analyte detected below quantitation limits | ND | Not Detected at the Reporting Limit |
| RPD outside accepted recovery limits | RL | Reporting Detection Limit |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203801

18-Apr-12

Client: Western Refining Southwest, Gallup
Project: 1st QTR 2012 Groundwater Sampling

Sample ID	MB	SampType:	MBLK	TestCode:	EPA 200.8: Dissolved Metals					
Client ID:	PBW	Batch ID:	R2167	RunNo:	2167					
Prep Date:		Analysis Date:	4/16/2012	SeqNo:	60429	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Selenium	ND	0.0010								
Uranium	ND	0.0010								

Sample ID	LCS	SampType:	LCS	TestCode:	EPA 200.8: Dissolved Metals					
Client ID:	LCSW	Batch ID:	R2167	RunNo:	2167					
Prep Date:		Analysis Date:	4/16/2012	SeqNo:	60430	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Selenium	0.027	0.0010	0.02500	0	107	85	115			
Uranium	0.024	0.0010	0.02500	0	96.5	85	115			

Sample ID	1203898-001EMS	SampType:	MS	TestCode:	EPA 200.8: Dissolved Metals					
Client ID:	BatchQC	Batch ID:	R2167	RunNo:	2167					
Prep Date:		Analysis Date:	4/16/2012	SeqNo:	60436	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Selenium	0.025	0.0010	0.02500	0.0007840	97.5	70	130			
Uranium	0.032	0.0010	0.02500	0.007582	97.1	70	130			

Qualifiers:

*X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203801

18-Apr-12

Client: Western Refining Southwest, Gallup
Project: 1st QTR 2012 Groundwater Sampling

Sample ID	MB-1231	SampType:	MBLK	TestCode:	200.8 ICPMS Metals:Total					
Client ID:	PBW	Batch ID:	1231	RunNo:	1906					
Prep Date:	3/26/2012	Analysis Date:	4/4/2012	SeqNo:	53644	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.0025								
Selenium	ND	0.0025								
Uranium	ND	0.0025								

Qualifiers:

Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
Value above quantitation range	H	Holding times for preparation or analysis exceeded
Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
RPD outside accepted recovery limits	RL	Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203801

18-Apr-12

Client: Western Refining Southwest, Gallup
Project: 1st QTR 2012 Groundwater Sampling

Sample ID	MB-1217	SampType:	MBLK	TestCode:	EPA Method 245.1: Mercury					
Client ID:	PBW	Batch ID:	1217	RunNo:	1649					
Prep Date:	3/23/2012	Analysis Date:	3/23/2012	SeqNo:	46664	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.00020								

Sample ID	LCS-1217	SampType:	LCS	TestCode:	EPA Method 245.1: Mercury					
Client ID:	LCSW	Batch ID:	1217	RunNo:	1649					
Prep Date:	3/23/2012	Analysis Date:	3/23/2012	SeqNo:	46665	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0050	0.00020	0.005000	0	101	80	120			

Sample ID	1203766-001EMS	SampType:	MS	TestCode:	EPA Method 245.1: Mercury					
Client ID:	BatchQC	Batch ID:	1217	RunNo:	1649					
Prep Date:	3/23/2012	Analysis Date:	3/23/2012	SeqNo:	46696	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0054	0.0010	0.005000	0	108	75	125			

Sample ID	1203766-001EMSD	SampType:	MSD	TestCode:	EPA Method 245.1: Mercury					
Client ID:	BatchQC	Batch ID:	1217	RunNo:	1649					
Prep Date:	3/23/2012	Analysis Date:	3/23/2012	SeqNo:	46697	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0055	0.0010	0.005000	0	111	75	125	2.60	20	

Qualifiers:

*X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203801

18-Apr-12

Client: Western Refining Southwest, Gallup
Project: 1st QTR 2012 Groundwater Sampling

Sample ID MB-1190	SampType: MBLK	TestCode: EPA Method 8015B: Diesel Range								
Client ID: PBW	Batch ID: 1190	RunNo: 1609								
Prep Date: 3/22/2012	Analysis Date: 3/22/2012	SeqNo: 45452 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	1.0								
Motor Oil Range Organics (MRO)	ND	5.0								
Surr: DNOP	1.0		1.000		102	61.3	164			

Sample ID LCS-1190	SampType: LCS	TestCode: EPA Method 8015B: Diesel Range								
Client ID: LCSW	Batch ID: 1190	RunNo: 1609								
Prep Date: 3/22/2012	Analysis Date: 3/22/2012	SeqNo: 45460 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	4.9	1.0	5.000	0	97.9	74	157			
Surr: DNOP	0.50		0.5000		101	61.3	164			

Sample ID LCSD-1190	SampType: LCSD	TestCode: EPA Method 8015B: Diesel Range								
Client ID: LCSS02	Batch ID: 1190	RunNo: 1609								
Prep Date: 3/22/2012	Analysis Date: 3/22/2012	SeqNo: 45474 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	5.4	1.0	5.000	0	109	74	157	10.5	23	
Surr: DNOP	0.54		0.5000		108	61.3	164	0	0	

Qualifiers:

- | | | |
|--|----|--|
| Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| Analyte detected below quantitation limits | ND | Not Detected at the Reporting Limit |
| RPD outside accepted recovery limits | RL | Reporting Detection Limit |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203801

18-Apr-12

Client: Western Refining Southwest, Gallup
Project: 1st QTR 2012 Groundwater Sampling

Sample ID	5ML RB	SampType:	MBLK	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	PBW	Batch ID:	R1744	RunNo:	1744					
Prep Date:		Analysis Date:	3/27/2012	SeqNo:	49064	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	19		20.00		93.2	69.3	120			

Sample ID	2.5UG GRO LCS	SampType:	LCS	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	LCSW	Batch ID:	R1744	RunNo:	1744					
Prep Date:		Analysis Date:	3/27/2012	SeqNo:	49065	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	16		20.00		79.3	69.3	120			

Sample ID	1203798-002AMS	SampType:	MS	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	BatchQC	Batch ID:	R1744	RunNo:	1744					
Prep Date:		Analysis Date:	3/27/2012	SeqNo:	49127	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	9,700		10,000		97.0	69.3	120			

Sample ID	1203798-002AMSD	SampType:	MSD	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	BatchQC	Batch ID:	R1744	RunNo:	1744					
Prep Date:		Analysis Date:	3/27/2012	SeqNo:	49128	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	8,200		10,000		81.8	69.3	120	0	0	

Sample ID	5ML RB	SampType:	MBLK	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	PBW	Batch ID:	R1772	RunNo:	1772					
Prep Date:		Analysis Date:	3/28/2012	SeqNo:	49768	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050								
Surr: BFB	15		20.00		74.5	69.3	120			

Sample ID	2.5UG GRO LCS	SampType:	LCS	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	LCSW	Batch ID:	R1772	RunNo:	1772					
Prep Date:		Analysis Date:	3/28/2012	SeqNo:	49769	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.58	0.050	0.5000	0	117	101	123			
Surr: BFB	20		20.00		98.3	69.3	120			

Qualifiers:

* / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203801

18-Apr-12

Client: Western Refining Southwest, Gallup
Project: 1st QTR 2012 Groundwater Sampling

Sample ID	1203858-001AMS	SampType:	MS	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	BatchQC	Batch ID:	R1772	RunNo:	1772					
Prep Date:		Analysis Date:	3/28/2012	SeqNo:	49780	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.73	0.050	0.5000	0.1362	119	75.4	121			
Surr: BFB	19		20.00		97.3	69.3	120			

Sample ID	1203858-001AMSD	SampType:	MSD	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	BatchQC	Batch ID:	R1772	RunNo:	1772					
Prep Date:		Analysis Date:	3/28/2012	SeqNo:	49781	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.74	0.050	0.5000	0.1362	122	75.4	121	1.68	10.5	S
Surr: BFB	20		20.00		99.4	69.3	120	0	0	

Qualifiers:

- | | | |
|--|----|--|
| Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| Analyte detected below quantitation limits | ND | Not Detected at the Reporting Limit |
| RPD outside accepted recovery limits | RL | Reporting Detection Limit |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203801

18-Apr-12

Client: Western Refining Southwest, Gallup

Project: 1st QTR 2012 Groundwater Sampling

Sample ID	5ML RB	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBW	Batch ID:	R1745	RunNo:	1745					
Prep Date:		Analysis Date:	3/27/2012	SeqNo:	49132	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	19		20.00		95.1	55	140			

Sample ID	100NG BTEX LCS	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSW	Batch ID:	R1745	RunNo:	1745					
Prep Date:		Analysis Date:	3/27/2012	SeqNo:	49133	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	18		20.00		91.8	55	140			

Sample ID	1203740-001AMS	SampType:	MS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	BatchQC	Batch ID:	R1745	RunNo:	1745					
Prep Date:		Analysis Date:	3/27/2012	SeqNo:	49148	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	220		200.0		110	55	140			

Sample ID	1203740-001AMSD	SampType:	MSD	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	BatchQC	Batch ID:	R1745	RunNo:	1745					
Prep Date:		Analysis Date:	3/28/2012	SeqNo:	49149	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	220		200.0		111	55	140	0	0	

Sample ID	5ML RB	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBW	Batch ID:	R1774	RunNo:	1774					
Prep Date:		Analysis Date:	3/28/2012	SeqNo:	49788	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	2.5								
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	2.0								
Surr: 4-Bromofluorobenzene	15		20.00		76.7	55	140			

Sample ID	100NG BTEX LCS	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSW	Batch ID:	R1774	RunNo:	1774					
Prep Date:		Analysis Date:	3/28/2012	SeqNo:	49789	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	20	2.5	20.00	0	101	50.5	158			
Benzene	21	1.0	20.00	0	105	80	120			

Qualifiers:

*X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203801

18-Apr-12

Client: Western Refining Southwest, Gallup
Project: 1st QTR 2012 Groundwater Sampling

Sample ID	100NG BTEX LCS	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSW	Batch ID:	R1774	RunNo:	1774					
Prep Date:		Analysis Date:	3/28/2012	SeqNo:	49789	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Toluene	23	1.0	20.00	0	113	80	120			
Ethylbenzene	23	1.0	20.00	0	113	80	120			
Xylenes, Total	68	2.0	60.00	0	113	80	120			
Surr: 4-Bromofluorobenzene	22		20.00		111	55	140			

Sample ID	1203995-001AMS	SampType:	MS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	BatchQC	Batch ID:	R1774	RunNo:	1774					
Prep Date:		Analysis Date:	3/28/2012	SeqNo:	49812	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	1,000	120	1,000	0	104	58	139			
Benzene	1,200	50	1,000	156.1	103	70.1	118			
Toluene	1,400	50	1,000	329.6	105	72.3	117			
Ethylbenzene	1,100	50	1,000	28.60	105	73.5	117			
Xylenes, Total	3,400	100	3,000	193.2	106	73.1	119			
Surr: 4-Bromofluorobenzene	1,100		1,000		105	55	140			

Sample ID: 1203995-001AMSD		SampType: MSD		TestCode: EPA Method 8021B: Volatiles						
Client ID: BatchQC		Batch ID: R1774		RunNo: 1774						
Prep Date:		Analysis Date: 3/28/2012		SeqNo: 49814		Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	1,100	120	1,000	0	107	58	139	3.19	15.2	
Benzene	1,200	50	1,000	156.1	104	70.1	118	0.747	16.4	
Toluene	1,400	50	1,000	329.6	108	72.3	117	2.22	13.9	
Ethylbenzene	1,100	50	1,000	28.60	108	73.5	117	2.51	13.5	
Xylenes, Total	3,500	100	3,000	193.2	109	73.1	119	2.51	12.9	
Surr: 4-Bromofluorobenzene	900		1,000		90.1	55	140	0	0	

Sample ID	5ML RB	SampType:	MBLK		TestCode:	EPA Method 8021B: Volatiles				
Client ID:	PBW	Batch ID:	R1804		RunNo:	1804				
Prep Date:		Analysis Date:	3/29/2012		SeqNo:	50456	Units:	µg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Toluene	ND	1.0								
Surr: 4-Bromofluorobenzene	20		20.00		101	55	140			

Sample ID	100NG BTEX LCS	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSW	Batch ID:	R1804	RunNo:	1804					
Prep Date:		Analysis Date:	3/29/2012	SeqNo:	50457	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

- | | | |
|--|----|--|
| Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| Analyte detected below quantitation limits | ND | Not Detected at the Reporting Limit |
| RPD outside accepted recovery limits | RL | Reporting Detection Limit |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203801

18-Apr-12

Client: Western Refining Southwest, Gallup

Project: 1st QTR 2012 Groundwater Sampling

Sample ID	100NG BTEX LCS	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSW	Batch ID:	R1804	RunNo:	1804					
Prep Date:		Analysis Date:	3/29/2012	SeqNo:	50457	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Toluene	22	1.0	20.00	0	112	80	120			
Surr: 4-Bromofluorobenzene	18		20.00		88.5	55	140			

Sample ID	1203909-002AMS		SampType:	MS		TestCode:	EPA Method 8021B: Volatiles				
Client ID:	BatchQC		Batch ID:	R1804		RunNo:	1804				
Prep Date:			Analysis Date:	3/29/2012		SeqNo:	50478		Units:	µg/L	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	

Toluene	42	2.0	40.00	0	106	72.3	117			
Surr: 4-Bromofluorobenzene	42		40.00		104	55	140			

Sample ID	1203909-002AMSD		SampType:	MSD		TestCode:	EPA Method 8021B: Volatiles				
Client ID:	BatchQC		Batch ID:	R1804		RunNo:	1804				
Prep Date:			Analysis Date:	3/29/2012		SeqNo:	50479		Units:	µg/L	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	

Toluene	42	2.0	40.00	0	105	72.3	117	0.171	13.9	
Surr: 4-Bromofluorobenzene	35		40.00		86.6	55	140	0	0	

Qualifiers:

* / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

Sample Log-In Check List

Client Name: Western Refining Gallup Work Order Number: 1203801
Received by/date: [Signature] 03/21/12
Logged By: Ashley Gallegos 3/21/2012 12:47:00 PM [Signature]
Completed By: Ashley Gallegos 3/21/2012 4:02:18 PM [Signature]
Reviewed By: AT 03/22/12

Chain of Custody

1. Were seals intact? Yes ☐ No ☐ Not Present ☒
2. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
3. How was the sample delivered? Client

Log In

4. Coolers are present? (see 19. for cooler specific information) Yes ☒ No ☐ NA ☐
5. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
6. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
7. Sample(s) in proper container(s)? Yes ☒ No ☐
8. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
9. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
10. Was preservative added to bottles? Yes ☒ No ☐ NA ☐
11. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
12. Were any sample containers received broken? Yes ☐ No ☒
13. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
14. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
15. Is it clear what analyses were requested? Yes ☒ No ☐
16. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved bottles checked for pH: 6
(2 or >12 unless noted)
Adjusted? YES
Checked by: [Signature]

Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:		Date:	
By Whom:		Via:	☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:			
Client Instructions:			

18. Additional remarks:

19. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Client: Wes Refining						
☒ Standard ☐ Rush Project Name 1st QTR 2012 Groundwater Sampling						
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) _____						
Project Manager: Cheryl Johnson						
Sampler: T. Fleener / S. Ulkebe						
On Ice ☒ Yes ☒ No ☐						
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.
3-20-12	1030	W	East LDU	Various	Various	-001
	↓		West LDU	↓	↓	-002
	↓		Oil Sump LDU	↓	↓	-003
Date: 3/21/12	Time: 0830	Relinquished by: <i>[Signature]</i>		Received by: <i>[Signature]</i>	Date	Time
Date: 3-21-12	Time:	Relinquished by:		Received by: <i>[Signature]</i>	Date	Time
					03/21/12	1247

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this

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
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com*

April 23, 2012

Cheryl Johnson

Western Refining Southwest, Gallup

Rt. 3 Box 7

Gallup, NM 87301

TEL: (505) 722-0231

FAX (505) 722-0210

RE: 1st QTR 2012 Groundwater Sampling

OrderNo.: 1203898

Dear Cheryl Johnson:

Hall Environmental Analysis Laboratory received 2 sample(s) on 3/23/2012 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1203898

Date Reported: 4/23/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: OW-50

Project: 1st QTR 2012 Groundwater Sampling

Collection Date: 3/22/2012 1:50:00 PM

Lab ID: 1203898-001

Matrix: AQUEOUS

Received Date: 3/23/2012 11:07:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: JMP
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	3/26/2012 1:09:06 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	3/26/2012 1:09:06 PM
Surr: DNOP	112	61.3-164		%REC	1	3/26/2012 1:09:06 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	3/30/2012 8:28:13 PM
Surr: BFB	71.3	69.3-120		%REC	1	3/30/2012 8:28:13 PM
EPA METHOD 300.0: ANIONS						Analyst: BRM
Fluoride	0.59	0.50		mg/L	5	3/28/2012 6:51:56 AM
Chloride	27	10		mg/L	20	3/24/2012 2:07:16 AM
Nitrogen, Nitrite (As N)	ND	0.10		mg/L	1	3/24/2012 1:54:52 AM
Bromide	0.22	0.10		mg/L	1	3/24/2012 1:54:52 AM
Nitrogen, Nitrate (As N)	0.15	0.10		mg/L	1	3/24/2012 1:54:52 AM
Phosphorus, Orthophosphate (As P)	ND	0.50		mg/L	1	3/24/2012 1:54:52 AM
Sulfate	150	10		mg/L	20	3/24/2012 2:07:16 AM
EPA METHOD 200.7: DISSOLVED METALS						Analyst: RAG
Barium	0.041	0.0020		mg/L	1	4/5/2012 5:37:09 PM
Cadmium	ND	0.0020		mg/L	1	4/5/2012 5:37:09 PM
Calcium	22	1.0		mg/L	1	4/5/2012 5:37:09 PM
Chromium	ND	0.0060		mg/L	1	4/5/2012 5:37:09 PM
Copper	ND	0.0060		mg/L	1	4/5/2012 5:37:09 PM
Iron	ND	0.020		mg/L	1	4/5/2012 5:37:09 PM
Lead	ND	0.0050		mg/L	1	4/5/2012 5:37:09 PM
Magnesium	3.8	1.0		mg/L	1	4/5/2012 5:37:09 PM
Manganese	0.082	0.0020	*	mg/L	1	4/5/2012 5:37:09 PM
Potassium	ND	1.0		mg/L	1	4/5/2012 5:37:09 PM
Silver	ND	0.0050		mg/L	1	4/5/2012 5:37:09 PM
Sodium	250	5.0		mg/L	5	4/5/2012 5:40:36 PM
Zinc	0.039	0.010		mg/L	1	4/5/2012 5:37:09 PM
EPA METHOD 200.7: TOTAL METALS						Analyst: RAG
Barium	0.029	0.0020		mg/L	1	3/30/2012 7:10:08 PM
Cadmium	ND	0.0020		mg/L	1	3/30/2012 7:10:08 PM
Chromium	ND	0.0060		mg/L	1	4/2/2012 6:21:44 PM
Copper	ND	0.0060		mg/L	1	3/30/2012 7:10:08 PM
Iron	0.31	0.020	*	mg/L	1	3/30/2012 7:10:08 PM
Lead	ND	0.0050		mg/L	1	3/30/2012 7:10:08 PM
Manganese	0.035	0.0020		mg/L	1	3/30/2012 7:10:08 PM
Silver	ND	0.0050		mg/L	1	3/30/2012 7:10:08 PM
Zinc	ND	0.010		mg/L	1	4/2/2012 6:21:44 PM
EPA 200.8: DISSOLVED METALS						Analyst: SNV

Qualifiers:

- *X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1203898

Date Reported: 4/23/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: OW-50

Project: 1st QTR 2012 Groundwater Sampling

Collection Date: 3/22/2012 1:50:00 PM

Lab ID: 1203898-001

Matrix: AQUEOUS

Received Date: 3/23/2012 11:07:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA 200.8: DISSOLVED METALS						Analyst: SNV
Arsenic	0.0019	0.0010		mg/L	1	4/12/2012 7:18:18 PM
Selenium	ND	0.0010		mg/L	1	4/16/2012 4:26:28 PM
Uranium	0.0076	0.0010		mg/L	1	4/16/2012 4:26:28 PM
200.8 ICPMS METALS:TOTAL						Analyst: SNV
Arsenic	ND	0.0025		mg/L	2.5	4/4/2012 12:56:12 PM
Selenium	ND	0.0025		mg/L	2.5	4/4/2012 12:56:12 PM
Uranium	0.011	0.0025		mg/L	2.5	4/4/2012 12:56:12 PM
EPA METHOD 245.1: MERCURY						Analyst: JLF
Mercury	ND	0.00020		mg/L	1	3/29/2012 3:40:42 PM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	10		µg/L	1	4/2/2012 1:43:03 PM
Acenaphthylene	ND	10		µg/L	1	4/2/2012 1:43:03 PM
Aniline	ND	10		µg/L	1	4/2/2012 1:43:03 PM
Anthracene	ND	10		µg/L	1	4/2/2012 1:43:03 PM
Azobenzene	ND	10		µg/L	1	4/2/2012 1:43:03 PM
Benz(a)anthracene	ND	10		µg/L	1	4/2/2012 1:43:03 PM
Benzo(a)pyrene	ND	10		µg/L	1	4/2/2012 1:43:03 PM
Benzo(b)fluoranthene	ND	10		µg/L	1	4/2/2012 1:43:03 PM
Benzo(g,h,i)perylene	ND	10		µg/L	1	4/2/2012 1:43:03 PM
Benzo(k)fluoranthene	ND	10		µg/L	1	4/2/2012 1:43:03 PM
Benzoic acid	ND	20		µg/L	1	4/2/2012 1:43:03 PM
Benzyl alcohol	ND	10		µg/L	1	4/2/2012 1:43:03 PM
Bis(2-chloroethoxy)methane	ND	10		µg/L	1	4/2/2012 1:43:03 PM
Bis(2-chloroethyl)ether	ND	10		µg/L	1	4/2/2012 1:43:03 PM
Bis(2-chloroisopropyl)ether	ND	10		µg/L	1	4/2/2012 1:43:03 PM
Bis(2-ethylhexyl)phthalate	ND	10		µg/L	1	4/2/2012 1:43:03 PM
4-Bromophenyl phenyl ether	ND	10		µg/L	1	4/2/2012 1:43:03 PM
Butyl benzyl phthalate	ND	10		µg/L	1	4/2/2012 1:43:03 PM
Carbazole	ND	10		µg/L	1	4/2/2012 1:43:03 PM
4-Chloro-3-methylphenol	ND	10		µg/L	1	4/2/2012 1:43:03 PM
4-Chloroaniline	ND	10		µg/L	1	4/2/2012 1:43:03 PM
2-Chloronaphthalene	ND	10		µg/L	1	4/2/2012 1:43:03 PM
2-Chlorophenol	ND	10		µg/L	1	4/2/2012 1:43:03 PM
4-Chlorophenyl phenyl ether	ND	10		µg/L	1	4/2/2012 1:43:03 PM
Chrysene	ND	10		µg/L	1	4/2/2012 1:43:03 PM
Di-n-butyl phthalate	ND	10		µg/L	1	4/2/2012 1:43:03 PM
Di-n-octyl phthalate	ND	10		µg/L	1	4/2/2012 1:43:03 PM
Dibenz(a,h)anthracene	ND	10		µg/L	1	4/2/2012 1:43:03 PM
Dibenzofuran	ND	10		µg/L	1	4/2/2012 1:43:03 PM
1,2-Dichlorobenzene	ND	10		µg/L	1	4/2/2012 1:43:03 PM

Qualifiers: *X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

Analytical Report

Lab Order 1203898

Date Reported: 4/23/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: OW-50

Project: 1st QTR 2012 Groundwater Sampling

Collection Date: 3/22/2012 1:50:00 PM

Lab ID: 1203898-001

Matrix: AQUEOUS

Received Date: 3/23/2012 11:07:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
1,3-Dichlorobenzene	ND	10		µg/L	1	4/2/2012 1:43:03 PM
1,4-Dichlorobenzene	ND	10		µg/L	1	4/2/2012 1:43:03 PM
3,3'-Dichlorobenzidine	ND	10		µg/L	1	4/2/2012 1:43:03 PM
Diethyl phthalate	ND	10		µg/L	1	4/2/2012 1:43:03 PM
Dimethyl phthalate	ND	10		µg/L	1	4/2/2012 1:43:03 PM
2,4-Dichlorophenol	ND	20		µg/L	1	4/2/2012 1:43:03 PM
2,4-Dimethylphenol	ND	10		µg/L	1	4/2/2012 1:43:03 PM
4,6-Dinitro-2-methylphenol	ND	20		µg/L	1	4/2/2012 1:43:03 PM
2,4-Dinitrophenol	ND	20		µg/L	1	4/2/2012 1:43:03 PM
2,4-Dinitrotoluene	ND	10		µg/L	1	4/2/2012 1:43:03 PM
2,6-Dinitrotoluene	ND	10		µg/L	1	4/2/2012 1:43:03 PM
Fluoranthene	ND	10		µg/L	1	4/2/2012 1:43:03 PM
Fluorene	ND	10		µg/L	1	4/2/2012 1:43:03 PM
Hexachlorobenzene	ND	10		µg/L	1	4/2/2012 1:43:03 PM
Hexachlorobutadiene	ND	10		µg/L	1	4/2/2012 1:43:03 PM
Hexachlorocyclopentadiene	ND	10		µg/L	1	4/2/2012 1:43:03 PM
Hexachloroethane	ND	10		µg/L	1	4/2/2012 1:43:03 PM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	4/2/2012 1:43:03 PM
Isophorone	ND	10		µg/L	1	4/2/2012 1:43:03 PM
1-Methylnaphthalene	ND	10		µg/L	1	4/2/2012 1:43:03 PM
2-Methylnaphthalene	ND	10		µg/L	1	4/2/2012 1:43:03 PM
2-Methylphenol	ND	10		µg/L	1	4/2/2012 1:43:03 PM
3+4-Methylphenol	ND	10		µg/L	1	4/2/2012 1:43:03 PM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	4/2/2012 1:43:03 PM
N-Nitrosodimethylamine	ND	10		µg/L	1	4/2/2012 1:43:03 PM
N-Nitrosodiphenylamine	ND	10		µg/L	1	4/2/2012 1:43:03 PM
Naphthalene	ND	10		µg/L	1	4/2/2012 1:43:03 PM
2-Nitroaniline	ND	10		µg/L	1	4/2/2012 1:43:03 PM
3-Nitroaniline	ND	10		µg/L	1	4/2/2012 1:43:03 PM
4-Nitroaniline	ND	20		µg/L	1	4/2/2012 1:43:03 PM
Nitrobenzene	ND	10		µg/L	1	4/2/2012 1:43:03 PM
2-Nitrophenol	ND	10		µg/L	1	4/2/2012 1:43:03 PM
4-Nitrophenol	ND	10		µg/L	1	4/2/2012 1:43:03 PM
Pentachlorophenol	ND	20		µg/L	1	4/2/2012 1:43:03 PM
Phenanthrene	ND	10		µg/L	1	4/2/2012 1:43:03 PM
Phenol	ND	10		µg/L	1	4/2/2012 1:43:03 PM
Pyrene	ND	10		µg/L	1	4/2/2012 1:43:03 PM
Pyridine	ND	10		µg/L	1	4/2/2012 1:43:03 PM
1,2,4-Trichlorobenzene	ND	10		µg/L	1	4/2/2012 1:43:03 PM
2,4,5-Trichlorophenol	ND	10		µg/L	1	4/2/2012 1:43:03 PM
2,4,6-Trichlorophenol	ND	10		µg/L	1	4/2/2012 1:43:03 PM
Surr: 2,4,6-Tribromophenol	68.8	18.1-138		%REC	1	4/2/2012 1:43:03 PM

Qualifiers: */X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1203898

Date Reported: 4/23/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: OW-50

Project: 1st QTR 2012 Groundwater Sampling

Collection Date: 3/22/2012 1:50:00 PM

Lab ID: 1203898-001

Matrix: AQUEOUS

Received Date: 3/23/2012 11:07:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Surr: 2-Fluorobiphenyl	58.5	25.9-101		%REC	1	4/2/2012 1:43:03 PM
Surr: 2-Fluorophenol	47.7	12.5-93.2		%REC	1	4/2/2012 1:43:03 PM
Surr: 4-Terphenyl-d14	61.9	29.5-112		%REC	1	4/2/2012 1:43:03 PM
Surr: Nitrobenzene-d5	61.3	20.5-120		%REC	1	4/2/2012 1:43:03 PM
Surr: Phenol-d5	35.0	11.5-73.2		%REC	1	4/2/2012 1:43:03 PM
EPA METHOD 8260B: VOLATILES						Analyst: RAA
Benzene	ND	1.0		µg/L	1	3/24/2012 6:08:07 AM
Toluene	ND	1.0		µg/L	1	3/24/2012 6:08:07 AM
Ethylbenzene	ND	1.0		µg/L	1	3/24/2012 6:08:07 AM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	3/24/2012 6:08:07 AM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	3/24/2012 6:08:07 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	3/24/2012 6:08:07 AM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	3/24/2012 6:08:07 AM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	3/24/2012 6:08:07 AM
Naphthalene	ND	2.0		µg/L	1	3/24/2012 6:08:07 AM
1-Methylnaphthalene	ND	4.0		µg/L	1	3/24/2012 6:08:07 AM
2-Methylnaphthalene	ND	4.0		µg/L	1	3/24/2012 6:08:07 AM
Acetone	ND	10		µg/L	1	3/24/2012 6:08:07 AM
Bromobenzene	ND	1.0		µg/L	1	3/24/2012 6:08:07 AM
Bromodichloromethane	ND	1.0		µg/L	1	3/24/2012 6:08:07 AM
Bromoform	ND	1.0		µg/L	1	3/24/2012 6:08:07 AM
Bromomethane	ND	3.0		µg/L	1	3/24/2012 6:08:07 AM
2-Butanone	ND	10		µg/L	1	3/24/2012 6:08:07 AM
Carbon disulfide	ND	10		µg/L	1	3/24/2012 6:08:07 AM
Carbon Tetrachloride	ND	1.0		µg/L	1	3/24/2012 6:08:07 AM
Chlorobenzene	ND	1.0		µg/L	1	3/24/2012 6:08:07 AM
Chloroethane	ND	2.0		µg/L	1	3/24/2012 6:08:07 AM
Chloroform	ND	1.0		µg/L	1	3/24/2012 6:08:07 AM
Chloromethane	ND	3.0		µg/L	1	3/24/2012 6:08:07 AM
2-Chlorotoluene	ND	1.0		µg/L	1	3/24/2012 6:08:07 AM
4-Chlorotoluene	ND	1.0		µg/L	1	3/24/2012 6:08:07 AM
cis-1,2-DCE	ND	1.0		µg/L	1	3/24/2012 6:08:07 AM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	3/24/2012 6:08:07 AM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	3/24/2012 6:08:07 AM
Dibromochloromethane	ND	1.0		µg/L	1	3/24/2012 6:08:07 AM
Dibromomethane	ND	1.0		µg/L	1	3/24/2012 6:08:07 AM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	3/24/2012 6:08:07 AM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	3/24/2012 6:08:07 AM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	3/24/2012 6:08:07 AM
Dichlorodifluoromethane	ND	1.0		µg/L	1	3/24/2012 6:08:07 AM
1,1-Dichloroethane	ND	1.0		µg/L	1	3/24/2012 6:08:07 AM

Qualifiers: *X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.**Analytical Report**

Lab Order 1203898

Date Reported: 4/23/2012

CLIENT: Western Refining Southwest, Gallup**Client Sample ID:** OW-50**Project:** 1st QTR 2012 Groundwater Sampling**Collection Date:** 3/22/2012 1:50:00 PM**Lab ID:** 1203898-001**Matrix:** AQUEOUS**Received Date:** 3/23/2012 11:07:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
1,1-Dichloroethene	ND	1.0		µg/L	1	3/24/2012 6:08:07 AM
1,2-Dichloropropane	ND	1.0		µg/L	1	3/24/2012 6:08:07 AM
1,3-Dichloropropane	ND	1.0		µg/L	1	3/24/2012 6:08:07 AM
2,2-Dichloropropane	ND	2.0		µg/L	1	3/24/2012 6:08:07 AM
1,1-Dichloropropene	ND	1.0		µg/L	1	3/24/2012 6:08:07 AM
Hexachlorobutadiene	ND	1.0		µg/L	1	3/24/2012 6:08:07 AM
2-Hexanone	ND	10		µg/L	1	3/24/2012 6:08:07 AM
Isopropylbenzene	ND	1.0		µg/L	1	3/24/2012 6:08:07 AM
4-Isopropyltoluene	ND	1.0		µg/L	1	3/24/2012 6:08:07 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	3/24/2012 6:08:07 AM
Methylene Chloride	ND	3.0		µg/L	1	3/24/2012 6:08:07 AM
n-Butylbenzene	ND	1.0		µg/L	1	3/24/2012 6:08:07 AM
n-Propylbenzene	ND	1.0		µg/L	1	3/24/2012 6:08:07 AM
sec-Butylbenzene	ND	1.0		µg/L	1	3/24/2012 6:08:07 AM
Styrene	ND	1.0		µg/L	1	3/24/2012 6:08:07 AM
tert-Butylbenzene	ND	1.0		µg/L	1	3/24/2012 6:08:07 AM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	3/24/2012 6:08:07 AM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	3/24/2012 6:08:07 AM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	3/24/2012 6:08:07 AM
trans-1,2-DCE	ND	1.0		µg/L	1	3/24/2012 6:08:07 AM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	3/24/2012 6:08:07 AM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	3/24/2012 6:08:07 AM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	3/24/2012 6:08:07 AM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	3/24/2012 6:08:07 AM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	3/24/2012 6:08:07 AM
Trichloroethene (TCE)	ND	1.0		µg/L	1	3/24/2012 6:08:07 AM
Trichlorofluoromethane	ND	1.0		µg/L	1	3/24/2012 6:08:07 AM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	3/24/2012 6:08:07 AM
Vinyl chloride	ND	1.0		µg/L	1	3/24/2012 6:08:07 AM
Xylenes, Total	ND	1.5		µg/L	1	3/24/2012 6:08:07 AM
Surr: 1,2-Dichloroethane-d4	89.6	70-130		%REC	1	3/24/2012 6:08:07 AM
Surr: 4-Bromofluorobenzene	90.1	70-130		%REC	1	3/24/2012 6:08:07 AM
Surr: Dibromofluoromethane	79.2	69.8-130		%REC	1	3/24/2012 6:08:07 AM
Surr: Toluene-d8	89.0	70-130		%REC	1	3/24/2012 6:08:07 AM
EPA 120.1: SPECIFIC CONDUCTANCE						Analyst: JLF
Conductivity	1,000	0.010		µmhos/cm	1	3/27/2012 11:49:45 AM
SM4500-H+B: PH						Analyst: JLF
pH	8.35	1.68	H	pH units	1	3/27/2012 11:49:45 AM

Qualifiers: * / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

Analytical Report

Lab Order 1203898

Date Reported: 4/23/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: OW-52

Project: 1st QTR 2012 Groundwater Sampling

Collection Date: 3/22/2012 2:55:00 PM

Lab ID: 1203898-002

Matrix: AQUEOUS

Received Date: 3/23/2012 11:07:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: JMP
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	3/26/2012 1:34:29 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	3/26/2012 1:34:29 PM
Surr: DNOP	110	61.3-164		%REC	1	3/26/2012 1:34:29 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	3/30/2012 10:59:16 PM
Surr: BFB	87.5	69.3-120		%REC	1	3/30/2012 10:59:16 PM
EPA METHOD 300.0: ANIONS						Analyst: BRM
Fluoride	0.56	0.10		mg/L	1	3/24/2012 2:19:40 AM
Chloride	26	10		mg/L	20	3/24/2012 2:32:05 AM
Nitrogen, Nitrite (As N)	ND	0.10		mg/L	1	3/24/2012 2:19:40 AM
Bromide	0.17	0.10		mg/L	1	3/24/2012 2:19:40 AM
Nitrogen, Nitrate (As N)	ND	0.10		mg/L	1	3/24/2012 2:19:40 AM
Phosphorus, Orthophosphate (As P)	ND	0.50		mg/L	1	3/24/2012 2:19:40 AM
Sulfate	130	10		mg/L	20	3/24/2012 2:32:05 AM
EPA METHOD 200.7: DISSOLVED METALS						Analyst: RAG
Barium	0.025	0.0020		mg/L	1	4/5/2012 5:43:37 PM
Cadmium	ND	0.0020		mg/L	1	4/5/2012 5:43:37 PM
Calcium	4.2	1.0		mg/L	1	4/5/2012 5:43:37 PM
Chromium	ND	0.0060		mg/L	1	4/5/2012 5:43:37 PM
Copper	ND	0.0060		mg/L	1	4/5/2012 5:43:37 PM
Iron	0.071	0.020		mg/L	1	4/5/2012 5:43:37 PM
Lead	ND	0.0050		mg/L	1	4/5/2012 5:43:37 PM
Magnesium	ND	1.0		mg/L	1	4/5/2012 5:43:37 PM
Manganese	0.030	0.0020		mg/L	1	4/5/2012 5:43:37 PM
Potassium	1.2	1.0		mg/L	1	4/5/2012 5:43:37 PM
Silver	ND	0.0050		mg/L	1	4/5/2012 5:43:37 PM
Sodium	250	5.0		mg/L	5	4/5/2012 5:46:56 PM
Zinc	0.084	0.010		mg/L	1	4/5/2012 5:43:37 PM
EPA METHOD 200.7: TOTAL METALS						Analyst: RAG
Barium	0.072	0.0020		mg/L	1	3/29/2012 3:58:23 PM
Cadmium	ND	0.0020		mg/L	1	3/29/2012 3:58:23 PM
Chromium	ND	0.0060		mg/L	1	3/29/2012 3:58:23 PM
Copper	ND	0.0060		mg/L	1	3/29/2012 3:58:23 PM
Iron	0.52	0.020	*	mg/L	1	3/29/2012 3:58:23 PM
Lead	ND	0.0050		mg/L	1	3/29/2012 3:58:23 PM
Manganese	0.094	0.0020	*	mg/L	1	3/29/2012 3:58:23 PM
Silver	ND	0.0050		mg/L	1	3/29/2012 3:58:23 PM
Zinc	ND	0.010		mg/L	1	4/2/2012 6:28:33 PM
EPA 200.8: DISSOLVED METALS						Analyst: SNV

Qualifiers: */X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.**Analytical Report**Lab Order **1203898**Date Reported: **4/23/2012****CLIENT:** Western Refining Southwest, Gallup**Client Sample ID:** OW-52**Project:** 1st QTR 2012 Groundwater Sampling**Collection Date:** 3/22/2012 2:55:00 PM**Lab ID:** 1203898-002**Matrix:** AQUEOUS**Received Date:** 3/23/2012 11:07:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA 200.8: DISSOLVED METALS						Analyst: SNV
Arsenic	ND	0.0010		mg/L	1	4/12/2012 7:22:02 PM
Selenium	ND	0.0010		mg/L	1	4/16/2012 4:30:13 PM
Uranium	0.010	0.0010		mg/L	1	4/16/2012 4:30:13 PM
200.8 ICPMS METALS:TOTAL						Analyst: SNV
Arsenic	ND	0.0025		mg/L	2.5	4/4/2012 1:00:08 PM
Selenium	ND	0.0025		mg/L	2.5	4/4/2012 1:00:08 PM
Uranium	0.0076	0.0025		mg/L	2.5	4/4/2012 1:00:08 PM
EPA METHOD 245.1: MERCURY						Analyst: JLF
Mercury	ND	0.00020		mg/L	1	3/29/2012 3:42:30 PM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	10		µg/L	1	4/2/2012 2:12:21 PM
Acenaphthylene	ND	10		µg/L	1	4/2/2012 2:12:21 PM
Aniline	ND	10		µg/L	1	4/2/2012 2:12:21 PM
Anthracene	ND	10		µg/L	1	4/2/2012 2:12:21 PM
Azobenzene	ND	10		µg/L	1	4/2/2012 2:12:21 PM
Benz(a)anthracene	ND	10		µg/L	1	4/2/2012 2:12:21 PM
Benzo(a)pyrene	ND	10		µg/L	1	4/2/2012 2:12:21 PM
Benzo(b)fluoranthene	ND	10		µg/L	1	4/2/2012 2:12:21 PM
Benzo(g,h,i)perylene	ND	10		µg/L	1	4/2/2012 2:12:21 PM
Benzo(k)fluoranthene	ND	10		µg/L	1	4/2/2012 2:12:21 PM
Benzoic acid	ND	20		µg/L	1	4/2/2012 2:12:21 PM
Benzyl alcohol	ND	10		µg/L	1	4/2/2012 2:12:21 PM
Bis(2-chloroethoxy)methane	ND	10		µg/L	1	4/2/2012 2:12:21 PM
Bis(2-chloroethyl)ether	ND	10		µg/L	1	4/2/2012 2:12:21 PM
Bis(2-chloroisopropyl)ether	ND	10		µg/L	1	4/2/2012 2:12:21 PM
Bis(2-ethylhexyl)phthalate	ND	10		µg/L	1	4/2/2012 2:12:21 PM
4-Bromophenyl phenyl ether	ND	10		µg/L	1	4/2/2012 2:12:21 PM
Butyl benzyl phthalate	ND	10		µg/L	1	4/2/2012 2:12:21 PM
Carbazole	ND	10		µg/L	1	4/2/2012 2:12:21 PM
4-Chloro-3-methylphenol	ND	10		µg/L	1	4/2/2012 2:12:21 PM
4-Chloroaniline	ND	10		µg/L	1	4/2/2012 2:12:21 PM
2-Chloronaphthalene	ND	10		µg/L	1	4/2/2012 2:12:21 PM
2-Chlorophenol	ND	10		µg/L	1	4/2/2012 2:12:21 PM
4-Chlorophenyl phenyl ether	ND	10		µg/L	1	4/2/2012 2:12:21 PM
Chrysene	ND	10		µg/L	1	4/2/2012 2:12:21 PM
Di-n-butyl phthalate	ND	10		µg/L	1	4/2/2012 2:12:21 PM
Di-n-octyl phthalate	ND	10		µg/L	1	4/2/2012 2:12:21 PM
Dibenz(a,h)anthracene	ND	10		µg/L	1	4/2/2012 2:12:21 PM
Dibenzofuran	ND	10		µg/L	1	4/2/2012 2:12:21 PM
1,2-Dichlorobenzene	ND	10		µg/L	1	4/2/2012 2:12:21 PM

Qualifiers: * / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1203898

Date Reported: 4/23/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: OW-52

Project: 1st QTR 2012 Groundwater Sampling

Collection Date: 3/22/2012 2:55:00 PM

Lab ID: 1203898-002

Matrix: AQUEOUS

Received Date: 3/23/2012 11:07:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
1,3-Dichlorobenzene	ND	10		µg/L	1	4/2/2012 2:12:21 PM
1,4-Dichlorobenzene	ND	10		µg/L	1	4/2/2012 2:12:21 PM
3,3'-Dichlorobenzidine	ND	10		µg/L	1	4/2/2012 2:12:21 PM
Diethyl phthalate	ND	10		µg/L	1	4/2/2012 2:12:21 PM
Dimethyl phthalate	ND	10		µg/L	1	4/2/2012 2:12:21 PM
2,4-Dichlorophenol	ND	20		µg/L	1	4/2/2012 2:12:21 PM
2,4-Dimethylphenol	ND	10		µg/L	1	4/2/2012 2:12:21 PM
4,6-Dinitro-2-methylphenol	ND	20		µg/L	1	4/2/2012 2:12:21 PM
2,4-Dinitrophenol	ND	20		µg/L	1	4/2/2012 2:12:21 PM
2,4-Dinitrotoluene	ND	10		µg/L	1	4/2/2012 2:12:21 PM
2,6-Dinitrotoluene	ND	10		µg/L	1	4/2/2012 2:12:21 PM
Fluoranthene	ND	10		µg/L	1	4/2/2012 2:12:21 PM
Fluorene	ND	10		µg/L	1	4/2/2012 2:12:21 PM
Hexachlorobenzene	ND	10		µg/L	1	4/2/2012 2:12:21 PM
Hexachlorobutadiene	ND	10		µg/L	1	4/2/2012 2:12:21 PM
Hexachlorocyclopentadiene	ND	10		µg/L	1	4/2/2012 2:12:21 PM
Hexachloroethane	ND	10		µg/L	1	4/2/2012 2:12:21 PM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	4/2/2012 2:12:21 PM
Isophorone	ND	10		µg/L	1	4/2/2012 2:12:21 PM
1-Methylnaphthalene	ND	10		µg/L	1	4/2/2012 2:12:21 PM
2-Methylnaphthalene	ND	10		µg/L	1	4/2/2012 2:12:21 PM
2-Methylphenol	ND	10		µg/L	1	4/2/2012 2:12:21 PM
3+4-Methylphenol	ND	10		µg/L	1	4/2/2012 2:12:21 PM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	4/2/2012 2:12:21 PM
N-Nitrosodimethylamine	ND	10		µg/L	1	4/2/2012 2:12:21 PM
N-Nitrosodiphenylamine	ND	10		µg/L	1	4/2/2012 2:12:21 PM
Naphthalene	ND	10		µg/L	1	4/2/2012 2:12:21 PM
2-Nitroaniline	ND	10		µg/L	1	4/2/2012 2:12:21 PM
3-Nitroaniline	ND	10		µg/L	1	4/2/2012 2:12:21 PM
4-Nitroaniline	ND	20		µg/L	1	4/2/2012 2:12:21 PM
Nitrobenzene	ND	10		µg/L	1	4/2/2012 2:12:21 PM
2-Nitrophenol	ND	10		µg/L	1	4/2/2012 2:12:21 PM
4-Nitrophenol	ND	10		µg/L	1	4/2/2012 2:12:21 PM
Pentachlorophenol	ND	20		µg/L	1	4/2/2012 2:12:21 PM
Phenanthrene	ND	10		µg/L	1	4/2/2012 2:12:21 PM
Phenol	ND	10		µg/L	1	4/2/2012 2:12:21 PM
Pyrene	ND	10		µg/L	1	4/2/2012 2:12:21 PM
Pyridine	ND	10		µg/L	1	4/2/2012 2:12:21 PM
1,2,4-Trichlorobenzene	ND	10		µg/L	1	4/2/2012 2:12:21 PM
2,4,5-Trichlorophenol	ND	10		µg/L	1	4/2/2012 2:12:21 PM
2,4,6-Trichlorophenol	ND	10		µg/L	1	4/2/2012 2:12:21 PM
Surr: 2,4,6-Tribromophenol	70.8	18.1-138		%REC	1	4/2/2012 2:12:21 PM

Qualifiers:

- *X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

Analytical Report

Lab Order 1203898

Date Reported: 4/23/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: OW-52

Project: 1st QTR 2012 Groundwater Sampling

Collection Date: 3/22/2012 2:55:00 PM

Lab ID: 1203898-002

Matrix: AQUEOUS

Received Date: 3/23/2012 11:07:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Surr: 2-Fluorobiphenyl	58.5	25.9-101		%REC	1	4/2/2012 2:12:21 PM
Surr: 2-Fluorophenol	46.7	12.5-93.2		%REC	1	4/2/2012 2:12:21 PM
Surr: 4-Terphenyl-d14	61.9	29.5-112		%REC	1	4/2/2012 2:12:21 PM
Surr: Nitrobenzene-d5	60.2	20.5-120		%REC	1	4/2/2012 2:12:21 PM
Surr: Phenol-d5	34.7	11.5-73.2		%REC	1	4/2/2012 2:12:21 PM
EPA METHOD 8260B: VOLATILES						Analyst: RAA
Benzene	ND	1.0		µg/L	1	3/24/2012 6:35:50 AM
Toluene	ND	1.0		µg/L	1	3/24/2012 6:35:50 AM
Ethylbenzene	ND	1.0		µg/L	1	3/24/2012 6:35:50 AM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	3/24/2012 6:35:50 AM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	3/24/2012 6:35:50 AM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	3/24/2012 6:35:50 AM
Acetone	ND	10		µg/L	1	3/24/2012 6:35:50 AM
Bromodichloromethane	ND	1.0		µg/L	1	3/24/2012 6:35:50 AM
Bromoform	ND	1.0		µg/L	1	3/24/2012 6:35:50 AM
Bromomethane	ND	3.0		µg/L	1	3/24/2012 6:35:50 AM
2-Butanone	ND	10		µg/L	1	3/24/2012 6:35:50 AM
Carbon disulfide	ND	10		µg/L	1	3/24/2012 6:35:50 AM
Carbon Tetrachloride	ND	1.0		µg/L	1	3/24/2012 6:35:50 AM
Chlorobenzene	ND	1.0		µg/L	1	3/24/2012 6:35:50 AM
Chloroethane	ND	2.0		µg/L	1	3/24/2012 6:35:50 AM
2-Chloroethyl vinyl ether	ND	10		µg/L	1	3/24/2012 6:35:50 AM
Chloroform	ND	1.0		µg/L	1	3/24/2012 6:35:50 AM
Chloromethane	ND	3.0		µg/L	1	3/24/2012 6:35:50 AM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	3/24/2012 6:35:50 AM
Dibromochloromethane	ND	1.0		µg/L	1	3/24/2012 6:35:50 AM
1,1-Dichloroethane	ND	1.0		µg/L	1	3/24/2012 6:35:50 AM
1,1-Dichloroethene	ND	1.0		µg/L	1	3/24/2012 6:35:50 AM
1,2-Dichloropropane	ND	1.0		µg/L	1	3/24/2012 6:35:50 AM
2-Hexanone	ND	10		µg/L	1	3/24/2012 6:35:50 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	3/24/2012 6:35:50 AM
Methylene Chloride	ND	3.0		µg/L	1	3/24/2012 6:35:50 AM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	3/24/2012 6:35:50 AM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	3/24/2012 6:35:50 AM
trans-1,2-DCE	ND	1.0		µg/L	1	3/24/2012 6:35:50 AM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	3/24/2012 6:35:50 AM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	3/24/2012 6:35:50 AM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	3/24/2012 6:35:50 AM
Trichloroethene (TCE)	ND	1.0		µg/L	1	3/24/2012 6:35:50 AM
Trichlorofluoromethane	ND	1.0		µg/L	1	3/24/2012 6:35:50 AM
Vinyl chloride	ND	1.0		µg/L	1	3/24/2012 6:35:50 AM

Qualifiers: * / X Value exceeds Maximum Contaminant Level.
 E Value above quantitation range
 J Analyte detected below quantitation limits
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 RL Reporting Detection Limit

Analytical Report

Lab Order 1203898

Date Reported: 4/23/2012

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Western Refining Southwest, Gallup**Client Sample ID:** OW-52**Project:** 1st QTR 2012 Groundwater Sampling**Collection Date:** 3/22/2012 2:55:00 PM**Lab ID:** 1203898-002**Matrix:** AQUEOUS**Received Date:** 3/23/2012 11:07:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
Xylenes, Total	ND	1.5		µg/L	1	3/24/2012 6:35:50 AM
Surr: 1,2-Dichloroethane-d4	88.1	70-130		%REC	1	3/24/2012 6:35:50 AM
Surr: 4-Bromofluorobenzene	91.5	70-130		%REC	1	3/24/2012 6:35:50 AM
Surr: Dibromofluoromethane	75.1	69.8-130		%REC	1	3/24/2012 6:35:50 AM
Surr: Toluene-d8	91.6	70-130		%REC	1	3/24/2012 6:35:50 AM
EPA 120.1: SPECIFIC CONDUCTANCE						Analyst: JLF
Conductivity	990	0.010		µmhos/cm	1	3/27/2012 11:53:45 AM
SM4500-H+B: PH						Analyst: JLF
pH	8.35	1.68	H	pH units	1	3/27/2012 11:53:45 AM

Qualifiers: * / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203898

23-Apr-12

Client: Western Refining Southwest, Gallup
Project: 1st QTR 2012 Groundwater Sampling

Sample ID	1203B48-002AMS		SampType:	MS		TestCode:	EPA Method 200.7: Dissolved Metals			
Client ID:	BatchQC		Batch ID:	R1953		RunNo:	1953			
Prep Date:			Analysis Date:	4/5/2012		SeqNo:	54372		Units: mg/L	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.48	0.0020	0.5000	0.02652	90.5	70	130			
Cadmium	0.48	0.0020	0.5000	0	95.4	70	130			
Chromium	0.46	0.0060	0.5000	0	91.8	70	130			
Copper	0.47	0.0060	0.5000	0.005490	92.5	70	130			
Iron	0.57	0.020	0.5000	0.1087	92.5	70	130			
Magnesium	59	1.0	50.00	6.395	105	70	130			
Manganese	0.52	0.0020	0.5000	0.07564	88.6	70	130			
Silver	0.096	0.0050	0.1000	0	96.3	70	130			
Sodium	57	1.0	50.00	4.650	105	70	130			
Zinc	0.48	0.010	0.5000	0.01507	92.8	70	130			

Sample ID	1203B48-002AMSD		SampType:	MSD		TestCode:	EPA Method 200.7: Dissolved Metals			
Client ID:	BatchQC		Batch ID:	R1953		RunNo:	1953			
Prep Date:			Analysis Date:	4/5/2012		SeqNo:	54376		Units: mg/L	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.49	0.0020	0.5000	0.02652	92.4	70	130	2.01	20	
Cadmium	0.48	0.0020	0.5000	0	96.5	70	130	1.16	20	
Chromium	0.47	0.0060	0.5000	0	93.8	70	130	2.14	20	
Copper	0.48	0.0060	0.5000	0.005490	94.3	70	130	2.00	20	
Iron	0.58	0.020	0.5000	0.1087	94.7	70	130	1.97	20	
Magnesium	57	1.0	50.00	6.395	100	70	130	4.16	20	
Manganese	0.53	0.0020	0.5000	0.07564	90.4	70	130	1.73	20	
Silver	0.098	0.0050	0.1000	0	97.7	70	130	1.47	20	
Sodium	55	1.0	50.00	4.650	100	70	130	4.87	20	
Zinc	0.49	0.010	0.5000	0.01507	95.5	70	130	2.82	20	

Sample ID	MB		SampType:	MBLK		TestCode:	EPA Method 200.7: Dissolved Metals			
Client ID:	PBW		Batch ID:	R1953		RunNo:	1953			
Prep Date:			Analysis Date:	4/5/2012		SeqNo:	54474		Units: mg/L	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	ND	0.0020								
Cadmium	ND	0.0020								
Calcium	ND	1.0								
Chromium	ND	0.0060								
Copper	ND	0.0060								
Iron	ND	0.020								
Lead	ND	0.0050								
Magnesium	ND	1.0								
Manganese	ND	0.0020								
Potassium	ND	1.0								

Qualifiers:

*X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203898

23-Apr-12

Client: Western Refining Southwest, Gallup

Project: 1st QTR 2012 Groundwater Sampling

Sample ID	MB	SampType:	MBLK	TestCode:	EPA Method 200.7: Dissolved Metals					
Client ID:	PBW	Batch ID:	R1953	RunNo:	1953					
Prep Date:		Analysis Date:	4/5/2012	SeqNo:	54474	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Silver	ND	0.0050								
Sodium	ND	1.0								
Zinc	ND	0.010								

Sample ID	LCS	SampType:	LCS	TestCode:	EPA Method 200.7: Dissolved Metals					
Client ID:	LCSW	Batch ID:	R1953	RunNo:	1953					
Prep Date:		Analysis Date:	4/5/2012	SeqNo:	54475	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.49	0.0020	0.5000	0	97.9	85	115			
Cadmium	0.50	0.0020	0.5000	0	101	85	115			
Calcium	50	1.0	50.00	0	99.3	85	115			
Chromium	0.50	0.0060	0.5000	0	99.2	85	115			
Copper	0.50	0.0060	0.5000	0	99.2	85	115			
Iron	0.50	0.020	0.5000	0	99.5	85	115			
Lead	0.50	0.0050	0.5000	0	99.0	85	115			
Magnesium	51	1.0	50.00	0	101	85	115			
Manganese	0.48	0.0020	0.5000	0	96.1	85	115			
Mercury	49	1.0	50.00	0	98.6	85	115			
Silver	0.10	0.0050	0.1000	0	102	85	115			
Sodium	50	1.0	50.00	0	100	85	115			
Zinc	0.50	0.010	0.5000	0	99.6	85	115			

Qualifiers:

*N Value exceeds Maximum Contaminant Level.

Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203898

23-Apr-12

Client: Western Refining Southwest, Gallup
Project: 1st QTR 2012 Groundwater Sampling

Sample ID	MB-1231	SampType:	MBLK	TestCode:	EPA Method 200.7: Total Metals					
Client ID:	PBW	Batch ID:	1231	RunNo:	1760					
Prep Date:	3/26/2012	Analysis Date:	3/28/2012	SeqNo:	49464	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Cadmium	ND	0.0020								
Chromium	ND	0.0060								
Lead	ND	0.0050								
Manganese	ND	0.0020								

Sample ID	LCS-1231	SampType:	LCS	TestCode:	EPA Method 200.7: Total Metals					
Client ID:	LCSW	Batch ID:	1231	RunNo:	1760					
Prep Date:	3/26/2012	Analysis Date:	3/28/2012	SeqNo:	49465	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Cadmium	0.50	0.0020	0.5000	0	100	85	115			
Chromium	0.50	0.0060	0.5000	0	99.3	85	115			
Lead	0.49	0.0050	0.5000	0	97.1	85	115			
Manganese	0.48	0.0020	0.5000	0	95.8	85	115			

Sample ID	MB-1231	SampType:	MBLK	TestCode:	EPA Method 200.7: Total Metals					
Client ID:	PBW	Batch ID:	1231	RunNo:	1800					
Prep Date:	3/26/2012	Analysis Date:	3/29/2012	SeqNo:	50461	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	ND	0.0020								
Copper	ND	0.0060								
Iron	ND	0.020								
Silver	ND	0.0050								
Zinc	ND	0.010								

Sample ID	LCS-1231	SampType:	LCS	TestCode:	EPA Method 200.7: Total Metals					
Client ID:	LCSW	Batch ID:	1231	RunNo:	1800					
Prep Date:	3/26/2012	Analysis Date:	3/29/2012	SeqNo:	50462	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.47	0.0020	0.5000	0	94.6	85	115			
Copper	0.47	0.0060	0.5000	0	94.6	85	115			
Iron	0.47	0.020	0.5000	0	93.8	85	115			
Silver	0.097	0.0050	0.1000	0	96.7	85	115			
Zinc	0.47	0.010	0.5000	0	94.1	85	115			

Qualifiers:

*X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203898

23-Apr-12

Client: Western Refining Southwest, Gallup
Project: 1st QTR 2012 Groundwater Sampling

Sample ID	MB	SampType:	MBLK	TestCode:	EPA 200.8: Dissolved Metals					
Client ID:	PBW	Batch ID:	R2111	RunNo:	2111					
Prep Date:		Analysis Date:	4/12/2012	SeqNo:	58404	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.0010								

Sample ID	LCS	SampType:	LCS	TestCode:	EPA 200.8: Dissolved Metals					
Client ID:	LCSW	Batch ID:	R2111	RunNo:	2111					
Prep Date:		Analysis Date:	4/12/2012	SeqNo:	58405	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.025	0.0010	0.02500	0	99.4	85	115			

Sample ID	1203798-001DMS	SampType:	MS	TestCode:	EPA 200.8: Dissolved Metals					
Client ID:	BatchQC	Batch ID:	R2111	RunNo:	2111					
Prep Date:		Analysis Date:	4/12/2012	SeqNo:	58409	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.028	0.0010	0.02500	0.003713	97.1	70	130			

Sample ID	1203898-001EMS	SampType:	MS	TestCode:	EPA 200.8: Dissolved Metals					
Client ID:	OW-50	Batch ID:	R2111	RunNo:	2111					
Prep Date:		Analysis Date:	4/12/2012	SeqNo:	58420	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.026	0.0010	0.02500	0.001858	97.3	70	130			

Sample ID	MB	SampType:	MBLK	TestCode:	EPA 200.8: Dissolved Metals					
Client ID:	PBW	Batch ID:	R2167	RunNo:	2167					
Prep Date:		Analysis Date:	4/16/2012	SeqNo:	60429	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Selenium	ND	0.0010								
Uranium	ND	0.0010								

Sample ID	LCS	SampType:	LCS	TestCode:	EPA 200.8: Dissolved Metals					
Client ID:	LCSW	Batch ID:	R2167	RunNo:	2167					
Prep Date:		Analysis Date:	4/16/2012	SeqNo:	60430	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Selenium	0.027	0.0010	0.02500	0	107	85	115			
Uranium	0.024	0.0010	0.02500	0	96.5	85	115			

Qualifiers:

- | | | |
|--|----|--|
| Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| Analyte detected below quantitation limits | ND | Not Detected at the Reporting Limit |
| RPD outside accepted recovery limits | RL | Reporting Detection Limit |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203898

23-Apr-12

Client: Western Refining Southwest, Gallup

Project: 1st QTR 2012 Groundwater Sampling

Sample ID	1203898-001EMS		SampType:	MS		TestCode:	EPA 200.8: Dissolved Metals				
Client ID:	OW-50		Batch ID:	R2167		RunNo:	2167				
Prep Date:			Analysis Date:	4/16/2012		SeqNo:	60436		Units: mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Selenium	0.025	0.0010	0.02500	0.0007840	97.5	70	130				
Uranium	0.032	0.0010	0.02500	0.007582	97.1	70	130				

Qualifiers:

* / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203898

23-Apr-12

Client: Western Refining Southwest, Gallup

Project: 1st QTR 2012 Groundwater Sampling

Sample ID	MB-1231	SampType:	MBLK	TestCode:	200.8 ICPMS Metals:Total					
Client ID:	PBW	Batch ID:	1231	RunNo:	1906					
Prep Date:	3/26/2012	Analysis Date:	4/4/2012	SeqNo:	53644	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.0025								
Selenium	ND	0.0025								
Uranium	ND	0.0025								

Qualifiers:

Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
Value above quantitation range	H	Holding times for preparation or analysis exceeded
J Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R RPD outside accepted recovery limits	RL	Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203898

23-Apr-12

Client: Western Refining Southwest, Gallup
Project: 1st QTR 2012 Groundwater Sampling

Sample ID	MB-1297	SampType:	MBLK	TestCode:	EPA Method 245.1: Mercury					
Client ID:	PBW	Batch ID:	1297	RunNo:	1786					
Prep Date:	3/29/2012	Analysis Date:	3/29/2012	SeqNo:	50512	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.00020								

Sample ID	LCS-1297	SampType:	LCS	TestCode:	EPA Method 245.1: Mercury					
Client ID:	LCSW	Batch ID:	1297	RunNo:	1786					
Prep Date:	3/29/2012	Analysis Date:	3/29/2012	SeqNo:	50513	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0049	0.00020	0.005000	0	97.6	80	120			

Sample ID	1203721-004AMS	SampType:	MS	TestCode:	EPA Method 245.1: Mercury					
Client ID:	BatchQC	Batch ID:	1297	RunNo:	1786					
Prep Date:	3/29/2012	Analysis Date:	3/29/2012	SeqNo:	50515	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0048	0.00020	0.005000	0	96.8	75	125			

Sample ID	1203721-004AMSD	SampType:	MSD	TestCode:	EPA Method 245.1: Mercury					
Client ID:	BatchQC	Batch ID:	1297	RunNo:	1786					
Prep Date:	3/29/2012	Analysis Date:	3/29/2012	SeqNo:	50516	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0049	0.00020	0.005000	0	97.8	75	125	0.996	20	

Qualifiers:

* / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203898

23-Apr-12

Client: Western Refining Southwest, Gallup
Project: 1st QTR 2012 Groundwater Sampling

Sample ID	MB	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBW	Batch ID:	R1676	RunNo:	1676					
Prep Date:		Analysis Date:	3/23/2012	SeqNo:	47441	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.10								
Chloride	ND	0.50								
Nitrogen, Nitrite (As N)	ND	0.10								
Bromide	ND	0.10								
Nitrogen, Nitrate (As N)	ND	0.10								
Phosphorus, Orthophosphate (As P)	ND	0.50								
Sulfate	ND	0.50								

Sample ID	LCS	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSW	Batch ID:	R1676	RunNo:	1676					
Prep Date:		Analysis Date:	3/23/2012	SeqNo:	47442	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.52	0.10	0.5000	0	104	90	110			
Chloride	4.8	0.50	5.000	0	95.0	90	110			
Nitrogen, Nitrite (As N)	0.95	0.10	1.000	0	95.4	90	110			
Bromide	2.4	0.10	2.500	0	96.9	90	110			
Nitrogen, Nitrate (As N)	2.5	0.10	2.500	0	99.1	90	110			
Phosphorus, Orthophosphate (As P)	4.8	0.50	5.000	0	96.0	90	110			
Sulfate	9.7	0.50	10.00	0	97.4	90	110			

Sample ID	1203869-002AMS	SampType:	MS	TestCode:	EPA Method 300.0: Anions					
Client ID:	BatchQC	Batch ID:	R1676	RunNo:	1676					
Prep Date:		Analysis Date:	3/23/2012	SeqNo:	47454	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	3.1	0.10	0.5000	2.674	78.2	72.9	113			
Bromide	2.8	0.10	2.500	0.4144	96.0	76	114			

Sample ID	1203869-002AMSD	SampType:	MSD	TestCode:	EPA Method 300.0: Anions					
Client ID:	BatchQC	Batch ID:	R1676	RunNo:	1676					
Prep Date:		Analysis Date:	3/23/2012	SeqNo:	47455	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	3.1	0.10	0.5000	2.674	79.9	72.9	113	0.272	20	
Bromide	2.8	0.10	2.500	0.4144	96.2	76	114	0.199	20	

Sample ID	1203890-005AMS	SampType:	MS	TestCode:	EPA Method 300.0: Anions					
Client ID:	BatchQC	Batch ID:	R1676	RunNo:	1676					
Prep Date:		Analysis Date:	3/23/2012	SeqNo:	47478	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
Value above quantitation range	H	Holding times for preparation or analysis exceeded
J Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R RPD outside accepted recovery limits	RL	Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203898

23-Apr-12

Client: Western Refining Southwest, Gallup
Project: 1st QTR 2012 Groundwater Sampling

Sample ID	1203890-005AMS	SampType:	MS	TestCode:	EPA Method 300.0: Anions					
Client ID:	BatchQC	Batch ID:	R1676	RunNo:	1676					
Prep Date:		Analysis Date:	3/23/2012	SeqNo:	47478	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Fluoride	1.9	0.10	0.5000	1.549	79.6	72.9	113			
Nitrogen, Nitrite (As N)	0.94	0.10	1.000	0	94.1	77.6	111			
Bromide	2.8	0.10	2.500	0.3093	98.5	76	114			

Sample ID	1203890-005AMSD	SampType:	MSD	TestCode:	EPA Method 300.0: Anions					
Client ID:	BatchQC	Batch ID:	R1676	RunNo:	1676					
Prep Date:		Analysis Date:	3/23/2012	SeqNo:	47479	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Fluoride	2.0	0.10	0.5000	1.549	84.7	72.9	113	1.29	20	
Nitrogen, Nitrite (As N)	0.98	0.10	1.000	0	97.5	77.6	111	3.53	20	
Bromide	2.9	0.10	2.500	0.3093	102	76	114	3.02	20	

Sample ID	MB	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBW	Batch ID:	R1735	RunNo:	1735					
Prep Date:		Analysis Date:	3/27/2012	SeqNo:	48783	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Fluoride	ND	0.10								
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Sample ID	LCS	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSW	Batch ID:	R1735	RunNo:	1735					
Prep Date:		Analysis Date:	3/27/2012	SeqNo:	48784	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Fluoride	0.50	0.10	0.5000	0	99.6	90	110			
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Sample ID	1203962-001CMS	SampType:	MS	TestCode:	EPA Method 300.0: Anions					
Client ID:	BatchQC	Batch ID:	R1735	RunNo:	1735					
Prep Date:		Analysis Date:	3/27/2012	SeqNo:	48802	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Fluoride	0.69	0.10	0.5000	0.2249	92.2	72.9	113			
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Sample ID	1203962-001CMSD	SampType:	MSD	TestCode:	EPA Method 300.0: Anions					
Client ID:	BatchQC	Batch ID:	R1735	RunNo:	1735					
Prep Date:		Analysis Date:	3/27/2012	SeqNo:	48803	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Fluoride	0.69	0.10	0.5000	0.2249	92.7	72.9	113	0.395	20	
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Qualifiers:

*X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203898

23-Apr-12

Client: Western Refining Southwest, Gallup

Project: 1st QTR 2012 Groundwater Sampling

Sample ID	MB	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBW	Batch ID:	R1735	RunNo:	1735					
Prep Date:		Analysis Date:	3/27/2012	SeqNo:	48837	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.10								

Sample ID	LCS	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSW	Batch ID:	R1735	RunNo:	1735					
Prep Date:		Analysis Date:	3/27/2012	SeqNo:	48838	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.52	0.10	0.5000	0	104	90	110			

Sample ID	1203975-001CMS	SampType:	MS	TestCode:	EPA Method 300.0: Anions					
Client ID:	BatchQC	Batch ID:	R1735	RunNo:	1735					
Prep Date:		Analysis Date:	3/28/2012	SeqNo:	48847	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.68	0.10	0.5000	0.1727	101	72.9	113			

Sample ID	1203975-001CMSD	SampType:	MSD	TestCode:	EPA Method 300.0: Anions					
Client ID:	BatchQC	Batch ID:	R1735	RunNo:	1735					
Prep Date:		Analysis Date:	3/28/2012	SeqNo:	48848	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.67	0.10	0.5000	0.1727	99.9	72.9	113	0.500	20	

Sample ID	1203994-001AMS	SampType:	MS	TestCode:	EPA Method 300.0: Anions					
Client ID:	BatchQC	Batch ID:	R1735	RunNo:	1735					
Prep Date:		Analysis Date:	3/28/2012	SeqNo:	48856	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.76	0.10	0.5000	0.2686	98.8	72.9	113			

Sample ID	1203994-001AMSD	SampType:	MSD	TestCode:	EPA Method 300.0: Anions					
Client ID:	BatchQC	Batch ID:	R1735	RunNo:	1735					
Prep Date:		Analysis Date:	3/28/2012	SeqNo:	48857	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.77	0.10	0.5000	0.2686	100	72.9	113	1.00	20	

Qualifiers:

* Value exceeds Maximum Contaminant Level.

Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203898

23-Apr-12

Client: Western Refining Southwest, Gallup
Project: 1st QTR 2012 Groundwater Sampling

Sample ID	MB-1239	SampType:	MBLK	TestCode:	EPA Method 8015B: Diesel Range					
Client ID:	PBW	Batch ID:	1239	RunNo:	1689					
Prep Date:	3/26/2012	Analysis Date:	3/26/2012	SeqNo:	47729	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	1.0								
Motor Oil Range Organics (MRO)	ND	5.0								
Surr: DNOP	1.1		1.000		112	61.3	164			

Sample ID	LCS-1239	SampType:	LCS	TestCode:	EPA Method 8015B: Diesel Range					
Client ID:	LCSW	Batch ID:	1239	RunNo:	1689					
Prep Date:	3/26/2012	Analysis Date:	3/26/2012	SeqNo:	47730	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	5.2	1.0	5.000	0	105	74	157			
Surr: DNOP	0.55		0.5000		110	61.3	164			

Sample ID	LCSD-1239	SampType:	LCSD	TestCode:	EPA Method 8015B: Diesel Range					
Client ID:	LCSS02	Batch ID:	1239	RunNo:	1689					
Prep Date:	3/26/2012	Analysis Date:	3/26/2012	SeqNo:	47731	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	5.8	1.0	5.000	0	117	74	157	10.7	23	
Surr: DNOP	0.57		0.5000		114	61.3	164	0	0	

Qualifiers:

* / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203898

23-Apr-12

Client: Western Refining Southwest, Gallup
Project: 1st QTR 2012 Groundwater Sampling

Sample ID	5ML RB	SampType:	MBLK	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	PBW	Batch ID:	R1853	RunNo:	1853					
Prep Date:		Analysis Date:	3/30/2012	SeqNo:	51848	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050								
Surr: BFB	18		20.00		90.3	69.3	120			

Sample ID	2.5UG GRO LCS	SampType:	LCS	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	LCSW	Batch ID:	R1853	RunNo:	1853					
Prep Date:		Analysis Date:	3/30/2012	SeqNo:	51849	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.57	0.050	0.5000	0	113	101	123			
Surr: BFB	19		20.00		94.2	69.3	120			

Sample ID	1203965-001AMS	SampType:	MS	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	BatchQC	Batch ID:	R1853	RunNo:	1853					
Prep Date:		Analysis Date:	3/30/2012	SeqNo:	51874	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	3.4	0.25	2.500	0.9890	95.4	75.4	121			
Surr: BFB	76		100.0		76.0	69.3	120			

Sample ID	1203965-001AMSD	SampType:	MSD	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	BatchQC	Batch ID:	R1853	RunNo:	1853					
Prep Date:		Analysis Date:	3/31/2012	SeqNo:	51875	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	3.6	0.25	2.500	0.9890	105	75.4	121	6.57	10.5	
Surr: BFB	99		100.0		99.4	69.3	120	0	0	

Qualifiers:

- | | | |
|--|----|--|
| Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND | Not Detected at the Reporting Limit |
| R RPD outside accepted recovery limits | RL | Reporting Detection Limit |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203898

23-Apr-12

Client: Western Refining Southwest, Gallup

Project: 1st QTR 2012 Groundwater Sampling

Sample ID	5ml-rb	SampType:	MBLK		TestCode:	EPA Method 8260B: VOLATILES				
Client ID:	PBW	Batch ID:	R1670		RunNo:	1670				
Prep Date:		Analysis Date:	3/23/2012		SeqNo:	47207	Units:	µg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								

Qualifiers:

*X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203898

23-Apr-12

Client: Western Refining Southwest, Gallup

Project: 1st QTR 2012 Groundwater Sampling

Sample ID	5ml-rb	SampType:	MBLK	TestCode:	EPA Method 8260B: VOLATILES					
Client ID:	PBW	Batch ID:	R1670	RunNo:	1670					
Prep Date:		Analysis Date:	3/23/2012	SeqNo:	47207	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	1.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	9.0		10.00		90.2	70	130			
Surr: 4-Bromofluorobenzene	9.2		10.00		92.4	70	130			
Surr: Dibromofluoromethane	7.6		10.00		75.9	69.8	130			
Surr: Toluene-d8	9.2		10.00		91.9	70	130			

Sample ID	100ng lcs-c	SampType:	LCS	TestCode:	EPA Method 8260B: VOLATILES					
Client ID:	LCSW	Batch ID:	R1670	RunNo:	1670					
Prep Date:		Analysis Date:	3/23/2012	SeqNo:	47215	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	98.4	84.1	126			
Toluene	20	1.0	20.00	0	97.6	80	120			
Chlorobenzene	19	1.0	20.00	0	95.0	70	130			
1,1-Dichloroethene	19	1.0	20.00	0	96.6	83	130			
Trichloroethene (TCE)	19	1.0	20.00	0	92.7	76.2	119			
Surr: 1,2-Dichloroethane-d4	8.8		10.00		88.0	70	130			
Surr: 4-Bromofluorobenzene	8.8		10.00		87.6	70	130			

Qualifiers:

Value exceeds Maximum Contaminant Level.

Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203898

23-Apr-12

Client: Western Refining Southwest, Gallup

Project: 1st QTR 2012 Groundwater Sampling

Sample ID	100ng lcs-c	SampType:	LCS	TestCode:	EPA Method 8260B: VOLATILES					
Client ID:	LCSW	Batch ID:	R1670	RunNo:	1670					
Prep Date:		Analysis Date:	3/23/2012	SeqNo:	47215	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	7.6		10.00		75.8	69.8	130			
Surr: Toluene-d8	9.4		10.00		94.0	70	130			

Qualifiers:

*X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203898

23-Apr-12

Client: Western Refining Southwest, Gallup

Project: 1st QTR 2012 Groundwater Sampling

Sample ID	MB-1292	SampType:	MBLK	TestCode:	EPA Method 8270C: Semivolatiles					
Client ID:	PBW	Batch ID:	1292	RunNo:	1849					
Prep Date:	3/29/2012	Analysis Date:	4/2/2012	SeqNo:	52151	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	ND	10								
Acenaphthylene	ND	10								
Aniline	ND	10								
Anthracene	ND	10								
Azobenzene	ND	10								
Benz(a)anthracene	ND	10								
Benzo(a)pyrene	ND	10								
Benzo(b)fluoranthene	ND	10								
Benzo(g,h,i)perylene	ND	10								
Benzo(k)fluoranthene	ND	10								
Benzoic acid	ND	20								
Benzyl alcohol	ND	10								
Bis(2-chloroethoxy)methane	ND	10								
Bis(2-chloroethyl)ether	ND	10								
Bis(2-chloroisopropyl)ether	ND	10								
Bis(2-ethylhexyl)phthalate	ND	10								
4-Bromophenyl phenyl ether	ND	10								
benzyl phthalate	ND	10								
Carbazole	ND	10								
4-Chloro-3-methylphenol	ND	10								
4-Chloroaniline	ND	10								
2-Chloronaphthalene	ND	10								
2-Chlorophenol	ND	10								
4-Chlorophenyl phenyl ether	ND	10								
Chrysene	ND	10								
Di-n-butyl phthalate	ND	10								
Di-n-octyl phthalate	ND	10								
Dibenz(a,h)anthracene	ND	10								
Dibenzofuran	ND	10								
1,2-Dichlorobenzene	ND	10								
1,3-Dichlorobenzene	ND	10								
1,4-Dichlorobenzene	ND	10								
3,3'-Dichlorobenzidine	ND	10								
Diethyl phthalate	ND	10								
Dimethyl phthalate	ND	10								
2,4-Dichlorophenol	ND	20								
2,4-Dimethylphenol	ND	10								
4,6-Dinitro-2-methylphenol	ND	20								
2,4-Dinitrophenol	ND	20								
2,4-Dinitrotoluene	ND	10								
2,6-Dinitrotoluene	ND	10								

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203898

23-Apr-12

Client: Western Refining Southwest, Gallup
Project: 1st QTR 2012 Groundwater Sampling

Sample ID	MB-1292	SampType:	MBLK	TestCode:	EPA Method 8270C: Semivolatiles					
Client ID:	PBW	Batch ID:	1292	RunNo:	1849					
Prep Date:	3/29/2012	Analysis Date:	4/2/2012	SeqNo:	52151	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoranthene	ND	10								
Fluorene	ND	10								
Hexachlorobenzene	ND	10								
Hexachlorobutadiene	ND	10								
Hexachlorocyclopentadiene	ND	10								
Hexachloroethane	ND	10								
Indeno(1,2,3-cd)pyrene	ND	10								
Isophorone	ND	10								
1-Methylnaphthalene	ND	10								
2-Methylnaphthalene	ND	10								
2-Methylphenol	ND	10								
3+4-Methylphenol	ND	10								
N-Nitrosodi-n-propylamine	ND	10								
N-Nitrosodimethylamine	ND	10								
N-Nitrosodiphenylamine	ND	10								
Naphthalene	ND	10								
2-Nitroaniline	ND	10								
3-Nitroaniline	ND	10								
4-Nitroaniline	ND	20								
Nitrobenzene	ND	10								
2-Nitrophenol	ND	10								
4-Nitrophenol	ND	10								
Pentachlorophenol	ND	20								
Phenanthrene	ND	10								
Phenol	ND	10								
Pyrene	ND	10								
Pyridine	ND	10								
1,2,4-Trichlorobenzene	ND	10								
2,4,5-Trichlorophenol	ND	10								
2,4,6-Trichlorophenol	ND	10								
Surr: 2,4,6-Tribromophenol	110		200.0		53.2	18.1	138			
Surr: 2-Fluorobiphenyl	51		100.0		51.2	25.9	101			
Surr: 2-Fluorophenol	90		200.0		45.2	12.5	93.2			
Surr: 4-Terphenyl-d14	53		100.0		52.5	29.5	112			
Surr: Nitrobenzene-d5	53		100.0		53.5	20.5	120			
Surr: Phenol-d5	71		200.0		35.4	11.5	73.2			

Qualifiers:

*X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203898

23-Apr-12

Client: Western Refining Southwest, Gallup
Project: 1st QTR 2012 Groundwater Sampling

Sample ID	LCS-1292		SampType: LCS		TestCode: EPA Method 8270C: Semivolatiles					
Client ID:	LCSW		Batch ID: 1292		RunNo: 1849					
Prep Date:	3/29/2012		Analysis Date: 4/2/2012		SeqNo: 52153		Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	53	10	100.0	0	53.0	37.7	119			
4-Chloro-3-methylphenol	120	10	200.0	0	61.4	48.8	104			
2-Chlorophenol	120	10	200.0	0	58.3	38.2	109			
1,4-Dichlorobenzene	49	10	100.0	0	48.9	33.7	99.1			
2,4-Dinitrotoluene	60	10	100.0	0	60.0	39.9	125			
N-Nitrosodi-n-propylamine	60	10	100.0	0	60.3	43.8	95.1			
4-Nitrophenol	64	10	200.0	0	32.1	21.7	68.6			
Pentachlorophenol	70	20	200.0	0	34.9	26.7	107			
Phenol	74	10	200.0	0	37.0	23.9	65.8			
Pyrene	56	10	100.0	0	56.5	45.7	107			
1,2,4-Trichlorobenzene	57	10	100.0	0	56.7	30.8	104			
Surr: 2,4,6-Tribromophenol	130		200.0		67.1	18.1	138			
Surr: 2-Fluorobiphenyl	55		100.0		55.4	25.9	101			
Surr: 2-Fluorophenol	87		200.0		43.7	12.5	93.2			
Surr: 4-Terphenyl-d14	60		100.0		59.9	29.5	112			
Surr: Nitrobenzene-d5	59		100.0		59.1	20.5	120			
Surr: Phenol-d5	70		200.0		35.2	11.5	73.2			

Sample ID	LCSD-1292		SampType: LCSD		TestCode: EPA Method 8270C: Semivolatiles					
Client ID:	LCSS02		Batch ID: 1292		RunNo: 1849					
Prep Date:	3/29/2012		Analysis Date: 4/2/2012		SeqNo: 52155		Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	58	10	100.0	0	57.9	37.7	119	8.76	20	
4-Chloro-3-methylphenol	130	10	200.0	0	65.0	48.8	104	5.59	20	
2-Chlorophenol	120	10	200.0	0	61.2	38.2	109	4.88	20	
1,4-Dichlorobenzene	50	10	100.0	0	50.1	33.7	99.1	2.55	20	
2,4-Dinitrotoluene	68	10	100.0	0	67.9	39.9	125	12.3	20	
N-Nitrosodi-n-propylamine	64	10	100.0	0	63.8	43.8	95.1	5.64	20	
4-Nitrophenol	81	10	200.0	0	40.6	21.7	68.6	23.4	20	R
Pentachlorophenol	100	20	200.0	0	50.4	26.7	107	36.3	20	R
Phenol	78	10	200.0	0	38.9	23.9	65.8	4.93	20	
Pyrene	60	10	100.0	0	60.4	45.7	107	6.77	20	
1,2,4-Trichlorobenzene	57	10	100.0	0	57.3	30.8	104	1.09	20	
Surr: 2,4,6-Tribromophenol	140		200.0		72.4	18.1	138	0	0	
Surr: 2-Fluorobiphenyl	60		100.0		59.7	25.9	101	0	0	
Surr: 2-Fluorophenol	92		200.0		46.2	12.5	93.2	0	0	
Surr: 4-Terphenyl-d14	63		100.0		63.0	29.5	112	0	0	
Surr: Nitrobenzene-d5	58		100.0		58.1	20.5	120	0	0	
Surr: Phenol-d5	73		200.0		36.3	11.5	73.2	0	0	

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Value above quantitation range
- Analyte detected below quantitation limits
- RPD outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203898

23-Apr-12

Client: Western Refining Southwest, Gallup
Project: 1st QTR 2012 Groundwater Sampling

Sample ID	1203902-001b dup	SampType:	DUP	TestCode:	EPA 120.1: Specific Conductance					
Client ID:	BatchQC	Batch ID:	R1724	RunNo:	1724					
Prep Date:		Analysis Date:	3/27/2012	SeqNo:	48557	Units:	µmhos/cm			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Conductivity	900	0.010						0.946	20	

Sample ID	1203953-001c dup	SampType:	DUP	TestCode:	EPA 120.1: Specific Conductance					
Client ID:	BatchQC	Batch ID:	R1724	RunNo:	1724					
Prep Date:		Analysis Date:	3/27/2012	SeqNo:	48566	Units:	µmhos/cm			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Conductivity	1,400	0.010						0.934	20	

Qualifiers:

*X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203898

23-Apr-12

Client: Western Refining Southwest, Gallup
Project: 1st QTR 2012 Groundwater Sampling

Sample ID	1203902-001b dup			SampType:	DUP		TestCode:	SM4500-H+B: pH			
Client ID:	BatchQC		Batch ID:	R1724		RunNo:	1724				
Prep Date:			Analysis Date:	3/27/2012		SeqNo:	48570		Units: pH units		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
pH	7.54	1.68								H	

Sample ID	1203953-001c dup			SampType:	DUP		TestCode:	SM4500-H+B: pH			
Client ID:	BatchQC			Batch ID:	R1724		RunNo:	1724			
Prep Date:				Analysis Date:	3/27/2012		SeqNo:	48578		Units:	pH units
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
pH	7.67	1.68								H	

Qualifiers:

- | | | |
|--|----|--|
| Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND | Not Detected at the Reporting Limit |
| R RPD outside accepted recovery limits | RL | Reporting Detection Limit |

Sample Log-In Check List

Client Name: Western Refining Gallup Work Order Number: 1203898

Received by/date: MG 03/23/12

Logged By: Anne Thorne 3/23/2012 11:07:00 AM *Anne Thorne*

Completed By: Anne Thorne 3/23/2012 *Anne Thorne*

Reviewed By: *[Signature]* 03/23/12

Chain of Custody

1. Were seals intact? Yes ☐ No ☐ Not Present ☒
2. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
3. How was the sample delivered? Client

Log In

- | | | | |
|--|---|--|--|
| 4. Coolers are present? (see 19. for cooler specific information) | Yes ☒ | No ☐ | NA ☐ |
| 5. Was an attempt made to cool the samples? | Yes ☒ | No ☐ | NA ☐ |
| 6. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C | Yes ☒ | No ☐ | NA ☐ |
| 7. Sample(s) in proper container(s)? | Yes ☒ | No ☐ | |
| 8. Sufficient sample volume for indicated test(s)? | Yes ☒ | No ☐ | |
| 9. Are samples (except VOA and ONG) properly preserved? | Yes ☒ | No ☐ | |
| 10. Was preservative added to bottles? | Yes ☐ | No ☒ | NA ☐ |
| 11. VOA vials have zero headspace? | Yes ☐ | No ☐ | No VOA Vials ☒ |
| 12. Were any sample containers received broken? | Yes ☒ | No ☐ | |
| 13. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) | Yes ☒ | No ☐ | |
| 14. Are matrices correctly identified on Chain of Custody? | Yes ☒ | No ☐ | |
| 15. Is it clear what analyses were requested? | Yes ☒ | No ☐ | |
| 16. Were all holding times able to be met?
(If no, notify customer for authorization.) | Yes ☒ | No ☐ | |
- # of preserved bottles checked for pH:

Adjusted

Check

of preserved bottles checked for pH: 26
(2 or >12 unless noted)

Adjusted? _____

Checked by: [Signature]

Special Handling (if applicable)

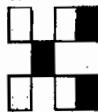
17. Was client notified of all discrepancies with this order? Yes ☐ No ☒ NA ☐

Person Notified: _____ Date: _____
By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding: _____
Client Instructions: _____

- 18. Additional remarks:**

19. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

[illegible]

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
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com*

April 19, 2012

Cheryl Johnson

Western Refining Southwest, Gallup

Rt. 3 Box 7

Gallup, NM 87301

TEL: (505) 722-0231

FAX (505) 722-0210

RE: 1st QTR 2012 Groundwater Sampling

OrderNo.: 1203905

Dear Cheryl Johnson:

Hall Environmental Analysis Laboratory received 2 sample(s) on 3/23/2012 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.**Analytical Report**

Lab Order 1203905

Date Reported: 4/19/2012

CLIENT: Western Refining Southwest, Gallup**Client Sample ID:** OW-1**Project:** 1st QTR 2012 Groundwater Sampling**Collection Date:** 3/22/2012 3:35:00 PM**Lab ID:** 1203905-001**Matrix:** AQUEOUS**Received Date:** 3/23/2012 11:07:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: JMP
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	3/26/2012 1:59:49 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	3/26/2012 1:59:49 PM
Surr: DNOP	117	61.3-164		%REC	1	3/26/2012 1:59:49 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	3/31/2012 6:01:20 AM
Surr: BFB	83.5	69.3-120		%REC	1	3/31/2012 6:01:20 AM
EPA METHOD 300.0: ANIONS						Analyst: BRM
Fluoride	0.34	0.10		mg/L	1	3/24/2012 2:44:29 AM
Chloride	62	10		mg/L	20	3/24/2012 2:56:53 AM
Nitrogen, Nitrite (As N)	ND	0.10		mg/L	1	3/24/2012 2:44:29 AM
Bromide	0.27	0.10		mg/L	1	3/24/2012 2:44:29 AM
Nitrogen, Nitrate (As N)	0.33	0.10		mg/L	1	3/24/2012 2:44:29 AM
Phosphorus, Orthophosphate (As P)	ND	0.50		mg/L	1	3/24/2012 2:44:29 AM
Sulfate	170	10		mg/L	20	3/24/2012 2:56:53 AM
EPA METHOD 200.7: DISSOLVED METALS						Analyst: RAG
Barium	0.034	0.0020		mg/L	1	4/5/2012 5:49:57 PM
Cadmium	ND	0.0020		mg/L	1	4/5/2012 5:49:57 PM
Calcium	2.2	1.0		mg/L	1	4/5/2012 5:49:57 PM
Chromium	ND	0.0060		mg/L	1	4/5/2012 5:49:57 PM
Copper	ND	0.0060		mg/L	1	4/5/2012 5:49:57 PM
Iron	ND	0.020		mg/L	1	4/5/2012 5:49:57 PM
Lead	ND	0.0050		mg/L	1	4/5/2012 5:49:57 PM
Magnesium	ND	1.0		mg/L	1	4/5/2012 5:49:57 PM
Manganese	0.0050	0.0020		mg/L	1	4/5/2012 5:49:57 PM
Potassium	ND	1.0		mg/L	1	4/5/2012 5:49:57 PM
Silver	ND	0.0050		mg/L	1	4/5/2012 5:49:57 PM
Sodium	330	5.0		mg/L	5	4/5/2012 5:53:14 PM
Zinc	0.027	0.010		mg/L	1	4/5/2012 5:49:57 PM
EPA METHOD 200.7: TOTAL METALS						Analyst: RAG
Barium	0.045	0.0020		mg/L	1	3/26/2012 4:37:27 PM
Cadmium	ND	0.0020		mg/L	1	3/26/2012 4:37:27 PM
Chromium	ND	0.0060		mg/L	1	3/27/2012 5:26:28 PM
Copper	ND	0.0060		mg/L	1	3/26/2012 4:37:27 PM
Iron	0.23	0.020		mg/L	1	3/26/2012 4:37:27 PM
Lead	ND	0.0050		mg/L	1	3/26/2012 4:37:27 PM
Manganese	0.058	0.0020	*	mg/L	1	3/26/2012 4:37:27 PM
Silver	ND	0.0050		mg/L	1	3/26/2012 4:37:27 PM
Zinc	0.010	0.010		mg/L	1	3/27/2012 5:26:28 PM
EPA 200.8: DISSOLVED METALS						Analyst: SNV

Qualifiers: * / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

Analytical Report

Lab Order 1203905

Date Reported: 4/19/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: OW-1

Project: 1st QTR 2012 Groundwater Sampling

Collection Date: 3/22/2012 3:35:00 PM

Lab ID: 1203905-001

Matrix: AQUEOUS

Received Date: 3/23/2012 11:07:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA 200.8: DISSOLVED METALS						Analyst: SNV
Arsenic	ND	0.0010		mg/L	1	4/12/2012 7:23:54 PM
Selenium	0.0037	0.0010		mg/L	1	4/16/2012 4:32:05 PM
Uranium	0.039	0.0010	*	mg/L	1	4/16/2012 4:32:05 PM
200.8 ICPMS METALS:TOTAL						Analyst: SNV
Arsenic	ND	0.0025		mg/L	2.5	4/4/2012 5:41:22 PM
Selenium	0.0035	0.0025		mg/L	2.5	4/4/2012 5:41:22 PM
Uranium	0.041	0.0025	*	mg/L	2.5	4/4/2012 5:41:22 PM
EPA METHOD 245.1: MERCURY						Analyst: JLF
Mercury	ND	0.00020		mg/L	1	3/29/2012 3:44:16 PM
EPA METHOD 8260B: VOLATILES						Analyst: BDH
Benzene	ND	1.0		µg/L	1	3/28/2012 11:47:30 AM
Toluene	ND	1.0		µg/L	1	3/28/2012 11:47:30 AM
Ethylbenzene	ND	1.0		µg/L	1	3/28/2012 11:47:30 AM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	3/28/2012 11:47:30 AM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	3/28/2012 11:47:30 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	3/28/2012 11:47:30 AM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	3/28/2012 11:47:30 AM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	3/28/2012 11:47:30 AM
Naphthalene	ND	2.0		µg/L	1	3/28/2012 11:47:30 AM
1-Methylnaphthalene	ND	4.0		µg/L	1	3/28/2012 11:47:30 AM
2-Methylnaphthalene	ND	4.0		µg/L	1	3/28/2012 11:47:30 AM
Acetone	ND	10		µg/L	1	3/28/2012 11:47:30 AM
Bromobenzene	ND	1.0		µg/L	1	3/28/2012 11:47:30 AM
Bromodichloromethane	ND	1.0		µg/L	1	3/28/2012 11:47:30 AM
Bromoform	ND	1.0		µg/L	1	3/28/2012 11:47:30 AM
Bromomethane	ND	3.0		µg/L	1	3/28/2012 11:47:30 AM
2-Butanone	ND	10		µg/L	1	3/28/2012 11:47:30 AM
Carbon disulfide	ND	10		µg/L	1	3/28/2012 11:47:30 AM
Carbon Tetrachloride	ND	1.0		µg/L	1	3/28/2012 11:47:30 AM
Chlorobenzene	ND	1.0		µg/L	1	3/28/2012 11:47:30 AM
Chloroethane	ND	2.0		µg/L	1	3/28/2012 11:47:30 AM
Chloroform	ND	1.0		µg/L	1	3/28/2012 11:47:30 AM
Chloromethane	ND	3.0		µg/L	1	3/28/2012 11:47:30 AM
2-Chlorotoluene	ND	1.0		µg/L	1	3/28/2012 11:47:30 AM
4-Chlorotoluene	ND	1.0		µg/L	1	3/28/2012 11:47:30 AM
cis-1,2-DCE	ND	1.0		µg/L	1	3/28/2012 11:47:30 AM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	3/28/2012 11:47:30 AM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	3/28/2012 11:47:30 AM
Dibromochloromethane	ND	1.0		µg/L	1	3/28/2012 11:47:30 AM
Dibromomethane	ND	1.0		µg/L	1	3/28/2012 11:47:30 AM

Qualifiers: */X Value exceeds Maximum Contaminant Level.
 E Value above quantitation range
 J Analyte detected below quantitation limits
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.**Analytical Report**

Lab Order 1203905

Date Reported: 4/19/2012

CLIENT: Western Refining Southwest, Gallup**Client Sample ID:** OW-1**Project:** 1st QTR 2012 Groundwater Sampling**Collection Date:** 3/22/2012 3:35:00 PM**Lab ID:** 1203905-001**Matrix:** AQUEOUS**Received Date:** 3/23/2012 11:07:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: BDH
1,2-Dichlorobenzene	ND	1.0		µg/L	1	3/28/2012 11:47:30 AM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	3/28/2012 11:47:30 AM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	3/28/2012 11:47:30 AM
Dichlorodifluoromethane	ND	1.0		µg/L	1	3/28/2012 11:47:30 AM
1,1-Dichloroethane	ND	1.0		µg/L	1	3/28/2012 11:47:30 AM
1,1-Dichloroethene	ND	1.0		µg/L	1	3/28/2012 11:47:30 AM
1,2-Dichloropropane	ND	1.0		µg/L	1	3/28/2012 11:47:30 AM
1,3-Dichloropropane	ND	1.0		µg/L	1	3/28/2012 11:47:30 AM
2,2-Dichloropropane	ND	2.0		µg/L	1	3/28/2012 11:47:30 AM
1,1-Dichloropropene	ND	1.0		µg/L	1	3/28/2012 11:47:30 AM
Hexachlorobutadiene	ND	1.0		µg/L	1	3/28/2012 11:47:30 AM
2-Hexanone	ND	10		µg/L	1	3/28/2012 11:47:30 AM
Isopropylbenzene	ND	1.0		µg/L	1	3/28/2012 11:47:30 AM
4-Isopropyltoluene	ND	1.0		µg/L	1	3/28/2012 11:47:30 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	3/28/2012 11:47:30 AM
Methylene Chloride	ND	3.0		µg/L	1	3/28/2012 11:47:30 AM
n-Butylbenzene	ND	1.0		µg/L	1	3/28/2012 11:47:30 AM
n-Propylbenzene	ND	1.0		µg/L	1	3/28/2012 11:47:30 AM
sec-Butylbenzene	ND	1.0		µg/L	1	3/28/2012 11:47:30 AM
Styrene	ND	1.0		µg/L	1	3/28/2012 11:47:30 AM
tert-Butylbenzene	ND	1.0		µg/L	1	3/28/2012 11:47:30 AM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	3/28/2012 11:47:30 AM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	3/28/2012 11:47:30 AM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	3/28/2012 11:47:30 AM
trans-1,2-DCE	ND	1.0		µg/L	1	3/28/2012 11:47:30 AM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	3/28/2012 11:47:30 AM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	3/28/2012 11:47:30 AM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	3/28/2012 11:47:30 AM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	3/28/2012 11:47:30 AM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	3/28/2012 11:47:30 AM
Trichloroethene (TCE)	ND	1.0		µg/L	1	3/28/2012 11:47:30 AM
Trichlorofluoromethane	ND	1.0		µg/L	1	3/28/2012 11:47:30 AM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	3/28/2012 11:47:30 AM
Vinyl chloride	ND	1.0		µg/L	1	3/28/2012 11:47:30 AM
Xylenes, Total	ND	1.5		µg/L	1	3/28/2012 11:47:30 AM
Surr: 1,2-Dichloroethane-d4	64.3	70-130	S	%REC	1	3/28/2012 11:47:30 AM
Surr: 4-Bromofluorobenzene	83.4	70-130		%REC	1	3/28/2012 11:47:30 AM
Surr: Dibromofluoromethane	76.1	69.8-130		%REC	1	3/28/2012 11:47:30 AM
Surr: Toluene-d8	70.9	70-130		%REC	1	3/28/2012 11:47:30 AM

Qualifiers: * / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

Analytical Report

Lab Order 1203905

Date Reported: 4/19/2012

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Western Refining Southwest, Gallup**Client Sample ID:** OW-10**Project:** 1st QTR 2012 Groundwater Sampling**Collection Date:** 3/22/2012 4:02:00 PM**Lab ID:** 1203905-002**Matrix:** AQUEOUS**Received Date:** 3/23/2012 11:07:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: JMP
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	3/26/2012 2:50:50 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	3/26/2012 2:50:50 PM
Surr: DNOP	104	61.3-164		%REC	1	3/26/2012 2:50:50 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	0.062	0.050		mg/L	1	4/2/2012 11:52:48 PM
Surr: BFB	91.8	69.3-120		%REC	1	4/2/2012 11:52:48 PM
EPA METHOD 300.0: ANIONS						Analyst: BRM
Fluoride	0.41	0.10		mg/L	1	3/24/2012 3:09:17 AM
Chloride	260	10		mg/L	20	3/24/2012 3:21:42 AM
Nitrogen, Nitrite (As N)	ND	0.10		mg/L	1	3/24/2012 3:09:17 AM
Bromide	0.64	0.10		mg/L	1	3/24/2012 3:09:17 AM
Nitrogen, Nitrate (As N)	0.59	0.10		mg/L	1	3/24/2012 3:09:17 AM
Phosphorus, Orthophosphate (As P)	ND	0.50		mg/L	1	3/24/2012 3:09:17 AM
Sulfate	140	10		mg/L	20	3/24/2012 3:21:42 AM
EPA METHOD 200.7: DISSOLVED METALS						Analyst: RAG
Barium	0.033	0.0020		mg/L	1	4/5/2012 5:56:23 PM
Cadmium	ND	0.0020		mg/L	1	4/5/2012 5:56:23 PM
Calcium	32	1.0		mg/L	1	4/5/2012 5:56:23 PM
Chromium	ND	0.0060		mg/L	1	4/5/2012 5:56:23 PM
Copper	ND	0.0060		mg/L	1	4/5/2012 5:56:23 PM
Iron	ND	0.020		mg/L	1	4/5/2012 5:56:23 PM
Lead	ND	0.0050		mg/L	1	4/5/2012 5:56:23 PM
Magnesium	4.6	1.0		mg/L	1	4/5/2012 5:56:23 PM
Manganese	0.0023	0.0020		mg/L	1	4/5/2012 5:56:23 PM
Potassium	ND	1.0		mg/L	1	4/5/2012 5:56:23 PM
Silver	ND	0.0050		mg/L	1	4/5/2012 5:56:23 PM
Sodium	400	5.0		mg/L	5	4/5/2012 5:59:32 PM
Zinc	0.024	0.010		mg/L	1	4/5/2012 5:56:23 PM
EPA METHOD 200.7: TOTAL METALS						Analyst: RAG
Barium	0.033	0.0020		mg/L	1	3/26/2012 4:40:46 PM
Cadmium	ND	0.0020		mg/L	1	3/26/2012 4:40:46 PM
Chromium	ND	0.0060		mg/L	1	3/27/2012 5:31:24 PM
Copper	ND	0.0060		mg/L	1	3/26/2012 4:40:46 PM
Iron	0.029	0.020		mg/L	1	3/26/2012 4:40:46 PM
Lead	ND	0.0050		mg/L	1	3/26/2012 4:40:46 PM
Manganese	ND	0.0020		mg/L	1	3/26/2012 4:40:46 PM
Silver	ND	0.0050		mg/L	1	3/26/2012 4:40:46 PM
Zinc	ND	0.010		mg/L	1	3/27/2012 5:31:24 PM
EPA 200.8: DISSOLVED METALS						Analyst: SNV

Qualifiers: */X Value exceeds Maximum Contaminant Level.
 E Value above quantitation range
 J Analyte detected below quantitation limits
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1203905

Date Reported: 4/19/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: OW-10

Project: 1st QTR 2012 Groundwater Sampling

Collection Date: 3/22/2012 4:02:00 PM

Lab ID: 1203905-002

Matrix: AQUEOUS

Received Date: 3/23/2012 11:07:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA 200.8: DISSOLVED METALS						Analyst: SNV
Arsenic	ND	0.0010		mg/L	1	4/12/2012 7:25:47 PM
Selenium	0.0076	0.0010		mg/L	1	4/16/2012 4:45:03 PM
Uranium	0.048	0.0010	*	mg/L	1	4/16/2012 4:45:03 PM
200.8 ICPMS METALS:TOTAL						Analyst: SNV
Arsenic	ND	0.0025		mg/L	2.5	4/4/2012 5:45:18 PM
Selenium	0.0076	0.0025		mg/L	2.5	4/4/2012 5:45:18 PM
Uranium	0.051	0.0025	*	mg/L	2.5	4/4/2012 5:45:18 PM
EPA METHOD 245.1: MERCURY						Analyst: JLF
Mercury	ND	0.00020		mg/L	1	3/29/2012 3:46:00 PM
EPA METHOD 8260B: VOLATILES						Analyst: BDH
Benzene	ND	1.0		µg/L	1	3/28/2012 1:12:32 PM
Toluene	ND	1.0		µg/L	1	3/28/2012 1:12:32 PM
Ethylbenzene	ND	1.0		µg/L	1	3/28/2012 1:12:32 PM
Methyl tert-butyl ether (MTBE)	31	1.0		µg/L	1	3/28/2012 1:12:32 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	3/28/2012 1:12:32 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	3/28/2012 1:12:32 PM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	3/28/2012 1:12:32 PM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	3/28/2012 1:12:32 PM
Naphthalene	ND	2.0		µg/L	1	3/28/2012 1:12:32 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	3/28/2012 1:12:32 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	3/28/2012 1:12:32 PM
Acetone	ND	10		µg/L	1	3/28/2012 1:12:32 PM
Bromobenzene	ND	1.0		µg/L	1	3/28/2012 1:12:32 PM
Bromodichloromethane	ND	1.0		µg/L	1	3/28/2012 1:12:32 PM
Bromoform	ND	1.0		µg/L	1	3/28/2012 1:12:32 PM
Bromomethane	ND	3.0		µg/L	1	3/28/2012 1:12:32 PM
2-Butanone	ND	10		µg/L	1	3/28/2012 1:12:32 PM
Carbon disulfide	ND	10		µg/L	1	3/28/2012 1:12:32 PM
Carbon Tetrachloride	ND	1.0		µg/L	1	3/28/2012 1:12:32 PM
Chlorobenzene	ND	1.0		µg/L	1	3/28/2012 1:12:32 PM
Chloroethane	ND	2.0		µg/L	1	3/28/2012 1:12:32 PM
Chloroform	ND	1.0		µg/L	1	3/28/2012 1:12:32 PM
Chloromethane	ND	3.0		µg/L	1	3/28/2012 1:12:32 PM
2-Chlorotoluene	ND	1.0		µg/L	1	3/28/2012 1:12:32 PM
4-Chlorotoluene	ND	1.0		µg/L	1	3/28/2012 1:12:32 PM
cis-1,2-DCE	ND	1.0		µg/L	1	3/28/2012 1:12:32 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	3/28/2012 1:12:32 PM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	3/28/2012 1:12:32 PM
Dibromochloromethane	ND	1.0		µg/L	1	3/28/2012 1:12:32 PM
Dibromomethane	ND	1.0		µg/L	1	3/28/2012 1:12:32 PM

Qualifiers: *X Value exceeds Maximum Contaminant Level.
 E Value above quantitation range
 J Analyte detected below quantitation limits
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 RL Reporting Detection Limit

Analytical Report

Lab Order 1203905

Date Reported: 4/19/2012

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Western Refining Southwest, Gallup**Client Sample ID:** OW-10**Project:** 1st QTR 2012 Groundwater Sampling**Collection Date:** 3/22/2012 4:02:00 PM**Lab ID:** 1203905-002**Matrix:** AQUEOUS**Received Date:** 3/23/2012 11:07:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: BDH
1,2-Dichlorobenzene	ND	1.0		µg/L	1	3/28/2012 1:12:32 PM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	3/28/2012 1:12:32 PM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	3/28/2012 1:12:32 PM
Dichlorodifluoromethane	ND	1.0		µg/L	1	3/28/2012 1:12:32 PM
1,1-Dichloroethane	ND	1.0		µg/L	1	3/28/2012 1:12:32 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	3/28/2012 1:12:32 PM
1,2-Dichloropropane	ND	1.0		µg/L	1	3/28/2012 1:12:32 PM
1,3-Dichloropropane	ND	1.0		µg/L	1	3/28/2012 1:12:32 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	3/28/2012 1:12:32 PM
1,1-Dichloropropene	ND	1.0		µg/L	1	3/28/2012 1:12:32 PM
Hexachlorobutadiene	ND	1.0		µg/L	1	3/28/2012 1:12:32 PM
2-Hexanone	ND	10		µg/L	1	3/28/2012 1:12:32 PM
Isopropylbenzene	ND	1.0		µg/L	1	3/28/2012 1:12:32 PM
4-Isopropyltoluene	ND	1.0		µg/L	1	3/28/2012 1:12:32 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	3/28/2012 1:12:32 PM
Methylene Chloride	ND	3.0		µg/L	1	3/28/2012 1:12:32 PM
n-Butylbenzene	ND	1.0		µg/L	1	3/28/2012 1:12:32 PM
n-Propylbenzene	ND	1.0		µg/L	1	3/28/2012 1:12:32 PM
sec-Butylbenzene	ND	1.0		µg/L	1	3/28/2012 1:12:32 PM
Styrene	ND	1.0		µg/L	1	3/28/2012 1:12:32 PM
tert-Butylbenzene	ND	1.0		µg/L	1	3/28/2012 1:12:32 PM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	3/28/2012 1:12:32 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	3/28/2012 1:12:32 PM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	3/28/2012 1:12:32 PM
trans-1,2-DCE	ND	1.0		µg/L	1	3/28/2012 1:12:32 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	3/28/2012 1:12:32 PM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	3/28/2012 1:12:32 PM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	3/28/2012 1:12:32 PM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	3/28/2012 1:12:32 PM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	3/28/2012 1:12:32 PM
Trichloroethene (TCE)	ND	1.0		µg/L	1	3/28/2012 1:12:32 PM
Trichlorofluoromethane	ND	1.0		µg/L	1	3/28/2012 1:12:32 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	3/28/2012 1:12:32 PM
Vinyl chloride	ND	1.0		µg/L	1	3/28/2012 1:12:32 PM
Xylenes, Total	ND	1.5		µg/L	1	3/28/2012 1:12:32 PM
Surr: 1,2-Dichloroethane-d4	83.4	70-130		%REC	1	3/28/2012 1:12:32 PM
Surr: 4-Bromofluorobenzene	88.9	70-130		%REC	1	3/28/2012 1:12:32 PM
Surr: Dibromofluoromethane	96.6	69.8-130		%REC	1	3/28/2012 1:12:32 PM
Surr: Toluene-d8	81.6	70-130		%REC	1	3/28/2012 1:12:32 PM

Qualifiers: *X Value exceeds Maximum Contaminant Level.
 E Value above quantitation range
 J Analyte detected below quantitation limits
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203905

19-Apr-12

Client: Western Refining Southwest, Gallup
Project: 1st QTR 2012 Groundwater Sampling

Sample ID	1203B48-002AMS	SampType:	MS	TestCode:	EPA Method 200.7: Dissolved Metals					
Client ID:	BatchQC	Batch ID:	R1953	RunNo:	1953					
Prep Date:		Analysis Date:	4/5/2012	SeqNo:	54372	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.48	0.0020	0.5000	0.02652	90.5	70	130			
Cadmium	0.48	0.0020	0.5000	0	95.4	70	130			
Chromium	0.46	0.0060	0.5000	0	91.8	70	130			
Copper	0.47	0.0060	0.5000	0.005490	92.5	70	130			
Iron	0.57	0.020	0.5000	0.1087	92.5	70	130			
Magnesium	59	1.0	50.00	6.395	105	70	130			
Manganese	0.52	0.0020	0.5000	0.07564	88.6	70	130			
Silver	0.096	0.0050	0.1000	0	96.3	70	130			
Sodium	57	1.0	50.00	4.650	105	70	130			
Zinc	0.48	0.010	0.5000	0.01507	92.8	70	130			

Sample ID	1203B48-002AMSD	SampType:	MSD	TestCode:	EPA Method 200.7: Dissolved Metals					
Client ID:	BatchQC	Batch ID:	R1953	RunNo:	1953					
Prep Date:		Analysis Date:	4/5/2012	SeqNo:	54376	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.49	0.0020	0.5000	0.02652	92.4	70	130	2.01	20	
Cadmium	0.48	0.0020	0.5000	0	96.5	70	130	1.16	20	
Chromium	0.47	0.0060	0.5000	0	93.8	70	130	2.14	20	
Copper	0.48	0.0060	0.5000	0.005490	94.3	70	130	2.00	20	
Iron	0.58	0.020	0.5000	0.1087	94.7	70	130	1.97	20	
Magnesium	57	1.0	50.00	6.395	100	70	130	4.16	20	
Manganese	0.53	0.0020	0.5000	0.07564	90.4	70	130	1.73	20	
Silver	0.098	0.0050	0.1000	0	97.7	70	130	1.47	20	
Sodium	55	1.0	50.00	4.650	100	70	130	4.87	20	
Zinc	0.49	0.010	0.5000	0.01507	95.5	70	130	2.82	20	

Sample ID	MB	SampType:	MBLK	TestCode:	EPA Method 200.7: Dissolved Metals					
Client ID:	PBW	Batch ID:	R1953	RunNo:	1953					
Prep Date:		Analysis Date:	4/5/2012	SeqNo:	54474	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	ND	0.0020								
Cadmium	ND	0.0020								
Calcium	ND	1.0								
Chromium	ND	0.0060								
Copper	ND	0.0060								
Iron	ND	0.020								
Lead	ND	0.0050								
Magnesium	ND	1.0								
Manganese	ND	0.0020								
Potassium	ND	1.0								

Qualifiers:

*X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203905

19-Apr-12

Client: Western Refining Southwest, Gallup
Project: 1st QTR 2012 Groundwater Sampling

Sample ID	MB	SampType	MBLK	TestCode	EPA Method 200.7: Dissolved Metals					
Client ID	PBW	Batch ID	R1953	RunNo	1953					
Prep Date:		Analysis Date	4/5/2012	SeqNo	54474	Units	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Silver	ND	0.0050								
Sodium	ND	1.0								
Zinc	ND	0.010								

Sample ID	LCS	SampType	LCS	TestCode	EPA Method 200.7: Dissolved Metals					
Client ID	LCSW	Batch ID	R1953	RunNo	1953					
Prep Date:		Analysis Date	4/5/2012	SeqNo	54475	Units	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.49	0.0020	0.5000	0	97.9	85	115			
Cadmium	0.50	0.0020	0.5000	0	101	85	115			
Calcium	50	1.0	50.00	0	99.3	85	115			
Chromium	0.50	0.0060	0.5000	0	99.2	85	115			
Copper	0.50	0.0060	0.5000	0	99.2	85	115			
Iron	0.50	0.020	0.5000	0	99.5	85	115			
Lead	0.50	0.0050	0.5000	0	99.0	85	115			
Magnesium	51	1.0	50.00	0	101	85	115			
Manganese	0.48	0.0020	0.5000	0	96.1	85	115			
Potassium	49	1.0	50.00	0	98.6	85	115			
Silver	0.10	0.0050	0.1000	0	102	85	115			
Sodium	50	1.0	50.00	0	100	85	115			
Zinc	0.50	0.010	0.5000	0	99.6	85	115			

Qualifiers:

Value exceeds Maximum Contaminant Level.

Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203905

19-Apr-12

Client: Western Refining Southwest, Gallup
Project: 1st QTR 2012 Groundwater Sampling

Sample ID	MB-1230	SampType:	MBLK	TestCode:	EPA Method 200.7: Total Metals					
Client ID:	PBW	Batch ID:	1230	RunNo:	1702					
Prep Date:	3/26/2012	Analysis Date:	3/26/2012	SeqNo:	48039	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	ND	0.0020								
Cadmium	ND	0.0020								
Chromium	ND	0.0060								
Copper	ND	0.0060								
Iron	ND	0.020								
Lead	ND	0.0050								
Manganese	ND	0.0020								
Silver	ND	0.0050								
Zinc	ND	0.010								

Sample ID	LCS-1230	SampType:	LCS	TestCode:	EPA Method 200.7: Total Metals					
Client ID:	LCSW	Batch ID:	1230	RunNo:	1702					
Prep Date:	3/26/2012	Analysis Date:	3/26/2012	SeqNo:	48040	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.49	0.0020	0.5000	0	98.7	85	115			
Cadmium	0.51	0.0020	0.5000	0.0004200	101	85	115			
Chromium	0.49	0.0060	0.5000	0.0006400	98.8	85	115			
Copper	0.50	0.0060	0.5000	0.001800	99.1	85	115			
Iron	0.48	0.020	0.5000	0	96.3	85	115			
Lead	0.49	0.0050	0.5000	0	98.4	85	115			
Manganese	0.48	0.0020	0.5000	0	96.2	85	115			
Silver	0.10	0.0050	0.1000	0	102	85	115			
Zinc	0.49	0.010	0.5000	0	97.7	85	115			

Qualifiers:

*X Value exceeds Maximum Contaminant Level.
 E Value above quantitation range
 J Analyte detected below quantitation limits
 R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203905

19-Apr-12

Client: Western Refining Southwest, Gallup
Project: 1st QTR 2012 Groundwater Sampling

Sample ID	MB	SampType:	MBLK	TestCode:	EPA 200.8: Dissolved Metals					
Client ID:	PBW	Batch ID:	R2111	RunNo:	2111					
Prep Date:		Analysis Date:	4/12/2012	SeqNo:	58404	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.0010								

Sample ID	LCS	SampType:	LCS	TestCode:	EPA 200.8: Dissolved Metals					
Client ID:	LCSW	Batch ID:	R2111	RunNo:	2111					
Prep Date:		Analysis Date:	4/12/2012	SeqNo:	58405	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.025	0.0010	0.02500	0	99.4	85	115			

Sample ID	1203798-001DMS	SampType:	MS	TestCode:	EPA 200.8: Dissolved Metals					
Client ID:	BatchQC	Batch ID:	R2111	RunNo:	2111					
Prep Date:		Analysis Date:	4/12/2012	SeqNo:	58409	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.028	0.0010	0.02500	0.003713	97.1	70	130			

Sample ID	1203898-001EMS	SampType:	MS	TestCode:	EPA 200.8: Dissolved Metals					
Client ID:	BatchQC	Batch ID:	R2111	RunNo:	2111					
Prep Date:		Analysis Date:	4/12/2012	SeqNo:	58420	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.026	0.0010	0.02500	0.001858	97.3	70	130			

Sample ID	MB	SampType:	MBLK	TestCode:	EPA 200.8: Dissolved Metals					
Client ID:	PBW	Batch ID:	R2167	RunNo:	2167					
Prep Date:		Analysis Date:	4/16/2012	SeqNo:	60429	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Selenium	ND	0.0010								
Uranium	ND	0.0010								

Sample ID	LCS	SampType:	LCS	TestCode:	EPA 200.8: Dissolved Metals					
Client ID:	LCSW	Batch ID:	R2167	RunNo:	2167					
Prep Date:		Analysis Date:	4/16/2012	SeqNo:	60430	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Selenium	0.027	0.0010	0.02500	0	107	85	115			
Uranium	0.024	0.0010	0.02500	0	96.5	85	115			

Qualifiers:

Value exceeds Maximum Contaminant Level.
Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203905

19-Apr-12

Client: Western Refining Southwest, Gallup
Project: 1st QTR 2012 Groundwater Sampling

Sample ID	1203898-001EMS		SampType:	MS		TestCode:	EPA 200.8: Dissolved Metals				
Client ID:	BatchQC		Batch ID:	R2167		RunNo:	2167				
Prep Date:			Analysis Date:	4/16/2012		SeqNo:	60436		Units: mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Selenium	0.025	0.0010	0.02500	0.0007840	97.5	70	130				
Uranium	0.032	0.0010	0.02500	0.007582	97.1	70	130				

Qualifiers:

*X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203905

19-Apr-12

Client: Western Refining Southwest, Gallup

Project: 1st QTR 2012 Groundwater Sampling

Sample ID	MB-1230	SampType:	MBLK	TestCode:	200.8 ICPMS Metals:Total					
Client ID:	PBW	Batch ID:	1230	RunNo:	1930					
Prep Date:	3/26/2012	Analysis Date:	4/4/2012	SeqNo:	53748	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.0025								
Selenium	ND	0.0025								
Uranium	ND	0.0025								

Qualifiers:

Value exceeds Maximum Contaminant Level.
Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203905

19-Apr-12

Client: Western Refining Southwest, Gallup
Project: 1st QTR 2012 Groundwater Sampling

Sample ID	MB-1297	SampType:	MBLK	TestCode:	EPA Method 245.1: Mercury					
Client ID:	PBW	Batch ID:	1297	RunNo:	1786					
Prep Date:	3/29/2012	Analysis Date:	3/29/2012	SeqNo:	50512	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.00020								

Sample ID	LCS-1297	SampType:	LCS	TestCode:	EPA Method 245.1: Mercury					
Client ID:	LCSW	Batch ID:	1297	RunNo:	1786					
Prep Date:	3/29/2012	Analysis Date:	3/29/2012	SeqNo:	50513	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0049	0.00020	0.005000	0	97.6	80	120			

Sample ID	1203721-004AMS	SampType:	MS	TestCode:	EPA Method 245.1: Mercury					
Client ID:	BatchQC	Batch ID:	1297	RunNo:	1786					
Prep Date:	3/29/2012	Analysis Date:	3/29/2012	SeqNo:	50515	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0048	0.00020	0.005000	0	96.8	75	125			

Sample ID	1203721-004AMSD	SampType:	MSD	TestCode:	EPA Method 245.1: Mercury					
Client ID:	BatchQC	Batch ID:	1297	RunNo:	1786					
Prep Date:	3/29/2012	Analysis Date:	3/29/2012	SeqNo:	50516	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0049	0.00020	0.005000	0	97.8	75	125	0.996	20	

Qualifiers:

*X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203905

19-Apr-12

Client: Western Refining Southwest, Gallup

Project: 1st QTR 2012 Groundwater Sampling

Sample ID	MB	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBW	Batch ID:	R1676	RunNo:	1676					
Prep Date:		Analysis Date:	3/23/2012	SeqNo:	47441	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Fluoride	ND	0.10								
Chloride	ND	0.50								
Nitrogen, Nitrite (As N)	ND	0.10								
Bromide	ND	0.10								
Nitrogen, Nitrate (As N)	ND	0.10								
Phosphorus, Orthophosphate (As P)	ND	0.50								
Sulfate	ND	0.50								

Sample ID	LCS	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSW	Batch ID:	R1676	RunNo:	1676					
Prep Date:		Analysis Date:	3/23/2012	SeqNo:	47442	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Fluoride	0.52	0.10	0.5000	0	104	90	110			
Chloride	4.8	0.50	5.000	0	95.0	90	110			
Nitrogen, Nitrite (As N)	0.95	0.10	1.000	0	95.4	90	110			
Bromide	2.4	0.10	2.500	0	96.9	90	110			
Nitrogen, Nitrate (As N)	2.5	0.10	2.500	0	99.1	90	110			
Phosphorus, Orthophosphate (As P)	4.8	0.50	5.000	0	96.0	90	110			
Sulfate	9.7	0.50	10.00	0	97.4	90	110			

Sample ID	1203869-002AMS	SampType:	MS	TestCode:	EPA Method 300.0: Anions					
Client ID:	BatchQC	Batch ID:	R1676	RunNo:	1676					
Prep Date:		Analysis Date:	3/23/2012	SeqNo:	47454	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Fluoride	3.1	0.10	0.5000	2.674	78.2	72.9	113			
Bromide	2.8	0.10	2.500	0.4144	96.0	76	114			

Sample ID	1203869-002AMSD	SampType:	MSD	TestCode:	EPA Method 300.0: Anions					
Client ID:	BatchQC	Batch ID:	R1676	RunNo:	1676					
Prep Date:		Analysis Date:	3/23/2012	SeqNo:	47455	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Fluoride	3.1	0.10	0.5000	2.674	79.9	72.9	113	0.272	20	
Bromide	2.8	0.10	2.500	0.4144	96.2	76	114	0.199	20	

Sample ID	1203890-005AMS	SampType:	MS	TestCode:	EPA Method 300.0: Anions					
Client ID:	BatchQC	Batch ID:	R1676	RunNo:	1676					
Prep Date:		Analysis Date:	3/23/2012	SeqNo:	47478	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

Value exceeds Maximum Contaminant Level.
Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203905

19-Apr-12

Client: Western Refining Southwest, Gallup

Project: 1st QTR 2012 Groundwater Sampling

Sample ID	1203890-005AMS	SampType:	MS	TestCode:	EPA Method 300.0: Anions					
Client ID:	BatchQC	Batch ID:	R1676	RunNo:	1676					
Prep Date:		Analysis Date:	3/23/2012	SeqNo:	47478	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	1.9	0.10	0.5000	1.549	79.6	72.9	113			
Nitrogen, Nitrite (As N)	0.94	0.10	1.000	0	94.1	77.6	111			
Bromide	2.8	0.10	2.500	0.3093	98.5	76	114			

Sample ID	1203890-005AMSD		SampType:	MSD		TestCode:	EPA Method 300.0: Anions				
Client ID:	BatchQC		Batch ID:	R1676		RunNo:	1676				
Prep Date:			Analysis Date:	3/23/2012		SeqNo:	47479		Units:	mg/L	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Fluoride	2.0	0.10	0.5000	1.549	84.7	72.9	113	1.29	20		
Nitrogen, Nitrite (As N)	0.98	0.10	1.000	0	97.5	77.6	111	3.53	20		
Bromide	2.9	0.10	2.500	0.3093	102	76	114	3.02	20		

Qualifiers:

*X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203905

19-Apr-12

Client: Western Refining Southwest, Gallup

Project: 1st QTR 2012 Groundwater Sampling

Sample ID	MB-1239	SampType:	MBLK	TestCode:	EPA Method 8015B: Diesel Range					
Client ID:	PBW	Batch ID:	1239	RunNo:	1689					
Prep Date:	3/26/2012	Analysis Date:	3/26/2012	SeqNo:	47729	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	1.0								
Motor Oil Range Organics (MRO)	ND	5.0								
Surr: DNOP	1.1		1.000		112	61.3	164			

Sample ID	LCS-1239	SampType:	LCS	TestCode:	EPA Method 8015B: Diesel Range					
Client ID:	LCSW	Batch ID:	1239	RunNo:	1689					
Prep Date:	3/26/2012	Analysis Date:	3/26/2012	SeqNo:	47730	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	5.2	1.0	5.000	0	105	74	157			
Surr: DNOP	0.55		0.5000		110	61.3	164			

Sample ID	LCSD-1239	SampType:	LCSD	TestCode:	EPA Method 8015B: Diesel Range					
Client ID:	LCSS02	Batch ID:	1239	RunNo:	1689					
Prep Date:	3/26/2012	Analysis Date:	3/26/2012	SeqNo:	47731	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	5.8	1.0	5.000	0	117	74	157	10.7	23	
Surr: DNOP	0.57		0.5000		114	61.3	164	0	0	

Qualifiers:

Value exceeds Maximum Contaminant Level.
Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203905

19-Apr-12

Client: Western Refining Southwest, Gallup
Project: 1st QTR 2012 Groundwater Sampling

Sample ID	5ML RB	SampType:	MBLK	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	PBW	Batch ID:	R1853	RunNo:	1853					
Prep Date:		Analysis Date:	3/30/2012	SeqNo:	51848	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050								
Surr: BFB	18		20.00		90.3	69.3	120			

Sample ID	2.5UG GRO LCS	SampType:	LCS	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	LCSW	Batch ID:	R1853	RunNo:	1853					
Prep Date:		Analysis Date:	3/30/2012	SeqNo:	51849	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.57	0.050	0.5000	0	113	101	123			
Surr: BFB	19		20.00		94.2	69.3	120			

Sample ID	1203965-001AMS	SampType:	MS	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	BatchQC	Batch ID:	R1853	RunNo:	1853					
Prep Date:		Analysis Date:	3/30/2012	SeqNo:	51874	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	3.4	0.25	2.500	0.9890	95.4	75.4	121			
Surr: BFB	76		100.0		76.0	69.3	120			

Sample ID	1203965-001AMSD	SampType:	MSD	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	BatchQC	Batch ID:	R1853	RunNo:	1853					
Prep Date:		Analysis Date:	3/31/2012	SeqNo:	51875	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	3.6	0.25	2.500	0.9890	105	75.4	121	6.57	10.5	
Surr: BFB	99		100.0		99.4	69.3	120	0	0	

Sample ID	5ML RB	SampType:	MBLK	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	PBW	Batch ID:	R1867	RunNo:	1867					
Prep Date:		Analysis Date:	4/2/2012	SeqNo:	52225	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050								
Surr: BFB	16		20.00		79.6	69.3	120			

Sample ID	2.5UG GRO LCS	SampType:	LCS	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	LCSW	Batch ID:	R1867	RunNo:	1867					
Prep Date:		Analysis Date:	4/2/2012	SeqNo:	52226	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.54	0.050	0.5000	0	108	101	123			
Surr: BFB	23		20.00		116	69.3	120			

Qualifiers:

*X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203905

19-Apr-12

Client: Western Refining Southwest, Gallup
Project: 1st QTR 2012 Groundwater Sampling

Sample ID	5mL rb	SampType:	MBLK	TestCode:	EPA Method 8260B: VOLATILES					
Client ID:	PBW	Batch ID:	R1764	RunNo:	1764					
Prep Date:		Analysis Date:	3/28/2012	SeqNo:	49524	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								

Qualifiers:

* Value exceeds Maximum Contaminant Level.
Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203905

19-Apr-12

Client: Western Refining Southwest, Gallup
Project: 1st QTR 2012 Groundwater Sampling

Sample ID	5mL rb	SampType:	MBLK	TestCode:	EPA Method 8260B: VOLATILES					
Client ID:	PBW	Batch ID:	R1764	RunNo:	1764					
Prep Date:		Analysis Date:	3/28/2012	SeqNo:	49524	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	1.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	7.6		10.00		75.5	70	130			
Surr: 4-Bromofluorobenzene	8.8		10.00		88.4	70	130			
Surr: Dibromofluoromethane	9.5		10.00		95.0	69.8	130			
Surr: Toluene-d8	8.8		10.00		87.7	70	130			

Sample ID	100ng lcs	SampType:	LCS	TestCode:	EPA Method 8260B: VOLATILES					
Client ID:	LCSW	Batch ID:	R1764	RunNo:	1764					
Prep Date:		Analysis Date:	3/28/2012	SeqNo:	49525	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	21	1.0	20.00	0	107	84.1	126			
Toluene	24	1.0	20.00	0	119	80	120			
Chlorobenzene	21	1.0	20.00	0	104	70	130			
1,1-Dichloroethene	21	1.0	20.00	0	106	83	130			
Trichloroethene (TCE)	21	1.0	20.00	0	103	76.2	119			
Surr: 1,2-Dichloroethane-d4	7.4		10.00		73.7	70	130			
Surr: 4-Bromofluorobenzene	9.3		10.00		93.3	70	130			

Qualifiers:

*X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203905

19-Apr-12

Client: Western Refining Southwest, Gallup
Project: 1st QTR 2012 Groundwater Sampling

Sample ID	100ng lcs	SampType: LCS			TestCode: EPA Method 8260B: VOLATILES					
Client ID:	LCSW	Batch ID: R1764			RunNo: 1764					
Prep Date:		Analysis Date: 3/28/2012			SeqNo: 49525		Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	9.2		10.00		92.1	69.8	130			
Surr: Toluene-d8	8.9		10.00		88.8	70	130			

Sample ID	1203905-001ams	SampType:	MS	TestCode:	EPA Method 8260B: VOLATILES					
Client ID:	OW-1	Batch ID:	R1764	RunNo:	1764					
Prep Date:		Analysis Date:	3/28/2012	SeqNo:	49526	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	101	71.1	135			
Toluene	20	1.0	20.00	0	102	74	121			
Chlorobenzene	20	1.0	20.00	0	102	70	130			
1,1-Dichloroethene	23	1.0	20.00	0	115	76.3	127			
Trichloroethene (TCE)	19	1.0	20.00	0	96.5	70	130			
Surr: 1,2-Dichloroethane-d4	7.0		10.00		69.7	70	130			S
Surr: 4-Bromofluorobenzene	10		10.00		99.7	70	130			
Surr: Dibromofluoromethane	8.7		10.00		86.9	69.8	130			
Surr: Toluene-d8	7.2		10.00		71.7	70	130			

Sample ID	1203905-001amsd	SampType:	MSD								TestCode:	EPA Method 8260B: VOLATILES				
Client ID:	OW-1	Batch ID:	R1764				RunNo:	1764								
Prep Date:		Analysis Date:	3/28/2012				SeqNo:	49527		Units:	µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual						
Benzene	21	1.0	20.00	0	107	71.1	135	5.62	21.9							
Toluene	22	1.0	20.00	0	112	74	121	9.72	18.5							
Chlorobenzene	20	1.0	20.00	0	100	70	130	1.85	17.7							
1,1-Dichloroethene	20	1.0	20.00	0	101	76.3	127	13.1	16.5							
Trichloroethene (TCE)	20	1.0	20.00	0	101	70	130	4.69	18.9							
Surr: 1,2-Dichloroethane-d4	7.5		10.00		74.9	70	130	0	0							
Surr: 4-Bromofluorobenzene	10		10.00		103	70	130	0	0							
Surr: Dibromofluoromethane	8.9		10.00		89.1	69.8	130	0	0							
Surr: Toluene-d8	8.2		10.00		81.7	70	130	0	0							

Qualifiers:

- | | | |
|--|----|--|
| Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND | Not Detected at the Reporting Limit |
| R RPD outside accepted recovery limits | RL | Reporting Detection Limit |



Hall Environmental Analysis Laboratory
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Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name:	Western Refining Gallup	Work Order Number:	1203905
Received by/date:	MG 03/23/12		
Logged By:	Anne Thorne	3/23/2012 11:07:00 AM	<i>Anne Thorne</i>
Completed By:	Anne Thorne	3/23/2012	<i>Anne Thorne</i>
Reviewed By:	<i>[Signature]</i>	03/23/12	

Chain of Custody

1. Were seals intact? Yes ☐ No ☐ Not Present ☒
2. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
3. How was the sample delivered? Client

Log In

4. Coolers are present? (see 19. for cooler specific information) Yes ☒ No ☐ NA ☐
5. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
6. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
7. Sample(s) in proper container(s)? Yes ☒ No ☐
8. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
9. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
10. Was preservative added to bottles? Yes ☒ No ☐ NA ☐
11. VOA vials have zero headspace? Yes ☒ No ☐ No VOA Vials ☐
12. Were any sample containers received broken? Yes ☐ No ☒
13. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
14. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
15. Is it clear what analyses were requested? Yes ☒ No ☐
16. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

# of preserved bottles checked for pH:	6
Adjusted? (<2 or >12 unless noted)	YES
Checked by:	<i>[Signature]</i>

Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:	_____	Date:	_____
By Whom:	_____	Via:	☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:	_____		
Client Instructions:	_____		

18. Additional remarks:

19. Cooler Information

Cooler No	Temp. $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Client: W. ☒ Refining		☒ Standard ☐ Rush				
Mailing Address: Rt 3 Box 7		Project Name: 1st QTR 2012 Groundwater Sampling				
Phone #: 505-722-3833		Project #: Quarterly Sampling				
email or Fax#: 505-722-0210		Project Manager: Cheryl Johnson				
QA/QC Package: ☒ Standard ☐ Level 4 (Full Validation)		Sampler: T. Fleener / S. Ukala				
Accreditation: ☐ NELAP ☐ Other		On Ice: ☒ Yes ☐ No				
☐ EDD (Type)		Sample Temperature: ☐				
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.
3-22-12	1535	Water	OW-1	Various	Various	12-03905
↓	1602	↓	OW-10	↓	↓	-001
						-002
Date: 3-23-12	Time: 1107	Relinquished by: <i>[Signature]</i>		Received by: <i>[Signature]</i>		Date: 03/23/12
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
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com*

June 27, 2012

Cheryl Johnson

Western Refining Southwest, Gallup

Rt. 3 Box 7

Gallup, NM 87301

TEL: (505) 722-0231

FAX (505) 722-0210

RE: 2012 SEMI ANNUAL PONDS

OrderNo.: 1205B66

Dear Cheryl Johnson:

Hall Environmental Analysis Laboratory received 15 sample(s) on 5/30/2012 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 1205B66

Date Reported: 6/27/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: EP-2

Project: 2012 SEMI ANNUAL PONDS

Collection Date: 5/29/2012 10:45:00 AM

Lab ID: 1205B66-001

Matrix: AQUEOUS

Received Date: 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: BRM
Fluoride	55	2.0	*	mg/L	20	6/5/2012 3:15:06 PM
Chloride	6600	250		mg/L	500	6/5/2012 3:39:55 PM
Nitrogen, Nitrite (As N)	ND	2.0		mg/L	20	5/30/2012 4:26:21 PM
Bromide	2.6	0.50		mg/L	5	5/30/2012 4:13:56 PM
Nitrogen, Nitrate (As N)	ND	0.50		mg/L	5	5/30/2012 4:13:56 PM
Phosphorus, Orthophosphate (As P)	ND	2.5		mg/L	5	5/30/2012 4:13:56 PM
Sulfate	1300	25		mg/L	50	6/5/2012 3:27:30 PM
EPA METHOD 200.7: DISSOLVED METALS						Analyst: ELS
Barium	0.060	0.0020		mg/L	1	6/15/2012 9:22:23 AM
Cadmium	ND	0.0020		mg/L	1	6/15/2012 9:22:23 AM
Calcium	200	10		mg/L	10	6/19/2012 5:40:30 PM
Chromium	ND	0.0060		mg/L	1	6/19/2012 6:33:12 PM
Copper	ND	0.0060		mg/L	1	6/15/2012 9:22:23 AM
Iron	0.46	0.020	*	mg/L	1	6/19/2012 6:33:12 PM
Lead	ND	0.0050		mg/L	1	6/15/2012 9:22:23 AM
Magnesium	73	1.0		mg/L	1	6/15/2012 9:22:23 AM
Manganese	0.15	0.0020	*	mg/L	1	6/15/2012 9:22:23 AM
Potassium	150	10		mg/L	10	6/15/2012 9:25:25 AM
Silver	ND	0.0050		mg/L	1	6/15/2012 9:22:23 AM
Sodium	2900	50		mg/L	50	6/19/2012 4:56:57 PM
Zinc	0.024	0.010		mg/L	1	6/19/2012 6:33:12 PM
EPA METHOD 200.7: TOTAL METALS						Analyst: ELS
Barium	0.064	0.0020		mg/L	1	6/14/2012 10:23:54 AM
Cadmium	ND	0.0020		mg/L	1	6/14/2012 10:23:54 AM
Chromium	ND	0.0060		mg/L	1	6/14/2012 10:23:54 AM
Copper	ND	0.0060		mg/L	1	6/15/2012 8:23:19 AM
Iron	0.99	0.020	*	mg/L	1	6/27/2012 10:03:30 AM
Lead	ND	0.0050		mg/L	1	6/14/2012 10:23:54 AM
Manganese	0.15	0.0020	*	mg/L	1	6/14/2012 10:23:54 AM
Silver	ND	0.0050		mg/L	1	6/14/2012 10:23:54 AM
Zinc	0.032	0.010		mg/L	1	6/14/2012 10:23:54 AM
EPA 200.8: DISSOLVED METALS						Analyst: SNV
Arsenic	0.011	0.0050	*	mg/L	5	6/19/2012 5:28:36 PM
Selenium	0.011	0.0050		mg/L	5	6/19/2012 5:28:36 PM
Uranium	ND	0.0050		mg/L	5	6/19/2012 5:28:36 PM
200.8 ICPMS METALS:TOTAL						Analyst: SNV
Arsenic	0.011	0.0025	*	mg/L	2.5	6/14/2012 12:59:57 PM
Selenium	0.011	0.0025		mg/L	2.5	6/14/2012 12:59:57 PM
Uranium	ND	0.0025		mg/L	2.5	6/14/2012 12:59:57 PM

Qualifiers: * / X Value exceeds Maximum Contaminant Level.
 E Value above quantitation range
 J Analyte detected below quantitation limits
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 RL Reporting Detection Limit
 U Samples with CalcVal < MDL

Analytical Report

Lab Order 1205B66

Date Reported: 6/27/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: EP-2

Project: 2012 SEMI ANNUAL PONDS

Collection Date: 5/29/2012 10:45:00 AM

Lab ID: 1205B66-001

Matrix: AQUEOUS

Received Date: 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 245.1: MERCURY						Analyst: IDC
Mercury	ND	0.00020		mg/L	1	6/1/2012 3:40:52 PM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	50		µg/L	1	6/1/2012 12:38:46 AM
Acenaphthylene	ND	50		µg/L	1	6/1/2012 12:38:46 AM
Aniline	110	50		µg/L	1	6/1/2012 12:38:46 AM
Anthracene	ND	50		µg/L	1	6/1/2012 12:38:46 AM
Azobenzene	ND	50		µg/L	1	6/1/2012 12:38:46 AM
Benz(a)anthracene	ND	50		µg/L	1	6/1/2012 12:38:46 AM
Benzo(a)pyrene	ND	50		µg/L	1	6/1/2012 12:38:46 AM
Benzo(b)fluoranthene	ND	50		µg/L	1	6/1/2012 12:38:46 AM
Benzo(g,h,i)perylene	ND	50		µg/L	1	6/1/2012 12:38:46 AM
Benzo(k)fluoranthene	ND	50		µg/L	1	6/1/2012 12:38:46 AM
Benzoic acid	ND	100		µg/L	1	6/1/2012 12:38:46 AM
Benzyl alcohol	ND	50		µg/L	1	6/1/2012 12:38:46 AM
Bis(2-chloroethoxy)methane	ND	50		µg/L	1	6/1/2012 12:38:46 AM
Bis(2-chloroethyl)ether	ND	50		µg/L	1	6/1/2012 12:38:46 AM
Bis(2-chloroisopropyl)ether	ND	50		µg/L	1	6/1/2012 12:38:46 AM
Bis(2-ethylhexyl)phthalate	ND	50		µg/L	1	6/1/2012 12:38:46 AM
4-Bromophenyl phenyl ether	ND	50		µg/L	1	6/1/2012 12:38:46 AM
Butyl benzyl phthalate	ND	50		µg/L	1	6/1/2012 12:38:46 AM
Carbazole	ND	50		µg/L	1	6/1/2012 12:38:46 AM
4-Chloro-3-methylphenol	ND	50		µg/L	1	6/1/2012 12:38:46 AM
4-Chloroaniline	ND	50		µg/L	1	6/1/2012 12:38:46 AM
2-Chloronaphthalene	ND	50		µg/L	1	6/1/2012 12:38:46 AM
2-Chlorophenol	ND	50		µg/L	1	6/1/2012 12:38:46 AM
4-Chlorophenyl phenyl ether	ND	50		µg/L	1	6/1/2012 12:38:46 AM
Chrysene	ND	50		µg/L	1	6/1/2012 12:38:46 AM
Di-n-butyl phthalate	ND	50		µg/L	1	6/1/2012 12:38:46 AM
Di-n-octyl phthalate	ND	50		µg/L	1	6/1/2012 12:38:46 AM
Dibenz(a,h)anthracene	ND	50		µg/L	1	6/1/2012 12:38:46 AM
Dibenzofuran	ND	50		µg/L	1	6/1/2012 12:38:46 AM
1,2-Dichlorobenzene	ND	50		µg/L	1	6/1/2012 12:38:46 AM
1,3-Dichlorobenzene	ND	50		µg/L	1	6/1/2012 12:38:46 AM
1,4-Dichlorobenzene	ND	50		µg/L	1	6/1/2012 12:38:46 AM
3,3'-Dichlorobenzidine	ND	50		µg/L	1	6/1/2012 12:38:46 AM
Diethyl phthalate	ND	50		µg/L	1	6/1/2012 12:38:46 AM
Dimethyl phthalate	ND	50		µg/L	1	6/1/2012 12:38:46 AM
2,4-Dichlorophenol	ND	100		µg/L	1	6/1/2012 12:38:46 AM
2,4-Dimethylphenol	110	50		µg/L	1	6/1/2012 12:38:46 AM
4,6-Dinitro-2-methylphenol	ND	100		µg/L	1	6/1/2012 12:38:46 AM
2,4-Dinitrophenol	ND	100		µg/L	1	6/1/2012 12:38:46 AM

Qualifiers: * / X Value exceeds Maximum Contaminant Level.
 E Value above quantitation range
 J Analyte detected below quantitation limits
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 RL Reporting Detection Limit
 U Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 1205B66
Date Reported: 6/27/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: EP-2

Project: 2012 SEMI ANNUAL PONDS

Collection Date: 5/29/2012 10:45:00 AM

Lab ID: 1205B66-001

Matrix: AQUEOUS

Received Date: 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
2,4-Dinitrotoluene	ND	50		µg/L	1	6/1/2012 12:38:46 AM
2,6-Dinitrotoluene	ND	50		µg/L	1	6/1/2012 12:38:46 AM
Fluoranthene	ND	50		µg/L	1	6/1/2012 12:38:46 AM
Fluorene	ND	50		µg/L	1	6/1/2012 12:38:46 AM
Hexachlorobenzene	ND	50		µg/L	1	6/1/2012 12:38:46 AM
Hexachlorobutadiene	ND	50		µg/L	1	6/1/2012 12:38:46 AM
Hexachlorocyclopentadiene	ND	50		µg/L	1	6/1/2012 12:38:46 AM
Hexachloroethane	ND	50		µg/L	1	6/1/2012 12:38:46 AM
Indeno(1,2,3-cd)pyrene	ND	50		µg/L	1	6/1/2012 12:38:46 AM
Isophorone	ND	50		µg/L	1	6/1/2012 12:38:46 AM
1-Methylnaphthalene	ND	50		µg/L	1	6/1/2012 12:38:46 AM
2-Methylnaphthalene	ND	50		µg/L	1	6/1/2012 12:38:46 AM
2-Methylphenol	580	50		µg/L	1	6/1/2012 12:38:46 AM
3+4-Methylphenol	810	250		µg/L	5	6/1/2012 8:56:31 AM
N-Nitrosodi-n-propylamine	ND	50		µg/L	1	6/1/2012 12:38:46 AM
N-Nitrosodimethylamine	ND	50		µg/L	1	6/1/2012 12:38:46 AM
N-Nitrosodiphenylamine	ND	50		µg/L	1	6/1/2012 12:38:46 AM
Naphthalene	ND	50		µg/L	1	6/1/2012 12:38:46 AM
2-Nitroaniline	ND	50		µg/L	1	6/1/2012 12:38:46 AM
3-Nitroaniline	ND	50		µg/L	1	6/1/2012 12:38:46 AM
4-Nitroaniline	ND	100		µg/L	1	6/1/2012 12:38:46 AM
Nitrobenzene	ND	50		µg/L	1	6/1/2012 12:38:46 AM
2-Nitrophenol	ND	50		µg/L	1	6/1/2012 12:38:46 AM
4-Nitrophenol	ND	50		µg/L	1	6/1/2012 12:38:46 AM
Pentachlorophenol	ND	100		µg/L	1	6/1/2012 12:38:46 AM
Phenanthrene	ND	50		µg/L	1	6/1/2012 12:38:46 AM
Phenol	1700	250		µg/L	5	6/1/2012 8:56:31 AM
Pyrene	ND	50		µg/L	1	6/1/2012 12:38:46 AM
Pyridine	ND	50		µg/L	1	6/1/2012 12:38:46 AM
1,2,4-Trichlorobenzene	ND	50		µg/L	1	6/1/2012 12:38:46 AM
2,4,5-Trichlorophenol	ND	50		µg/L	1	6/1/2012 12:38:46 AM
2,4,6-Trichlorophenol	ND	50		µg/L	1	6/1/2012 12:38:46 AM
Surr: 2,4,6-Tribromophenol	70.5	44.2-126		%REC	1	6/1/2012 12:38:46 AM
Surr: 2-Fluorobiphenyl	55.3	37-114		%REC	1	6/1/2012 12:38:46 AM
Surr: 2-Fluorophenol	42.9	23.4-98		%REC	1	6/1/2012 12:38:46 AM
Surr: 4-Terphenyl-d14	61.0	41.3-116		%REC	1	6/1/2012 12:38:46 AM
Surr: Nitrobenzene-d5	65.0	39.5-118		%REC	1	6/1/2012 12:38:46 AM
Surr: Phenol-d5	32.5	20.9-95.9		%REC	1	6/1/2012 12:38:46 AM
EPA METHOD 8260B: VOLATILES						Analyst: RAA
Benzene	ND	10		µg/L	10	6/2/2012 1:52:59 AM
Toluene	ND	10		µg/L	10	6/2/2012 1:52:59 AM

Qualifiers: * / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit
U Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.**Analytical Report**Lab Order **1205B66**

Date Reported: 6/27/2012

CLIENT: Western Refining Southwest, Gallup**Client Sample ID:** EP-2**Project:** 2012 SEMI ANNUAL PONDS**Collection Date:** 5/29/2012 10:45:00 AM**Lab ID:** 1205B66-001**Matrix:** AQUEOUS**Received Date:** 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
Ethylbenzene	ND	10		µg/L	10	6/2/2012 1:52:59 AM
Methyl tert-butyl ether (MTBE)	ND	10		µg/L	10	6/2/2012 1:52:59 AM
1,2,4-Trimethylbenzene	ND	10		µg/L	10	6/2/2012 1:52:59 AM
1,3,5-Trimethylbenzene	ND	10		µg/L	10	6/2/2012 1:52:59 AM
1,2-Dichloroethane (EDC)	ND	10		µg/L	10	6/2/2012 1:52:59 AM
1,2-Dibromoethane (EDB)	ND	10		µg/L	10	6/2/2012 1:52:59 AM
Naphthalene	ND	20		µg/L	10	6/2/2012 1:52:59 AM
1-Methylnaphthalene	ND	40		µg/L	10	6/2/2012 1:52:59 AM
2-Methylnaphthalene	ND	40		µg/L	10	6/2/2012 1:52:59 AM
Acetone	430	100		µg/L	10	6/2/2012 1:52:59 AM
Bromobenzene	ND	10		µg/L	10	6/2/2012 1:52:59 AM
Bromodichloromethane	ND	10		µg/L	10	6/2/2012 1:52:59 AM
Bromoform	ND	10		µg/L	10	6/2/2012 1:52:59 AM
Bromomethane	ND	30		µg/L	10	6/2/2012 1:52:59 AM
2-Butanone	ND	100		µg/L	10	6/2/2012 1:52:59 AM
Carbon disulfide	ND	100		µg/L	10	6/2/2012 1:52:59 AM
Carbon Tetrachloride	ND	10		µg/L	10	6/2/2012 1:52:59 AM
Chlorobenzene	ND	10		µg/L	10	6/2/2012 1:52:59 AM
Chloroethane	ND	20		µg/L	10	6/2/2012 1:52:59 AM
Chloroform	ND	10		µg/L	10	6/2/2012 1:52:59 AM
Chloromethane	ND	30		µg/L	10	6/2/2012 1:52:59 AM
2-Chlorotoluene	ND	10		µg/L	10	6/2/2012 1:52:59 AM
4-Chlorotoluene	ND	10		µg/L	10	6/2/2012 1:52:59 AM
cis-1,2-DCE	ND	10		µg/L	10	6/2/2012 1:52:59 AM
cis-1,3-Dichloropropene	ND	10		µg/L	10	6/2/2012 1:52:59 AM
1,2-Dibromo-3-chloropropane	ND	20		µg/L	10	6/2/2012 1:52:59 AM
Dibromochloromethane	ND	10		µg/L	10	6/2/2012 1:52:59 AM
Dibromomethane	ND	10		µg/L	10	6/2/2012 1:52:59 AM
1,2-Dichlorobenzene	ND	10		µg/L	10	6/2/2012 1:52:59 AM
1,3-Dichlorobenzene	ND	10		µg/L	10	6/2/2012 1:52:59 AM
1,4-Dichlorobenzene	ND	10		µg/L	10	6/2/2012 1:52:59 AM
Dichlorodifluoromethane	ND	10		µg/L	10	6/2/2012 1:52:59 AM
1,1-Dichloroethane	ND	10		µg/L	10	6/2/2012 1:52:59 AM
1,1-Dichloroethene	ND	10		µg/L	10	6/2/2012 1:52:59 AM
1,2-Dichloropropane	ND	10		µg/L	10	6/2/2012 1:52:59 AM
1,3-Dichloropropane	ND	10		µg/L	10	6/2/2012 1:52:59 AM
2,2-Dichloropropane	ND	20		µg/L	10	6/2/2012 1:52:59 AM
1,1-Dichloropropene	ND	10		µg/L	10	6/2/2012 1:52:59 AM
Hexachlorobutadiene	ND	10		µg/L	10	6/2/2012 1:52:59 AM
2-Hexanone	ND	100		µg/L	10	6/2/2012 1:52:59 AM
Isopropylbenzene	ND	10		µg/L	10	6/2/2012 1:52:59 AM
4-Isopropyltoluene	ND	10		µg/L	10	6/2/2012 1:52:59 AM

Qualifiers: */X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit
U Samples with CalcVal < MDL

Analytical Report

Lab Order 1205B66

Date Reported: 6/27/2012

Hall Environmental Analysis Laboratory, Inc.
CLIENT: Western Refining Southwest, Gallup

Client Sample ID: EP-2

Project: 2012 SEMI ANNUAL PONDS

Collection Date: 5/29/2012 10:45:00 AM

Lab ID: 1205B66-001

Matrix: AQUEOUS

Received Date: 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
4-Methyl-2-pentanone	ND	100		µg/L	10	6/2/2012 1:52:59 AM
Methylene Chloride	ND	30		µg/L	10	6/2/2012 1:52:59 AM
n-Butylbenzene	ND	10		µg/L	10	6/2/2012 1:52:59 AM
n-Propylbenzene	ND	10		µg/L	10	6/2/2012 1:52:59 AM
sec-Butylbenzene	ND	10		µg/L	10	6/2/2012 1:52:59 AM
Styrene	ND	10		µg/L	10	6/2/2012 1:52:59 AM
tert-Butylbenzene	ND	10		µg/L	10	6/2/2012 1:52:59 AM
1,1,1,2-Tetrachloroethane	ND	10		µg/L	10	6/2/2012 1:52:59 AM
1,1,2,2-Tetrachloroethane	ND	20		µg/L	10	6/2/2012 1:52:59 AM
Tetrachloroethene (PCE)	ND	10		µg/L	10	6/2/2012 1:52:59 AM
trans-1,2-DCE	ND	10		µg/L	10	6/2/2012 1:52:59 AM
trans-1,3-Dichloropropene	ND	10		µg/L	10	6/2/2012 1:52:59 AM
1,2,3-Trichlorobenzene	ND	10		µg/L	10	6/2/2012 1:52:59 AM
1,2,4-Trichlorobenzene	ND	10		µg/L	10	6/2/2012 1:52:59 AM
1,1,1-Trichloroethane	ND	10		µg/L	10	6/2/2012 1:52:59 AM
1,1,2-Trichloroethane	ND	10		µg/L	10	6/2/2012 1:52:59 AM
Trichloroethene (TCE)	ND	10		µg/L	10	6/2/2012 1:52:59 AM
Trichlorofluoromethane	ND	10		µg/L	10	6/2/2012 1:52:59 AM
1,2,3-Trichloropropane	ND	20		µg/L	10	6/2/2012 1:52:59 AM
Vinyl chloride	ND	10		µg/L	10	6/2/2012 1:52:59 AM
Xylenes, Total	ND	15		µg/L	10	6/2/2012 1:52:59 AM
Surr: 1,2-Dichloroethane-d4	101	70-130		%REC	10	6/2/2012 1:52:59 AM
Surr: 4-Bromofluorobenzene	106	70-130		%REC	10	6/2/2012 1:52:59 AM
Surr: Dibromofluoromethane	94.8	69.8-130		%REC	10	6/2/2012 1:52:59 AM
Surr: Toluene-d8	102	70-130		%REC	10	6/2/2012 1:52:59 AM
EPA 120.1: SPECIFIC CONDUCTANCE						Analyst: DBD
Conductivity	20000	0.50		µmhos/cm	50	5/31/2012 6:13:24 PM
SM4500-H+B: PH						Analyst: DBD
pH	7.60	1.68	H	pH units	1	5/31/2012 10:31:36 AM

Qualifiers: * / X Value exceeds Maximum Contaminant Level.
 E Value above quantitation range
 J Analyte detected below quantitation limits
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 RL Reporting Detection Limit
 U Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.**Analytical Report**

Lab Order 1205B66

Date Reported: 6/27/2012

CLIENT: Western Refining Southwest, Gallup**Client Sample ID:** EP-1**Project:** 2012 SEMI ANNUAL PONDS**Collection Date:** 5/29/2012 11:10:00 AM**Lab ID:** 1205B66-002**Matrix:** AQUEOUS**Received Date:** 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: BRM
Fluoride	34	2.0	*	mg/L	20	6/5/2012 3:52:20 PM
Chloride	3400	100		mg/L	200	6/5/2012 4:17:10 PM
Nitrogen, Nitrite (As N)	ND	0.50		mg/L	5	5/30/2012 5:03:34 PM
Bromide	2.0	0.50		mg/L	5	5/30/2012 5:03:34 PM
Nitrogen, Nitrate (As N)	ND	0.50		mg/L	5	5/30/2012 5:03:34 PM
Phosphorus, Orthophosphate (As P)	ND	2.5		mg/L	5	5/30/2012 5:03:34 PM
Sulfate	1300	25		mg/L	50	6/5/2012 4:04:45 PM
EPA METHOD 200.7: DISSOLVED METALS						Analyst: ELS
Barium	0.046	0.0020		mg/L	1	6/15/2012 9:40:18 AM
Cadmium	ND	0.0020		mg/L	1	6/15/2012 9:40:18 AM
Calcium	120	10		mg/L	10	6/19/2012 5:43:51 PM
Chromium	ND	0.0060		mg/L	1	6/19/2012 6:36:19 PM
Copper	ND	0.0060		mg/L	1	6/19/2012 6:36:19 PM
Iron	0.76	0.020	*	mg/L	1	6/19/2012 6:36:19 PM
Lead	ND	0.0050		mg/L	1	6/19/2012 6:36:19 PM
Magnesium	51	1.0		mg/L	1	6/15/2012 9:40:18 AM
Manganese	0.15	0.0020	*	mg/L	1	6/15/2012 9:40:18 AM
Potassium	73	1.0		mg/L	1	6/19/2012 6:36:19 PM
Silver	ND	0.0050		mg/L	1	6/15/2012 9:40:18 AM
Sodium	1600	50		mg/L	50	6/19/2012 4:59:55 PM
Zinc	0.074	0.010		mg/L	1	6/19/2012 6:36:19 PM
EPA METHOD 200.7: TOTAL METALS						Analyst: ELS
Barium	0.074	0.0020		mg/L	1	6/14/2012 10:30:22 AM
Cadmium	ND	0.0020		mg/L	1	6/14/2012 10:30:22 AM
Chromium	ND	0.0060		mg/L	1	6/14/2012 10:30:22 AM
Copper	0.014	0.0060		mg/L	1	6/15/2012 8:26:27 AM
Iron	2.3	0.10	*	mg/L	5	6/21/2012 11:45:11 AM
Lead	ND	0.0050		mg/L	1	6/14/2012 10:30:22 AM
Manganese	0.15	0.0020	*	mg/L	1	6/14/2012 10:30:22 AM
Silver	ND	0.0050		mg/L	1	6/14/2012 10:30:22 AM
Zinc	0.17	0.010		mg/L	1	6/14/2012 10:30:22 AM
EPA 200.8: DISSOLVED METALS						Analyst: SNV
Arsenic	0.0084	0.0050		mg/L	5	6/19/2012 5:30:28 PM
Selenium	0.011	0.0050		mg/L	5	6/19/2012 5:30:28 PM
Uranium	ND	0.0050		mg/L	5	6/19/2012 5:30:28 PM
200.8 ICPMS METALS:TOTAL						Analyst: SNV
Arsenic	0.0091	0.0025		mg/L	2.5	6/14/2012 1:01:50 PM
Selenium	0.0098	0.0025		mg/L	2.5	6/14/2012 1:01:50 PM
Uranium	ND	0.0025		mg/L	2.5	6/14/2012 1:01:50 PM

Qualifiers: */X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit
U Samples with CalcVal < MDL

Analytical Report

Lab Order 1205B66

Date Reported: 6/27/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: EP-1

Project: 2012 SEMI ANNUAL PONDS

Collection Date: 5/29/2012 11:10:00 AM

Lab ID: 1205B66-002

Matrix: AQUEOUS

Received Date: 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 245.1: MERCURY						Analyst: IDC
Mercury	0.00082	0.00020		mg/L	1	6/1/2012 3:42:37 PM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	50		µg/L	1	6/1/2012 1:08:07 AM
Acenaphthylene	ND	50		µg/L	1	6/1/2012 1:08:07 AM
Aniline	70	50		µg/L	1	6/1/2012 1:08:07 AM
Anthracene	ND	50		µg/L	1	6/1/2012 1:08:07 AM
Azobenzene	ND	50		µg/L	1	6/1/2012 1:08:07 AM
Benz(a)anthracene	ND	50		µg/L	1	6/1/2012 1:08:07 AM
Benzo(a)pyrene	ND	50		µg/L	1	6/1/2012 1:08:07 AM
Benzo(b)fluoranthene	ND	50		µg/L	1	6/1/2012 1:08:07 AM
Benzo(g,h,i)perylene	ND	50		µg/L	1	6/1/2012 1:08:07 AM
Benzo(k)fluoranthene	ND	50		µg/L	1	6/1/2012 1:08:07 AM
Benzoic acid	ND	100		µg/L	1	6/1/2012 1:08:07 AM
Benzyl alcohol	ND	50		µg/L	1	6/1/2012 1:08:07 AM
Bis(2-chloroethoxy)methane	ND	50		µg/L	1	6/1/2012 1:08:07 AM
Bis(2-chloroethyl)ether	ND	50		µg/L	1	6/1/2012 1:08:07 AM
Bis(2-chloroisopropyl)ether	ND	50		µg/L	1	6/1/2012 1:08:07 AM
Bis(2-ethylhexyl)phthalate	ND	50		µg/L	1	6/1/2012 1:08:07 AM
4-Bromophenyl phenyl ether	ND	50		µg/L	1	6/1/2012 1:08:07 AM
Butyl benzyl phthalate	ND	50		µg/L	1	6/1/2012 1:08:07 AM
Carbazole	ND	50		µg/L	1	6/1/2012 1:08:07 AM
4-Chloro-3-methylphenol	ND	50		µg/L	1	6/1/2012 1:08:07 AM
4-Chloroaniline	ND	50		µg/L	1	6/1/2012 1:08:07 AM
2-Chloronaphthalene	ND	50		µg/L	1	6/1/2012 1:08:07 AM
2-Chlorophenol	ND	50		µg/L	1	6/1/2012 1:08:07 AM
4-Chlorophenyl phenyl ether	ND	50		µg/L	1	6/1/2012 1:08:07 AM
Chrysene	ND	50		µg/L	1	6/1/2012 1:08:07 AM
Di-n-butyl phthalate	ND	50		µg/L	1	6/1/2012 1:08:07 AM
Di-n-octyl phthalate	ND	50		µg/L	1	6/1/2012 1:08:07 AM
Dibenz(a,h)anthracene	ND	50		µg/L	1	6/1/2012 1:08:07 AM
Dibenzofuran	ND	50		µg/L	1	6/1/2012 1:08:07 AM
1,2-Dichlorobenzene	ND	50		µg/L	1	6/1/2012 1:08:07 AM
1,3-Dichlorobenzene	ND	50		µg/L	1	6/1/2012 1:08:07 AM
1,4-Dichlorobenzene	ND	50		µg/L	1	6/1/2012 1:08:07 AM
3,3'-Dichlorobenzidine	ND	50		µg/L	1	6/1/2012 1:08:07 AM
Diethyl phthalate	ND	50		µg/L	1	6/1/2012 1:08:07 AM
Dimethyl phthalate	ND	50		µg/L	1	6/1/2012 1:08:07 AM
2,4-Dichlorophenol	ND	100		µg/L	1	6/1/2012 1:08:07 AM
2,4-Dimethylphenol	70	50		µg/L	1	6/1/2012 1:08:07 AM
4,6-Dinitro-2-methylphenol	ND	100		µg/L	1	6/1/2012 1:08:07 AM
2,4-Dinitrophenol	ND	100		µg/L	1	6/1/2012 1:08:07 AM

Qualifiers: *X Value exceeds Maximum Contaminant Level.
 E Value above quantitation range
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 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 RL Reporting Detection Limit
 U Samples with CalcVal < MDL

Analytical Report

Lab Order 1205B66

Date Reported: 6/27/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: EP-1

Project: 2012 SEMI ANNUAL PONDS

Collection Date: 5/29/2012 11:10:00 AM

Lab ID: 1205B66-002

Matrix: AQUEOUS

Received Date: 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
2,4-Dinitrotoluene	ND	50		µg/L	1	6/1/2012 1:08:07 AM
2,6-Dinitrotoluene	ND	50		µg/L	1	6/1/2012 1:08:07 AM
Fluoranthene	ND	50		µg/L	1	6/1/2012 1:08:07 AM
Fluorene	ND	50		µg/L	1	6/1/2012 1:08:07 AM
Hexachlorobenzene	ND	50		µg/L	1	6/1/2012 1:08:07 AM
Hexachlorobutadiene	ND	50		µg/L	1	6/1/2012 1:08:07 AM
Hexachlorocyclopentadiene	ND	50		µg/L	1	6/1/2012 1:08:07 AM
Hexachloroethane	ND	50		µg/L	1	6/1/2012 1:08:07 AM
Indeno(1,2,3-cd)pyrene	ND	50		µg/L	1	6/1/2012 1:08:07 AM
Isophorone	ND	50		µg/L	1	6/1/2012 1:08:07 AM
1-Methylnaphthalene	ND	50		µg/L	1	6/1/2012 1:08:07 AM
2-Methylnaphthalene	ND	50		µg/L	1	6/1/2012 1:08:07 AM
2-Methylphenol	310	50		µg/L	1	6/1/2012 1:08:07 AM
3+4-Methylphenol	700	50		µg/L	1	6/1/2012 1:08:07 AM
N-Nitrosodi-n-propylamine	ND	50		µg/L	1	6/1/2012 1:08:07 AM
N-Nitrosodimethylamine	ND	50		µg/L	1	6/1/2012 1:08:07 AM
N-Nitrosodiphenylamine	ND	50		µg/L	1	6/1/2012 1:08:07 AM
Naphthalene	ND	50		µg/L	1	6/1/2012 1:08:07 AM
2-Nitroaniline	ND	50		µg/L	1	6/1/2012 1:08:07 AM
3-Nitroaniline	ND	50		µg/L	1	6/1/2012 1:08:07 AM
4-Nitroaniline	ND	100		µg/L	1	6/1/2012 1:08:07 AM
Nitrobenzene	ND	50		µg/L	1	6/1/2012 1:08:07 AM
2-Nitrophenol	ND	50		µg/L	1	6/1/2012 1:08:07 AM
4-Nitrophenol	ND	50		µg/L	1	6/1/2012 1:08:07 AM
Pentachlorophenol	ND	100		µg/L	1	6/1/2012 1:08:07 AM
Phenanthrene	51	50		µg/L	1	6/1/2012 1:08:07 AM
Phenol	1100	100		µg/L	2	6/1/2012 9:25:36 AM
Pyrene	ND	50		µg/L	1	6/1/2012 1:08:07 AM
Pyridine	ND	50		µg/L	1	6/1/2012 1:08:07 AM
1,2,4-Trichlorobenzene	ND	50		µg/L	1	6/1/2012 1:08:07 AM
2,4,5-Trichlorophenol	ND	50		µg/L	1	6/1/2012 1:08:07 AM
2,4,6-Trichlorophenol	ND	50		µg/L	1	6/1/2012 1:08:07 AM
Surr: 2,4,6-Tribromophenol	82.4	44.2-126		%REC	1	6/1/2012 1:08:07 AM
Surr: 2-Fluorobiphenyl	68.6	37-114		%REC	1	6/1/2012 1:08:07 AM
Surr: 2-Fluorophenol	53.3	23.4-98		%REC	1	6/1/2012 1:08:07 AM
Surr: 4-Terphenyl-d14	71.5	41.3-116		%REC	1	6/1/2012 1:08:07 AM
Surr: Nitrobenzene-d5	70.8	39.5-118		%REC	1	6/1/2012 1:08:07 AM
Surr: Phenol-d5	40.8	20.9-95.9		%REC	1	6/1/2012 1:08:07 AM
EPA METHOD 8260B: VOLATILES						Analyst: RAA
Benzene	ND	10		µg/L	10	6/2/2012 2:22:24 AM
Toluene	ND	10		µg/L	10	6/2/2012 2:22:24 AM

Qualifiers: * / X Value exceeds Maximum Contaminant Level.
 E Value above quantitation range
 J Analyte detected below quantitation limits
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 RL Reporting Detection Limit
 U Samples with CalcVal < MDL

Analytical Report

Lab Order 1205B66

Date Reported: 6/27/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: EP-1

Project: 2012 SEMI ANNUAL PONDS

Collection Date: 5/29/2012 11:10:00 AM

Lab ID: 1205B66-002

Matrix: AQUEOUS

Received Date: 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
Ethylbenzene	ND	10		µg/L	10	6/2/2012 2:22:24 AM
Methyl tert-butyl ether (MTBE)	ND	10		µg/L	10	6/2/2012 2:22:24 AM
1,2,4-Trimethylbenzene	ND	10		µg/L	10	6/2/2012 2:22:24 AM
1,3,5-Trimethylbenzene	ND	10		µg/L	10	6/2/2012 2:22:24 AM
1,2-Dichloroethane (EDC)	ND	10		µg/L	10	6/2/2012 2:22:24 AM
1,2-Dibromoethane (EDB)	ND	10		µg/L	10	6/2/2012 2:22:24 AM
Naphthalene	ND	20		µg/L	10	6/2/2012 2:22:24 AM
1-Methylnaphthalene	ND	40		µg/L	10	6/2/2012 2:22:24 AM
2-Methylnaphthalene	ND	40		µg/L	10	6/2/2012 2:22:24 AM
Acetone	610	100		µg/L	10	6/2/2012 2:22:24 AM
Bromobenzene	ND	10		µg/L	10	6/2/2012 2:22:24 AM
Bromodichloromethane	ND	10		µg/L	10	6/2/2012 2:22:24 AM
Bromoform	ND	10		µg/L	10	6/2/2012 2:22:24 AM
Bromomethane	ND	30		µg/L	10	6/2/2012 2:22:24 AM
2-Butanone	110	100		µg/L	10	6/2/2012 2:22:24 AM
Carbon disulfide	ND	100		µg/L	10	6/2/2012 2:22:24 AM
Carbon Tetrachloride	ND	10		µg/L	10	6/2/2012 2:22:24 AM
Chlorobenzene	ND	10		µg/L	10	6/2/2012 2:22:24 AM
Chloroethane	ND	20		µg/L	10	6/2/2012 2:22:24 AM
Chloroform	ND	10		µg/L	10	6/2/2012 2:22:24 AM
Chloromethane	ND	30		µg/L	10	6/2/2012 2:22:24 AM
2-Chlorotoluene	ND	10		µg/L	10	6/2/2012 2:22:24 AM
4-Chlorotoluene	ND	10		µg/L	10	6/2/2012 2:22:24 AM
cis-1,2-DCE	ND	10		µg/L	10	6/2/2012 2:22:24 AM
cis-1,3-Dichloropropene	ND	10		µg/L	10	6/2/2012 2:22:24 AM
1,2-Dibromo-3-chloropropane	ND	20		µg/L	10	6/2/2012 2:22:24 AM
Dibromochloromethane	ND	10		µg/L	10	6/2/2012 2:22:24 AM
Dibromomethane	ND	10		µg/L	10	6/2/2012 2:22:24 AM
1,2-Dichlorobenzene	ND	10		µg/L	10	6/2/2012 2:22:24 AM
1,3-Dichlorobenzene	ND	10		µg/L	10	6/2/2012 2:22:24 AM
1,4-Dichlorobenzene	ND	10		µg/L	10	6/2/2012 2:22:24 AM
Dichlorodifluoromethane	ND	10		µg/L	10	6/2/2012 2:22:24 AM
1,1-Dichloroethane	ND	10		µg/L	10	6/2/2012 2:22:24 AM
1,1-Dichloroethene	ND	10		µg/L	10	6/2/2012 2:22:24 AM
1,2-Dichloropropane	ND	10		µg/L	10	6/2/2012 2:22:24 AM
1,3-Dichloropropane	ND	10		µg/L	10	6/2/2012 2:22:24 AM
2,2-Dichloropropane	ND	20		µg/L	10	6/2/2012 2:22:24 AM
1,1-Dichloropropene	ND	10		µg/L	10	6/2/2012 2:22:24 AM
Hexachlorobutadiene	ND	10		µg/L	10	6/2/2012 2:22:24 AM
2-Hexanone	ND	100		µg/L	10	6/2/2012 2:22:24 AM
Isopropylbenzene	ND	10		µg/L	10	6/2/2012 2:22:24 AM
4-Isopropyltoluene	ND	10		µg/L	10	6/2/2012 2:22:24 AM

Qualifiers: * / X Value exceeds Maximum Contaminant Level.
 E Value above quantitation range
 J Analyte detected below quantitation limits
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 RL Reporting Detection Limit
 U Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.**Analytical Report**

Lab Order 1205B66

Date Reported: 6/27/2012

CLIENT: Western Refining Southwest, Gallup**Client Sample ID:** EP-1**Project:** 2012 SEMI ANNUAL PONDS**Collection Date:** 5/29/2012 11:10:00 AM**Lab ID:** 1205B66-002**Matrix:** AQUEOUS**Received Date:** 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
4-Methyl-2-pentanone	ND	100		µg/L	10	6/2/2012 2:22:24 AM
Methylene Chloride	ND	30		µg/L	10	6/2/2012 2:22:24 AM
n-Butylbenzene	ND	10		µg/L	10	6/2/2012 2:22:24 AM
n-Propylbenzene	ND	10		µg/L	10	6/2/2012 2:22:24 AM
sec-Butylbenzene	ND	10		µg/L	10	6/2/2012 2:22:24 AM
Styrene	ND	10		µg/L	10	6/2/2012 2:22:24 AM
tert-Butylbenzene	ND	10		µg/L	10	6/2/2012 2:22:24 AM
1,1,1,2-Tetrachloroethane	ND	10		µg/L	10	6/2/2012 2:22:24 AM
1,1,2,2-Tetrachloroethane	ND	20		µg/L	10	6/2/2012 2:22:24 AM
Tetrachloroethene (PCE)	ND	10		µg/L	10	6/2/2012 2:22:24 AM
trans-1,2-DCE	ND	10		µg/L	10	6/2/2012 2:22:24 AM
trans-1,3-Dichloropropene	ND	10		µg/L	10	6/2/2012 2:22:24 AM
1,2,3-Trichlorobenzene	ND	10		µg/L	10	6/2/2012 2:22:24 AM
1,2,4-Trichlorobenzene	ND	10		µg/L	10	6/2/2012 2:22:24 AM
1,1,1-Trichloroethane	ND	10		µg/L	10	6/2/2012 2:22:24 AM
1,1,2-Trichloroethane	ND	10		µg/L	10	6/2/2012 2:22:24 AM
Trichloroethene (TCE)	ND	10		µg/L	10	6/2/2012 2:22:24 AM
Trichlorofluoromethane	ND	10		µg/L	10	6/2/2012 2:22:24 AM
1,2,3-Trichloropropane	ND	20		µg/L	10	6/2/2012 2:22:24 AM
Vinyl chloride	ND	10		µg/L	10	6/2/2012 2:22:24 AM
Xylenes, Total	ND	15		µg/L	10	6/2/2012 2:22:24 AM
Surr: 1,2-Dichloroethane-d4	99.6	70-130		%REC	10	6/2/2012 2:22:24 AM
Surr: 4-Bromofluorobenzene	100	70-130		%REC	10	6/2/2012 2:22:24 AM
Surr: Dibromofluoromethane	88.5	69.8-130		%REC	10	6/2/2012 2:22:24 AM
Surr: Toluene-d8	96.9	70-130		%REC	10	6/2/2012 2:22:24 AM
EPA 120.1: SPECIFIC CONDUCTANCE						Analyst: DBD
Conductivity	8800	0.010		µmhos/cm	1	5/31/2012 10:35:51 AM
SM4500-H+B: PH						Analyst: DBD
pH	7.75	1.68	H	pH units	1	5/31/2012 10:35:51 AM

Qualifiers: *X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit
U Samples with CalcVal < MDL

Analytical Report

Lab Order 1205B66

Date Reported: 6/27/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: EP-12B

Project: 2012 SEMI ANNUAL PONDS

Collection Date: 5/29/2012 11:35:00 AM

Lab ID: 1205B66-003

Matrix: AQUEOUS

Received Date: 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: BRM
Fluoride	19	2.0	*	mg/L	20	6/5/2012 4:29:35 PM
Chloride	7000	250		mg/L	500	6/5/2012 4:54:25 PM
Bromide	3.6	0.50		mg/L	5	5/30/2012 5:53:14 PM
Phosphorus, Orthophosphate (As P)	ND	2.5		mg/L	5	5/30/2012 5:53:14 PM
Sulfate	1500	25		mg/L	50	6/5/2012 4:42:00 PM
Nitrate+Nitrite as N	ND	4.0		mg/L	20	6/6/2012 12:21:08 AM
EPA METHOD 200.7: DISSOLVED METALS						Analyst: ELS
Barium	0.067	0.0020		mg/L	1	6/15/2012 9:48:46 AM
Cadmium	ND	0.0020		mg/L	1	6/15/2012 9:48:46 AM
Calcium	290	10		mg/L	10	6/19/2012 5:47:06 PM
Chromium	0.0071	0.0060		mg/L	1	6/19/2012 6:39:48 PM
Copper	ND	0.0060		mg/L	1	6/19/2012 6:39:48 PM
Iron	0.18	0.020		mg/L	1	6/19/2012 6:39:48 PM
Lead	ND	0.0050		mg/L	1	6/19/2012 6:39:48 PM
Magnesium	130	10		mg/L	10	6/15/2012 9:51:52 AM
Manganese	0.11	0.0020	*	mg/L	1	6/15/2012 9:48:46 AM
Potassium	190	10		mg/L	10	6/19/2012 5:47:06 PM
Silver	ND	0.0050		mg/L	1	6/15/2012 9:48:46 AM
Sodium	4300	50		mg/L	50	6/19/2012 5:02:58 PM
Zinc	0.015	0.010		mg/L	1	6/19/2012 6:39:48 PM
EPA METHOD 200.7: TOTAL METALS						Analyst: ELS
Barium	0.072	0.0020		mg/L	1	6/14/2012 10:38:19 AM
Cadmium	ND	0.0020		mg/L	1	6/14/2012 10:38:19 AM
Chromium	ND	0.0060		mg/L	1	6/14/2012 10:38:19 AM
Copper	ND	0.0060		mg/L	1	6/15/2012 8:34:21 AM
Iron	0.32	0.10	*	mg/L	5	6/19/2012 7:17:52 PM
Lead	ND	0.0050		mg/L	1	6/14/2012 10:38:19 AM
Manganese	0.12	0.0020	*	mg/L	1	6/14/2012 10:38:19 AM
Silver	ND	0.0050		mg/L	1	6/14/2012 10:38:19 AM
Zinc	ND	0.010		mg/L	1	6/14/2012 10:38:19 AM
EPA 200.8: DISSOLVED METALS						Analyst: SNV
Arsenic	0.019	0.010	*	mg/L	10	6/19/2012 5:32:20 PM
Selenium	0.024	0.010		mg/L	10	6/19/2012 5:32:20 PM
Uranium	ND	0.010		mg/L	10	6/19/2012 5:32:20 PM
200.8 ICPMS METALS:TOTAL						Analyst: SNV
Arsenic	0.016	0.0025	*	mg/L	2.5	6/14/2012 1:03:42 PM
Selenium	0.017	0.0025		mg/L	2.5	6/14/2012 1:03:42 PM
Uranium	ND	0.0025		mg/L	2.5	6/14/2012 1:03:42 PM
EPA METHOD 245.1: MERCURY						Analyst: IDC

Qualifiers: * / X Value exceeds Maximum Contaminant Level.
 E Value above quantitation range
 J Analyte detected below quantitation limits
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 RL Reporting Detection Limit
 U Samples with CalcVal < MDL

Analytical Report

Lab Order 1205B66

Date Reported: 6/27/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: EP-12B

Project: 2012 SEMI ANNUAL PONDS

Collection Date: 5/29/2012 11:35:00 AM

Lab ID: 1205B66-003

Matrix: AQUEOUS

Received Date: 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 245.1: MERCURY						Analyst: IDC
Mercury	ND	0.00020		mg/L	1	6/1/2012 3:47:53 PM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	100		µg/L	1	6/1/2012 2:58:10 AM
Acenaphthylene	ND	100		µg/L	1	6/1/2012 2:58:10 AM
Aniline	ND	100		µg/L	1	6/1/2012 2:58:10 AM
Anthracene	ND	100		µg/L	1	6/1/2012 2:58:10 AM
Azobenzene	ND	100		µg/L	1	6/1/2012 2:58:10 AM
Benz(a)anthracene	ND	100		µg/L	1	6/1/2012 2:58:10 AM
Benzo(a)pyrene	ND	100		µg/L	1	6/1/2012 2:58:10 AM
Benzo(b)fluoranthene	ND	100		µg/L	1	6/1/2012 2:58:10 AM
Benzo(g,h,i)perylene	ND	100		µg/L	1	6/1/2012 2:58:10 AM
Benzo(k)fluoranthene	ND	100		µg/L	1	6/1/2012 2:58:10 AM
Benzoic acid	ND	200		µg/L	1	6/1/2012 2:58:10 AM
Benzyl alcohol	ND	100		µg/L	1	6/1/2012 2:58:10 AM
Bis(2-chloroethoxy)methane	ND	100		µg/L	1	6/1/2012 2:58:10 AM
Bis(2-chloroethyl)ether	ND	100		µg/L	1	6/1/2012 2:58:10 AM
Bis(2-chloroisopropyl)ether	ND	100		µg/L	1	6/1/2012 2:58:10 AM
Bis(2-ethylhexyl)phthalate	ND	100		µg/L	1	6/1/2012 2:58:10 AM
4-Bromophenyl phenyl ether	ND	100		µg/L	1	6/1/2012 2:58:10 AM
Butyl benzyl phthalate	ND	100		µg/L	1	6/1/2012 2:58:10 AM
Carbazole	ND	100		µg/L	1	6/1/2012 2:58:10 AM
4-Chloro-3-methylphenol	ND	100		µg/L	1	6/1/2012 2:58:10 AM
4-Chloroaniline	ND	100		µg/L	1	6/1/2012 2:58:10 AM
2-Chloronaphthalene	ND	100		µg/L	1	6/1/2012 2:58:10 AM
2-Chlorophenol	ND	100		µg/L	1	6/1/2012 2:58:10 AM
4-Chlorophenyl phenyl ether	ND	100		µg/L	1	6/1/2012 2:58:10 AM
Chrysene	ND	100		µg/L	1	6/1/2012 2:58:10 AM
Di-n-butyl phthalate	ND	100		µg/L	1	6/1/2012 2:58:10 AM
Di-n-octyl phthalate	ND	100		µg/L	1	6/1/2012 2:58:10 AM
Dibenz(a,h)anthracene	ND	100		µg/L	1	6/1/2012 2:58:10 AM
Dibenzofuran	ND	100		µg/L	1	6/1/2012 2:58:10 AM
1,2-Dichlorobenzene	ND	100		µg/L	1	6/1/2012 2:58:10 AM
1,3-Dichlorobenzene	ND	100		µg/L	1	6/1/2012 2:58:10 AM
1,4-Dichlorobenzene	ND	100		µg/L	1	6/1/2012 2:58:10 AM
3,3'-Dichlorobenzidine	ND	100		µg/L	1	6/1/2012 2:58:10 AM
Diethyl phthalate	ND	100		µg/L	1	6/1/2012 2:58:10 AM
Dimethyl phthalate	ND	100		µg/L	1	6/1/2012 2:58:10 AM
2,4-Dichlorophenol	ND	200		µg/L	1	6/1/2012 2:58:10 AM
2,4-Dimethylphenol	ND	100		µg/L	1	6/1/2012 2:58:10 AM
4,6-Dinitro-2-methylphenol	ND	200		µg/L	1	6/1/2012 2:58:10 AM
2,4-Dinitrophenol	ND	200		µg/L	1	6/1/2012 2:58:10 AM

Qualifiers: * / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit
U Samples with CalcVal < MDL

Analytical Report

Lab Order 1205B66

Date Reported: 6/27/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: EP-12B

Project: 2012 SEMI ANNUAL PONDS

Collection Date: 5/29/2012 11:35:00 AM

Lab ID: 1205B66-003

Matrix: AQUEOUS

Received Date: 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
2,4-Dinitrotoluene	ND	100		µg/L	1	6/1/2012 2:58:10 AM
2,6-Dinitrotoluene	ND	100		µg/L	1	6/1/2012 2:58:10 AM
Fluoranthene	ND	100		µg/L	1	6/1/2012 2:58:10 AM
Fluorene	ND	100		µg/L	1	6/1/2012 2:58:10 AM
Hexachlorobenzene	ND	100		µg/L	1	6/1/2012 2:58:10 AM
Hexachlorobutadiene	ND	100		µg/L	1	6/1/2012 2:58:10 AM
Hexachlorocyclopentadiene	ND	100		µg/L	1	6/1/2012 2:58:10 AM
Hexachloroethane	ND	100		µg/L	1	6/1/2012 2:58:10 AM
Indeno(1,2,3-cd)pyrene	ND	100		µg/L	1	6/1/2012 2:58:10 AM
Isophorone	ND	100		µg/L	1	6/1/2012 2:58:10 AM
1-Methylnaphthalene	ND	100		µg/L	1	6/1/2012 2:58:10 AM
2-Methylnaphthalene	ND	100		µg/L	1	6/1/2012 2:58:10 AM
2-Methylphenol	330	100		µg/L	1	6/1/2012 2:58:10 AM
3+4-Methylphenol	560	100		µg/L	1	6/1/2012 2:58:10 AM
N-Nitrosodi-n-propylamine	ND	100		µg/L	1	6/1/2012 2:58:10 AM
N-Nitrosodimethylamine	ND	100		µg/L	1	6/1/2012 2:58:10 AM
N-Nitrosodiphenylamine	ND	100		µg/L	1	6/1/2012 2:58:10 AM
Naphthalene	ND	100		µg/L	1	6/1/2012 2:58:10 AM
2-Nitroaniline	ND	100		µg/L	1	6/1/2012 2:58:10 AM
3-Nitroaniline	ND	100		µg/L	1	6/1/2012 2:58:10 AM
4-Nitroaniline	ND	200		µg/L	1	6/1/2012 2:58:10 AM
Nitrobenzene	ND	100		µg/L	1	6/1/2012 2:58:10 AM
2-Nitrophenol	ND	100		µg/L	1	6/1/2012 2:58:10 AM
4-Nitrophenol	ND	100		µg/L	1	6/1/2012 2:58:10 AM
Pentachlorophenol	ND	200		µg/L	1	6/1/2012 2:58:10 AM
Phenanthrene	ND	100		µg/L	1	6/1/2012 2:58:10 AM
Phenol	1100	100		µg/L	1	6/1/2012 2:58:10 AM
Pyrene	ND	100		µg/L	1	6/1/2012 2:58:10 AM
Pyridine	ND	100		µg/L	1	6/1/2012 2:58:10 AM
1,2,4-Trichlorobenzene	ND	100		µg/L	1	6/1/2012 2:58:10 AM
2,4,5-Trichlorophenol	ND	100		µg/L	1	6/1/2012 2:58:10 AM
2,4,6-Trichlorophenol	ND	100		µg/L	1	6/1/2012 2:58:10 AM
Surr: 2,4,6-Tribromophenol	48.7	44.2-126		%REC	1	6/1/2012 2:58:10 AM
Surr: 2-Fluorobiphenyl	45.2	37-114		%REC	1	6/1/2012 2:58:10 AM
Surr: 2-Fluorophenol	42.5	23.4-98		%REC	1	6/1/2012 2:58:10 AM
Surr: 4-Terphenyl-d14	52.3	41.3-116		%REC	1	6/1/2012 2:58:10 AM
Surr: Nitrobenzene-d5	49.7	39.5-118		%REC	1	6/1/2012 2:58:10 AM
Surr: Phenol-d5	33.3	20.9-95.9		%REC	1	6/1/2012 2:58:10 AM
EPA METHOD 8260B: VOLATILES						Analyst: RAA
Benzene	ND	10		µg/L	10	6/2/2012 2:51:40 AM
Toluene	ND	10		µg/L	10	6/2/2012 2:51:40 AM

Qualifiers: * / X Value exceeds Maximum Contaminant Level.
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J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

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H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit
U Samples with CalcVal < MDL

Analytical Report

Lab Order 1205B66

Date Reported: 6/27/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: EP-12B

Project: 2012 SEMI ANNUAL PONDS

Collection Date: 5/29/2012 11:35:00 AM

Lab ID: 1205B66-003

Matrix: AQUEOUS

Received Date: 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
Ethylbenzene	ND	10		µg/L	10	6/2/2012 2:51:40 AM
Methyl tert-butyl ether (MTBE)	ND	10		µg/L	10	6/2/2012 2:51:40 AM
1,2,4-Trimethylbenzene	ND	10		µg/L	10	6/2/2012 2:51:40 AM
1,3,5-Trimethylbenzene	ND	10		µg/L	10	6/2/2012 2:51:40 AM
1,2-Dichloroethane (EDC)	ND	10		µg/L	10	6/2/2012 2:51:40 AM
1,2-Dibromoethane (EDB)	ND	10		µg/L	10	6/2/2012 2:51:40 AM
Naphthalene	ND	20		µg/L	10	6/2/2012 2:51:40 AM
1-Methylnaphthalene	ND	40		µg/L	10	6/2/2012 2:51:40 AM
2-Methylnaphthalene	ND	40		µg/L	10	6/2/2012 2:51:40 AM
Acetone	100	100		µg/L	10	6/2/2012 2:51:40 AM
Bromobenzene	ND	10		µg/L	10	6/2/2012 2:51:40 AM
Bromodichloromethane	ND	10		µg/L	10	6/2/2012 2:51:40 AM
Bromoform	ND	10		µg/L	10	6/2/2012 2:51:40 AM
Bromomethane	ND	30		µg/L	10	6/2/2012 2:51:40 AM
2-Butanone	ND	100		µg/L	10	6/2/2012 2:51:40 AM
Carbon disulfide	ND	100		µg/L	10	6/2/2012 2:51:40 AM
Carbon Tetrachloride	ND	10		µg/L	10	6/2/2012 2:51:40 AM
Chlorobenzene	ND	10		µg/L	10	6/2/2012 2:51:40 AM
Chloroethane	ND	20		µg/L	10	6/2/2012 2:51:40 AM
Chloroform	ND	10		µg/L	10	6/2/2012 2:51:40 AM
Chloromethane	ND	30		µg/L	10	6/2/2012 2:51:40 AM
2-Chlorotoluene	ND	10		µg/L	10	6/2/2012 2:51:40 AM
4-Chlorotoluene	ND	10		µg/L	10	6/2/2012 2:51:40 AM
cis-1,2-DCE	ND	10		µg/L	10	6/2/2012 2:51:40 AM
cis-1,3-Dichloropropene	ND	10		µg/L	10	6/2/2012 2:51:40 AM
1,2-Dibromo-3-chloropropane	ND	20		µg/L	10	6/2/2012 2:51:40 AM
Dibromochloromethane	ND	10		µg/L	10	6/2/2012 2:51:40 AM
Dibromomethane	ND	10		µg/L	10	6/2/2012 2:51:40 AM
1,2-Dichlorobenzene	ND	10		µg/L	10	6/2/2012 2:51:40 AM
1,3-Dichlorobenzene	ND	10		µg/L	10	6/2/2012 2:51:40 AM
1,4-Dichlorobenzene	ND	10		µg/L	10	6/2/2012 2:51:40 AM
Dichlorodifluoromethane	ND	10		µg/L	10	6/2/2012 2:51:40 AM
1,1-Dichloroethane	ND	10		µg/L	10	6/2/2012 2:51:40 AM
1,1-Dichloroethene	ND	10		µg/L	10	6/2/2012 2:51:40 AM
1,2-Dichloropropane	ND	10		µg/L	10	6/2/2012 2:51:40 AM
1,3-Dichloropropane	ND	10		µg/L	10	6/2/2012 2:51:40 AM
2,2-Dichloropropane	ND	20		µg/L	10	6/2/2012 2:51:40 AM
1,1-Dichloropropene	ND	10		µg/L	10	6/2/2012 2:51:40 AM
Hexachlorobutadiene	ND	10		µg/L	10	6/2/2012 2:51:40 AM
2-Hexanone	ND	100		µg/L	10	6/2/2012 2:51:40 AM
Isopropylbenzene	ND	10		µg/L	10	6/2/2012 2:51:40 AM
4-Isopropyltoluene	ND	10		µg/L	10	6/2/2012 2:51:40 AM

Qualifiers: * / X Value exceeds Maximum Contaminant Level.
 E Value above quantitation range
 J Analyte detected below quantitation limits
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 RL Reporting Detection Limit
 U Samples with CalcVal < MDL

Analytical Report

Lab Order 1205B66

Date Reported: 6/27/2012

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Western Refining Southwest, Gallup**Client Sample ID:** EP-12B**Project:** 2012 SEMI ANNUAL PONDS**Collection Date:** 5/29/2012 11:35:00 AM**Lab ID:** 1205B66-003**Matrix:** AQUEOUS**Received Date:** 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
4-Methyl-2-pentanone	ND	100		µg/L	10	6/2/2012 2:51:40 AM
Methylene Chloride	ND	30		µg/L	10	6/2/2012 2:51:40 AM
n-Butylbenzene	ND	10		µg/L	10	6/2/2012 2:51:40 AM
n-Propylbenzene	ND	10		µg/L	10	6/2/2012 2:51:40 AM
sec-Butylbenzene	ND	10		µg/L	10	6/2/2012 2:51:40 AM
Styrene	ND	10		µg/L	10	6/2/2012 2:51:40 AM
tert-Butylbenzene	ND	10		µg/L	10	6/2/2012 2:51:40 AM
1,1,1,2-Tetrachloroethane	ND	10		µg/L	10	6/2/2012 2:51:40 AM
1,1,2,2-Tetrachloroethane	ND	20		µg/L	10	6/2/2012 2:51:40 AM
Tetrachloroethene (PCE)	ND	10		µg/L	10	6/2/2012 2:51:40 AM
trans-1,2-DCE	ND	10		µg/L	10	6/2/2012 2:51:40 AM
trans-1,3-Dichloropropene	ND	10		µg/L	10	6/2/2012 2:51:40 AM
1,2,3-Trichlorobenzene	ND	10		µg/L	10	6/2/2012 2:51:40 AM
1,2,4-Trichlorobenzene	ND	10		µg/L	10	6/2/2012 2:51:40 AM
1,1,1-Trichloroethane	ND	10		µg/L	10	6/2/2012 2:51:40 AM
1,1,2-Trichloroethane	ND	10		µg/L	10	6/2/2012 2:51:40 AM
Trichloroethene (TCE)	ND	10		µg/L	10	6/2/2012 2:51:40 AM
Trichlorofluoromethane	ND	10		µg/L	10	6/2/2012 2:51:40 AM
1,2,3-Trichloropropane	ND	20		µg/L	10	6/2/2012 2:51:40 AM
Vinyl chloride	ND	10		µg/L	10	6/2/2012 2:51:40 AM
Xylenes, Total	ND	15		µg/L	10	6/2/2012 2:51:40 AM
Surr: 1,2-Dichloroethane-d4	108	70-130		%REC	10	6/2/2012 2:51:40 AM
Surr: 4-Bromofluorobenzene	104	70-130		%REC	10	6/2/2012 2:51:40 AM
Surr: Dibromofluoromethane	101	69.8-130		%REC	10	6/2/2012 2:51:40 AM
Surr: Toluene-d8	106	70-130		%REC	10	6/2/2012 2:51:40 AM
EPA 120.1: SPECIFIC CONDUCTANCE						Analyst: DBD
Conductivity	25000	0.50		µmhos/cm	50	5/31/2012 6:17:40 PM
SM4500-H+B: PH						Analyst: DBD
pH	7.75	1.68	H	pH units	1	5/31/2012 10:40:00 AM

Qualifiers: * / X Value exceeds Maximum Contaminant Level.
 E Value above quantitation range
 J Analyte detected below quantitation limits
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 RL Reporting Detection Limit
 U Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1205B66

Date Reported: 6/27/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: EP-12A

Project: 2012 SEMI ANNUAL PONDS

Collection Date: 5/29/2012 11:55:00 AM

Lab ID: 1205B66-004

Matrix: AQUEOUS

Received Date: 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: BRM
Fluoride	23	2.0	*	mg/L	20	6/5/2012 5:44:03 PM
Chloride	7600	250		mg/L	500	6/5/2012 5:06:49 PM
Bromide	5.0	0.50		mg/L	5	5/30/2012 6:05:39 PM
Phosphorus, Orthophosphate (As P)	ND	2.5		mg/L	5	5/30/2012 6:05:39 PM
Sulfate	2300	50		mg/L	100	6/5/2012 5:56:28 PM
Nitrate+Nitrite as N	ND	4.0		mg/L	20	6/6/2012 1:10:48 AM
EPA METHOD 200.7: DISSOLVED METALS						Analyst: ELS
Barium	0.075	0.0020		mg/L	1	6/15/2012 9:55:13 AM
Cadmium	ND	0.0020		mg/L	1	6/15/2012 9:55:13 AM
Calcium	310	10		mg/L	10	6/19/2012 5:50:30 PM
Chromium	0.011	0.0060		mg/L	1	6/19/2012 6:42:52 PM
Copper	ND	0.0060		mg/L	1	6/19/2012 6:42:52 PM
Iron	0.16	0.020		mg/L	1	6/19/2012 6:42:52 PM
Lead	ND	0.0050		mg/L	1	6/19/2012 6:42:52 PM
Magnesium	130	10		mg/L	10	6/15/2012 9:58:16 AM
Manganese	0.73	0.0020	*	mg/L	1	6/15/2012 9:55:13 AM
Potassium	240	10		mg/L	10	6/19/2012 5:50:30 PM
Silver	ND	0.0050		mg/L	1	6/15/2012 9:55:13 AM
Sodium	4000	50		mg/L	50	6/19/2012 5:06:12 PM
Zinc	0.080	0.010		mg/L	1	6/19/2012 6:42:52 PM
EPA METHOD 200.7: TOTAL METALS						Analyst: ELS
Barium	0.083	0.0020		mg/L	1	6/14/2012 10:54:00 AM
Cadmium	ND	0.0020		mg/L	1	6/14/2012 10:54:00 AM
Chromium	0.0097	0.0060		mg/L	1	6/14/2012 10:54:00 AM
Copper	ND	0.0060		mg/L	1	6/15/2012 8:37:28 AM
Iron	0.52	0.020	*	mg/L	1	6/19/2012 7:21:16 PM
Lead	ND	0.0050		mg/L	1	6/14/2012 10:54:00 AM
Manganese	0.75	0.0020	*	mg/L	1	6/14/2012 10:54:00 AM
Silver	ND	0.0050		mg/L	1	6/14/2012 10:54:00 AM
Zinc	0.016	0.010		mg/L	1	6/14/2012 10:54:00 AM
EPA 200.8: DISSOLVED METALS						Analyst: SNV
Arsenic	0.026	0.010	*	mg/L	10	6/19/2012 5:36:04 PM
Selenium	0.018	0.010		mg/L	10	6/19/2012 5:36:04 PM
Uranium	ND	0.010		mg/L	10	6/19/2012 5:36:04 PM
200.8 ICPMS METALS:TOTAL						Analyst: SNV
Arsenic	0.025	0.0025	*	mg/L	2.5	6/14/2012 1:05:34 PM
Selenium	0.017	0.0025		mg/L	2.5	6/14/2012 1:05:34 PM
Uranium	ND	0.0025		mg/L	2.5	6/14/2012 1:05:34 PM
EPA METHOD 245.1: MERCURY						Analyst: IDC

Qualifiers: * / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit
U Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1205B66

Date Reported: 6/27/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: EP-12A

Project: 2012 SEMI ANNUAL PONDS

Collection Date: 5/29/2012 11:55:00 AM

Lab ID: 1205B66-004

Matrix: AQUEOUS

Received Date: 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 245.1: MERCURY						
Mercury	ND	0.00020		mg/L	1	Analyst: IDC 6/1/2012 3:49:39 PM
EPA METHOD 8270C: SEMIVOLATILES						
Acenaphthene	ND	50		µg/L	1	Analyst: JDC 6/1/2012 3:27:36 AM
Acenaphthylene	ND	50		µg/L	1	6/1/2012 3:27:36 AM
Aniline	ND	50		µg/L	1	6/1/2012 3:27:36 AM
Anthracene	ND	50		µg/L	1	6/1/2012 3:27:36 AM
Azobenzene	ND	50		µg/L	1	6/1/2012 3:27:36 AM
Benz(a)anthracene	ND	50		µg/L	1	6/1/2012 3:27:36 AM
Benzo(a)pyrene	ND	50		µg/L	1	6/1/2012 3:27:36 AM
Benzo(b)fluoranthene	ND	50		µg/L	1	6/1/2012 3:27:36 AM
Benzo(g,h,i)perylene	ND	50		µg/L	1	6/1/2012 3:27:36 AM
Benzo(k)fluoranthene	ND	50		µg/L	1	6/1/2012 3:27:36 AM
Benzoic acid	ND	100		µg/L	1	6/1/2012 3:27:36 AM
Benzyl alcohol	ND	50		µg/L	1	6/1/2012 3:27:36 AM
Bis(2-chloroethoxy)methane	ND	50		µg/L	1	6/1/2012 3:27:36 AM
Bis(2-chloroethyl)ether	ND	50		µg/L	1	6/1/2012 3:27:36 AM
Bis(2-chloroisopropyl)ether	ND	50		µg/L	1	6/1/2012 3:27:36 AM
Bis(2-ethylhexyl)phthalate	ND	50		µg/L	1	6/1/2012 3:27:36 AM
4-Bromophenyl phenyl ether	ND	50		µg/L	1	6/1/2012 3:27:36 AM
Butyl benzyl phthalate	ND	50		µg/L	1	6/1/2012 3:27:36 AM
Carbazole	ND	50		µg/L	1	6/1/2012 3:27:36 AM
4-Chloro-3-methylphenol	ND	50		µg/L	1	6/1/2012 3:27:36 AM
4-Chloroaniline	ND	50		µg/L	1	6/1/2012 3:27:36 AM
2-Chloronaphthalene	ND	50		µg/L	1	6/1/2012 3:27:36 AM
2-Chlorophenol	ND	50		µg/L	1	6/1/2012 3:27:36 AM
4-Chlorophenyl phenyl ether	ND	50		µg/L	1	6/1/2012 3:27:36 AM
Chrysene	ND	50		µg/L	1	6/1/2012 3:27:36 AM
Di-n-butyl phthalate	ND	50		µg/L	1	6/1/2012 3:27:36 AM
Di-n-octyl phthalate	ND	50		µg/L	1	6/1/2012 3:27:36 AM
Dibenz(a,h)anthracene	ND	50		µg/L	1	6/1/2012 3:27:36 AM
Dibenzofuran	ND	50		µg/L	1	6/1/2012 3:27:36 AM
1,2-Dichlorobenzene	ND	50		µg/L	1	6/1/2012 3:27:36 AM
1,3-Dichlorobenzene	ND	50		µg/L	1	6/1/2012 3:27:36 AM
1,4-Dichlorobenzene	ND	50		µg/L	1	6/1/2012 3:27:36 AM
3,3'-Dichlorobenzidine	ND	50		µg/L	1	6/1/2012 3:27:36 AM
Diethyl phthalate	ND	50		µg/L	1	6/1/2012 3:27:36 AM
Dimethyl phthalate	ND	50		µg/L	1	6/1/2012 3:27:36 AM
2,4-Dichlorophenol	ND	100		µg/L	1	6/1/2012 3:27:36 AM
2,4-Dimethylphenol	ND	50		µg/L	1	6/1/2012 3:27:36 AM
4,6-Dinitro-2-methylphenol	ND	100		µg/L	1	6/1/2012 3:27:36 AM
2,4-Dinitrophenol	ND	100		µg/L	1	6/1/2012 3:27:36 AM

Qualifiers: * / X Value exceeds Maximum Contaminant Level.
 E Value above quantitation range
 J Analyte detected below quantitation limits
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 RL Reporting Detection Limit
 U Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1205B66

Date Reported: 6/27/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: EP-12A

Project: 2012 SEMI ANNUAL PONDS

Collection Date: 5/29/2012 11:55:00 AM

Lab ID: 1205B66-004

Matrix: AQUEOUS

Received Date: 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
2,4-Dinitrotoluene	ND	50		µg/L	1	6/1/2012 3:27:36 AM
2,6-Dinitrotoluene	ND	50		µg/L	1	6/1/2012 3:27:36 AM
Fluoranthene	ND	50		µg/L	1	6/1/2012 3:27:36 AM
Fluorene	ND	50		µg/L	1	6/1/2012 3:27:36 AM
Hexachlorobenzene	ND	50		µg/L	1	6/1/2012 3:27:36 AM
Hexachlorobutadiene	ND	50		µg/L	1	6/1/2012 3:27:36 AM
Hexachlorocyclopentadiene	ND	50		µg/L	1	6/1/2012 3:27:36 AM
Hexachloroethane	ND	50		µg/L	1	6/1/2012 3:27:36 AM
Indeno(1,2,3-cd)pyrene	ND	50		µg/L	1	6/1/2012 3:27:36 AM
Isophorone	ND	50		µg/L	1	6/1/2012 3:27:36 AM
1-Methylnaphthalene	ND	50		µg/L	1	6/1/2012 3:27:36 AM
2-Methylnaphthalene	ND	50		µg/L	1	6/1/2012 3:27:36 AM
2-Methylphenol	ND	50		µg/L	1	6/1/2012 3:27:36 AM
3+4-Methylphenol	ND	50		µg/L	1	6/1/2012 3:27:36 AM
N-Nitrosodi-n-propylamine	ND	50		µg/L	1	6/1/2012 3:27:36 AM
N-Nitrosodimethylamine	ND	50		µg/L	1	6/1/2012 3:27:36 AM
N-Nitrosodiphenylamine	ND	50		µg/L	1	6/1/2012 3:27:36 AM
Naphthalene	ND	50		µg/L	1	6/1/2012 3:27:36 AM
2-Nitroaniline	ND	50		µg/L	1	6/1/2012 3:27:36 AM
3-Nitroaniline	ND	50		µg/L	1	6/1/2012 3:27:36 AM
4-Nitroaniline	ND	100		µg/L	1	6/1/2012 3:27:36 AM
Nitrobenzene	ND	50		µg/L	1	6/1/2012 3:27:36 AM
2-Nitrophenol	ND	50		µg/L	1	6/1/2012 3:27:36 AM
4-Nitrophenol	ND	50		µg/L	1	6/1/2012 3:27:36 AM
Pentachlorophenol	ND	100		µg/L	1	6/1/2012 3:27:36 AM
Phenanthrene	ND	50		µg/L	1	6/1/2012 3:27:36 AM
Phenol	ND	50		µg/L	1	6/1/2012 3:27:36 AM
Pyrene	ND	50		µg/L	1	6/1/2012 3:27:36 AM
Pyridine	ND	50		µg/L	1	6/1/2012 3:27:36 AM
1,2,4-Trichlorobenzene	ND	50		µg/L	1	6/1/2012 3:27:36 AM
2,4,5-Trichlorophenol	ND	50		µg/L	1	6/1/2012 3:27:36 AM
2,4,6-Trichlorophenol	ND	50		µg/L	1	6/1/2012 3:27:36 AM
Surr: 2,4,6-Tribromophenol	33.7	44.2-126	S	%REC	1	6/1/2012 3:27:36 AM
Surr: 2-Fluorobiphenyl	67.4	37-114		%REC	1	6/1/2012 3:27:36 AM
Surr: 2-Fluorophenol	32.7	23.4-98		%REC	1	6/1/2012 3:27:36 AM
Surr: 4-Terphenyl-d14	75.6	41.3-116		%REC	1	6/1/2012 3:27:36 AM
Surr: Nitrobenzene-d5	69.7	39.5-118		%REC	1	6/1/2012 3:27:36 AM
Surr: Phenol-d5	35.5	20.9-95.9		%REC	1	6/1/2012 3:27:36 AM
EPA METHOD 8260B: VOLATILES						Analyst: RAA
Benzene	ND	10		µg/L	10	6/2/2012 3:20:54 AM
Toluene	ND	10		µg/L	10	6/2/2012 3:20:54 AM

Qualifiers: * / X Value exceeds Maximum Contaminant Level.
 E Value above quantitation range
 J Analyte detected below quantitation limits
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 RL Reporting Detection Limit
 U Samples with CalcVal < MDL

Analytical Report

Lab Order 1205B66

Date Reported: 6/27/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: EP-12A

Project: 2012 SEMI ANNUAL PONDS

Collection Date: 5/29/2012 11:55:00 AM

Lab ID: 1205B66-004

Matrix: AQUEOUS

Received Date: 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
Ethylbenzene	ND	10		µg/L	10	6/2/2012 3:20:54 AM
Methyl tert-butyl ether (MTBE)	ND	10		µg/L	10	6/2/2012 3:20:54 AM
1,2,4-Trimethylbenzene	ND	10		µg/L	10	6/2/2012 3:20:54 AM
1,3,5-Trimethylbenzene	ND	10		µg/L	10	6/2/2012 3:20:54 AM
1,2-Dichloroethane (EDC)	ND	10		µg/L	10	6/2/2012 3:20:54 AM
1,2-Dibromoethane (EDB)	ND	10		µg/L	10	6/2/2012 3:20:54 AM
Naphthalene	ND	20		µg/L	10	6/2/2012 3:20:54 AM
1-Methylnaphthalene	ND	40		µg/L	10	6/2/2012 3:20:54 AM
2-Methylnaphthalene	ND	40		µg/L	10	6/2/2012 3:20:54 AM
Acetone	ND	100		µg/L	10	6/2/2012 3:20:54 AM
Bromobenzene	ND	10		µg/L	10	6/2/2012 3:20:54 AM
Bromodichloromethane	ND	10		µg/L	10	6/2/2012 3:20:54 AM
Bromoform	ND	10		µg/L	10	6/2/2012 3:20:54 AM
Bromomethane	ND	30		µg/L	10	6/2/2012 3:20:54 AM
2-Butanone	ND	100		µg/L	10	6/2/2012 3:20:54 AM
Carbon disulfide	ND	100		µg/L	10	6/2/2012 3:20:54 AM
Carbon Tetrachloride	ND	10		µg/L	10	6/2/2012 3:20:54 AM
Chlorobenzene	ND	10		µg/L	10	6/2/2012 3:20:54 AM
Chloroethane	ND	20		µg/L	10	6/2/2012 3:20:54 AM
Chloroform	ND	10		µg/L	10	6/2/2012 3:20:54 AM
Chloromethane	ND	30		µg/L	10	6/2/2012 3:20:54 AM
2-Chlorotoluene	ND	10		µg/L	10	6/2/2012 3:20:54 AM
4-Chlorotoluene	ND	10		µg/L	10	6/2/2012 3:20:54 AM
cis-1,2-DCE	ND	10		µg/L	10	6/2/2012 3:20:54 AM
cis-1,3-Dichloropropene	ND	10		µg/L	10	6/2/2012 3:20:54 AM
1,2-Dibromo-3-chloropropane	ND	20		µg/L	10	6/2/2012 3:20:54 AM
Dibromochloromethane	ND	10		µg/L	10	6/2/2012 3:20:54 AM
Dibromomethane	ND	10		µg/L	10	6/2/2012 3:20:54 AM
1,2-Dichlorobenzene	ND	10		µg/L	10	6/2/2012 3:20:54 AM
1,3-Dichlorobenzene	ND	10		µg/L	10	6/2/2012 3:20:54 AM
1,4-Dichlorobenzene	ND	10		µg/L	10	6/2/2012 3:20:54 AM
Dichlorodifluoromethane	ND	10		µg/L	10	6/2/2012 3:20:54 AM
1,1-Dichloroethane	ND	10		µg/L	10	6/2/2012 3:20:54 AM
1,1-Dichloroethene	ND	10		µg/L	10	6/2/2012 3:20:54 AM
1,2-Dichloropropane	ND	10		µg/L	10	6/2/2012 3:20:54 AM
1,3-Dichloropropane	ND	10		µg/L	10	6/2/2012 3:20:54 AM
2,2-Dichloropropane	ND	20		µg/L	10	6/2/2012 3:20:54 AM
1,1-Dichloropropene	ND	10		µg/L	10	6/2/2012 3:20:54 AM
Hexachlorobutadiene	ND	10		µg/L	10	6/2/2012 3:20:54 AM
2-Hexanone	ND	100		µg/L	10	6/2/2012 3:20:54 AM
Isopropylbenzene	ND	10		µg/L	10	6/2/2012 3:20:54 AM
4-Isopropyltoluene	ND	10		µg/L	10	6/2/2012 3:20:54 AM

Qualifiers: * / X Value exceeds Maximum Contaminant Level.
 E Value above quantitation range
 J Analyte detected below quantitation limits
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 RL Reporting Detection Limit
 U Samples with CalcVal < MDL

Analytical Report

Lab Order 1205B66

Date Reported: 6/27/2012

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Western Refining Southwest, Gallup**Client Sample ID:** EP-12A**Project:** 2012 SEMI ANNUAL PONDS**Collection Date:** 5/29/2012 11:55:00 AM**Lab ID:** 1205B66-004**Matrix:** AQUEOUS**Received Date:** 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
4-Methyl-2-pentanone	ND	100		µg/L	10	6/2/2012 3:20:54 AM
Methylene Chloride	ND	30		µg/L	10	6/2/2012 3:20:54 AM
n-Butylbenzene	ND	10		µg/L	10	6/2/2012 3:20:54 AM
n-Propylbenzene	ND	10		µg/L	10	6/2/2012 3:20:54 AM
sec-Butylbenzene	ND	10		µg/L	10	6/2/2012 3:20:54 AM
Styrene	ND	10		µg/L	10	6/2/2012 3:20:54 AM
tert-Butylbenzene	ND	10		µg/L	10	6/2/2012 3:20:54 AM
1,1,1,2-Tetrachloroethane	ND	10		µg/L	10	6/2/2012 3:20:54 AM
1,1,2,2-Tetrachloroethane	ND	20		µg/L	10	6/2/2012 3:20:54 AM
Tetrachloroethene (PCE)	ND	10		µg/L	10	6/2/2012 3:20:54 AM
trans-1,2-DCE	ND	10		µg/L	10	6/2/2012 3:20:54 AM
trans-1,3-Dichloropropene	ND	10		µg/L	10	6/2/2012 3:20:54 AM
1,2,3-Trichlorobenzene	ND	10		µg/L	10	6/2/2012 3:20:54 AM
1,2,4-Trichlorobenzene	ND	10		µg/L	10	6/2/2012 3:20:54 AM
1,1,1-Trichloroethane	ND	10		µg/L	10	6/2/2012 3:20:54 AM
1,1,2-Trichloroethane	ND	10		µg/L	10	6/2/2012 3:20:54 AM
Trichloroethene (TCE)	ND	10		µg/L	10	6/2/2012 3:20:54 AM
Trichlorofluoromethane	ND	10		µg/L	10	6/2/2012 3:20:54 AM
1,2,3-Trichloropropane	ND	20		µg/L	10	6/2/2012 3:20:54 AM
Vinyl chloride	ND	10		µg/L	10	6/2/2012 3:20:54 AM
Xylenes, Total	ND	15		µg/L	10	6/2/2012 3:20:54 AM
Surr: 1,2-Dichloroethane-d4	99.7	70-130		%REC	10	6/2/2012 3:20:54 AM
Surr: 4-Bromofluorobenzene	101	70-130		%REC	10	6/2/2012 3:20:54 AM
Surr: Dibromofluoromethane	96.1	69.8-130		%REC	10	6/2/2012 3:20:54 AM
Surr: Toluene-d8	108	70-130		%REC	10	6/2/2012 3:20:54 AM
EPA 120.1: SPECIFIC CONDUCTANCE						Analyst: DBD
Conductivity	25000	0.50		µmhos/cm	50	5/31/2012 6:21:55 PM
SM4500-H+B: PH						Analyst: DBD
pH	7.88	1.68	H	pH units	1	5/31/2012 10:44:15 AM

Qualifiers: * / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit
U Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1205B66

Date Reported: 6/27/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: EP-11

Project: 2012 SEMI ANNUAL PONDS

Collection Date: 5/29/2012 12:10:00 PM

Lab ID: 1205B66-005

Matrix: AQUEOUS

Received Date: 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: BRM
Fluoride	22	2.0	*	mg/L	20	6/5/2012 6:08:52 PM
Chloride	8200	500		mg/L	1000	6/11/2012 5:50:57 PM
Bromide	5.1	0.50		mg/L	5	5/30/2012 6:18:03 PM
Phosphorus, Orthophosphate (As P)	ND	2.5		mg/L	5	5/30/2012 6:18:03 PM
Sulfate	3700	50		mg/L	100	6/5/2012 6:21:17 PM
Nitrate+Nitrite as N	ND	4.0		mg/L	20	6/6/2012 1:23:12 AM
EPA METHOD 200.7: DISSOLVED METALS						Analyst: ELS
Barium	0.081	0.0020		mg/L	1	6/15/2012 10:01:37 AM
Cadmium	ND	0.0020		mg/L	1	6/15/2012 10:01:37 AM
Calcium	360	10		mg/L	10	6/19/2012 5:53:52 PM
Chromium	0.011	0.0060		mg/L	1	6/19/2012 6:45:55 PM
Copper	ND	0.0060		mg/L	1	6/19/2012 6:45:55 PM
Iron	0.16	0.020		mg/L	1	6/19/2012 6:45:55 PM
Lead	ND	0.0050		mg/L	1	6/19/2012 6:45:55 PM
Magnesium	160	10		mg/L	10	6/15/2012 10:04:41 AM
Manganese	0.78	0.0020	*	mg/L	1	6/15/2012 10:01:37 AM
Potassium	310	10		mg/L	10	6/19/2012 5:53:52 PM
Silver	ND	0.0050		mg/L	1	6/15/2012 10:01:37 AM
Sodium	4800	100		mg/L	100	6/19/2012 4:23:04 PM
Zinc	0.023	0.010		mg/L	1	6/19/2012 6:45:55 PM
EPA METHOD 200.7: TOTAL METALS						Analyst: ELS
Barium	0.086	0.0020		mg/L	1	6/14/2012 11:00:28 AM
Cadmium	ND	0.0020		mg/L	1	6/14/2012 11:00:28 AM
Chromium	0.0099	0.0060		mg/L	1	6/14/2012 11:00:28 AM
Copper	ND	0.0060		mg/L	1	6/15/2012 8:40:31 AM
Iron	0.48	0.020	*	mg/L	1	6/19/2012 7:24:20 PM
Lead	ND	0.0050		mg/L	1	6/14/2012 11:00:28 AM
Manganese	0.80	0.0020	*	mg/L	1	6/14/2012 11:00:28 AM
Silver	ND	0.0050		mg/L	1	6/14/2012 11:00:28 AM
Zinc	0.014	0.010		mg/L	1	6/14/2012 11:00:28 AM
EPA 200.8: DISSOLVED METALS						Analyst: SNV
Arsenic	0.030	0.010	*	mg/L	10	6/19/2012 5:37:56 PM
Selenium	0.019	0.010		mg/L	10	6/19/2012 5:37:56 PM
Uranium	ND	0.010		mg/L	10	6/19/2012 5:37:56 PM
200.8 ICPMS METALS:TOTAL						Analyst: SNV
Arsenic	0.028	0.0025	*	mg/L	2.5	6/14/2012 1:07:26 PM
Selenium	0.017	0.0025		mg/L	2.5	6/14/2012 1:07:26 PM
Uranium	ND	0.0025		mg/L	2.5	6/14/2012 1:07:26 PM
EPA METHOD 245.1: MERCURY						Analyst: IDC

Qualifiers: */X Value exceeds Maximum Contaminant Level.
 E Value above quantitation range
 J Analyte detected below quantitation limits
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 RL Reporting Detection Limit
 U Samples with CalcVal < MDL

Analytical Report

Lab Order 1205B66

Date Reported: 6/27/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: EP-11

Project: 2012 SEMI ANNUAL PONDS

Collection Date: 5/29/2012 12:10:00 PM

Lab ID: 1205B66-005

Matrix: AQUEOUS

Received Date: 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 245.1: MERCURY						Analyst: IDC
Mercury	ND	0.00020		mg/L	1	6/1/2012 3:51:24 PM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	50		µg/L	1	6/1/2012 3:56:57 AM
Acenaphthylene	ND	50		µg/L	1	6/1/2012 3:56:57 AM
Aniline	ND	50		µg/L	1	6/1/2012 3:56:57 AM
Anthracene	ND	50		µg/L	1	6/1/2012 3:56:57 AM
Azobenzene	ND	50		µg/L	1	6/1/2012 3:56:57 AM
Benz(a)anthracene	ND	50		µg/L	1	6/1/2012 3:56:57 AM
Benzo(a)pyrene	ND	50		µg/L	1	6/1/2012 3:56:57 AM
Benzo(b)fluoranthene	ND	50		µg/L	1	6/1/2012 3:56:57 AM
Benzo(g,h,i)perylene	ND	50		µg/L	1	6/1/2012 3:56:57 AM
Benzo(k)fluoranthene	ND	50		µg/L	1	6/1/2012 3:56:57 AM
Benzoic acid	ND	100		µg/L	1	6/1/2012 3:56:57 AM
Benzyl alcohol	ND	50		µg/L	1	6/1/2012 3:56:57 AM
Bis(2-chloroethoxy)methane	ND	50		µg/L	1	6/1/2012 3:56:57 AM
Bis(2-chloroethyl)ether	ND	50		µg/L	1	6/1/2012 3:56:57 AM
Bis(2-chloroisopropyl)ether	ND	50		µg/L	1	6/1/2012 3:56:57 AM
Bis(2-ethylhexyl)phthalate	ND	50		µg/L	1	6/1/2012 3:56:57 AM
4-Bromophenyl phenyl ether	ND	50		µg/L	1	6/1/2012 3:56:57 AM
Butyl benzyl phthalate	ND	50		µg/L	1	6/1/2012 3:56:57 AM
Carbazole	ND	50		µg/L	1	6/1/2012 3:56:57 AM
4-Chloro-3-methylphenol	ND	50		µg/L	1	6/1/2012 3:56:57 AM
4-Chloroaniline	ND	50		µg/L	1	6/1/2012 3:56:57 AM
2-Chloronaphthalene	ND	50		µg/L	1	6/1/2012 3:56:57 AM
2-Chlorophenol	ND	50		µg/L	1	6/1/2012 3:56:57 AM
4-Chlorophenyl phenyl ether	ND	50		µg/L	1	6/1/2012 3:56:57 AM
Chrysene	ND	50		µg/L	1	6/1/2012 3:56:57 AM
Di-n-butyl phthalate	ND	50		µg/L	1	6/1/2012 3:56:57 AM
Di-n-octyl phthalate	ND	50		µg/L	1	6/1/2012 3:56:57 AM
Dibenz(a,h)anthracene	ND	50		µg/L	1	6/1/2012 3:56:57 AM
Dibenzofuran	ND	50		µg/L	1	6/1/2012 3:56:57 AM
1,2-Dichlorobenzene	ND	50		µg/L	1	6/1/2012 3:56:57 AM
1,3-Dichlorobenzene	ND	50		µg/L	1	6/1/2012 3:56:57 AM
1,4-Dichlorobenzene	ND	50		µg/L	1	6/1/2012 3:56:57 AM
3,3'-Dichlorobenzidine	ND	50		µg/L	1	6/1/2012 3:56:57 AM
Diethyl phthalate	ND	50		µg/L	1	6/1/2012 3:56:57 AM
Dimethyl phthalate	ND	50		µg/L	1	6/1/2012 3:56:57 AM
2,4-Dichlorophenol	ND	100		µg/L	1	6/1/2012 3:56:57 AM
2,4-Dimethylphenol	ND	50		µg/L	1	6/1/2012 3:56:57 AM
4,6-Dinitro-2-methylphenol	ND	100		µg/L	1	6/1/2012 3:56:57 AM
2,4-Dinitrophenol	ND	100		µg/L	1	6/1/2012 3:56:57 AM

Qualifiers: *X Value exceeds Maximum Contaminant Level.
 E Value above quantitation range
 J Analyte detected below quantitation limits
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 RL Reporting Detection Limit
 U Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1205B66

Date Reported: 6/27/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: EP-11

Project: 2012 SEMI ANNUAL PONDS

Collection Date: 5/29/2012 12:10:00 PM

Lab ID: 1205B66-005

Matrix: AQUEOUS

Received Date: 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
2,4-Dinitrotoluene	ND	50		µg/L	1	6/1/2012 3:56:57 AM
2,6-Dinitrotoluene	ND	50		µg/L	1	6/1/2012 3:56:57 AM
Fluoranthene	ND	50		µg/L	1	6/1/2012 3:56:57 AM
Fluorene	ND	50		µg/L	1	6/1/2012 3:56:57 AM
Hexachlorobenzene	ND	50		µg/L	1	6/1/2012 3:56:57 AM
Hexachlorobutadiene	ND	50		µg/L	1	6/1/2012 3:56:57 AM
Hexachlorocyclopentadiene	ND	50		µg/L	1	6/1/2012 3:56:57 AM
Hexachloroethane	ND	50		µg/L	1	6/1/2012 3:56:57 AM
Indeno(1,2,3-cd)pyrene	ND	50		µg/L	1	6/1/2012 3:56:57 AM
Isophorone	ND	50		µg/L	1	6/1/2012 3:56:57 AM
1-Methylnaphthalene	ND	50		µg/L	1	6/1/2012 3:56:57 AM
2-Methylnaphthalene	ND	50		µg/L	1	6/1/2012 3:56:57 AM
2-Methylphenol	ND	50		µg/L	1	6/1/2012 3:56:57 AM
3+4-Methylphenol	ND	50		µg/L	1	6/1/2012 3:56:57 AM
N-Nitrosodi-n-propylamine	ND	50		µg/L	1	6/1/2012 3:56:57 AM
N-Nitrosodimethylamine	ND	50		µg/L	1	6/1/2012 3:56:57 AM
N-Nitrosodiphenylamine	ND	50		µg/L	1	6/1/2012 3:56:57 AM
Naphthalene	ND	50		µg/L	1	6/1/2012 3:56:57 AM
2-Nitroaniline	ND	50		µg/L	1	6/1/2012 3:56:57 AM
3-Nitroaniline	ND	50		µg/L	1	6/1/2012 3:56:57 AM
4-Nitroaniline	ND	100		µg/L	1	6/1/2012 3:56:57 AM
Nitrobenzene	ND	50		µg/L	1	6/1/2012 3:56:57 AM
2-Nitrophenol	ND	50		µg/L	1	6/1/2012 3:56:57 AM
4-Nitrophenol	ND	50		µg/L	1	6/1/2012 3:56:57 AM
Pentachlorophenol	ND	100		µg/L	1	6/1/2012 3:56:57 AM
Phenanthrene	ND	50		µg/L	1	6/1/2012 3:56:57 AM
Phenol	ND	50		µg/L	1	6/1/2012 3:56:57 AM
Pyrene	ND	50		µg/L	1	6/1/2012 3:56:57 AM
Pyridine	ND	50		µg/L	1	6/1/2012 3:56:57 AM
1,2,4-Trichlorobenzene	ND	50		µg/L	1	6/1/2012 3:56:57 AM
2,4,5-Trichlorophenol	ND	50		µg/L	1	6/1/2012 3:56:57 AM
2,4,6-Trichlorophenol	ND	50		µg/L	1	6/1/2012 3:56:57 AM
Surr: 2,4,6-Tribromophenol	72.6	44.2-126		%REC	1	6/1/2012 3:56:57 AM
Surr: 2-Fluorobiphenyl	73.3	37-114		%REC	1	6/1/2012 3:56:57 AM
Surr: 2-Fluorophenol	60.6	23.4-98		%REC	1	6/1/2012 3:56:57 AM
Surr: 4-Terphenyl-d14	73.7	41.3-116		%REC	1	6/1/2012 3:56:57 AM
Surr: Nitrobenzene-d5	75.7	39.5-118		%REC	1	6/1/2012 3:56:57 AM
Surr: Phenol-d5	43.6	20.9-95.9		%REC	1	6/1/2012 3:56:57 AM
EPA METHOD 8260B: VOLATILES						Analyst: RAA
Benzene	ND	10		µg/L	10	6/2/2012 3:50:08 AM
Toluene	ND	10		µg/L	10	6/2/2012 3:50:08 AM

Qualifiers: */X Value exceeds Maximum Contaminant Level.
 E Value above quantitation range
 J Analyte detected below quantitation limits
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 RL Reporting Detection Limit
 U Samples with CalcVal < MDL

Analytical Report

Lab Order 1205B66

Date Reported: 6/27/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: EP-11

Project: 2012 SEMI ANNUAL PONDS

Collection Date: 5/29/2012 12:10:00 PM

Lab ID: 1205B66-005

Matrix: AQUEOUS

Received Date: 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
Ethylbenzene	ND	10		µg/L	10	6/2/2012 3:50:08 AM
Methyl tert-butyl ether (MTBE)	ND	10		µg/L	10	6/2/2012 3:50:08 AM
1,2,4-Trimethylbenzene	ND	10		µg/L	10	6/2/2012 3:50:08 AM
1,3,5-Trimethylbenzene	ND	10		µg/L	10	6/2/2012 3:50:08 AM
1,2-Dichloroethane (EDC)	ND	10		µg/L	10	6/2/2012 3:50:08 AM
1,2-Dibromoethane (EDB)	ND	10		µg/L	10	6/2/2012 3:50:08 AM
Naphthalene	ND	20		µg/L	10	6/2/2012 3:50:08 AM
1-Methylnaphthalene	ND	40		µg/L	10	6/2/2012 3:50:08 AM
2-Methylnaphthalene	ND	40		µg/L	10	6/2/2012 3:50:08 AM
Acetone	ND	100		µg/L	10	6/2/2012 3:50:08 AM
Bromobenzene	ND	10		µg/L	10	6/2/2012 3:50:08 AM
Bromodichloromethane	ND	10		µg/L	10	6/2/2012 3:50:08 AM
Bromoform	ND	10		µg/L	10	6/2/2012 3:50:08 AM
Bromomethane	ND	30		µg/L	10	6/2/2012 3:50:08 AM
2-Butanone	ND	100		µg/L	10	6/2/2012 3:50:08 AM
Carbon disulfide	ND	100		µg/L	10	6/2/2012 3:50:08 AM
Carbon Tetrachloride	ND	10		µg/L	10	6/2/2012 3:50:08 AM
Chlorobenzene	ND	10		µg/L	10	6/2/2012 3:50:08 AM
Chloroethane	ND	20		µg/L	10	6/2/2012 3:50:08 AM
Chloroform	ND	10		µg/L	10	6/2/2012 3:50:08 AM
Chloromethane	ND	30		µg/L	10	6/2/2012 3:50:08 AM
2-Chlorotoluene	ND	10		µg/L	10	6/2/2012 3:50:08 AM
4-Chlorotoluene	ND	10		µg/L	10	6/2/2012 3:50:08 AM
cis-1,2-DCE	ND	10		µg/L	10	6/2/2012 3:50:08 AM
cis-1,3-Dichloropropene	ND	10		µg/L	10	6/2/2012 3:50:08 AM
1,2-Dibromo-3-chloropropane	ND	20		µg/L	10	6/2/2012 3:50:08 AM
Dibromochloromethane	ND	10		µg/L	10	6/2/2012 3:50:08 AM
Dibromomethane	ND	10		µg/L	10	6/2/2012 3:50:08 AM
1,2-Dichlorobenzene	ND	10		µg/L	10	6/2/2012 3:50:08 AM
1,3-Dichlorobenzene	ND	10		µg/L	10	6/2/2012 3:50:08 AM
1,4-Dichlorobenzene	ND	10		µg/L	10	6/2/2012 3:50:08 AM
Dichlorodifluoromethane	ND	10		µg/L	10	6/2/2012 3:50:08 AM
1,1-Dichloroethane	ND	10		µg/L	10	6/2/2012 3:50:08 AM
1,1-Dichloroethene	ND	10		µg/L	10	6/2/2012 3:50:08 AM
1,2-Dichloropropane	ND	10		µg/L	10	6/2/2012 3:50:08 AM
1,3-Dichloropropane	ND	10		µg/L	10	6/2/2012 3:50:08 AM
2,2-Dichloropropane	ND	20		µg/L	10	6/2/2012 3:50:08 AM
1,1-Dichloropropene	ND	10		µg/L	10	6/2/2012 3:50:08 AM
Hexachlorobutadiene	ND	10		µg/L	10	6/2/2012 3:50:08 AM
2-Hexanone	ND	100		µg/L	10	6/2/2012 3:50:08 AM
Isopropylbenzene	ND	10		µg/L	10	6/2/2012 3:50:08 AM
4-Isopropyltoluene	ND	10		µg/L	10	6/2/2012 3:50:08 AM

Qualifiers: * / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit
U Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.**Analytical Report**

Lab Order 1205B66

Date Reported: 6/27/2012

CLIENT: Western Refining Southwest, Gallup**Client Sample ID:** EP-11**Project:** 2012 SEMI ANNUAL PONDS**Collection Date:** 5/29/2012 12:10:00 PM**Lab ID:** 1205B66-005**Matrix:** AQUEOUS**Received Date:** 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
4-Methyl-2-pentanone	ND	100		µg/L	10	6/2/2012 3:50:08 AM
Methylene Chloride	ND	30		µg/L	10	6/2/2012 3:50:08 AM
n-Butylbenzene	ND	10		µg/L	10	6/2/2012 3:50:08 AM
n-Propylbenzene	ND	10		µg/L	10	6/2/2012 3:50:08 AM
sec-Butylbenzene	ND	10		µg/L	10	6/2/2012 3:50:08 AM
Styrene	ND	10		µg/L	10	6/2/2012 3:50:08 AM
tert-Butylbenzene	ND	10		µg/L	10	6/2/2012 3:50:08 AM
1,1,1,2-Tetrachloroethane	ND	10		µg/L	10	6/2/2012 3:50:08 AM
1,1,2,2-Tetrachloroethane	ND	20		µg/L	10	6/2/2012 3:50:08 AM
Tetrachloroethene (PCE)	ND	10		µg/L	10	6/2/2012 3:50:08 AM
trans-1,2-DCE	ND	10		µg/L	10	6/2/2012 3:50:08 AM
trans-1,3-Dichloropropene	ND	10		µg/L	10	6/2/2012 3:50:08 AM
1,2,3-Trichlorobenzene	ND	10		µg/L	10	6/2/2012 3:50:08 AM
1,2,4-Trichlorobenzene	ND	10		µg/L	10	6/2/2012 3:50:08 AM
1,1,1-Trichloroethane	ND	10		µg/L	10	6/2/2012 3:50:08 AM
1,1,2-Trichloroethane	ND	10		µg/L	10	6/2/2012 3:50:08 AM
Trichloroethene (TCE)	ND	10		µg/L	10	6/2/2012 3:50:08 AM
Trichlorofluoromethane	ND	10		µg/L	10	6/2/2012 3:50:08 AM
1,2,3-Trichloropropane	ND	20		µg/L	10	6/2/2012 3:50:08 AM
Vinyl chloride	ND	10		µg/L	10	6/2/2012 3:50:08 AM
Xylenes, Total	ND	15		µg/L	10	6/2/2012 3:50:08 AM
Surr: 1,2-Dichloroethane-d4	102	70-130		%REC	10	6/2/2012 3:50:08 AM
Surr: 4-Bromofluorobenzene	105	70-130		%REC	10	6/2/2012 3:50:08 AM
Surr: Dibromofluoromethane	98.8	69.8-130		%REC	10	6/2/2012 3:50:08 AM
Surr: Toluene-d8	105	70-130		%REC	10	6/2/2012 3:50:08 AM
EPA 120.1: SPECIFIC CONDUCTANCE						Analyst: DBD
Conductivity	30000	0.50		µmhos/cm	50	5/31/2012 6:26:10 PM
SM4500-H+B: PH						Analyst: DBD
pH	7.84	1.68	H	pH units	1	5/31/2012 10:48:23 AM

Qualifiers: * / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit
U Samples with CalcVal < MDL

Analytical Report

Lab Order 1205B66

Date Reported: 6/27/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: EP-7

Project: 2012 SEMI ANNUAL PONDS

Collection Date: 5/29/2012 12:25:00 PM

Lab ID: 1205B66-006

Matrix: AQUEOUS

Received Date: 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: BRM
Fluoride	24	5.0	*	mg/L	50	6/5/2012 6:46:06 PM
Chloride	50000	2500		mg/L	5000	6/11/2012 6:03:21 PM
Bromide	25	5.0		mg/L	50	6/5/2012 6:46:06 PM
Phosphorus, Orthophosphate (As P)	ND	25	H	mg/L	50	6/5/2012 6:46:06 PM
Sulfate	9500	500		mg/L	1000	6/5/2012 7:10:55 PM
Nitrate+Nitrite as N	ND	20		mg/L	100	6/11/2012 6:40:35 PM
EPA METHOD 200.7: DISSOLVED METALS						Analyst: ELS
Barium	0.14	0.020		mg/L	10	6/15/2012 10:11:17 AM
Cadmium	ND	0.020		mg/L	10	6/15/2012 10:11:17 AM
Calcium	1100	20		mg/L	20	6/19/2012 5:30:00 PM
Chromium	ND	0.060		mg/L	10	6/19/2012 5:58:58 PM
Copper	ND	0.060		mg/L	10	6/19/2012 5:58:58 PM
Iron	ND	0.20		mg/L	10	6/19/2012 5:58:58 PM
Lead	ND	0.050		mg/L	10	6/19/2012 5:58:58 PM
Magnesium	980	10		mg/L	10	6/15/2012 10:11:17 AM
Manganese	0.74	0.020	*	mg/L	10	6/15/2012 10:11:17 AM
Potassium	1300	20		mg/L	20	6/19/2012 5:30:00 PM
Silver	ND	0.050		mg/L	10	6/15/2012 10:11:17 AM
Sodium	28000	5000		mg/L	5000	6/21/2012 10:32:23 AM
Zinc	ND	0.10		mg/L	10	6/19/2012 5:58:58 PM
EPA METHOD 200.7: TOTAL METALS						Analyst: ELS
Barium	0.14	0.0020		mg/L	1	6/14/2012 11:07:05 AM
Cadmium	ND	0.0020		mg/L	1	6/14/2012 11:07:05 AM
Chromium	0.014	0.0060		mg/L	1	6/14/2012 11:07:05 AM
Copper	ND	0.0060		mg/L	1	6/15/2012 8:55:11 AM
Iron	0.18	0.020		mg/L	1	6/19/2012 7:27:36 PM
Lead	ND	0.0050		mg/L	1	6/14/2012 11:07:05 AM
Manganese	0.74	0.0020	*	mg/L	1	6/14/2012 11:07:05 AM
Silver	ND	0.0050		mg/L	1	6/14/2012 11:07:05 AM
Zinc	0.011	0.010		mg/L	1	6/14/2012 11:07:05 AM
EPA 200.8: DISSOLVED METALS						Analyst: SNV
Arsenic	0.081	0.020	*	mg/L	20	6/19/2012 5:39:49 PM
Selenium	0.086	0.020	*	mg/L	20	6/19/2012 5:39:49 PM
Uranium	ND	0.020		mg/L	20	6/19/2012 5:39:49 PM
200.8 ICPMS METALS:TOTAL						Analyst: SNV
Arsenic	0.078	0.010	*	mg/L	10	6/14/2012 1:22:28 PM
Selenium	0.077	0.010	*	mg/L	10	6/14/2012 1:22:28 PM
Uranium	ND	0.020		mg/L	20	6/15/2012 4:02:20 PM
EPA METHOD 245.1: MERCURY						Analyst: IDC

Qualifiers: */X Value exceeds Maximum Contaminant Level.
 E Value above quantitation range
 J Analyte detected below quantitation limits
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 RL Reporting Detection Limit
 U Samples with CalcVal < MDL

Analytical Report

Lab Order 1205B66

Date Reported: 6/27/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: EP-7

Project: 2012 SEMI ANNUAL PONDS

Collection Date: 5/29/2012 12:25:00 PM

Lab ID: 1205B66-006

Matrix: AQUEOUS

Received Date: 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 245.1: MERCURY						Analyst: IDC
Mercury	ND	0.00020		mg/L	1	6/1/2012 3:53:09 PM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	10		µg/L	1	6/1/2012 4:26:08 AM
Acenaphthylene	ND	10		µg/L	1	6/1/2012 4:26:08 AM
Aniline	ND	10		µg/L	1	6/1/2012 4:26:08 AM
Anthracene	ND	10		µg/L	1	6/1/2012 4:26:08 AM
Azobenzene	ND	10		µg/L	1	6/1/2012 4:26:08 AM
Benz(a)anthracene	ND	10		µg/L	1	6/1/2012 4:26:08 AM
Benzo(a)pyrene	ND	10		µg/L	1	6/1/2012 4:26:08 AM
Benzo(b)fluoranthene	ND	10		µg/L	1	6/1/2012 4:26:08 AM
Benzo(g,h,i)perylene	ND	10		µg/L	1	6/1/2012 4:26:08 AM
Benzo(k)fluoranthene	ND	10		µg/L	1	6/1/2012 4:26:08 AM
Benzoic acid	ND	20		µg/L	1	6/1/2012 4:26:08 AM
Benzyl alcohol	ND	10		µg/L	1	6/1/2012 4:26:08 AM
Bis(2-chloroethoxy)methane	ND	10		µg/L	1	6/1/2012 4:26:08 AM
Bis(2-chloroethyl)ether	ND	10		µg/L	1	6/1/2012 4:26:08 AM
Bis(2-chloroisopropyl)ether	ND	10		µg/L	1	6/1/2012 4:26:08 AM
Bis(2-ethylhexyl)phthalate	ND	10		µg/L	1	6/1/2012 4:26:08 AM
4-Bromophenyl phenyl ether	ND	10		µg/L	1	6/1/2012 4:26:08 AM
Butyl benzyl phthalate	ND	10		µg/L	1	6/1/2012 4:26:08 AM
Carbazole	ND	10		µg/L	1	6/1/2012 4:26:08 AM
4-Chloro-3-methylphenol	ND	10		µg/L	1	6/1/2012 4:26:08 AM
4-Chloroaniline	ND	10		µg/L	1	6/1/2012 4:26:08 AM
2-Chloronaphthalene	ND	10		µg/L	1	6/1/2012 4:26:08 AM
2-Chlorophenol	ND	10		µg/L	1	6/1/2012 4:26:08 AM
4-Chlorophenyl phenyl ether	ND	10		µg/L	1	6/1/2012 4:26:08 AM
Chrysene	ND	10		µg/L	1	6/1/2012 4:26:08 AM
Di-n-butyl phthalate	ND	10		µg/L	1	6/1/2012 4:26:08 AM
Di-n-octyl phthalate	ND	10		µg/L	1	6/1/2012 4:26:08 AM
Dibenz(a,h)anthracene	ND	10		µg/L	1	6/1/2012 4:26:08 AM
Dibenzofuran	ND	10		µg/L	1	6/1/2012 4:26:08 AM
1,2-Dichlorobenzene	ND	10		µg/L	1	6/1/2012 4:26:08 AM
1,3-Dichlorobenzene	ND	10		µg/L	1	6/1/2012 4:26:08 AM
1,4-Dichlorobenzene	ND	10		µg/L	1	6/1/2012 4:26:08 AM
3,3'-Dichlorobenzidine	ND	10		µg/L	1	6/1/2012 4:26:08 AM
Diethyl phthalate	ND	10		µg/L	1	6/1/2012 4:26:08 AM
Dimethyl phthalate	ND	10		µg/L	1	6/1/2012 4:26:08 AM
2,4-Dichlorophenol	ND	20		µg/L	1	6/1/2012 4:26:08 AM
2,4-Dimethylphenol	ND	10		µg/L	1	6/1/2012 4:26:08 AM
4,6-Dinitro-2-methylphenol	ND	20		µg/L	1	6/1/2012 4:26:08 AM
2,4-Dinitrophenol	ND	20		µg/L	1	6/1/2012 4:26:08 AM

Qualifiers: * / X Value exceeds Maximum Contaminant Level.
 E Value above quantitation range
 J Analyte detected below quantitation limits
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 RL Reporting Detection Limit
 U Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1205B66

Date Reported: 6/27/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: EP-7

Project: 2012 SEMI ANNUAL PONDS

Collection Date: 5/29/2012 12:25:00 PM

Lab ID: 1205B66-006

Matrix: AQUEOUS

Received Date: 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
2,4-Dinitrotoluene	ND	10		µg/L	1	6/1/2012 4:26:08 AM
2,6-Dinitrotoluene	ND	10		µg/L	1	6/1/2012 4:26:08 AM
Fluoranthene	ND	10		µg/L	1	6/1/2012 4:26:08 AM
Fluorene	ND	10		µg/L	1	6/1/2012 4:26:08 AM
Hexachlorobenzene	ND	10		µg/L	1	6/1/2012 4:26:08 AM
Hexachlorobutadiene	ND	10		µg/L	1	6/1/2012 4:26:08 AM
Hexachlorocyclopentadiene	ND	10		µg/L	1	6/1/2012 4:26:08 AM
Hexachloroethane	ND	10		µg/L	1	6/1/2012 4:26:08 AM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	6/1/2012 4:26:08 AM
Isophorone	ND	10		µg/L	1	6/1/2012 4:26:08 AM
1-Methylnaphthalene	ND	10		µg/L	1	6/1/2012 4:26:08 AM
2-Methylnaphthalene	ND	10		µg/L	1	6/1/2012 4:26:08 AM
2-Methylphenol	ND	10		µg/L	1	6/1/2012 4:26:08 AM
3+4-Methylphenol	ND	10		µg/L	1	6/1/2012 4:26:08 AM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	6/1/2012 4:26:08 AM
N-Nitrosodimethylamine	ND	10		µg/L	1	6/1/2012 4:26:08 AM
N-Nitrosodiphenylamine	ND	10		µg/L	1	6/1/2012 4:26:08 AM
Naphthalene	ND	10		µg/L	1	6/1/2012 4:26:08 AM
2-Nitroaniline	ND	10		µg/L	1	6/1/2012 4:26:08 AM
3-Nitroaniline	ND	10		µg/L	1	6/1/2012 4:26:08 AM
4-Nitroaniline	ND	20		µg/L	1	6/1/2012 4:26:08 AM
Nitrobenzene	ND	10		µg/L	1	6/1/2012 4:26:08 AM
2-Nitrophenol	ND	10		µg/L	1	6/1/2012 4:26:08 AM
4-Nitrophenol	ND	10		µg/L	1	6/1/2012 4:26:08 AM
Pentachlorophenol	ND	20		µg/L	1	6/1/2012 4:26:08 AM
Phenanthrene	ND	10		µg/L	1	6/1/2012 4:26:08 AM
Phenol	ND	10		µg/L	1	6/1/2012 4:26:08 AM
Pyrene	ND	10		µg/L	1	6/1/2012 4:26:08 AM
Pyridine	ND	10		µg/L	1	6/1/2012 4:26:08 AM
1,2,4-Trichlorobenzene	ND	10		µg/L	1	6/1/2012 4:26:08 AM
2,4,5-Trichlorophenol	ND	10		µg/L	1	6/1/2012 4:26:08 AM
2,4,6-Trichlorophenol	ND	10		µg/L	1	6/1/2012 4:26:08 AM
Surr: 2,4,6-Tribromophenol	50.6	44.2-126		%REC	1	6/1/2012 4:26:08 AM
Surr: 2-Fluorobiphenyl	48.1	37-114		%REC	1	6/1/2012 4:26:08 AM
Surr: 2-Fluorophenol	50.8	23.4-98		%REC	1	6/1/2012 4:26:08 AM
Surr: 4-Terphenyl-d14	40.8	41.3-116	S	%REC	1	6/1/2012 4:26:08 AM
Surr: Nitrobenzene-d5	53.1	39.5-118		%REC	1	6/1/2012 4:26:08 AM
Surr: Phenol-d5	43.5	20.9-95.9		%REC	1	6/1/2012 4:26:08 AM
EPA METHOD 8260B: VOLATILES						Analyst: RAA
Benzene	ND	10		µg/L	10	6/2/2012 4:19:30 AM
Toluene	ND	10		µg/L	10	6/2/2012 4:19:30 AM

Qualifiers:

- * / X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit
- U Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1205B66

Date Reported: 6/27/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: EP-7

Project: 2012 SEMI ANNUAL PONDS

Collection Date: 5/29/2012 12:25:00 PM

Lab ID: 1205B66-006

Matrix: AQUEOUS

Received Date: 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
Ethylbenzene	ND	10		µg/L	10	6/2/2012 4:19:30 AM
Methyl tert-butyl ether (MTBE)	ND	10		µg/L	10	6/2/2012 4:19:30 AM
1,2,4-Trimethylbenzene	ND	10		µg/L	10	6/2/2012 4:19:30 AM
1,3,5-Trimethylbenzene	ND	10		µg/L	10	6/2/2012 4:19:30 AM
1,2-Dichloroethane (EDC)	ND	10		µg/L	10	6/2/2012 4:19:30 AM
1,2-Dibromoethane (EDB)	ND	10		µg/L	10	6/2/2012 4:19:30 AM
Naphthalene	ND	20		µg/L	10	6/2/2012 4:19:30 AM
1-Methylnaphthalene	ND	40		µg/L	10	6/2/2012 4:19:30 AM
2-Methylnaphthalene	ND	40		µg/L	10	6/2/2012 4:19:30 AM
Acetone	ND	100		µg/L	10	6/2/2012 4:19:30 AM
Bromobenzene	ND	10		µg/L	10	6/2/2012 4:19:30 AM
Bromodichloromethane	ND	10		µg/L	10	6/2/2012 4:19:30 AM
Bromoform	ND	10		µg/L	10	6/2/2012 4:19:30 AM
Bromomethane	ND	30		µg/L	10	6/2/2012 4:19:30 AM
2-Butanone	ND	100		µg/L	10	6/2/2012 4:19:30 AM
Carbon disulfide	ND	100		µg/L	10	6/2/2012 4:19:30 AM
Carbon Tetrachloride	ND	10		µg/L	10	6/2/2012 4:19:30 AM
Chlorobenzene	ND	10		µg/L	10	6/2/2012 4:19:30 AM
Chloroethane	ND	20		µg/L	10	6/2/2012 4:19:30 AM
Chloroform	ND	10		µg/L	10	6/2/2012 4:19:30 AM
Chloromethane	ND	30		µg/L	10	6/2/2012 4:19:30 AM
2-Chlorotoluene	ND	10		µg/L	10	6/2/2012 4:19:30 AM
4-Chlorotoluene	ND	10		µg/L	10	6/2/2012 4:19:30 AM
cis-1,2-DCE	ND	10		µg/L	10	6/2/2012 4:19:30 AM
cis-1,3-Dichloropropene	ND	10		µg/L	10	6/2/2012 4:19:30 AM
1,2-Dibromo-3-chloropropane	ND	20		µg/L	10	6/2/2012 4:19:30 AM
Dibromochloromethane	ND	10		µg/L	10	6/2/2012 4:19:30 AM
Dibromomethane	ND	10		µg/L	10	6/2/2012 4:19:30 AM
1,2-Dichlorobenzene	ND	10		µg/L	10	6/2/2012 4:19:30 AM
1,3-Dichlorobenzene	ND	10		µg/L	10	6/2/2012 4:19:30 AM
1,4-Dichlorobenzene	ND	10		µg/L	10	6/2/2012 4:19:30 AM
Dichlorodifluoromethane	ND	10		µg/L	10	6/2/2012 4:19:30 AM
1,1-Dichloroethane	ND	10		µg/L	10	6/2/2012 4:19:30 AM
1,1-Dichloroethene	ND	10		µg/L	10	6/2/2012 4:19:30 AM
1,2-Dichloropropane	ND	10		µg/L	10	6/2/2012 4:19:30 AM
1,3-Dichloropropane	ND	10		µg/L	10	6/2/2012 4:19:30 AM
2,2-Dichloropropane	ND	20		µg/L	10	6/2/2012 4:19:30 AM
1,1-Dichloropropene	ND	10		µg/L	10	6/2/2012 4:19:30 AM
Hexachlorobutadiene	ND	10		µg/L	10	6/2/2012 4:19:30 AM
2-Hexanone	ND	100		µg/L	10	6/2/2012 4:19:30 AM
Isopropylbenzene	ND	10		µg/L	10	6/2/2012 4:19:30 AM
4-Isopropyltoluene	ND	10		µg/L	10	6/2/2012 4:19:30 AM

Qualifiers: *X Value exceeds Maximum Contaminant Level.
 E Value above quantitation range
 J Analyte detected below quantitation limits
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 RL Reporting Detection Limit
 U Samples with CalcVal < MDL

Analytical Report

Lab Order 1205B66

Date Reported: 6/27/2012

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Western Refining Southwest, Gallup**Client Sample ID:** EP-7**Project:** 2012 SEMI ANNUAL PONDS**Collection Date:** 5/29/2012 12:25:00 PM**Lab ID:** 1205B66-006**Matrix:** AQUEOUS**Received Date:** 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
4-Methyl-2-pentanone	ND	100		µg/L	10	6/2/2012 4:19:30 AM
Methylene Chloride	ND	30		µg/L	10	6/2/2012 4:19:30 AM
n-Butylbenzene	ND	10		µg/L	10	6/2/2012 4:19:30 AM
n-Propylbenzene	ND	10		µg/L	10	6/2/2012 4:19:30 AM
sec-Butylbenzene	ND	10		µg/L	10	6/2/2012 4:19:30 AM
Styrene	ND	10		µg/L	10	6/2/2012 4:19:30 AM
tert-Butylbenzene	ND	10		µg/L	10	6/2/2012 4:19:30 AM
1,1,1,2-Tetrachloroethane	ND	10		µg/L	10	6/2/2012 4:19:30 AM
1,1,2,2-Tetrachloroethane	ND	20		µg/L	10	6/2/2012 4:19:30 AM
Tetrachloroethene (PCE)	ND	10		µg/L	10	6/2/2012 4:19:30 AM
trans-1,2-DCE	ND	10		µg/L	10	6/2/2012 4:19:30 AM
trans-1,3-Dichloropropene	ND	10		µg/L	10	6/2/2012 4:19:30 AM
1,2,3-Trichlorobenzene	ND	10		µg/L	10	6/2/2012 4:19:30 AM
1,2,4-Trichlorobenzene	ND	10		µg/L	10	6/2/2012 4:19:30 AM
1,1,1-Trichloroethane	ND	10		µg/L	10	6/2/2012 4:19:30 AM
1,1,2-Trichloroethane	ND	10		µg/L	10	6/2/2012 4:19:30 AM
Trichloroethene (TCE)	ND	10		µg/L	10	6/2/2012 4:19:30 AM
Trichlorofluoromethane	ND	10		µg/L	10	6/2/2012 4:19:30 AM
1,2,3-Trichloropropane	ND	20		µg/L	10	6/2/2012 4:19:30 AM
Vinyl chloride	ND	10		µg/L	10	6/2/2012 4:19:30 AM
Xylenes, Total	ND	15		µg/L	10	6/2/2012 4:19:30 AM
Surr: 1,2-Dichloroethane-d4	106	70-130		%REC	10	6/2/2012 4:19:30 AM
Surr: 4-Bromofluorobenzene	115	70-130		%REC	10	6/2/2012 4:19:30 AM
Surr: Dibromofluoromethane	98.4	69.8-130		%REC	10	6/2/2012 4:19:30 AM
Surr: Toluene-d8	105	70-130		%REC	10	6/2/2012 4:19:30 AM
EPA 120.1: SPECIFIC CONDUCTANCE						Analyst: DBD
Conductivity	150000	0.50		µmhos/cm	50	5/31/2012 6:30:17 PM
SM4500-H+B: PH						Analyst: DBD
pH	7.72	1.68	H	pH units	1	5/31/2012 10:52:32 AM

Qualifiers: * / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit
U Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1205B66

Date Reported: 6/27/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: EP-8

Project: 2012 SEMI ANNUAL PONDS

Collection Date: 5/29/2012 12:40:00 PM

Lab ID: 1205B66-007

Matrix: AQUEOUS

Received Date: 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: BRM
Fluoride	33	5.0	*	mg/L	50	6/5/2012 8:12:59 PM
Chloride	67000	2500		mg/L	5000	6/11/2012 6:15:46 PM
Bromide	39	5.0		mg/L	50	6/5/2012 8:12:59 PM
Phosphorus, Orthophosphate (As P)	ND	25	H	mg/L	50	6/5/2012 8:12:59 PM
Sulfate	9700	250		mg/L	500	6/5/2012 8:25:23 PM
Nitrate+Nitrite as N	ND	20		mg/L	100	6/11/2012 6:53:00 PM
EPA METHOD 200.7: DISSOLVED METALS						Analyst: ELS
Barium	0.18	0.020		mg/L	10	6/15/2012 10:30:48 AM
Cadmium	ND	0.020		mg/L	10	6/19/2012 6:02:15 PM
Calcium	730	10		mg/L	10	6/15/2012 10:30:48 AM
Chromium	ND	0.060		mg/L	10	6/19/2012 6:02:15 PM
Copper	ND	0.060		mg/L	10	6/19/2012 6:02:15 PM
Iron	ND	0.20		mg/L	10	6/19/2012 6:02:15 PM
Lead	ND	0.050		mg/L	10	6/19/2012 6:02:15 PM
Magnesium	1500	20		mg/L	20	6/19/2012 5:33:32 PM
Manganese	7.3	0.020	*	mg/L	10	6/15/2012 10:30:48 AM
Potassium	2200	100		mg/L	100	6/19/2012 4:42:31 PM
Silver	ND	0.050		mg/L	10	6/15/2012 10:30:48 AM
Sodium	35000	500		mg/L	500	6/21/2012 10:38:07 AM
Zinc	ND	0.10		mg/L	10	6/19/2012 6:02:15 PM
EPA METHOD 200.7: TOTAL METALS						Analyst: ELS
Barium	0.17	0.0020		mg/L	1	6/14/2012 11:15:11 AM
Cadmium	ND	0.0020		mg/L	1	6/14/2012 11:15:11 AM
Chromium	0.018	0.0060		mg/L	1	6/14/2012 11:15:11 AM
Copper	0.0071	0.0060		mg/L	1	6/15/2012 8:58:26 AM
Iron	0.50	0.10	*	mg/L	5	6/21/2012 11:48:25 AM
Lead	ND	0.0050		mg/L	1	6/14/2012 11:15:11 AM
Manganese	8.6	0.020	*	mg/L	10	6/15/2012 9:01:51 AM
Silver	ND	0.0050		mg/L	1	6/14/2012 11:15:11 AM
Zinc	0.025	0.010		mg/L	1	6/14/2012 11:15:11 AM
EPA 200.8: DISSOLVED METALS						Analyst: SNV
Arsenic	0.16	0.020	*	mg/L	20	6/19/2012 5:43:35 PM
Selenium	0.13	0.020	*	mg/L	20	6/19/2012 5:43:35 PM
Uranium	ND	0.020		mg/L	20	6/19/2012 5:43:35 PM
200.8 ICPMS METALS:TOTAL						Analyst: SNV
Arsenic	0.15	0.010	*	mg/L	10	6/14/2012 1:24:20 PM
Selenium	0.12	0.010	*	mg/L	10	6/14/2012 1:24:20 PM
Uranium	ND	0.020		mg/L	20	6/15/2012 4:06:16 PM
EPA METHOD 245.1: MERCURY						Analyst: IDC

Qualifiers: * / X Value exceeds Maximum Contaminant Level.
 E Value above quantitation range
 J Analyte detected below quantitation limits
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 RL Reporting Detection Limit
 U Samples with Calc Val < MDL

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1205B66

Date Reported: 6/27/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: EP-8

Project: 2012 SEMI ANNUAL PONDS

Collection Date: 5/29/2012 12:40:00 PM

Lab ID: 1205B66-007

Matrix: AQUEOUS

Received Date: 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 245.1: MERCURY						Analyst: IDC
Mercury	ND	0.00020		mg/L	1	6/1/2012 3:58:29 PM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	10		µg/L	1	6/1/2012 4:55:12 AM
Acenaphthylene	ND	10		µg/L	1	6/1/2012 4:55:12 AM
Aniline	ND	10		µg/L	1	6/1/2012 4:55:12 AM
Anthracene	ND	10		µg/L	1	6/1/2012 4:55:12 AM
Azobenzene	ND	10		µg/L	1	6/1/2012 4:55:12 AM
Benz(a)anthracene	ND	10		µg/L	1	6/1/2012 4:55:12 AM
Benzo(a)pyrene	ND	10		µg/L	1	6/1/2012 4:55:12 AM
Benzo(b)fluoranthene	ND	10		µg/L	1	6/1/2012 4:55:12 AM
Benzo(g,h,i)perylene	ND	10		µg/L	1	6/1/2012 4:55:12 AM
Benzo(k)fluoranthene	ND	10		µg/L	1	6/1/2012 4:55:12 AM
Benzoic acid	ND	20		µg/L	1	6/1/2012 4:55:12 AM
Benzyl alcohol	ND	10		µg/L	1	6/1/2012 4:55:12 AM
Bis(2-chloroethoxy)methane	ND	10		µg/L	1	6/1/2012 4:55:12 AM
Bis(2-chloroethyl)ether	ND	10		µg/L	1	6/1/2012 4:55:12 AM
Bis(2-chloroisopropyl)ether	ND	10		µg/L	1	6/1/2012 4:55:12 AM
Bis(2-ethylhexyl)phthalate	ND	10		µg/L	1	6/1/2012 4:55:12 AM
4-Bromophenyl phenyl ether	ND	10		µg/L	1	6/1/2012 4:55:12 AM
Butyl benzyl phthalate	ND	10		µg/L	1	6/1/2012 4:55:12 AM
Carbazole	ND	10		µg/L	1	6/1/2012 4:55:12 AM
4-Chloro-3-methylphenol	ND	10		µg/L	1	6/1/2012 4:55:12 AM
4-Chloroaniline	ND	10		µg/L	1	6/1/2012 4:55:12 AM
2-Chloronaphthalene	ND	10		µg/L	1	6/1/2012 4:55:12 AM
2-Chlorophenol	ND	10		µg/L	1	6/1/2012 4:55:12 AM
4-Chlorophenyl phenyl ether	ND	10		µg/L	1	6/1/2012 4:55:12 AM
Chrysene	ND	10		µg/L	1	6/1/2012 4:55:12 AM
Di-n-butyl phthalate	ND	10		µg/L	1	6/1/2012 4:55:12 AM
Di-n-octyl phthalate	ND	10		µg/L	1	6/1/2012 4:55:12 AM
Dibenz(a,h)anthracene	ND	10		µg/L	1	6/1/2012 4:55:12 AM
Dibenzofuran	ND	10		µg/L	1	6/1/2012 4:55:12 AM
1,2-Dichlorobenzene	ND	10		µg/L	1	6/1/2012 4:55:12 AM
1,3-Dichlorobenzene	ND	10		µg/L	1	6/1/2012 4:55:12 AM
1,4-Dichlorobenzene	ND	10		µg/L	1	6/1/2012 4:55:12 AM
3,3'-Dichlorobenzidine	ND	10		µg/L	1	6/1/2012 4:55:12 AM
Diethyl phthalate	ND	10		µg/L	1	6/1/2012 4:55:12 AM
Dimethyl phthalate	ND	10		µg/L	1	6/1/2012 4:55:12 AM
2,4-Dichlorophenol	ND	20		µg/L	1	6/1/2012 4:55:12 AM
2,4-Dimethylphenol	ND	10		µg/L	1	6/1/2012 4:55:12 AM
4,6-Dinitro-2-methylphenol	ND	20		µg/L	1	6/1/2012 4:55:12 AM
2,4-Dinitrophenol	ND	20		µg/L	1	6/1/2012 4:55:12 AM

Qualifiers: */X Value exceeds Maximum Contaminant Level.
 E Value above quantitation range
 J Analyte detected below quantitation limits
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 RL Reporting Detection Limit
 U Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1205B66

Date Reported: 6/27/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: EP-8

Project: 2012 SEMI ANNUAL PONDS

Collection Date: 5/29/2012 12:40:00 PM

Lab ID: 1205B66-007

Matrix: AQUEOUS

Received Date: 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
2,4-Dinitrotoluene	ND	10		µg/L	1	6/1/2012 4:55:12 AM
2,6-Dinitrotoluene	ND	10		µg/L	1	6/1/2012 4:55:12 AM
Fluoranthene	ND	10		µg/L	1	6/1/2012 4:55:12 AM
Fluorene	ND	10		µg/L	1	6/1/2012 4:55:12 AM
Hexachlorobenzene	ND	10		µg/L	1	6/1/2012 4:55:12 AM
Hexachlorobutadiene	ND	10		µg/L	1	6/1/2012 4:55:12 AM
Hexachlorocyclopentadiene	ND	10		µg/L	1	6/1/2012 4:55:12 AM
Hexachloroethane	ND	10		µg/L	1	6/1/2012 4:55:12 AM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	6/1/2012 4:55:12 AM
Isophorone	ND	10		µg/L	1	6/1/2012 4:55:12 AM
1-Methylnaphthalene	ND	10		µg/L	1	6/1/2012 4:55:12 AM
2-Methylnaphthalene	ND	10		µg/L	1	6/1/2012 4:55:12 AM
2-Methylphenol	ND	10		µg/L	1	6/1/2012 4:55:12 AM
3+4-Methylphenol	ND	10		µg/L	1	6/1/2012 4:55:12 AM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	6/1/2012 4:55:12 AM
N-Nitrosodimethylamine	ND	10		µg/L	1	6/1/2012 4:55:12 AM
N-Nitrosodiphenylamine	ND	10		µg/L	1	6/1/2012 4:55:12 AM
Naphthalene	ND	10		µg/L	1	6/1/2012 4:55:12 AM
2-Nitroaniline	ND	10		µg/L	1	6/1/2012 4:55:12 AM
3-Nitroaniline	ND	10		µg/L	1	6/1/2012 4:55:12 AM
4-Nitroaniline	ND	20		µg/L	1	6/1/2012 4:55:12 AM
Nitrobenzene	ND	10		µg/L	1	6/1/2012 4:55:12 AM
2-Nitrophenol	ND	10		µg/L	1	6/1/2012 4:55:12 AM
4-Nitrophenol	ND	10		µg/L	1	6/1/2012 4:55:12 AM
Pentachlorophenol	ND	20		µg/L	1	6/1/2012 4:55:12 AM
Phenanthrene	ND	10		µg/L	1	6/1/2012 4:55:12 AM
Phenol	ND	10		µg/L	1	6/1/2012 4:55:12 AM
Pyrene	ND	10		µg/L	1	6/1/2012 4:55:12 AM
Pyridine	ND	10		µg/L	1	6/1/2012 4:55:12 AM
1,2,4-Trichlorobenzene	ND	10		µg/L	1	6/1/2012 4:55:12 AM
2,4,5-Trichlorophenol	ND	10		µg/L	1	6/1/2012 4:55:12 AM
2,4,6-Trichlorophenol	ND	10		µg/L	1	6/1/2012 4:55:12 AM
Surr: 2,4,6-Tribromophenol	62.8	44.2-126		%REC	1	6/1/2012 4:55:12 AM
Surr: 2-Fluorobiphenyl	70.3	37-114		%REC	1	6/1/2012 4:55:12 AM
Surr: 2-Fluorophenol	63.5	23.4-98		%REC	1	6/1/2012 4:55:12 AM
Surr: 4-Terphenyl-d14	54.0	41.3-116		%REC	1	6/1/2012 4:55:12 AM
Surr: Nitrobenzene-d5	80.5	39.5-118		%REC	1	6/1/2012 4:55:12 AM
Surr: Phenol-d5	59.0	20.9-95.9		%REC	1	6/1/2012 4:55:12 AM
EPA METHOD 8260B: VOLATILES						Analyst: RAA
Benzene	ND	10		µg/L	10	6/2/2012 4:48:45 AM
Toluene	ND	10		µg/L	10	6/2/2012 4:48:45 AM

Qualifiers: * / X Value exceeds Maximum Contaminant Level.
 E Value above quantitation range
 J Analyte detected below quantitation limits
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 RL Reporting Detection Limit
 U Samples with CalcVal < MDL

Analytical Report

Lab Order 1205B66

Date Reported: 6/27/2012

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Western Refining Southwest, Gallup**Client Sample ID:** EP-8**Project:** 2012 SEMI ANNUAL PONDS**Collection Date:** 5/29/2012 12:40:00 PM**Lab ID:** 1205B66-007**Matrix:** AQUEOUS**Received Date:** 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
Ethylbenzene	ND	10		µg/L	10	6/2/2012 4:48:45 AM
Methyl tert-butyl ether (MTBE)	ND	10		µg/L	10	6/2/2012 4:48:45 AM
1,2,4-Trimethylbenzene	ND	10		µg/L	10	6/2/2012 4:48:45 AM
1,3,5-Trimethylbenzene	ND	10		µg/L	10	6/2/2012 4:48:45 AM
1,2-Dichloroethane (EDC)	ND	10		µg/L	10	6/2/2012 4:48:45 AM
1,2-Dibromoethane (EDB)	ND	10		µg/L	10	6/2/2012 4:48:45 AM
Naphthalene	ND	20		µg/L	10	6/2/2012 4:48:45 AM
1-Methylnaphthalene	ND	40		µg/L	10	6/2/2012 4:48:45 AM
2-Methylnaphthalene	ND	40		µg/L	10	6/2/2012 4:48:45 AM
Acetone	ND	100		µg/L	10	6/2/2012 4:48:45 AM
Bromobenzene	ND	10		µg/L	10	6/2/2012 4:48:45 AM
Bromodichloromethane	ND	10		µg/L	10	6/2/2012 4:48:45 AM
Bromoform	ND	10		µg/L	10	6/2/2012 4:48:45 AM
Bromomethane	ND	30		µg/L	10	6/2/2012 4:48:45 AM
2-Butanone	ND	100		µg/L	10	6/2/2012 4:48:45 AM
Carbon disulfide	ND	100		µg/L	10	6/2/2012 4:48:45 AM
Carbon Tetrachloride	ND	10		µg/L	10	6/2/2012 4:48:45 AM
Chlorobenzene	ND	10		µg/L	10	6/2/2012 4:48:45 AM
Chloroethane	ND	20		µg/L	10	6/2/2012 4:48:45 AM
Chloroform	ND	10		µg/L	10	6/2/2012 4:48:45 AM
Chloromethane	ND	30		µg/L	10	6/2/2012 4:48:45 AM
2-Chlorotoluene	ND	10		µg/L	10	6/2/2012 4:48:45 AM
4-Chlorotoluene	ND	10		µg/L	10	6/2/2012 4:48:45 AM
cis-1,2-DCE	ND	10		µg/L	10	6/2/2012 4:48:45 AM
cis-1,3-Dichloropropene	ND	10		µg/L	10	6/2/2012 4:48:45 AM
1,2-Dibromo-3-chloropropane	ND	20		µg/L	10	6/2/2012 4:48:45 AM
Dibromochloromethane	ND	10		µg/L	10	6/2/2012 4:48:45 AM
Dibromomethane	ND	10		µg/L	10	6/2/2012 4:48:45 AM
1,2-Dichlorobenzene	ND	10		µg/L	10	6/2/2012 4:48:45 AM
1,3-Dichlorobenzene	ND	10		µg/L	10	6/2/2012 4:48:45 AM
1,4-Dichlorobenzene	ND	10		µg/L	10	6/2/2012 4:48:45 AM
Dichlorodifluoromethane	ND	10		µg/L	10	6/2/2012 4:48:45 AM
1,1-Dichloroethane	ND	10		µg/L	10	6/2/2012 4:48:45 AM
1,1-Dichloroethene	ND	10		µg/L	10	6/2/2012 4:48:45 AM
1,2-Dichloropropane	ND	10		µg/L	10	6/2/2012 4:48:45 AM
1,3-Dichloropropane	ND	10		µg/L	10	6/2/2012 4:48:45 AM
2,2-Dichloropropane	ND	20		µg/L	10	6/2/2012 4:48:45 AM
1,1-Dichloropropene	ND	10		µg/L	10	6/2/2012 4:48:45 AM
Hexachlorobutadiene	ND	10		µg/L	10	6/2/2012 4:48:45 AM
2-Hexanone	ND	100		µg/L	10	6/2/2012 4:48:45 AM
Isopropylbenzene	ND	10		µg/L	10	6/2/2012 4:48:45 AM
4-Isopropyltoluene	ND	10		µg/L	10	6/2/2012 4:48:45 AM

Qualifiers: * / X Value exceeds Maximum Contaminant Level.
 E Value above quantitation range
 J Analyte detected below quantitation limits
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 RL Reporting Detection Limit
 U Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.**Analytical Report**

Lab Order 1205B66

Date Reported: 6/27/2012

CLIENT: Western Refining Southwest, Gallup**Client Sample ID:** EP-8**Project:** 2012 SEMI ANNUAL PONDS**Collection Date:** 5/29/2012 12:40:00 PM**Lab ID:** 1205B66-007**Matrix:** AQUEOUS**Received Date:** 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
4-Methyl-2-pentanone	ND	100		µg/L	10	6/2/2012 4:48:45 AM
Methylene Chloride	ND	30		µg/L	10	6/2/2012 4:48:45 AM
n-Butylbenzene	ND	10		µg/L	10	6/2/2012 4:48:45 AM
n-Propylbenzene	ND	10		µg/L	10	6/2/2012 4:48:45 AM
sec-Butylbenzene	ND	10		µg/L	10	6/2/2012 4:48:45 AM
Styrene	ND	10		µg/L	10	6/2/2012 4:48:45 AM
tert-Butylbenzene	ND	10		µg/L	10	6/2/2012 4:48:45 AM
1,1,1,2-Tetrachloroethane	ND	10		µg/L	10	6/2/2012 4:48:45 AM
1,1,2,2-Tetrachloroethane	ND	20		µg/L	10	6/2/2012 4:48:45 AM
Tetrachloroethene (PCE)	ND	10		µg/L	10	6/2/2012 4:48:45 AM
trans-1,2-DCE	ND	10		µg/L	10	6/2/2012 4:48:45 AM
trans-1,3-Dichloropropene	ND	10		µg/L	10	6/2/2012 4:48:45 AM
1,2,3-Trichlorobenzene	ND	10		µg/L	10	6/2/2012 4:48:45 AM
1,2,4-Trichlorobenzene	ND	10		µg/L	10	6/2/2012 4:48:45 AM
1,1,1-Trichloroethane	ND	10		µg/L	10	6/2/2012 4:48:45 AM
1,1,2-Trichloroethane	ND	10		µg/L	10	6/2/2012 4:48:45 AM
Trichloroethene (TCE)	ND	10		µg/L	10	6/2/2012 4:48:45 AM
Trichlorofluoromethane	ND	10		µg/L	10	6/2/2012 4:48:45 AM
1,2,3-Trichloropropane	ND	20		µg/L	10	6/2/2012 4:48:45 AM
Vinyl chloride	ND	10		µg/L	10	6/2/2012 4:48:45 AM
Xylenes, Total	ND	15		µg/L	10	6/2/2012 4:48:45 AM
Surr: 1,2-Dichloroethane-d4	109	70-130		%REC	10	6/2/2012 4:48:45 AM
Surr: 4-Bromofluorobenzene	111	70-130		%REC	10	6/2/2012 4:48:45 AM
Surr: Dibromofluoromethane	94.2	69.8-130		%REC	10	6/2/2012 4:48:45 AM
Surr: Toluene-d8	104	70-130		%REC	10	6/2/2012 4:48:45 AM
EPA 120.1: SPECIFIC CONDUCTANCE						Analyst: DBD
Conductivity	180000	0.50		µmhos/cm	50	5/31/2012 6:34:39 PM
SM4500-H+B: PH						Analyst: DBD
pH	7.53	1.68	H	pH units	1	5/31/2012 11:01:06 AM

Qualifiers: */X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit
U Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.**Analytical Report**Lab Order **1205B66**Date Reported: **6/27/2012****CLIENT:** Western Refining Southwest, Gallup**Client Sample ID:** EP-5**Project:** 2012 SEMI ANNUAL PONDS**Collection Date:** 5/29/2012 1:00:00 PM**Lab ID:** 1205B66-008**Matrix:** AQUEOUS**Received Date:** 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: BRM
Fluoride	21	2.0	*	mg/L	20	6/5/2012 8:50:12 PM
Chloride	6100	250		mg/L	500	6/5/2012 9:15:01 PM
Bromide	3.2	0.50		mg/L	5	5/30/2012 6:55:17 PM
Phosphorus, Orthophosphate (As P)	ND	2.5		mg/L	5	5/30/2012 6:55:17 PM
Sulfate	1300	25		mg/L	50	6/5/2012 9:02:36 PM
Nitrate+Nitrite as N	ND	4.0		mg/L	20	6/6/2012 2:00:26 AM
EPA METHOD 200.7: DISSOLVED METALS						Analyst: ELS
Barium	0.059	0.0020		mg/L	1	6/15/2012 10:34:02 AM
Cadmium	ND	0.0020		mg/L	1	6/19/2012 7:00:33 PM
Calcium	240	10		mg/L	10	6/15/2012 10:37:07 AM
Chromium	0.0069	0.0060		mg/L	1	6/19/2012 7:00:33 PM
Copper	ND	0.0060		mg/L	1	6/19/2012 7:00:33 PM
Iron	0.19	0.020		mg/L	1	6/19/2012 7:00:33 PM
Lead	ND	0.0050		mg/L	1	6/19/2012 7:00:33 PM
Magnesium	120	10		mg/L	10	6/15/2012 10:37:07 AM
Manganese	0.065	0.0020	*	mg/L	1	6/15/2012 10:34:02 AM
Potassium	170	10		mg/L	10	6/19/2012 6:14:42 PM
Silver	ND	0.0050		mg/L	1	6/15/2012 10:34:02 AM
Sodium	3600	50		mg/L	50	6/19/2012 5:09:30 PM
Zinc	0.023	0.010		mg/L	1	6/19/2012 7:00:33 PM
EPA METHOD 200.7: TOTAL METALS						Analyst: ELS
Barium	0.064	0.0020		mg/L	1	6/14/2012 11:22:01 AM
Cadmium	ND	0.0020		mg/L	1	6/14/2012 11:22:01 AM
Chromium	ND	0.0060		mg/L	1	6/14/2012 11:22:01 AM
Copper	ND	0.0060		mg/L	1	6/15/2012 9:05:05 AM
Iron	0.28	0.020		mg/L	1	6/19/2012 7:47:20 PM
Lead	ND	0.0050		mg/L	1	6/14/2012 11:22:01 AM
Manganese	0.070	0.0020	*	mg/L	1	6/14/2012 11:22:01 AM
Silver	ND	0.0050		mg/L	1	6/14/2012 11:22:01 AM
Zinc	ND	0.010		mg/L	1	6/14/2012 11:22:01 AM
EPA 200.8: DISSOLVED METALS						Analyst: SNV
Arsenic	0.017	0.010	*	mg/L	10	6/19/2012 5:51:07 PM
Selenium	0.023	0.010		mg/L	10	6/19/2012 5:51:07 PM
Uranium	ND	0.010		mg/L	10	6/19/2012 5:51:07 PM
200.8 ICPMS METALS:TOTAL						Analyst: SNV
Arsenic	0.015	0.0025	*	mg/L	2.5	6/14/2012 1:09:18 PM
Selenium	0.018	0.0025		mg/L	2.5	6/14/2012 1:09:18 PM
Uranium	ND	0.0025		mg/L	2.5	6/14/2012 1:09:18 PM
EPA METHOD 245.1: MERCURY						Analyst: IDC

Qualifiers: */X Value exceeds Maximum Contaminant Level.
 E Value above quantitation range
 J Analyte detected below quantitation limits
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit
U Samples with CalcVal < MDL

Analytical Report

Lab Order 1205B66

Date Reported: 6/27/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: EP-5

Project: 2012 SEMI ANNUAL PONDS

Collection Date: 5/29/2012 1:00:00 PM

Lab ID: 1205B66-008

Matrix: AQUEOUS

Received Date: 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 245.1: MERCURY						Analyst: IDC
Mercury	ND	0.00020		mg/L	1	6/1/2012 4:00:17 PM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	50		µg/L	1	6/1/2012 5:24:20 AM
Acenaphthylene	ND	50		µg/L	1	6/1/2012 5:24:20 AM
Aniline	57	50		µg/L	1	6/1/2012 5:24:20 AM
Anthracene	ND	50		µg/L	1	6/1/2012 5:24:20 AM
Azobenzene	ND	50		µg/L	1	6/1/2012 5:24:20 AM
Benz(a)anthracene	ND	50		µg/L	1	6/1/2012 5:24:20 AM
Benzo(a)pyrene	ND	50		µg/L	1	6/1/2012 5:24:20 AM
Benzo(b)fluoranthene	ND	50		µg/L	1	6/1/2012 5:24:20 AM
Benzo(g,h,i)perylene	ND	50		µg/L	1	6/1/2012 5:24:20 AM
Benzo(k)fluoranthene	ND	50		µg/L	1	6/1/2012 5:24:20 AM
Benzoic acid	ND	100		µg/L	1	6/1/2012 5:24:20 AM
Benzyl alcohol	ND	50		µg/L	1	6/1/2012 5:24:20 AM
Bis(2-chloroethoxy)methane	ND	50		µg/L	1	6/1/2012 5:24:20 AM
Bis(2-chloroethyl)ether	ND	50		µg/L	1	6/1/2012 5:24:20 AM
Bis(2-chloroisopropyl)ether	ND	50		µg/L	1	6/1/2012 5:24:20 AM
Bis(2-ethylhexyl)phthalate	ND	50		µg/L	1	6/1/2012 5:24:20 AM
4-Bromophenyl phenyl ether	ND	50		µg/L	1	6/1/2012 5:24:20 AM
Butyl benzyl phthalate	ND	50		µg/L	1	6/1/2012 5:24:20 AM
Carbazole	ND	50		µg/L	1	6/1/2012 5:24:20 AM
4-Chloro-3-methylphenol	ND	50		µg/L	1	6/1/2012 5:24:20 AM
4-Chloroaniline	ND	50		µg/L	1	6/1/2012 5:24:20 AM
2-Chloronaphthalene	ND	50		µg/L	1	6/1/2012 5:24:20 AM
2-Chlorophenol	ND	50		µg/L	1	6/1/2012 5:24:20 AM
4-Chlorophenyl phenyl ether	ND	50		µg/L	1	6/1/2012 5:24:20 AM
Chrysene	ND	50		µg/L	1	6/1/2012 5:24:20 AM
Di-n-butyl phthalate	ND	50		µg/L	1	6/1/2012 5:24:20 AM
Di-n-octyl phthalate	ND	50		µg/L	1	6/1/2012 5:24:20 AM
Dibenz(a,h)anthracene	ND	50		µg/L	1	6/1/2012 5:24:20 AM
Dibenzofuran	ND	50		µg/L	1	6/1/2012 5:24:20 AM
1,2-Dichlorobenzene	ND	50		µg/L	1	6/1/2012 5:24:20 AM
1,3-Dichlorobenzene	ND	50		µg/L	1	6/1/2012 5:24:20 AM
1,4-Dichlorobenzene	ND	50		µg/L	1	6/1/2012 5:24:20 AM
3,3'-Dichlorobenzidine	ND	50		µg/L	1	6/1/2012 5:24:20 AM
Diethyl phthalate	ND	50		µg/L	1	6/1/2012 5:24:20 AM
Dimethyl phthalate	ND	50		µg/L	1	6/1/2012 5:24:20 AM
2,4-Dichlorophenol	ND	100		µg/L	1	6/1/2012 5:24:20 AM
2,4-Dimethylphenol	ND	50		µg/L	1	6/1/2012 5:24:20 AM
4,6-Dinitro-2-methylphenol	ND	100		µg/L	1	6/1/2012 5:24:20 AM
2,4-Dinitrophenol	ND	100		µg/L	1	6/1/2012 5:24:20 AM

Qualifiers: */X Value exceeds Maximum Contaminant Level.
 E Value above quantitation range
 J Analyte detected below quantitation limits
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 RL Reporting Detection Limit
 U Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1205B66

Date Reported: 6/27/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: EP-5

Project: 2012 SEMI ANNUAL PONDS

Collection Date: 5/29/2012 1:00:00 PM

Lab ID: 1205B66-008

Matrix: AQUEOUS

Received Date: 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
2,4-Dinitrotoluene	ND	50		µg/L	1	6/1/2012 5:24:20 AM
2,6-Dinitrotoluene	ND	50		µg/L	1	6/1/2012 5:24:20 AM
Fluoranthene	ND	50		µg/L	1	6/1/2012 5:24:20 AM
Fluorene	ND	50		µg/L	1	6/1/2012 5:24:20 AM
Hexachlorobenzene	ND	50		µg/L	1	6/1/2012 5:24:20 AM
Hexachlorobutadiene	ND	50		µg/L	1	6/1/2012 5:24:20 AM
Hexachlorocyclopentadiene	ND	50		µg/L	1	6/1/2012 5:24:20 AM
Hexachloroethane	ND	50		µg/L	1	6/1/2012 5:24:20 AM
Indeno(1,2,3-cd)pyrene	ND	50		µg/L	1	6/1/2012 5:24:20 AM
Isophorone	ND	50		µg/L	1	6/1/2012 5:24:20 AM
1-Methylnaphthalene	ND	50		µg/L	1	6/1/2012 5:24:20 AM
2-Methylnaphthalene	ND	50		µg/L	1	6/1/2012 5:24:20 AM
2-Methylphenol	820	50		µg/L	1	6/1/2012 5:24:20 AM
3+4-Methylphenol	1100	250		µg/L	5	6/1/2012 9:54:52 AM
N-Nitrosodi-n-propylamine	ND	50		µg/L	1	6/1/2012 5:24:20 AM
N-Nitrosodimethylamine	ND	50		µg/L	1	6/1/2012 5:24:20 AM
N-Nitrosodiphenylamine	ND	50		µg/L	1	6/1/2012 5:24:20 AM
Naphthalene	ND	50		µg/L	1	6/1/2012 5:24:20 AM
2-Nitroaniline	ND	50		µg/L	1	6/1/2012 5:24:20 AM
3-Nitroaniline	ND	50		µg/L	1	6/1/2012 5:24:20 AM
4-Nitroaniline	ND	100		µg/L	1	6/1/2012 5:24:20 AM
Nitrobenzene	ND	50		µg/L	1	6/1/2012 5:24:20 AM
2-Nitrophenol	ND	50		µg/L	1	6/1/2012 5:24:20 AM
4-Nitrophenol	ND	50		µg/L	1	6/1/2012 5:24:20 AM
Pentachlorophenol	ND	100		µg/L	1	6/1/2012 5:24:20 AM
Phenanthrene	ND	50		µg/L	1	6/1/2012 5:24:20 AM
Phenol	2700	250		µg/L	5	6/1/2012 9:54:52 AM
Pyrene	ND	50		µg/L	1	6/1/2012 5:24:20 AM
Pyridine	ND	50		µg/L	1	6/1/2012 5:24:20 AM
1,2,4-Trichlorobenzene	ND	50		µg/L	1	6/1/2012 5:24:20 AM
2,4,5-Trichlorophenol	ND	50		µg/L	1	6/1/2012 5:24:20 AM
2,4,6-Trichlorophenol	ND	50		µg/L	1	6/1/2012 5:24:20 AM
Surr: 2,4,6-Tribromophenol	89.7	44.2-126		%REC	1	6/1/2012 5:24:20 AM
Surr: 2-Fluorobiphenyl	74.3	37-114		%REC	1	6/1/2012 5:24:20 AM
Surr: 2-Fluorophenol	61.2	23.4-98		%REC	1	6/1/2012 5:24:20 AM
Surr: 4-Terphenyl-d14	85.2	41.3-116		%REC	1	6/1/2012 5:24:20 AM
Surr: Nitrobenzene-d5	79.7	39.5-118		%REC	1	6/1/2012 5:24:20 AM
Surr: Phenol-d5	53.5	20.9-95.9		%REC	1	6/1/2012 5:24:20 AM
EPA METHOD 8260B: VOLATILES						Analyst: RAA
Benzene	ND	10		µg/L	10	6/2/2012 5:17:57 AM
Toluene	ND	10		µg/L	10	6/2/2012 5:17:57 AM

Qualifiers: * / X Value exceeds Maximum Contaminant Level.
 E Value above quantitation range
 J Analyte detected below quantitation limits
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 RL Reporting Detection Limit
 U Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1205B66

Date Reported: 6/27/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: EP-5

Project: 2012 SEMI ANNUAL PONDS

Collection Date: 5/29/2012 1:00:00 PM

Lab ID: 1205B66-008

Matrix: AQUEOUS

Received Date: 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
Ethylbenzene	ND	10		µg/L	10	6/2/2012 5:17:57 AM
Methyl tert-butyl ether (MTBE)	ND	10		µg/L	10	6/2/2012 5:17:57 AM
1,2,4-Trimethylbenzene	ND	10		µg/L	10	6/2/2012 5:17:57 AM
1,3,5-Trimethylbenzene	ND	10		µg/L	10	6/2/2012 5:17:57 AM
1,2-Dichloroethane (EDC)	ND	10		µg/L	10	6/2/2012 5:17:57 AM
1,2-Dibromoethane (EDB)	ND	10		µg/L	10	6/2/2012 5:17:57 AM
Naphthalene	ND	20		µg/L	10	6/2/2012 5:17:57 AM
1-Methylnaphthalene	ND	40		µg/L	10	6/2/2012 5:17:57 AM
2-Methylnaphthalene	ND	40		µg/L	10	6/2/2012 5:17:57 AM
Acetone	ND	100		µg/L	10	6/2/2012 5:17:57 AM
Bromobenzene	ND	10		µg/L	10	6/2/2012 5:17:57 AM
Bromodichloromethane	ND	10		µg/L	10	6/2/2012 5:17:57 AM
Bromoform	ND	10		µg/L	10	6/2/2012 5:17:57 AM
Bromomethane	ND	30		µg/L	10	6/2/2012 5:17:57 AM
2-Butanone	ND	100		µg/L	10	6/2/2012 5:17:57 AM
Carbon disulfide	ND	100		µg/L	10	6/2/2012 5:17:57 AM
Carbon Tetrachloride	ND	10		µg/L	10	6/2/2012 5:17:57 AM
Chlorobenzene	ND	10		µg/L	10	6/2/2012 5:17:57 AM
Chloroethane	ND	20		µg/L	10	6/2/2012 5:17:57 AM
Chloroform	ND	10		µg/L	10	6/2/2012 5:17:57 AM
Chloromethane	ND	30		µg/L	10	6/2/2012 5:17:57 AM
2-Chlorotoluene	ND	10		µg/L	10	6/2/2012 5:17:57 AM
4-Chlorotoluene	ND	10		µg/L	10	6/2/2012 5:17:57 AM
cis-1,2-DCE	ND	10		µg/L	10	6/2/2012 5:17:57 AM
cis-1,3-Dichloropropene	ND	10		µg/L	10	6/2/2012 5:17:57 AM
1,2-Dibromo-3-chloropropane	ND	20		µg/L	10	6/2/2012 5:17:57 AM
Dibromochloromethane	ND	10		µg/L	10	6/2/2012 5:17:57 AM
Dibromomethane	ND	10		µg/L	10	6/2/2012 5:17:57 AM
1,2-Dichlorobenzene	ND	10		µg/L	10	6/2/2012 5:17:57 AM
1,3-Dichlorobenzene	ND	10		µg/L	10	6/2/2012 5:17:57 AM
1,4-Dichlorobenzene	ND	10		µg/L	10	6/2/2012 5:17:57 AM
Dichlorodifluoromethane	ND	10		µg/L	10	6/2/2012 5:17:57 AM
1,1-Dichloroethane	ND	10		µg/L	10	6/2/2012 5:17:57 AM
1,1-Dichloroethene	ND	10		µg/L	10	6/2/2012 5:17:57 AM
1,2-Dichloropropane	ND	10		µg/L	10	6/2/2012 5:17:57 AM
1,3-Dichloropropane	ND	10		µg/L	10	6/2/2012 5:17:57 AM
2,2-Dichloropropane	ND	20		µg/L	10	6/2/2012 5:17:57 AM
1,1-Dichloropropene	ND	10		µg/L	10	6/2/2012 5:17:57 AM
Hexachlorobutadiene	ND	10		µg/L	10	6/2/2012 5:17:57 AM
2-Hexanone	ND	100		µg/L	10	6/2/2012 5:17:57 AM
Isopropylbenzene	ND	10		µg/L	10	6/2/2012 5:17:57 AM
4-Isopropyltoluene	ND	10		µg/L	10	6/2/2012 5:17:57 AM

Qualifiers: * / X Value exceeds Maximum Contaminant Level.
 E Value above quantitation range
 J Analyte detected below quantitation limits
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 RL Reporting Detection Limit
 U Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.**Analytical Report**

Lab Order 1205B66

Date Reported: 6/27/2012

CLIENT: Western Refining Southwest, Gallup**Client Sample ID:** EP-5**Project:** 2012 SEMI ANNUAL PONDS**Collection Date:** 5/29/2012 1:00:00 PM**Lab ID:** 1205B66-008**Matrix:** AQUEOUS**Received Date:** 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
4-Methyl-2-pentanone	ND	100		µg/L	10	6/2/2012 5:17:57 AM
Methylene Chloride	ND	30		µg/L	10	6/2/2012 5:17:57 AM
n-Butylbenzene	ND	10		µg/L	10	6/2/2012 5:17:57 AM
n-Propylbenzene	ND	10		µg/L	10	6/2/2012 5:17:57 AM
sec-Butylbenzene	ND	10		µg/L	10	6/2/2012 5:17:57 AM
Styrene	ND	10		µg/L	10	6/2/2012 5:17:57 AM
tert-Butylbenzene	ND	10		µg/L	10	6/2/2012 5:17:57 AM
1,1,1,2-Tetrachloroethane	ND	10		µg/L	10	6/2/2012 5:17:57 AM
1,1,2,2-Tetrachloroethane	ND	20		µg/L	10	6/2/2012 5:17:57 AM
Tetrachloroethene (PCE)	ND	10		µg/L	10	6/2/2012 5:17:57 AM
trans-1,2-DCE	ND	10		µg/L	10	6/2/2012 5:17:57 AM
trans-1,3-Dichloropropene	ND	10		µg/L	10	6/2/2012 5:17:57 AM
1,2,3-Trichlorobenzene	ND	10		µg/L	10	6/2/2012 5:17:57 AM
1,2,4-Trichlorobenzene	ND	10		µg/L	10	6/2/2012 5:17:57 AM
1,1,1-Trichloroethane	ND	10		µg/L	10	6/2/2012 5:17:57 AM
1,1,2-Trichloroethane	ND	10		µg/L	10	6/2/2012 5:17:57 AM
Trichloroethene (TCE)	ND	10		µg/L	10	6/2/2012 5:17:57 AM
Trichlorofluoromethane	ND	10		µg/L	10	6/2/2012 5:17:57 AM
1,2,3-Trichloropropane	ND	20		µg/L	10	6/2/2012 5:17:57 AM
Vinyl chloride	ND	10		µg/L	10	6/2/2012 5:17:57 AM
Xylenes, Total	ND	15		µg/L	10	6/2/2012 5:17:57 AM
Surr: 1,2-Dichloroethane-d4	106	70-130		%REC	10	6/2/2012 5:17:57 AM
Surr: 4-Bromofluorobenzene	107	70-130		%REC	10	6/2/2012 5:17:57 AM
Surr: Dibromofluoromethane	98.2	69.8-130		%REC	10	6/2/2012 5:17:57 AM
Surr: Toluene-d8	107	70-130		%REC	10	6/2/2012 5:17:57 AM
EPA 120.1: SPECIFIC CONDUCTANCE						Analyst: DBD
Conductivity	22000	0.50		µmhos/cm	50	5/31/2012 6:38:46 PM
SM4500-H+B: PH						Analyst: DBD
pH	7.84	1.68	H	pH units	1	5/31/2012 11:05:14 AM

Qualifiers: * / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit
U Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 1205B66
Date Reported: 6/27/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: EP-4

Project: 2012 SEMI ANNUAL PONDS

Collection Date: 5/29/2012 1:15:00 PM

Lab ID: 1205B66-009

Matrix: AQUEOUS

Received Date: 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: BRM
Fluoride	20	2.0	*	mg/L	20	6/5/2012 9:27:26 PM
Chloride	6500	250		mg/L	500	6/5/2012 9:52:15 PM
Nitrogen, Nitrite (As N)	ND	2.0		mg/L	20	5/30/2012 5:40:49 PM
Bromide	3.3	0.50		mg/L	5	5/30/2012 5:28:24 PM
Nitrogen, Nitrate (As N)	ND	0.50		mg/L	5	5/30/2012 5:28:24 PM
Phosphorus, Orthophosphate (As P)	ND	2.5		mg/L	5	5/30/2012 5:28:24 PM
Sulfate	1400	25		mg/L	50	6/5/2012 9:39:51 PM
EPA METHOD 200.7: DISSOLVED METALS						Analyst: ELS
Barium	0.060	0.0020		mg/L	1	6/15/2012 10:40:29 AM
Cadmium	ND	0.0020		mg/L	1	6/19/2012 7:03:40 PM
Calcium	230	10		mg/L	10	6/15/2012 10:43:34 AM
Chromium	0.0067	0.0060		mg/L	1	6/19/2012 7:03:40 PM
Copper	ND	0.0060		mg/L	1	6/19/2012 7:03:40 PM
Iron	0.20	0.020		mg/L	1	6/19/2012 7:03:40 PM
Lead	ND	0.0050		mg/L	1	6/19/2012 7:03:40 PM
Magnesium	110	10		mg/L	10	6/15/2012 10:43:34 AM
Manganese	0.061	0.0020	*	mg/L	1	6/15/2012 10:40:29 AM
Potassium	170	10		mg/L	10	6/19/2012 6:18:08 PM
Silver	ND	0.0050		mg/L	1	6/15/2012 10:40:29 AM
Sodium	3600	50		mg/L	50	6/19/2012 5:12:37 PM
Zinc	0.036	0.010		mg/L	1	6/19/2012 7:03:40 PM
EPA METHOD 200.7: TOTAL METALS						Analyst: ELS
Barium	0.064	0.0020		mg/L	1	6/14/2012 11:40:07 AM
Cadmium	ND	0.0020		mg/L	1	6/14/2012 11:40:07 AM
Chromium	0.0060	0.0060		mg/L	1	6/14/2012 11:40:07 AM
Copper	ND	0.0060		mg/L	1	6/15/2012 9:09:49 AM
Iron	0.28	0.020		mg/L	1	6/19/2012 7:50:26 PM
Lead	ND	0.0050		mg/L	1	6/14/2012 11:40:07 AM
Manganese	0.064	0.0020	*	mg/L	1	6/14/2012 11:40:07 AM
Silver	ND	0.0050		mg/L	1	6/14/2012 11:40:07 AM
Zinc	ND	0.010		mg/L	1	6/14/2012 11:40:07 AM
EPA 200.8: DISSOLVED METALS						Analyst: SNV
Arsenic	0.017	0.0050	*	mg/L	5	6/19/2012 5:52:59 PM
Selenium	0.024	0.0050		mg/L	5	6/19/2012 5:52:59 PM
Uranium	ND	0.0050		mg/L	5	6/19/2012 5:52:59 PM
200.8 ICPMS METALS:TOTAL						Analyst: SNV
Arsenic	0.015	0.0025	*	mg/L	2.5	6/14/2012 1:11:10 PM
Selenium	0.018	0.0025		mg/L	2.5	6/14/2012 1:11:10 PM
Uranium	ND	0.0025		mg/L	2.5	6/14/2012 1:11:10 PM

Qualifiers: */X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit
U Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1205B66

Date Reported: 6/27/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: EP-4

Project: 2012 SEMI ANNUAL PONDS

Collection Date: 5/29/2012 1:15:00 PM

Lab ID: 1205B66-009

Matrix: AQUEOUS

Received Date: 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 245.1: MERCURY						Analyst: IDC
Mercury	ND	0.00020		mg/L	1	6/1/2012 4:02:04 PM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	50		µg/L	1	6/1/2012 5:53:31 AM
Acenaphthylene	ND	50		µg/L	1	6/1/2012 5:53:31 AM
Aniline	ND	50		µg/L	1	6/1/2012 5:53:31 AM
Anthracene	ND	50		µg/L	1	6/1/2012 5:53:31 AM
Azobenzene	ND	50		µg/L	1	6/1/2012 5:53:31 AM
Benz(a)anthracene	ND	50		µg/L	1	6/1/2012 5:53:31 AM
Benzo(a)pyrene	ND	50		µg/L	1	6/1/2012 5:53:31 AM
Benzo(b)fluoranthene	ND	50		µg/L	1	6/1/2012 5:53:31 AM
Benzo(g,h,i)perylene	ND	50		µg/L	1	6/1/2012 5:53:31 AM
Benzo(k)fluoranthene	ND	50		µg/L	1	6/1/2012 5:53:31 AM
Benzoic acid	ND	100		µg/L	1	6/1/2012 5:53:31 AM
Benzyl alcohol	ND	50		µg/L	1	6/1/2012 5:53:31 AM
Bis(2-chloroethoxy)methane	ND	50		µg/L	1	6/1/2012 5:53:31 AM
Bis(2-chloroethyl)ether	ND	50		µg/L	1	6/1/2012 5:53:31 AM
Bis(2-chloroisopropyl)ether	ND	50		µg/L	1	6/1/2012 5:53:31 AM
Bis(2-ethylhexyl)phthalate	ND	50		µg/L	1	6/1/2012 5:53:31 AM
4-Bromophenyl phenyl ether	ND	50		µg/L	1	6/1/2012 5:53:31 AM
Butyl benzyl phthalate	ND	50		µg/L	1	6/1/2012 5:53:31 AM
Carbazole	ND	50		µg/L	1	6/1/2012 5:53:31 AM
4-Chloro-3-methylphenol	ND	50		µg/L	1	6/1/2012 5:53:31 AM
4-Chloroaniline	ND	50		µg/L	1	6/1/2012 5:53:31 AM
2-Chloronaphthalene	ND	50		µg/L	1	6/1/2012 5:53:31 AM
2-Chlorophenol	ND	50		µg/L	1	6/1/2012 5:53:31 AM
4-Chlorophenyl phenyl ether	ND	50		µg/L	1	6/1/2012 5:53:31 AM
Chrysene	ND	50		µg/L	1	6/1/2012 5:53:31 AM
Di-n-butyl phthalate	ND	50		µg/L	1	6/1/2012 5:53:31 AM
Di-n-octyl phthalate	ND	50		µg/L	1	6/1/2012 5:53:31 AM
Dibenz(a,h)anthracene	ND	50		µg/L	1	6/1/2012 5:53:31 AM
Dibenzofuran	ND	50		µg/L	1	6/1/2012 5:53:31 AM
1,2-Dichlorobenzene	ND	50		µg/L	1	6/1/2012 5:53:31 AM
1,3-Dichlorobenzene	ND	50		µg/L	1	6/1/2012 5:53:31 AM
1,4-Dichlorobenzene	ND	50		µg/L	1	6/1/2012 5:53:31 AM
3,3'-Dichlorobenzidine	ND	50		µg/L	1	6/1/2012 5:53:31 AM
Diethyl phthalate	ND	50		µg/L	1	6/1/2012 5:53:31 AM
Dimethyl phthalate	ND	50		µg/L	1	6/1/2012 5:53:31 AM
2,4-Dichlorophenol	ND	100		µg/L	1	6/1/2012 5:53:31 AM
2,4-Dimethylphenol	110	50		µg/L	1	6/1/2012 5:53:31 AM
4,6-Dinitro-2-methylphenol	ND	100		µg/L	1	6/1/2012 5:53:31 AM
2,4-Dinitrophenol	ND	100		µg/L	1	6/1/2012 5:53:31 AM

Qualifiers:

- *X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit
- U Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1205B66

Date Reported: 6/27/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: EP-4

Project: 2012 SEMI ANNUAL PONDS

Collection Date: 5/29/2012 1:15:00 PM

Lab ID: 1205B66-009

Matrix: AQUEOUS

Received Date: 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
2,4-Dinitrotoluene	ND	50		µg/L	1	6/1/2012 5:53:31 AM
2,6-Dinitrotoluene	ND	50		µg/L	1	6/1/2012 5:53:31 AM
Fluoranthene	ND	50		µg/L	1	6/1/2012 5:53:31 AM
Fluorene	ND	50		µg/L	1	6/1/2012 5:53:31 AM
Hexachlorobenzene	ND	50		µg/L	1	6/1/2012 5:53:31 AM
Hexachlorobutadiene	ND	50		µg/L	1	6/1/2012 5:53:31 AM
Hexachlorocyclopentadiene	ND	50		µg/L	1	6/1/2012 5:53:31 AM
Hexachloroethane	ND	50		µg/L	1	6/1/2012 5:53:31 AM
Indeno(1,2,3-cd)pyrene	ND	50		µg/L	1	6/1/2012 5:53:31 AM
Isophorone	ND	50		µg/L	1	6/1/2012 5:53:31 AM
1-Methylnaphthalene	ND	50		µg/L	1	6/1/2012 5:53:31 AM
2-Methylnaphthalene	ND	50		µg/L	1	6/1/2012 5:53:31 AM
2-Methylphenol	780	50		µg/L	1	6/1/2012 5:53:31 AM
3+4-Methylphenol	1200	250		µg/L	5	6/1/2012 10:24:26 AM
N-Nitrosodi-n-propylamine	ND	50		µg/L	1	6/1/2012 5:53:31 AM
N-Nitrosodimethylamine	ND	50		µg/L	1	6/1/2012 5:53:31 AM
N-Nitrosodiphenylamine	ND	50		µg/L	1	6/1/2012 5:53:31 AM
Naphthalene	ND	50		µg/L	1	6/1/2012 5:53:31 AM
2-Nitroaniline	ND	50		µg/L	1	6/1/2012 5:53:31 AM
3-Nitroaniline	ND	50		µg/L	1	6/1/2012 5:53:31 AM
4-Nitroaniline	ND	100		µg/L	1	6/1/2012 5:53:31 AM
Nitrobenzene	ND	50		µg/L	1	6/1/2012 5:53:31 AM
2-Nitrophenol	ND	50		µg/L	1	6/1/2012 5:53:31 AM
4-Nitrophenol	ND	50		µg/L	1	6/1/2012 5:53:31 AM
Pentachlorophenol	ND	100		µg/L	1	6/1/2012 5:53:31 AM
Phenanthrene	ND	50		µg/L	1	6/1/2012 5:53:31 AM
Phenol	2900	250		µg/L	5	6/1/2012 10:24:26 AM
Pyrene	ND	50		µg/L	1	6/1/2012 5:53:31 AM
Pyridine	ND	50		µg/L	1	6/1/2012 5:53:31 AM
1,2,4-Trichlorobenzene	ND	50		µg/L	1	6/1/2012 5:53:31 AM
2,4,5-Trichlorophenol	ND	50		µg/L	1	6/1/2012 5:53:31 AM
2,4,6-Trichlorophenol	ND	50		µg/L	1	6/1/2012 5:53:31 AM
Surr: 2,4,6-Tribromophenol	81.5	44.2-126		%REC	1	6/1/2012 5:53:31 AM
Surr: 2-Fluorobiphenyl	69.7	37-114		%REC	1	6/1/2012 5:53:31 AM
Surr: 2-Fluorophenol	56.4	23.4-98		%REC	1	6/1/2012 5:53:31 AM
Surr: 4-Terphenyl-d14	72.5	41.3-116		%REC	1	6/1/2012 5:53:31 AM
Surr: Nitrobenzene-d5	71.7	39.5-118		%REC	1	6/1/2012 5:53:31 AM
Surr: Phenol-d5	50.3	20.9-95.9		%REC	1	6/1/2012 5:53:31 AM
EPA METHOD 8260B: VOLATILES						Analyst: RAA
Benzene	ND	10		µg/L	10	6/2/2012 5:47:25 AM
Toluene	ND	10		µg/L	10	6/2/2012 5:47:25 AM

Qualifiers:

- *X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit
- U Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1205B66

Date Reported: 6/27/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: EP-4

Project: 2012 SEMI ANNUAL PONDS

Collection Date: 5/29/2012 1:15:00 PM

Lab ID: 1205B66-009

Matrix: AQUEOUS

Received Date: 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
Ethylbenzene	ND	10		µg/L	10	6/2/2012 5:47:25 AM
Methyl tert-butyl ether (MTBE)	ND	10		µg/L	10	6/2/2012 5:47:25 AM
1,2,4-Trimethylbenzene	ND	10		µg/L	10	6/2/2012 5:47:25 AM
1,3,5-Trimethylbenzene	ND	10		µg/L	10	6/2/2012 5:47:25 AM
1,2-Dichloroethane (EDC)	ND	10		µg/L	10	6/2/2012 5:47:25 AM
1,2-Dibromoethane (EDB)	ND	10		µg/L	10	6/2/2012 5:47:25 AM
Naphthalene	ND	20		µg/L	10	6/2/2012 5:47:25 AM
1-Methylnaphthalene	ND	40		µg/L	10	6/2/2012 5:47:25 AM
2-Methylnaphthalene	ND	40		µg/L	10	6/2/2012 5:47:25 AM
Acetone	ND	100		µg/L	10	6/2/2012 5:47:25 AM
Bromobenzene	ND	10		µg/L	10	6/2/2012 5:47:25 AM
Bromodichloromethane	ND	10		µg/L	10	6/2/2012 5:47:25 AM
Bromoform	ND	10		µg/L	10	6/2/2012 5:47:25 AM
Bromomethane	ND	30		µg/L	10	6/2/2012 5:47:25 AM
2-Butanone	ND	100		µg/L	10	6/2/2012 5:47:25 AM
Carbon disulfide	ND	100		µg/L	10	6/2/2012 5:47:25 AM
Carbon Tetrachloride	ND	10		µg/L	10	6/2/2012 5:47:25 AM
Chlorobenzene	ND	10		µg/L	10	6/2/2012 5:47:25 AM
Chloroethane	ND	20		µg/L	10	6/2/2012 5:47:25 AM
Chloroform	ND	10		µg/L	10	6/2/2012 5:47:25 AM
Chloromethane	ND	30		µg/L	10	6/2/2012 5:47:25 AM
2-Chlorotoluene	ND	10		µg/L	10	6/2/2012 5:47:25 AM
4-Chlorotoluene	ND	10		µg/L	10	6/2/2012 5:47:25 AM
cis-1,2-DCE	ND	10		µg/L	10	6/2/2012 5:47:25 AM
cis-1,3-Dichloropropene	ND	10		µg/L	10	6/2/2012 5:47:25 AM
1,2-Dibromo-3-chloropropane	ND	20		µg/L	10	6/2/2012 5:47:25 AM
Dibromochloromethane	ND	10		µg/L	10	6/2/2012 5:47:25 AM
Dibromomethane	ND	10		µg/L	10	6/2/2012 5:47:25 AM
1,2-Dichlorobenzene	ND	10		µg/L	10	6/2/2012 5:47:25 AM
1,3-Dichlorobenzene	ND	10		µg/L	10	6/2/2012 5:47:25 AM
1,4-Dichlorobenzene	ND	10		µg/L	10	6/2/2012 5:47:25 AM
Dichlorodifluoromethane	ND	10		µg/L	10	6/2/2012 5:47:25 AM
1,1-Dichloroethane	ND	10		µg/L	10	6/2/2012 5:47:25 AM
1,1-Dichloroethene	ND	10		µg/L	10	6/2/2012 5:47:25 AM
1,2-Dichloropropane	ND	10		µg/L	10	6/2/2012 5:47:25 AM
1,3-Dichloropropane	ND	10		µg/L	10	6/2/2012 5:47:25 AM
2,2-Dichloropropane	ND	20		µg/L	10	6/2/2012 5:47:25 AM
1,1-Dichloropropene	ND	10		µg/L	10	6/2/2012 5:47:25 AM
Hexachlorobutadiene	ND	10		µg/L	10	6/2/2012 5:47:25 AM
2-Hexanone	ND	100		µg/L	10	6/2/2012 5:47:25 AM
Isopropylbenzene	ND	10		µg/L	10	6/2/2012 5:47:25 AM
4-Isopropyltoluene	ND	10		µg/L	10	6/2/2012 5:47:25 AM

Qualifiers: *X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit
U Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1205B66

Date Reported: 6/27/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: EP-4

Project: 2012 SEMI ANNUAL PONDS

Collection Date: 5/29/2012 1:15:00 PM

Lab ID: 1205B66-009

Matrix: AQUEOUS

Received Date: 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
4-Methyl-2-pentanone	ND	100		µg/L	10	6/2/2012 5:47:25 AM
Methylene Chloride	ND	30		µg/L	10	6/2/2012 5:47:25 AM
n-Butylbenzene	ND	10		µg/L	10	6/2/2012 5:47:25 AM
n-Propylbenzene	ND	10		µg/L	10	6/2/2012 5:47:25 AM
sec-Butylbenzene	ND	10		µg/L	10	6/2/2012 5:47:25 AM
Styrene	ND	10		µg/L	10	6/2/2012 5:47:25 AM
tert-Butylbenzene	ND	10		µg/L	10	6/2/2012 5:47:25 AM
1,1,1,2-Tetrachloroethane	ND	10		µg/L	10	6/2/2012 5:47:25 AM
1,1,2,2-Tetrachloroethane	ND	20		µg/L	10	6/2/2012 5:47:25 AM
Tetrachloroethene (PCE)	ND	10		µg/L	10	6/2/2012 5:47:25 AM
trans-1,2-DCE	ND	10		µg/L	10	6/2/2012 5:47:25 AM
trans-1,3-Dichloropropene	ND	10		µg/L	10	6/2/2012 5:47:25 AM
1,2,3-Trichlorobenzene	ND	10		µg/L	10	6/2/2012 5:47:25 AM
1,2,4-Trichlorobenzene	ND	10		µg/L	10	6/2/2012 5:47:25 AM
1,1,1-Trichloroethane	ND	10		µg/L	10	6/2/2012 5:47:25 AM
1,1,2-Trichloroethane	ND	10		µg/L	10	6/2/2012 5:47:25 AM
Trichloroethene (TCE)	ND	10		µg/L	10	6/2/2012 5:47:25 AM
Trichlorofluoromethane	ND	10		µg/L	10	6/2/2012 5:47:25 AM
1,2,3-Trichloropropane	ND	20		µg/L	10	6/2/2012 5:47:25 AM
Vinyl chloride	ND	10		µg/L	10	6/2/2012 5:47:25 AM
Xylenes, Total	ND	15		µg/L	10	6/2/2012 5:47:25 AM
Surr: 1,2-Dichloroethane-d4	100	70-130		%REC	10	6/2/2012 5:47:25 AM
Surr: 4-Bromofluorobenzene	109	70-130		%REC	10	6/2/2012 5:47:25 AM
Surr: Dibromofluoromethane	94.0	69.8-130		%REC	10	6/2/2012 5:47:25 AM
Surr: Toluene-d8	105	70-130		%REC	10	6/2/2012 5:47:25 AM
EPA 120.1: SPECIFIC CONDUCTANCE						Analyst: DBD
Conductivity	22000	0.50		µmhos/cm	50	5/31/2012 6:42:52 PM
SM4500-H+B: PH						Analyst: DBD
pH	7.87	1.68	H	pH units	1	5/31/2012 11:09:20 AM

Qualifiers: * / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit
U Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1205B66

Date Reported: 6/27/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: EP-3

Project: 2012 SEMI ANNUAL PONDS

Collection Date: 5/29/2012 1:30:00 PM

Lab ID: 1205B66-010

Matrix: AQUEOUS

Received Date: 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: BRM
Fluoride	22	2.0	*	mg/L	20	6/5/2012 10:41:53 PM
Chloride	9500	250		mg/L	500	6/5/2012 10:04:40 PM
Bromide	2.4	0.50		mg/L	5	5/30/2012 7:32:30 PM
Phosphorus, Orthophosphate (As P)	ND	2.5		mg/L	5	5/30/2012 7:32:30 PM
Sulfate	1400	25		mg/L	50	6/5/2012 10:54:18 PM
Nitrate+Nitrite as N	ND	4.0		mg/L	20	6/6/2012 2:12:51 AM
EPA METHOD 200.7: DISSOLVED METALS						Analyst: ELS
Barium	0.076	0.0020		mg/L	1	6/15/2012 10:46:55 AM
Cadmium	ND	0.0020		mg/L	1	6/19/2012 7:08:25 PM
Calcium	410	10		mg/L	10	6/15/2012 10:49:58 AM
Chromium	ND	0.0060		mg/L	1	6/19/2012 7:08:25 PM
Copper	ND	0.0060		mg/L	1	6/19/2012 7:08:25 PM
Iron	0.22	0.020		mg/L	1	6/19/2012 7:08:25 PM
Lead	ND	0.0050		mg/L	1	6/19/2012 7:08:25 PM
Magnesium	140	10		mg/L	10	6/15/2012 10:49:58 AM
Manganese	0.10	0.0020	*	mg/L	1	6/15/2012 10:46:55 AM
Potassium	190	10		mg/L	10	6/19/2012 6:21:29 PM
Silver	ND	0.0050		mg/L	1	6/15/2012 10:46:55 AM
Sodium	4700	100		mg/L	100	6/19/2012 4:45:55 PM
Zinc	0.033	0.010		mg/L	1	6/19/2012 7:08:25 PM
EPA METHOD 200.7: TOTAL METALS						Analyst: ELS
Barium	0.081	0.0020		mg/L	1	6/14/2012 11:48:16 AM
Cadmium	ND	0.0020		mg/L	1	6/14/2012 11:48:16 AM
Chromium	ND	0.0060		mg/L	1	6/14/2012 11:48:16 AM
Copper	ND	0.0060		mg/L	1	6/15/2012 9:12:55 AM
Iron	0.39	0.020	*	mg/L	1	6/19/2012 7:53:30 PM
Lead	ND	0.0050		mg/L	1	6/14/2012 11:48:16 AM
Manganese	0.11	0.0020	*	mg/L	1	6/14/2012 11:48:16 AM
Silver	ND	0.0050		mg/L	1	6/14/2012 11:48:16 AM
Zinc	ND	0.010		mg/L	1	6/14/2012 11:48:16 AM
EPA 200.8: DISSOLVED METALS						Analyst: SNV
Arsenic	0.014	0.010	*	mg/L	10	6/19/2012 5:56:45 PM
Selenium	0.022	0.010		mg/L	10	6/19/2012 5:56:45 PM
Uranium	ND	0.010		mg/L	10	6/19/2012 5:56:45 PM
200.8 ICPMS METALS:TOTAL						Analyst: SNV
Arsenic	0.013	0.0025	*	mg/L	2.5	6/14/2012 1:13:02 PM
Selenium	0.013	0.0025		mg/L	2.5	6/14/2012 1:13:02 PM
Uranium	ND	0.0050		mg/L	5	6/15/2012 4:10:12 PM
EPA METHOD 245.1: MERCURY						Analyst: IDC

Qualifiers: *X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit
U Samples with CalcVal < MDL

Analytical Report

Lab Order 1205B66

Date Reported: 6/27/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: EP-3

Project: 2012 SEMI ANNUAL PONDS

Collection Date: 5/29/2012 1:30:00 PM

Lab ID: 1205B66-010

Matrix: AQUEOUS

Received Date: 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 245.1: MERCURY						Analyst: IDC
Mercury	ND	0.00020		mg/L	1	6/1/2012 4:03:53 PM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	100		µg/L	1	6/1/2012 6:22:36 AM
Acenaphthylene	ND	100		µg/L	1	6/1/2012 6:22:36 AM
Aniline	ND	100		µg/L	1	6/1/2012 6:22:36 AM
Anthracene	ND	100		µg/L	1	6/1/2012 6:22:36 AM
Azobenzene	ND	100		µg/L	1	6/1/2012 6:22:36 AM
Benz(a)anthracene	ND	100		µg/L	1	6/1/2012 6:22:36 AM
Benzo(a)pyrene	ND	100		µg/L	1	6/1/2012 6:22:36 AM
Benzo(b)fluoranthene	ND	100		µg/L	1	6/1/2012 6:22:36 AM
Benzo(g,h,i)perylene	ND	100		µg/L	1	6/1/2012 6:22:36 AM
Benzo(k)fluoranthene	ND	100		µg/L	1	6/1/2012 6:22:36 AM
Benzoic acid	ND	200		µg/L	1	6/1/2012 6:22:36 AM
Benzyl alcohol	ND	100		µg/L	1	6/1/2012 6:22:36 AM
Bis(2-chloroethoxy)methane	ND	100		µg/L	1	6/1/2012 6:22:36 AM
Bis(2-chloroethyl)ether	ND	100		µg/L	1	6/1/2012 6:22:36 AM
Bis(2-chloroisopropyl)ether	ND	100		µg/L	1	6/1/2012 6:22:36 AM
Bis(2-ethylhexyl)phthalate	ND	100		µg/L	1	6/1/2012 6:22:36 AM
4-Bromophenyl phenyl ether	ND	100		µg/L	1	6/1/2012 6:22:36 AM
Butyl benzyl phthalate	ND	100		µg/L	1	6/1/2012 6:22:36 AM
Carbazole	ND	100		µg/L	1	6/1/2012 6:22:36 AM
4-Chloro-3-methylphenol	ND	100		µg/L	1	6/1/2012 6:22:36 AM
4-Chloroaniline	ND	100		µg/L	1	6/1/2012 6:22:36 AM
2-Chloronaphthalene	ND	100		µg/L	1	6/1/2012 6:22:36 AM
2-Chlorophenol	ND	100		µg/L	1	6/1/2012 6:22:36 AM
4-Chlorophenyl phenyl ether	ND	100		µg/L	1	6/1/2012 6:22:36 AM
Chrysene	ND	100		µg/L	1	6/1/2012 6:22:36 AM
Di-n-butyl phthalate	ND	100		µg/L	1	6/1/2012 6:22:36 AM
Di-n-octyl phthalate	ND	100		µg/L	1	6/1/2012 6:22:36 AM
Dibenz(a,h)anthracene	ND	100		µg/L	1	6/1/2012 6:22:36 AM
Dibenzofuran	ND	100		µg/L	1	6/1/2012 6:22:36 AM
1,2-Dichlorobenzene	ND	100		µg/L	1	6/1/2012 6:22:36 AM
1,3-Dichlorobenzene	ND	100		µg/L	1	6/1/2012 6:22:36 AM
1,4-Dichlorobenzene	ND	100		µg/L	1	6/1/2012 6:22:36 AM
3,3'-Dichlorobenzidine	ND	100		µg/L	1	6/1/2012 6:22:36 AM
Diethyl phthalate	ND	100		µg/L	1	6/1/2012 6:22:36 AM
Dimethyl phthalate	ND	100		µg/L	1	6/1/2012 6:22:36 AM
2,4-Dichlorophenol	ND	200		µg/L	1	6/1/2012 6:22:36 AM
2,4-Dimethylphenol	130	100		µg/L	1	6/1/2012 6:22:36 AM
4,6-Dinitro-2-methylphenol	ND	200		µg/L	1	6/1/2012 6:22:36 AM
2,4-Dinitrophenol	ND	200		µg/L	1	6/1/2012 6:22:36 AM

Qualifiers:

- *X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit
- U Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1205B66

Date Reported: 6/27/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: EP-3

Project: 2012 SEMI ANNUAL PONDS

Collection Date: 5/29/2012 1:30:00 PM

Lab ID: 1205B66-010

Matrix: AQUEOUS

Received Date: 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
2,4-Dinitrotoluene	ND	100		µg/L	1	6/1/2012 6:22:36 AM
2,6-Dinitrotoluene	ND	100		µg/L	1	6/1/2012 6:22:36 AM
Fluoranthene	ND	100		µg/L	1	6/1/2012 6:22:36 AM
Fluorene	ND	100		µg/L	1	6/1/2012 6:22:36 AM
Hexachlorobenzene	ND	100		µg/L	1	6/1/2012 6:22:36 AM
Hexachlorobutadiene	ND	100		µg/L	1	6/1/2012 6:22:36 AM
Hexachlorocyclopentadiene	ND	100		µg/L	1	6/1/2012 6:22:36 AM
Hexachloroethane	ND	100		µg/L	1	6/1/2012 6:22:36 AM
Indeno(1,2,3-cd)pyrene	ND	100		µg/L	1	6/1/2012 6:22:36 AM
Isophorone	ND	100		µg/L	1	6/1/2012 6:22:36 AM
1-Methylnaphthalene	ND	100		µg/L	1	6/1/2012 6:22:36 AM
2-Methylnaphthalene	ND	100		µg/L	1	6/1/2012 6:22:36 AM
2-Methylphenol	870	100		µg/L	1	6/1/2012 6:22:36 AM
3+4-Methylphenol	1600	100		µg/L	1	6/1/2012 6:22:36 AM
N-Nitrosodi-n-propylamine	ND	100		µg/L	1	6/1/2012 6:22:36 AM
N-Nitrosodimethylamine	ND	100		µg/L	1	6/1/2012 6:22:36 AM
N-Nitrosodiphenylamine	ND	100		µg/L	1	6/1/2012 6:22:36 AM
Naphthalene	ND	100		µg/L	1	6/1/2012 6:22:36 AM
2-Nitroaniline	ND	100		µg/L	1	6/1/2012 6:22:36 AM
3-Nitroaniline	ND	100		µg/L	1	6/1/2012 6:22:36 AM
4-Nitroaniline	ND	200		µg/L	1	6/1/2012 6:22:36 AM
Nitrobenzene	ND	100		µg/L	1	6/1/2012 6:22:36 AM
2-Nitrophenol	ND	100		µg/L	1	6/1/2012 6:22:36 AM
4-Nitrophenol	ND	100		µg/L	1	6/1/2012 6:22:36 AM
Pentachlorophenol	ND	200		µg/L	1	6/1/2012 6:22:36 AM
Phenanthrene	ND	100		µg/L	1	6/1/2012 6:22:36 AM
Phenol	3300	200		µg/L	2	6/1/2012 10:54:09 AM
Pyrene	ND	100		µg/L	1	6/1/2012 6:22:36 AM
Pyridine	ND	100		µg/L	1	6/1/2012 6:22:36 AM
1,2,4-Trichlorobenzene	ND	100		µg/L	1	6/1/2012 6:22:36 AM
2,4,5-Trichlorophenol	ND	100		µg/L	1	6/1/2012 6:22:36 AM
2,4,6-Trichlorophenol	ND	100		µg/L	1	6/1/2012 6:22:36 AM
Surr: 2,4,6-Tribromophenol	93.4	44.2-126		%REC	1	6/1/2012 6:22:36 AM
Surr: 2-Fluorobiphenyl	89.5	37-114		%REC	1	6/1/2012 6:22:36 AM
Surr: 2-Fluorophenol	69.8	23.4-98		%REC	1	6/1/2012 6:22:36 AM
Surr: 4-Terphenyl-d14	97.5	41.3-116		%REC	1	6/1/2012 6:22:36 AM
Surr: Nitrobenzene-d5	97.6	39.5-118		%REC	1	6/1/2012 6:22:36 AM
Surr: Phenol-d5	57.5	20.9-95.9		%REC	1	6/1/2012 6:22:36 AM
EPA METHOD 8260B: VOLATILES						Analyst: RAA
Benzene	ND	10		µg/L	10	6/2/2012 6:16:40 AM
Toluene	ND	10		µg/L	10	6/2/2012 6:16:40 AM

Qualifiers:

- *X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit
- U Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1205B66

Date Reported: 6/27/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: EP-3

Project: 2012 SEMI ANNUAL PONDS

Collection Date: 5/29/2012 1:30:00 PM

Lab ID: 1205B66-010

Matrix: AQUEOUS

Received Date: 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
Ethylbenzene	ND	10		µg/L	10	6/2/2012 6:16:40 AM
Methyl tert-butyl ether (MTBE)	ND	10		µg/L	10	6/2/2012 6:16:40 AM
1,2,4-Trimethylbenzene	ND	10		µg/L	10	6/2/2012 6:16:40 AM
1,3,5-Trimethylbenzene	ND	10		µg/L	10	6/2/2012 6:16:40 AM
1,2-Dichloroethane (EDC)	ND	10		µg/L	10	6/2/2012 6:16:40 AM
1,2-Dibromoethane (EDB)	ND	10		µg/L	10	6/2/2012 6:16:40 AM
Naphthalene	ND	20		µg/L	10	6/2/2012 6:16:40 AM
1-Methylnaphthalene	ND	40		µg/L	10	6/2/2012 6:16:40 AM
2-Methylnaphthalene	ND	40		µg/L	10	6/2/2012 6:16:40 AM
Acetone	210	100		µg/L	10	6/2/2012 6:16:40 AM
Bromobenzene	ND	10		µg/L	10	6/2/2012 6:16:40 AM
Bromodichloromethane	ND	10		µg/L	10	6/2/2012 6:16:40 AM
Bromoforn	ND	10		µg/L	10	6/2/2012 6:16:40 AM
Bromomethane	ND	30		µg/L	10	6/2/2012 6:16:40 AM
2-Butanone	ND	100		µg/L	10	6/2/2012 6:16:40 AM
Carbon disulfide	ND	100		µg/L	10	6/2/2012 6:16:40 AM
Carbon Tetrachloride	ND	10		µg/L	10	6/2/2012 6:16:40 AM
Chlorobenzene	ND	10		µg/L	10	6/2/2012 6:16:40 AM
Chloroethane	ND	20		µg/L	10	6/2/2012 6:16:40 AM
Chloroform	ND	10		µg/L	10	6/2/2012 6:16:40 AM
Chloromethane	ND	30		µg/L	10	6/2/2012 6:16:40 AM
2-Chlorotoluene	ND	10		µg/L	10	6/2/2012 6:16:40 AM
4-Chlorotoluene	ND	10		µg/L	10	6/2/2012 6:16:40 AM
cis-1,2-DCE	ND	10		µg/L	10	6/2/2012 6:16:40 AM
cis-1,3-Dichloropropene	ND	10		µg/L	10	6/2/2012 6:16:40 AM
1,2-Dibromo-3-chloropropane	ND	20		µg/L	10	6/2/2012 6:16:40 AM
Dibromochloromethane	ND	10		µg/L	10	6/2/2012 6:16:40 AM
Dibromomethane	ND	10		µg/L	10	6/2/2012 6:16:40 AM
1,2-Dichlorobenzene	ND	10		µg/L	10	6/2/2012 6:16:40 AM
1,3-Dichlorobenzene	ND	10		µg/L	10	6/2/2012 6:16:40 AM
1,4-Dichlorobenzene	ND	10		µg/L	10	6/2/2012 6:16:40 AM
Dichlorodifluoromethane	ND	10		µg/L	10	6/2/2012 6:16:40 AM
1,1-Dichloroethane	ND	10		µg/L	10	6/2/2012 6:16:40 AM
1,1-Dichloroethene	ND	10		µg/L	10	6/2/2012 6:16:40 AM
1,2-Dichloropropane	ND	10		µg/L	10	6/2/2012 6:16:40 AM
1,3-Dichloropropane	ND	10		µg/L	10	6/2/2012 6:16:40 AM
2,2-Dichloropropane	ND	20		µg/L	10	6/2/2012 6:16:40 AM
1,1-Dichloropropene	ND	10		µg/L	10	6/2/2012 6:16:40 AM
Hexachlorobutadiene	ND	10		µg/L	10	6/2/2012 6:16:40 AM
2-Hexanone	ND	100		µg/L	10	6/2/2012 6:16:40 AM
Isopropylbenzene	ND	10		µg/L	10	6/2/2012 6:16:40 AM
4-Isopropyltoluene	ND	10		µg/L	10	6/2/2012 6:16:40 AM

Qualifiers: *X Value exceeds Maximum Contaminant Level.
 E Value above quantitation range
 J Analyte detected below quantitation limits
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 RL Reporting Detection Limit
 U Samples with CalcVal < MDL

Analytical Report

Lab Order 1205B66

Date Reported: 6/27/2012

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Western Refining Southwest, Gallup**Client Sample ID:** EP-3**Project:** 2012 SEMI ANNUAL PONDS**Collection Date:** 5/29/2012 1:30:00 PM**Lab ID:** 1205B66-010**Matrix:** AQUEOUS**Received Date:** 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
4-Methyl-2-pentanone	ND	100		µg/L	10	6/2/2012 6:16:40 AM
Methylene Chloride	ND	30		µg/L	10	6/2/2012 6:16:40 AM
n-Butylbenzene	ND	10		µg/L	10	6/2/2012 6:16:40 AM
n-Propylbenzene	ND	10		µg/L	10	6/2/2012 6:16:40 AM
sec-Butylbenzene	ND	10		µg/L	10	6/2/2012 6:16:40 AM
Styrene	ND	10		µg/L	10	6/2/2012 6:16:40 AM
tert-Butylbenzene	ND	10		µg/L	10	6/2/2012 6:16:40 AM
1,1,1,2-Tetrachloroethane	ND	10		µg/L	10	6/2/2012 6:16:40 AM
1,1,2,2-Tetrachloroethane	ND	20		µg/L	10	6/2/2012 6:16:40 AM
Tetrachloroethene (PCE)	ND	10		µg/L	10	6/2/2012 6:16:40 AM
trans-1,2-DCE	ND	10		µg/L	10	6/2/2012 6:16:40 AM
trans-1,3-Dichloropropene	ND	10		µg/L	10	6/2/2012 6:16:40 AM
1,2,3-Trichlorobenzene	ND	10		µg/L	10	6/2/2012 6:16:40 AM
1,2,4-Trichlorobenzene	ND	10		µg/L	10	6/2/2012 6:16:40 AM
1,1,1-Trichloroethane	ND	10		µg/L	10	6/2/2012 6:16:40 AM
1,1,2-Trichloroethane	ND	10		µg/L	10	6/2/2012 6:16:40 AM
Trichloroethene (TCE)	ND	10		µg/L	10	6/2/2012 6:16:40 AM
Trichlorofluoromethane	ND	10		µg/L	10	6/2/2012 6:16:40 AM
1,2,3-Trichloropropane	ND	20		µg/L	10	6/2/2012 6:16:40 AM
Vinyl chloride	ND	10		µg/L	10	6/2/2012 6:16:40 AM
Xylenes, Total	ND	15		µg/L	10	6/2/2012 6:16:40 AM
Surr: 1,2-Dichloroethane-d4	108	70-130		%REC	10	6/2/2012 6:16:40 AM
Surr: 4-Bromofluorobenzene	101	70-130		%REC	10	6/2/2012 6:16:40 AM
Surr: Dibromofluoromethane	93.8	69.8-130		%REC	10	6/2/2012 6:16:40 AM
Surr: Toluene-d8	106	70-130		%REC	10	6/2/2012 6:16:40 AM
EPA 120.1: SPECIFIC CONDUCTANCE						Analyst: DBD
Conductivity	27000	0.50		µmhos/cm	50	5/31/2012 6:46:57 PM
SM4500-H+B: PH						Analyst: DBD
pH	7.68	1.68	H	pH units	1	5/31/2012 11:13:25 AM

Qualifiers: * / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit
U Samples with CalcVal < MDL

Analytical Report

Lab Order 1205B66

Date Reported: 6/27/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: EP-9

Project: 2012 SEMI ANNUAL PONDS

Collection Date: 5/29/2012 1:55:00 PM

Lab ID: 1205B66-011

Matrix: AQUEOUS

Received Date: 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: BRM
Fluoride	21	5.0	*	mg/L	50	6/5/2012 11:06:43 PM
Chloride	63000	2500		mg/L	5000	6/11/2012 6:28:11 PM
Bromide	24	5.0		mg/L	50	6/5/2012 11:06:43 PM
Phosphorus, Orthophosphate (As P)	ND	25	H	mg/L	50	6/5/2012 11:06:43 PM
Sulfate	7500	250		mg/L	500	6/5/2012 11:19:07 PM
Nitrate+Nitrite as N	ND	20		mg/L	100	6/11/2012 7:05:25 PM
EPA METHOD 200.7: DISSOLVED METALS						Analyst: ELS
Barium	0.18	0.020		mg/L	10	6/15/2012 10:58:16 AM
Cadmium	ND	0.020		mg/L	10	6/19/2012 6:24:51 PM
Calcium	1100	20		mg/L	20	6/19/2012 5:37:02 PM
Chromium	ND	0.060		mg/L	10	6/19/2012 6:24:51 PM
Copper	ND	0.060		mg/L	10	6/19/2012 6:24:51 PM
Iron	ND	0.20		mg/L	10	6/19/2012 6:24:51 PM
Lead	ND	0.050		mg/L	10	6/19/2012 6:24:51 PM
Magnesium	930	10		mg/L	10	6/15/2012 10:58:16 AM
Manganese	4.8	0.020	*	mg/L	10	6/15/2012 10:58:16 AM
Potassium	1100	20		mg/L	20	6/19/2012 5:37:02 PM
Silver	ND	0.050		mg/L	10	6/15/2012 10:58:16 AM
Sodium	30000	500		mg/L	500	6/21/2012 10:41:18 AM
Zinc	ND	0.10		mg/L	10	6/19/2012 6:24:51 PM
EPA METHOD 200.7: TOTAL METALS						Analyst: ELS
Barium	0.17	0.0020		mg/L	1	6/14/2012 11:54:53 AM
Cadmium	ND	0.0020		mg/L	1	6/14/2012 11:54:53 AM
Chromium	0.0096	0.0060		mg/L	1	6/14/2012 11:54:53 AM
Copper	ND	0.0060		mg/L	1	6/15/2012 9:15:59 AM
Iron	0.11	0.020		mg/L	1	6/19/2012 7:56:43 PM
Lead	ND	0.0050		mg/L	1	6/14/2012 11:54:53 AM
Manganese	4.7	0.010	*	mg/L	5	6/14/2012 11:58:12 AM
Silver	ND	0.0050		mg/L	1	6/14/2012 11:54:53 AM
Zinc	0.014	0.010		mg/L	1	6/14/2012 11:54:53 AM
EPA 200.8: DISSOLVED METALS						Analyst: SNV
Arsenic	0.086	0.020	*	mg/L	20	6/19/2012 5:58:37 PM
Selenium	0.084	0.020	*	mg/L	20	6/19/2012 5:58:37 PM
Uranium	ND	0.020		mg/L	20	6/19/2012 5:58:37 PM
200.8 ICPMS METALS:TOTAL						Analyst: SNV
Arsenic	0.081	0.010	*	mg/L	10	6/14/2012 1:26:12 PM
Selenium	0.074	0.010	*	mg/L	10	6/14/2012 1:26:12 PM
Uranium	ND	0.020		mg/L	20	6/15/2012 4:14:08 PM
EPA METHOD 245.1: MERCURY						Analyst: IDC

Qualifiers: * / X Value exceeds Maximum Contaminant Level.
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 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 RL Reporting Detection Limit
 U Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1205B66

Date Reported: 6/27/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: EP-9

Project: 2012 SEMI ANNUAL PONDS

Collection Date: 5/29/2012 1:55:00 PM

Lab ID: 1205B66-011

Matrix: AQUEOUS

Received Date: 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 245.1: MERCURY						Analyst: IDC
Mercury	ND	0.00020		mg/L	1	6/1/2012 4:09:10 PM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	10		µg/L	1	6/1/2012 6:51:41 AM
Acenaphthylene	ND	10		µg/L	1	6/1/2012 6:51:41 AM
Aniline	ND	10		µg/L	1	6/1/2012 6:51:41 AM
Anthracene	ND	10		µg/L	1	6/1/2012 6:51:41 AM
Azobenzene	ND	10		µg/L	1	6/1/2012 6:51:41 AM
Benz(a)anthracene	ND	10		µg/L	1	6/1/2012 6:51:41 AM
Benzo(a)pyrene	ND	10		µg/L	1	6/1/2012 6:51:41 AM
Benzo(b)fluoranthene	ND	10		µg/L	1	6/1/2012 6:51:41 AM
Benzo(g,h,i)perylene	ND	10		µg/L	1	6/1/2012 6:51:41 AM
Benzo(k)fluoranthene	ND	10		µg/L	1	6/1/2012 6:51:41 AM
Benzoic acid	ND	20		µg/L	1	6/1/2012 6:51:41 AM
Benzyl alcohol	ND	10		µg/L	1	6/1/2012 6:51:41 AM
Bis(2-chloroethoxy)methane	ND	10		µg/L	1	6/1/2012 6:51:41 AM
Bis(2-chloroethyl)ether	ND	10		µg/L	1	6/1/2012 6:51:41 AM
Bis(2-chloroisopropyl)ether	ND	10		µg/L	1	6/1/2012 6:51:41 AM
Bis(2-ethylhexyl)phthalate	ND	10		µg/L	1	6/1/2012 6:51:41 AM
4-Bromophenyl phenyl ether	ND	10		µg/L	1	6/1/2012 6:51:41 AM
Butyl benzyl phthalate	ND	10		µg/L	1	6/1/2012 6:51:41 AM
Carbazole	ND	10		µg/L	1	6/1/2012 6:51:41 AM
4-Chloro-3-methylphenol	ND	10		µg/L	1	6/1/2012 6:51:41 AM
4-Chloroaniline	ND	10		µg/L	1	6/1/2012 6:51:41 AM
2-Chloronaphthalene	ND	10		µg/L	1	6/1/2012 6:51:41 AM
2-Chlorophenol	ND	10		µg/L	1	6/1/2012 6:51:41 AM
4-Chlorophenyl phenyl ether	ND	10		µg/L	1	6/1/2012 6:51:41 AM
Chrysene	ND	10		µg/L	1	6/1/2012 6:51:41 AM
Di-n-butyl phthalate	ND	10		µg/L	1	6/1/2012 6:51:41 AM
Di-n-octyl phthalate	ND	10		µg/L	1	6/1/2012 6:51:41 AM
Dibenz(a,h)anthracene	ND	10		µg/L	1	6/1/2012 6:51:41 AM
Dibenzofuran	ND	10		µg/L	1	6/1/2012 6:51:41 AM
1,2-Dichlorobenzene	ND	10		µg/L	1	6/1/2012 6:51:41 AM
1,3-Dichlorobenzene	ND	10		µg/L	1	6/1/2012 6:51:41 AM
1,4-Dichlorobenzene	ND	10		µg/L	1	6/1/2012 6:51:41 AM
3,3'-Dichlorobenzidine	ND	10		µg/L	1	6/1/2012 6:51:41 AM
Diethyl phthalate	ND	10		µg/L	1	6/1/2012 6:51:41 AM
Dimethyl phthalate	ND	10		µg/L	1	6/1/2012 6:51:41 AM
2,4-Dichlorophenol	ND	20		µg/L	1	6/1/2012 6:51:41 AM
2,4-Dimethylphenol	ND	10		µg/L	1	6/1/2012 6:51:41 AM
4,6-Dinitro-2-methylphenol	ND	20		µg/L	1	6/1/2012 6:51:41 AM
2,4-Dinitrophenol	ND	20		µg/L	1	6/1/2012 6:51:41 AM

Qualifiers:

- *X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit
- U Samples with CalcVal < MDL

Analytical Report

Lab Order 1205B66

Date Reported: 6/27/2012

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Western Refining Southwest, Gallup**Client Sample ID:** EP-9**Project:** 2012 SEMI ANNUAL PONDS**Collection Date:** 5/29/2012 1:55:00 PM**Lab ID:** 1205B66-011**Matrix:** AQUEOUS**Received Date:** 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
2,4-Dinitrotoluene	ND	10		µg/L	1	6/1/2012 6:51:41 AM
2,6-Dinitrotoluene	ND	10		µg/L	1	6/1/2012 6:51:41 AM
Fluoranthene	ND	10		µg/L	1	6/1/2012 6:51:41 AM
Fluorene	ND	10		µg/L	1	6/1/2012 6:51:41 AM
Hexachlorobenzene	ND	10		µg/L	1	6/1/2012 6:51:41 AM
Hexachlorobutadiene	ND	10		µg/L	1	6/1/2012 6:51:41 AM
Hexachlorocyclopentadiene	ND	10		µg/L	1	6/1/2012 6:51:41 AM
Hexachloroethane	ND	10		µg/L	1	6/1/2012 6:51:41 AM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	6/1/2012 6:51:41 AM
Isophorone	ND	10		µg/L	1	6/1/2012 6:51:41 AM
1-Methylnaphthalene	ND	10		µg/L	1	6/1/2012 6:51:41 AM
2-Methylnaphthalene	ND	10		µg/L	1	6/1/2012 6:51:41 AM
2-Methylphenol	70	10		µg/L	1	6/1/2012 6:51:41 AM
3+4-Methylphenol	120	10		µg/L	1	6/1/2012 6:51:41 AM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	6/1/2012 6:51:41 AM
N-Nitrosodimethylamine	ND	10		µg/L	1	6/1/2012 6:51:41 AM
N-Nitrosodiphenylamine	ND	10		µg/L	1	6/1/2012 6:51:41 AM
Naphthalene	ND	10		µg/L	1	6/1/2012 6:51:41 AM
2-Nitroaniline	ND	10		µg/L	1	6/1/2012 6:51:41 AM
3-Nitroaniline	ND	10		µg/L	1	6/1/2012 6:51:41 AM
4-Nitroaniline	ND	20		µg/L	1	6/1/2012 6:51:41 AM
Nitrobenzene	ND	10		µg/L	1	6/1/2012 6:51:41 AM
2-Nitrophenol	ND	10		µg/L	1	6/1/2012 6:51:41 AM
4-Nitrophenol	ND	10		µg/L	1	6/1/2012 6:51:41 AM
Pentachlorophenol	ND	20		µg/L	1	6/1/2012 6:51:41 AM
Phenanthrene	ND	10		µg/L	1	6/1/2012 6:51:41 AM
Phenol	230	20		µg/L	2	6/1/2012 11:24:02 AM
Pyrene	ND	10		µg/L	1	6/1/2012 6:51:41 AM
Pyridine	ND	10		µg/L	1	6/1/2012 6:51:41 AM
1,2,4-Trichlorobenzene	ND	10		µg/L	1	6/1/2012 6:51:41 AM
2,4,5-Trichlorophenol	ND	10		µg/L	1	6/1/2012 6:51:41 AM
2,4,6-Trichlorophenol	ND	10		µg/L	1	6/1/2012 6:51:41 AM
Surr: 2,4,6-Tribromophenol	68.9	44.2-126		%REC	1	6/1/2012 6:51:41 AM
Surr: 2-Fluorobiphenyl	74.8	37-114		%REC	1	6/1/2012 6:51:41 AM
Surr: 2-Fluorophenol	55.7	23.4-98		%REC	1	6/1/2012 6:51:41 AM
Surr: 4-Terphenyl-d14	55.0	41.3-116		%REC	1	6/1/2012 6:51:41 AM
Surr: Nitrobenzene-d5	76.2	39.5-118		%REC	1	6/1/2012 6:51:41 AM
Surr: Phenol-d5	59.7	20.9-95.9		%REC	1	6/1/2012 6:51:41 AM
EPA METHOD 8260B: VOLATILES						Analyst: RAA
Benzene	ND	10		µg/L	10	6/2/2012 6:45:50 AM
Toluene	ND	10		µg/L	10	6/2/2012 6:45:50 AM

Qualifiers: *X Value exceeds Maximum Contaminant Level.
 E Value above quantitation range
 J Analyte detected below quantitation limits
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 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 RL Reporting Detection Limit
 U Samples with CalcVal < MDL

Analytical Report

Lab Order 1205B66

Date Reported: 6/27/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: EP-9

Project: 2012 SEMI ANNUAL PONDS

Collection Date: 5/29/2012 1:55:00 PM

Lab ID: 1205B66-011

Matrix: AQUEOUS

Received Date: 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
Ethylbenzene	ND	10		µg/L	10	6/2/2012 6:45:50 AM
Methyl tert-butyl ether (MTBE)	ND	10		µg/L	10	6/2/2012 6:45:50 AM
1,2,4-Trimethylbenzene	ND	10		µg/L	10	6/2/2012 6:45:50 AM
1,3,5-Trimethylbenzene	ND	10		µg/L	10	6/2/2012 6:45:50 AM
1,2-Dichloroethane (EDC)	ND	10		µg/L	10	6/2/2012 6:45:50 AM
1,2-Dibromoethane (EDB)	ND	10		µg/L	10	6/2/2012 6:45:50 AM
Naphthalene	ND	20		µg/L	10	6/2/2012 6:45:50 AM
1-Methylnaphthalene	ND	40		µg/L	10	6/2/2012 6:45:50 AM
2-Methylnaphthalene	ND	40		µg/L	10	6/2/2012 6:45:50 AM
Acetone	ND	100		µg/L	10	6/2/2012 6:45:50 AM
Bromobenzene	ND	10		µg/L	10	6/2/2012 6:45:50 AM
Bromodichloromethane	ND	10		µg/L	10	6/2/2012 6:45:50 AM
Bromoform	ND	10		µg/L	10	6/2/2012 6:45:50 AM
Bromomethane	ND	30		µg/L	10	6/2/2012 6:45:50 AM
2-Butanone	ND	100		µg/L	10	6/2/2012 6:45:50 AM
Carbon disulfide	ND	100		µg/L	10	6/2/2012 6:45:50 AM
Carbon Tetrachloride	ND	10		µg/L	10	6/2/2012 6:45:50 AM
Chlorobenzene	ND	10		µg/L	10	6/2/2012 6:45:50 AM
Chloroethane	ND	20		µg/L	10	6/2/2012 6:45:50 AM
Chloroform	ND	10		µg/L	10	6/2/2012 6:45:50 AM
Chloromethane	ND	30		µg/L	10	6/2/2012 6:45:50 AM
2-Chlorotoluene	ND	10		µg/L	10	6/2/2012 6:45:50 AM
4-Chlorotoluene	ND	10		µg/L	10	6/2/2012 6:45:50 AM
cis-1,2-DCE	ND	10		µg/L	10	6/2/2012 6:45:50 AM
cis-1,3-Dichloropropene	ND	10		µg/L	10	6/2/2012 6:45:50 AM
1,2-Dibromo-3-chloropropane	ND	20		µg/L	10	6/2/2012 6:45:50 AM
Dibromochloromethane	ND	10		µg/L	10	6/2/2012 6:45:50 AM
Dibromomethane	ND	10		µg/L	10	6/2/2012 6:45:50 AM
1,2-Dichlorobenzene	ND	10		µg/L	10	6/2/2012 6:45:50 AM
1,3-Dichlorobenzene	ND	10		µg/L	10	6/2/2012 6:45:50 AM
1,4-Dichlorobenzene	ND	10		µg/L	10	6/2/2012 6:45:50 AM
Dichlorodifluoromethane	ND	10		µg/L	10	6/2/2012 6:45:50 AM
1,1-Dichloroethane	ND	10		µg/L	10	6/2/2012 6:45:50 AM
1,1-Dichloroethene	ND	10		µg/L	10	6/2/2012 6:45:50 AM
1,2-Dichloropropane	ND	10		µg/L	10	6/2/2012 6:45:50 AM
1,3-Dichloropropane	ND	10		µg/L	10	6/2/2012 6:45:50 AM
2,2-Dichloropropane	ND	20		µg/L	10	6/2/2012 6:45:50 AM
1,1-Dichloropropene	ND	10		µg/L	10	6/2/2012 6:45:50 AM
Hexachlorobutadiene	ND	10		µg/L	10	6/2/2012 6:45:50 AM
2-Hexanone	ND	100		µg/L	10	6/2/2012 6:45:50 AM
Isopropylbenzene	ND	10		µg/L	10	6/2/2012 6:45:50 AM
4-Isopropyltoluene	ND	10		µg/L	10	6/2/2012 6:45:50 AM

Qualifiers: * / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit
U Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.**Analytical Report**

Lab Order 1205B66

Date Reported: 6/27/2012

CLIENT: Western Refining Southwest, Gallup**Client Sample ID:** EP-9**Project:** 2012 SEMI ANNUAL PONDS**Collection Date:** 5/29/2012 1:55:00 PM**Lab ID:** 1205B66-011**Matrix:** AQUEOUS**Received Date:** 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
4-Methyl-2-pentanone	ND	100		µg/L	10	6/2/2012 6:45:50 AM
Methylene Chloride	ND	30		µg/L	10	6/2/2012 6:45:50 AM
n-Butylbenzene	ND	10		µg/L	10	6/2/2012 6:45:50 AM
n-Propylbenzene	ND	10		µg/L	10	6/2/2012 6:45:50 AM
sec-Butylbenzene	ND	10		µg/L	10	6/2/2012 6:45:50 AM
Styrene	ND	10		µg/L	10	6/2/2012 6:45:50 AM
tert-Butylbenzene	ND	10		µg/L	10	6/2/2012 6:45:50 AM
1,1,1,2-Tetrachloroethane	ND	10		µg/L	10	6/2/2012 6:45:50 AM
1,1,2,2-Tetrachloroethane	ND	20		µg/L	10	6/2/2012 6:45:50 AM
Tetrachloroethene (PCE)	ND	10		µg/L	10	6/2/2012 6:45:50 AM
trans-1,2-DCE	ND	10		µg/L	10	6/2/2012 6:45:50 AM
trans-1,3-Dichloropropene	ND	10		µg/L	10	6/2/2012 6:45:50 AM
1,2,3-Trichlorobenzene	ND	10		µg/L	10	6/2/2012 6:45:50 AM
1,2,4-Trichlorobenzene	ND	10		µg/L	10	6/2/2012 6:45:50 AM
1,1,1-Trichloroethane	ND	10		µg/L	10	6/2/2012 6:45:50 AM
1,1,2-Trichloroethane	ND	10		µg/L	10	6/2/2012 6:45:50 AM
Trichloroethene (TCE)	ND	10		µg/L	10	6/2/2012 6:45:50 AM
Trichlorofluoromethane	ND	10		µg/L	10	6/2/2012 6:45:50 AM
1,2,3-Trichloropropane	ND	20		µg/L	10	6/2/2012 6:45:50 AM
Vinyl chloride	ND	10		µg/L	10	6/2/2012 6:45:50 AM
Xylenes, Total	ND	15		µg/L	10	6/2/2012 6:45:50 AM
Surr: 1,2-Dichloroethane-d4	99.8	70-130		%REC	10	6/2/2012 6:45:50 AM
Surr: 4-Bromofluorobenzene	109	70-130		%REC	10	6/2/2012 6:45:50 AM
Surr: Dibromofluoromethane	89.0	69.8-130		%REC	10	6/2/2012 6:45:50 AM
Surr: Toluene-d8	104	70-130		%REC	10	6/2/2012 6:45:50 AM
EPA 120.1: SPECIFIC CONDUCTANCE						Analyst: DBD
Conductivity	160000	0.50		µmhos/cm	50	5/31/2012 6:51:08 PM
SM4500-H+B: PH						Analyst: DBD
pH	7.57	1.68	H	pH units	1	5/31/2012 11:17:33 AM

Qualifiers: * / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit
U Samples with CalcVal < MDL

Analytical Report

Lab Order 1205B66

Date Reported: 6/27/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: EP-6

Project: 2012 SEMI ANNUAL PONDS

Collection Date: 5/29/2012 2:15:00 PM

Lab ID: 1205B66-012

Matrix: AQUEOUS

Received Date: 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: BRM
Fluoride	20	2.0	*	mg/L	20	6/5/2012 7:23:19 PM
Chloride	8800	250		mg/L	500	6/5/2012 7:35:44 PM
Bromide	3.3	0.50		mg/L	5	5/30/2012 7:57:20 PM
Phosphorus, Orthophosphate (As P)	ND	2.5		mg/L	5	5/30/2012 7:57:20 PM
Sulfate	2100	250		mg/L	500	6/5/2012 7:35:44 PM
Nitrate+Nitrite as N	ND	4.0		mg/L	20	6/6/2012 2:37:41 AM
EPA METHOD 200.7: DISSOLVED METALS						Analyst: ELS
Barium	0.094	0.0020		mg/L	1	6/15/2012 11:13:01 AM
Cadmium	ND	0.0020		mg/L	1	6/19/2012 7:11:38 PM
Calcium	340	10		mg/L	10	6/19/2012 6:28:10 PM
Chromium	0.011	0.0060		mg/L	1	6/19/2012 7:11:38 PM
Copper	ND	0.0060		mg/L	1	6/19/2012 7:11:38 PM
Iron	0.11	0.020		mg/L	1	6/19/2012 7:11:38 PM
Lead	ND	0.0050		mg/L	1	6/19/2012 7:11:38 PM
Magnesium	150	10		mg/L	10	6/15/2012 11:16:49 AM
Manganese	0.41	0.0020	*	mg/L	1	6/15/2012 11:13:01 AM
Potassium	270	10		mg/L	10	6/19/2012 6:28:10 PM
Silver	ND	0.0050		mg/L	1	6/15/2012 11:13:01 AM
Sodium	4400	100		mg/L	100	6/19/2012 4:53:55 PM
Zinc	0.019	0.010		mg/L	1	6/19/2012 7:11:38 PM
EPA METHOD 200.7: TOTAL METALS						Analyst: ELS
Barium	0.10	0.0020		mg/L	1	6/14/2012 12:01:23 PM
Cadmium	ND	0.0020		mg/L	1	6/14/2012 12:01:23 PM
Chromium	0.0093	0.0060		mg/L	1	6/14/2012 12:01:23 PM
Copper	ND	0.0060		mg/L	1	6/15/2012 9:19:17 AM
Iron	0.28	0.020		mg/L	1	6/19/2012 7:59:56 PM
Lead	ND	0.0050		mg/L	1	6/14/2012 12:01:23 PM
Manganese	0.42	0.0020	*	mg/L	1	6/14/2012 12:01:23 PM
Silver	ND	0.0050		mg/L	1	6/14/2012 12:01:23 PM
Zinc	0.013	0.010		mg/L	1	6/14/2012 12:01:23 PM
EPA 200.8: DISSOLVED METALS						Analyst: SNV
Arsenic	0.020	0.010	*	mg/L	10	6/19/2012 6:00:29 PM
Selenium	0.017	0.010		mg/L	10	6/19/2012 6:00:29 PM
Uranium	ND	0.010		mg/L	10	6/19/2012 6:00:29 PM
200.8 ICPMS METALS:TOTAL						Analyst: SNV
Arsenic	0.017	0.0025	*	mg/L	2.5	6/14/2012 1:14:54 PM
Selenium	0.016	0.0025		mg/L	2.5	6/14/2012 1:14:54 PM
Uranium	ND	0.0025		mg/L	2.5	6/14/2012 1:14:54 PM
EPA METHOD 245.1: MERCURY						Analyst: IDC

Qualifiers: * / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit
U Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1205B66

Date Reported: 6/27/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: EP-6

Project: 2012 SEMI ANNUAL PONDS

Collection Date: 5/29/2012 2:15:00 PM

Lab ID: 1205B66-012

Matrix: AQUEOUS

Received Date: 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 245.1: MERCURY						Analyst: IDC
Mercury	ND	0.00020		mg/L	1	6/1/2012 4:10:56 PM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	10		µg/L	1	6/1/2012 7:20:45 AM
Acenaphthylene	ND	10		µg/L	1	6/1/2012 7:20:45 AM
Aniline	36	10		µg/L	1	6/1/2012 7:20:45 AM
Anthracene	ND	10		µg/L	1	6/1/2012 7:20:45 AM
Azobenzene	ND	10		µg/L	1	6/1/2012 7:20:45 AM
Benz(a)anthracene	ND	10		µg/L	1	6/1/2012 7:20:45 AM
Benzo(a)pyrene	ND	10		µg/L	1	6/1/2012 7:20:45 AM
Benzo(b)fluoranthene	ND	10		µg/L	1	6/1/2012 7:20:45 AM
Benzo(g,h,i)perylene	ND	10		µg/L	1	6/1/2012 7:20:45 AM
Benzo(k)fluoranthene	ND	10		µg/L	1	6/1/2012 7:20:45 AM
Benzoic acid	ND	20		µg/L	1	6/1/2012 7:20:45 AM
Benzyl alcohol	ND	10		µg/L	1	6/1/2012 7:20:45 AM
Bis(2-chloroethoxy)methane	ND	10		µg/L	1	6/1/2012 7:20:45 AM
Bis(2-chloroethyl)ether	ND	10		µg/L	1	6/1/2012 7:20:45 AM
Bis(2-chloroisopropyl)ether	ND	10		µg/L	1	6/1/2012 7:20:45 AM
Bis(2-ethylhexyl)phthalate	ND	10		µg/L	1	6/1/2012 7:20:45 AM
4-Bromophenyl phenyl ether	ND	10		µg/L	1	6/1/2012 7:20:45 AM
Butyl benzyl phthalate	ND	10		µg/L	1	6/1/2012 7:20:45 AM
Carbazole	ND	10		µg/L	1	6/1/2012 7:20:45 AM
4-Chloro-3-methylphenol	ND	10		µg/L	1	6/1/2012 7:20:45 AM
4-Chloroaniline	ND	10		µg/L	1	6/1/2012 7:20:45 AM
2-Chloronaphthalene	ND	10		µg/L	1	6/1/2012 7:20:45 AM
2-Chlorophenol	ND	10		µg/L	1	6/1/2012 7:20:45 AM
4-Chlorophenyl phenyl ether	ND	10		µg/L	1	6/1/2012 7:20:45 AM
Chrysene	ND	10		µg/L	1	6/1/2012 7:20:45 AM
Di-n-butyl phthalate	ND	10		µg/L	1	6/1/2012 7:20:45 AM
Di-n-octyl phthalate	ND	10		µg/L	1	6/1/2012 7:20:45 AM
Dibenz(a,h)anthracene	ND	10		µg/L	1	6/1/2012 7:20:45 AM
Dibenzofuran	ND	10		µg/L	1	6/1/2012 7:20:45 AM
1,2-Dichlorobenzene	ND	10		µg/L	1	6/1/2012 7:20:45 AM
1,3-Dichlorobenzene	ND	10		µg/L	1	6/1/2012 7:20:45 AM
1,4-Dichlorobenzene	ND	10		µg/L	1	6/1/2012 7:20:45 AM
3,3'-Dichlorobenzidine	ND	10		µg/L	1	6/1/2012 7:20:45 AM
Diethyl phthalate	ND	10		µg/L	1	6/1/2012 7:20:45 AM
Dimethyl phthalate	ND	10		µg/L	1	6/1/2012 7:20:45 AM
2,4-Dichlorophenol	ND	20		µg/L	1	6/1/2012 7:20:45 AM
2,4-Dimethylphenol	34	10		µg/L	1	6/1/2012 7:20:45 AM
4,6-Dinitro-2-methylphenol	ND	20		µg/L	1	6/1/2012 7:20:45 AM
2,4-Dinitrophenol	ND	20		µg/L	1	6/1/2012 7:20:45 AM

Qualifiers: * / X Value exceeds Maximum Contaminant Level.
 E Value above quantitation range
 J Analyte detected below quantitation limits
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 RL Reporting Detection Limit
 U Samples with CalcVal < MDL

Analytical Report

Lab Order 1205B66

Date Reported: 6/27/2012

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Western Refining Southwest, Gallup**Client Sample ID:** EP-6**Project:** 2012 SEMI ANNUAL PONDS**Collection Date:** 5/29/2012 2:15:00 PM**Lab ID:** 1205B66-012**Matrix:** AQUEOUS**Received Date:** 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
2,4-Dinitrotoluene	ND	10		µg/L	1	6/1/2012 7:20:45 AM
2,6-Dinitrotoluene	ND	10		µg/L	1	6/1/2012 7:20:45 AM
Fluoranthene	ND	10		µg/L	1	6/1/2012 7:20:45 AM
Fluorene	ND	10		µg/L	1	6/1/2012 7:20:45 AM
Hexachlorobenzene	ND	10		µg/L	1	6/1/2012 7:20:45 AM
Hexachlorobutadiene	ND	10		µg/L	1	6/1/2012 7:20:45 AM
Hexachlorocyclopentadiene	ND	10		µg/L	1	6/1/2012 7:20:45 AM
Hexachloroethane	ND	10		µg/L	1	6/1/2012 7:20:45 AM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	6/1/2012 7:20:45 AM
Isophorone	ND	10		µg/L	1	6/1/2012 7:20:45 AM
1-Methylnaphthalene	ND	10		µg/L	1	6/1/2012 7:20:45 AM
2-Methylnaphthalene	ND	10		µg/L	1	6/1/2012 7:20:45 AM
2-Methylphenol	430	100		µg/L	10	6/1/2012 11:53:54 AM
3+4-Methylphenol	410	100		µg/L	10	6/1/2012 11:53:54 AM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	6/1/2012 7:20:45 AM
N-Nitrosodimethylamine	ND	10		µg/L	1	6/1/2012 7:20:45 AM
N-Nitrosodiphenylamine	ND	10		µg/L	1	6/1/2012 7:20:45 AM
Naphthalene	ND	10		µg/L	1	6/1/2012 7:20:45 AM
2-Nitroaniline	ND	10		µg/L	1	6/1/2012 7:20:45 AM
3-Nitroaniline	ND	10		µg/L	1	6/1/2012 7:20:45 AM
4-Nitroaniline	ND	20		µg/L	1	6/1/2012 7:20:45 AM
Nitrobenzene	ND	10		µg/L	1	6/1/2012 7:20:45 AM
2-Nitrophenol	ND	10		µg/L	1	6/1/2012 7:20:45 AM
4-Nitrophenol	ND	10		µg/L	1	6/1/2012 7:20:45 AM
Pentachlorophenol	ND	20		µg/L	1	6/1/2012 7:20:45 AM
Phenanthrene	ND	10		µg/L	1	6/1/2012 7:20:45 AM
Phenol	720	100		µg/L	10	6/1/2012 11:53:54 AM
Pyrene	ND	10		µg/L	1	6/1/2012 7:20:45 AM
Pyridine	ND	10		µg/L	1	6/1/2012 7:20:45 AM
1,2,4-Trichlorobenzene	ND	10		µg/L	1	6/1/2012 7:20:45 AM
2,4,5-Trichlorophenol	ND	10		µg/L	1	6/1/2012 7:20:45 AM
2,4,6-Trichlorophenol	ND	10		µg/L	1	6/1/2012 7:20:45 AM
Surr: 2,4,6-Tribromophenol	54.3	44.2-126		%REC	1	6/1/2012 7:20:45 AM
Surr: 2-Fluorobiphenyl	71.0	37-114		%REC	1	6/1/2012 7:20:45 AM
Surr: 2-Fluorophenol	40.2	23.4-98		%REC	1	6/1/2012 7:20:45 AM
Surr: 4-Terphenyl-d14	73.0	41.3-116		%REC	1	6/1/2012 7:20:45 AM
Surr: Nitrobenzene-d5	82.6	39.5-118		%REC	1	6/1/2012 7:20:45 AM
Surr: Phenol-d5	41.4	20.9-95.9		%REC	1	6/1/2012 7:20:45 AM
EPA METHOD 8260B: VOLATILES						Analyst: RAA
Benzene	ND	1.0		µg/L	1	6/2/2012 7:15:12 AM
Toluene	ND	1.0		µg/L	1	6/2/2012 7:15:12 AM

Qualifiers: * /X Value exceeds Maximum Contaminant Level.
 E Value above quantitation range
 J Analyte detected below quantitation limits
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 RL Reporting Detection Limit
 U Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: EP-6

Project: 2012 SEMI ANNUAL PONDS

Collection Date: 5/29/2012 2:15:00 PM

Lab ID: 1205B66-012

Matrix: AQUEOUS

Received Date: 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
Ethylbenzene	ND	1.0		µg/L	1	6/2/2012 7:15:12 AM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	6/2/2012 7:15:12 AM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	6/2/2012 7:15:12 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	6/2/2012 7:15:12 AM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	6/2/2012 7:15:12 AM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	6/2/2012 7:15:12 AM
Naphthalene	ND	2.0		µg/L	1	6/2/2012 7:15:12 AM
1-Methylnaphthalene	ND	4.0		µg/L	1	6/2/2012 7:15:12 AM
2-Methylnaphthalene	ND	4.0		µg/L	1	6/2/2012 7:15:12 AM
Acetone	ND	10		µg/L	1	6/2/2012 7:15:12 AM
Bromobenzene	ND	1.0		µg/L	1	6/2/2012 7:15:12 AM
Bromodichloromethane	ND	1.0		µg/L	1	6/2/2012 7:15:12 AM
Bromoform	ND	1.0		µg/L	1	6/2/2012 7:15:12 AM
Bromomethane	ND	3.0		µg/L	1	6/2/2012 7:15:12 AM
2-Butanone	ND	10		µg/L	1	6/2/2012 7:15:12 AM
Carbon disulfide	ND	10		µg/L	1	6/2/2012 7:15:12 AM
Carbon Tetrachloride	ND	1.0		µg/L	1	6/2/2012 7:15:12 AM
Chlorobenzene	ND	1.0		µg/L	1	6/2/2012 7:15:12 AM
Chloroethane	ND	2.0		µg/L	1	6/2/2012 7:15:12 AM
Chloroform	ND	1.0		µg/L	1	6/2/2012 7:15:12 AM
Chloromethane	ND	3.0		µg/L	1	6/2/2012 7:15:12 AM
2-Chlorotoluene	ND	1.0		µg/L	1	6/2/2012 7:15:12 AM
4-Chlorotoluene	ND	1.0		µg/L	1	6/2/2012 7:15:12 AM
cis-1,2-DCE	ND	1.0		µg/L	1	6/2/2012 7:15:12 AM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	6/2/2012 7:15:12 AM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	6/2/2012 7:15:12 AM
Dibromochloromethane	ND	1.0		µg/L	1	6/2/2012 7:15:12 AM
Dibromomethane	ND	1.0		µg/L	1	6/2/2012 7:15:12 AM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	6/2/2012 7:15:12 AM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	6/2/2012 7:15:12 AM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	6/2/2012 7:15:12 AM
Dichlorodifluoromethane	ND	1.0		µg/L	1	6/2/2012 7:15:12 AM
1,1-Dichloroethane	ND	1.0		µg/L	1	6/2/2012 7:15:12 AM
1,1-Dichloroethene	ND	1.0		µg/L	1	6/2/2012 7:15:12 AM
1,2-Dichloropropane	ND	1.0		µg/L	1	6/2/2012 7:15:12 AM
1,3-Dichloropropane	ND	1.0		µg/L	1	6/2/2012 7:15:12 AM
2,2-Dichloropropane	ND	2.0		µg/L	1	6/2/2012 7:15:12 AM
1,1-Dichloropropene	ND	1.0		µg/L	1	6/2/2012 7:15:12 AM
Hexachlorobutadiene	ND	1.0		µg/L	1	6/2/2012 7:15:12 AM
2-Hexanone	ND	10		µg/L	1	6/2/2012 7:15:12 AM
Isopropylbenzene	ND	1.0		µg/L	1	6/2/2012 7:15:12 AM
4-Isopropyltoluene	ND	1.0		µg/L	1	6/2/2012 7:15:12 AM

Qualifiers: *X Value exceeds Maximum Contaminant Level.
 E Value above quantitation range
 J Analyte detected below quantitation limits
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 RL Reporting Detection Limit
 U Samples with CalcVal < MDL

Analytical Report

Lab Order 1205B66

Date Reported: 6/27/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: EP-6

Project: 2012 SEMI ANNUAL PONDS

Collection Date: 5/29/2012 2:15:00 PM

Lab ID: 1205B66-012

Matrix: AQUEOUS

Received Date: 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
4-Methyl-2-pentanone	ND	10		µg/L	1	6/2/2012 7:15:12 AM
Methylene Chloride	ND	3.0		µg/L	1	6/2/2012 7:15:12 AM
n-Butylbenzene	ND	1.0		µg/L	1	6/2/2012 7:15:12 AM
n-Propylbenzene	ND	1.0		µg/L	1	6/2/2012 7:15:12 AM
sec-Butylbenzene	ND	1.0		µg/L	1	6/2/2012 7:15:12 AM
Styrene	ND	1.0		µg/L	1	6/2/2012 7:15:12 AM
tert-Butylbenzene	ND	1.0		µg/L	1	6/2/2012 7:15:12 AM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	6/2/2012 7:15:12 AM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	6/2/2012 7:15:12 AM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	6/2/2012 7:15:12 AM
trans-1,2-DCE	ND	1.0		µg/L	1	6/2/2012 7:15:12 AM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	6/2/2012 7:15:12 AM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	6/2/2012 7:15:12 AM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	6/2/2012 7:15:12 AM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	6/2/2012 7:15:12 AM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	6/2/2012 7:15:12 AM
Trichloroethene (TCE)	ND	1.0		µg/L	1	6/2/2012 7:15:12 AM
Trichlorofluoromethane	ND	1.0		µg/L	1	6/2/2012 7:15:12 AM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	6/2/2012 7:15:12 AM
Vinyl chloride	ND	1.0		µg/L	1	6/2/2012 7:15:12 AM
Xylenes, Total	ND	1.5		µg/L	1	6/2/2012 7:15:12 AM
Surr: 1,2-Dichloroethane-d4	98.9	70-130		%REC	1	6/2/2012 7:15:12 AM
Surr: 4-Bromofluorobenzene	104	70-130		%REC	1	6/2/2012 7:15:12 AM
Surr: Dibromofluoromethane	98.1	69.8-130		%REC	1	6/2/2012 7:15:12 AM
Surr: Toluene-d8	104	70-130		%REC	1	6/2/2012 7:15:12 AM
EPA 120.1: SPECIFIC CONDUCTANCE						Analyst: DBD
Conductivity	27000	0.50		µmhos/cm	50	5/31/2012 6:55:10 PM
SM4500-H+B: PH						Analyst: DBD
pH	7.86	1.68	H	pH units	1	5/31/2012 11:21:34 AM

Qualifiers: * / X Value exceeds Maximum Contaminant Level.
 E Value above quantitation range
 J Analyte detected below quantitation limits
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 RL Reporting Detection Limit
 U Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1205B66

Date Reported: 6/27/2012

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: BW TO EP-2

Project: 2012 SEMI ANNUAL PONDS

Collection Date: 5/29/2012 11:00:00 AM

Lab ID: 1205B66-013

Matrix: AQUEOUS

Received Date: 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: BRM
Fluoride	0.82	0.50		mg/L	5	6/5/2012 11:43:55 PM
Chloride	60	2.5		mg/L	5	6/5/2012 11:43:55 PM
Bromide	ND	0.50		mg/L	5	6/5/2012 11:43:55 PM
Phosphorus, Orthophosphate (As P)	ND	2.5	H	mg/L	5	6/5/2012 11:43:55 PM
Sulfate	1700	100		mg/L	200	6/6/2012 12:08:44 AM
Nitrate+Nitrite as N	ND	1.0		mg/L	5	6/20/2012 4:05:16 PM
EPA METHOD 200.7: METALS						Analyst: ELS
Calcium	4.5	1.0		mg/L	1	6/14/2012 7:52:26 AM
Magnesium	ND	1.0		mg/L	1	6/14/2012 7:52:26 AM
Potassium	2.8	1.0		mg/L	1	6/14/2012 7:52:26 AM
Sodium	1300	20		mg/L	20	6/14/2012 8:05:17 AM

Qualifiers: *X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit
U Samples with CalcVal < MDL

Analytical Report

Lab Order 1205B66

Date Reported: 6/27/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: Field Blank

Project: 2012 SEMI ANNUAL PONDS

Collection Date: 5/29/2012 9:30:00 AM

Lab ID: 1205B66-014

Matrix: AQUEOUS

Received Date: 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
Benzene	ND	1.0		µg/L	1	6/2/2012 8:42:54 AM
Toluene	ND	1.0		µg/L	1	6/2/2012 8:42:54 AM
Ethylbenzene	ND	1.0		µg/L	1	6/2/2012 8:42:54 AM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	6/2/2012 8:42:54 AM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	6/2/2012 8:42:54 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	6/2/2012 8:42:54 AM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	6/2/2012 8:42:54 AM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	6/2/2012 8:42:54 AM
Naphthalene	ND	2.0		µg/L	1	6/2/2012 8:42:54 AM
1-Methylnaphthalene	ND	4.0		µg/L	1	6/2/2012 8:42:54 AM
2-Methylnaphthalene	ND	4.0		µg/L	1	6/2/2012 8:42:54 AM
Acetone	ND	10		µg/L	1	6/2/2012 8:42:54 AM
Bromobenzene	ND	1.0		µg/L	1	6/2/2012 8:42:54 AM
Bromodichloromethane	ND	1.0		µg/L	1	6/2/2012 8:42:54 AM
Bromoform	ND	1.0		µg/L	1	6/2/2012 8:42:54 AM
Bromomethane	ND	3.0		µg/L	1	6/2/2012 8:42:54 AM
2-Butanone	ND	10		µg/L	1	6/2/2012 8:42:54 AM
Carbon disulfide	ND	10		µg/L	1	6/2/2012 8:42:54 AM
Carbon Tetrachloride	ND	1.0		µg/L	1	6/2/2012 8:42:54 AM
Chlorobenzene	ND	1.0		µg/L	1	6/2/2012 8:42:54 AM
Chloroethane	ND	2.0		µg/L	1	6/2/2012 8:42:54 AM
Chloroform	ND	1.0		µg/L	1	6/2/2012 8:42:54 AM
Chloromethane	ND	3.0		µg/L	1	6/2/2012 8:42:54 AM
2-Chlorotoluene	ND	1.0		µg/L	1	6/2/2012 8:42:54 AM
4-Chlorotoluene	ND	1.0		µg/L	1	6/2/2012 8:42:54 AM
cis-1,2-DCE	ND	1.0		µg/L	1	6/2/2012 8:42:54 AM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	6/2/2012 8:42:54 AM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	6/2/2012 8:42:54 AM
Dibromochloromethane	ND	1.0		µg/L	1	6/2/2012 8:42:54 AM
Dibromomethane	ND	1.0		µg/L	1	6/2/2012 8:42:54 AM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	6/2/2012 8:42:54 AM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	6/2/2012 8:42:54 AM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	6/2/2012 8:42:54 AM
Dichlorodifluoromethane	ND	1.0		µg/L	1	6/2/2012 8:42:54 AM
1,1-Dichloroethane	ND	1.0		µg/L	1	6/2/2012 8:42:54 AM
1,1-Dichloroethene	ND	1.0		µg/L	1	6/2/2012 8:42:54 AM
1,2-Dichloropropane	ND	1.0		µg/L	1	6/2/2012 8:42:54 AM
1,3-Dichloropropane	ND	1.0		µg/L	1	6/2/2012 8:42:54 AM
2,2-Dichloropropane	ND	2.0		µg/L	1	6/2/2012 8:42:54 AM
1,1-Dichloropropene	ND	1.0		µg/L	1	6/2/2012 8:42:54 AM
Hexachlorobutadiene	ND	1.0		µg/L	1	6/2/2012 8:42:54 AM
2-Hexanone	ND	10		µg/L	1	6/2/2012 8:42:54 AM

Qualifiers: * / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit
U Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.**Analytical Report**

Lab Order 1205B66

Date Reported: 6/27/2012

CLIENT: Western Refining Southwest, Gallup**Client Sample ID:** Field Blank**Project:** 2012 SEMI ANNUAL PONDS**Collection Date:** 5/29/2012 9:30:00 AM**Lab ID:** 1205B66-014**Matrix:** AQUEOUS**Received Date:** 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
Isopropylbenzene	ND	1.0		µg/L	1	6/2/2012 8:42:54 AM
4-Isopropyltoluene	ND	1.0		µg/L	1	6/2/2012 8:42:54 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	6/2/2012 8:42:54 AM
Methylene Chloride	ND	3.0		µg/L	1	6/2/2012 8:42:54 AM
n-Butylbenzene	ND	1.0		µg/L	1	6/2/2012 8:42:54 AM
n-Propylbenzene	ND	1.0		µg/L	1	6/2/2012 8:42:54 AM
sec-Butylbenzene	ND	1.0		µg/L	1	6/2/2012 8:42:54 AM
Styrene	ND	1.0		µg/L	1	6/2/2012 8:42:54 AM
tert-Butylbenzene	ND	1.0		µg/L	1	6/2/2012 8:42:54 AM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	6/2/2012 8:42:54 AM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	6/2/2012 8:42:54 AM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	6/2/2012 8:42:54 AM
trans-1,2-DCE	ND	1.0		µg/L	1	6/2/2012 8:42:54 AM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	6/2/2012 8:42:54 AM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	6/2/2012 8:42:54 AM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	6/2/2012 8:42:54 AM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	6/2/2012 8:42:54 AM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	6/2/2012 8:42:54 AM
Trichloroethene (TCE)	ND	1.0		µg/L	1	6/2/2012 8:42:54 AM
Trichlorofluoromethane	ND	1.0		µg/L	1	6/2/2012 8:42:54 AM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	6/2/2012 8:42:54 AM
Vinyl chloride	ND	1.0		µg/L	1	6/2/2012 8:42:54 AM
Xylenes, Total	ND	1.5		µg/L	1	6/2/2012 8:42:54 AM
Surr: 1,2-Dichloroethane-d4	103	70-130		%REC	1	6/2/2012 8:42:54 AM
Surr: 4-Bromofluorobenzene	118	70-130		%REC	1	6/2/2012 8:42:54 AM
Surr: Dibromofluoromethane	92.8	69.8-130		%REC	1	6/2/2012 8:42:54 AM
Surr: Toluene-d8	101	70-130		%REC	1	6/2/2012 8:42:54 AM

Qualifiers: * / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit
U Samples with CalcVal < MDL

Analytical Report

Lab Order 1205B66

Date Reported: 6/27/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: Trip Blank

Project: 2012 SEMI ANNUAL PONDS

Collection Date:

Lab ID: 1205B66-015

Matrix: AQUEOUS

Received Date: 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
Benzene	ND	1.0		µg/L	1	6/2/2012 9:12:16 AM
Toluene	ND	1.0		µg/L	1	6/2/2012 9:12:16 AM
Ethylbenzene	ND	1.0		µg/L	1	6/2/2012 9:12:16 AM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	6/2/2012 9:12:16 AM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	6/2/2012 9:12:16 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	6/2/2012 9:12:16 AM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	6/2/2012 9:12:16 AM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	6/2/2012 9:12:16 AM
Naphthalene	ND	2.0		µg/L	1	6/2/2012 9:12:16 AM
1-Methylnaphthalene	ND	4.0		µg/L	1	6/2/2012 9:12:16 AM
2-Methylnaphthalene	ND	4.0		µg/L	1	6/2/2012 9:12:16 AM
Acetone	ND	10		µg/L	1	6/2/2012 9:12:16 AM
Bromobenzene	ND	1.0		µg/L	1	6/2/2012 9:12:16 AM
Bromodichloromethane	ND	1.0		µg/L	1	6/2/2012 9:12:16 AM
Bromoform	ND	1.0		µg/L	1	6/2/2012 9:12:16 AM
Bromomethane	ND	3.0		µg/L	1	6/2/2012 9:12:16 AM
2-Butanone	ND	10		µg/L	1	6/2/2012 9:12:16 AM
Carbon disulfide	ND	10		µg/L	1	6/2/2012 9:12:16 AM
Carbon Tetrachloride	ND	1.0		µg/L	1	6/2/2012 9:12:16 AM
Chlorobenzene	ND	1.0		µg/L	1	6/2/2012 9:12:16 AM
Chloroethane	ND	2.0		µg/L	1	6/2/2012 9:12:16 AM
Chloroform	ND	1.0		µg/L	1	6/2/2012 9:12:16 AM
Chloromethane	ND	3.0		µg/L	1	6/2/2012 9:12:16 AM
2-Chlorotoluene	ND	1.0		µg/L	1	6/2/2012 9:12:16 AM
4-Chlorotoluene	ND	1.0		µg/L	1	6/2/2012 9:12:16 AM
cis-1,2-DCE	ND	1.0		µg/L	1	6/2/2012 9:12:16 AM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	6/2/2012 9:12:16 AM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	6/2/2012 9:12:16 AM
Dibromochloromethane	ND	1.0		µg/L	1	6/2/2012 9:12:16 AM
Dibromomethane	ND	1.0		µg/L	1	6/2/2012 9:12:16 AM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	6/2/2012 9:12:16 AM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	6/2/2012 9:12:16 AM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	6/2/2012 9:12:16 AM
Dichlorodifluoromethane	ND	1.0		µg/L	1	6/2/2012 9:12:16 AM
1,1-Dichloroethane	ND	1.0		µg/L	1	6/2/2012 9:12:16 AM
1,1-Dichloroethene	ND	1.0		µg/L	1	6/2/2012 9:12:16 AM
1,2-Dichloropropane	ND	1.0		µg/L	1	6/2/2012 9:12:16 AM
1,3-Dichloropropane	ND	1.0		µg/L	1	6/2/2012 9:12:16 AM
2,2-Dichloropropane	ND	2.0		µg/L	1	6/2/2012 9:12:16 AM
1,1-Dichloropropene	ND	1.0		µg/L	1	6/2/2012 9:12:16 AM
Hexachlorobutadiene	ND	1.0		µg/L	1	6/2/2012 9:12:16 AM
2-Hexanone	ND	10		µg/L	1	6/2/2012 9:12:16 AM

Qualifiers: * / X Value exceeds Maximum Contaminant Level.
 E Value above quantitation range
 J Analyte detected below quantitation limits
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 RL Reporting Detection Limit
 U Samples with CalcVal < MDL

Analytical Report

Lab Order 1205B66

Date Reported: 6/27/2012

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Western Refining Southwest, Gallup**Client Sample ID:** Trip Blank**Project:** 2012 SEMI ANNUAL PONDS**Collection Date:****Lab ID:** 1205B66-015**Matrix:** AQUEOUS**Received Date:** 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
Isopropylbenzene	ND	1.0		µg/L	1	6/2/2012 9:12:16 AM
4-Isopropyltoluene	ND	1.0		µg/L	1	6/2/2012 9:12:16 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	6/2/2012 9:12:16 AM
Methylene Chloride	ND	3.0		µg/L	1	6/2/2012 9:12:16 AM
n-Butylbenzene	ND	1.0		µg/L	1	6/2/2012 9:12:16 AM
n-Propylbenzene	ND	1.0		µg/L	1	6/2/2012 9:12:16 AM
sec-Butylbenzene	ND	1.0		µg/L	1	6/2/2012 9:12:16 AM
Styrene	ND	1.0		µg/L	1	6/2/2012 9:12:16 AM
tert-Butylbenzene	ND	1.0		µg/L	1	6/2/2012 9:12:16 AM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	6/2/2012 9:12:16 AM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	6/2/2012 9:12:16 AM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	6/2/2012 9:12:16 AM
trans-1,2-DCE	ND	1.0		µg/L	1	6/2/2012 9:12:16 AM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	6/2/2012 9:12:16 AM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	6/2/2012 9:12:16 AM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	6/2/2012 9:12:16 AM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	6/2/2012 9:12:16 AM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	6/2/2012 9:12:16 AM
Trichloroethene (TCE)	ND	1.0		µg/L	1	6/2/2012 9:12:16 AM
Trichlorofluoromethane	ND	1.0		µg/L	1	6/2/2012 9:12:16 AM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	6/2/2012 9:12:16 AM
Vinyl chloride	ND	1.0		µg/L	1	6/2/2012 9:12:16 AM
Xylenes, Total	ND	1.5		µg/L	1	6/2/2012 9:12:16 AM
Surr: 1,2-Dichloroethane-d4	98.1	70-130		%REC	1	6/2/2012 9:12:16 AM
Surr: 4-Bromofluorobenzene	104	70-130		%REC	1	6/2/2012 9:12:16 AM
Surr: Dibromofluoromethane	94.1	69.8-130		%REC	1	6/2/2012 9:12:16 AM
Surr: Toluene-d8	109	70-130		%REC	1	6/2/2012 9:12:16 AM

Qualifiers: *X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit
U Samples with CalcVal < MDL



12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859
Tax I.D. 62-0814289
Est. 1970

REPORT OF ANALYSIS

Anne Thorne
Hall Environmental Analysis Laborat
4901 Hawkins NE
Albuquerque, NM 87109

June 08, 2012

Date Received : June 01, 2012
Description :
Sample ID : 1205B66-001F EP-2
Collected By :
Collection Date : 05/29/12 10:45

ESC Sample # : L578081-01

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
COD	860	10.	mg/l	410.4	06/07/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note:

The reported analytical results relate only to the sample submitted.

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Reported: 06/08/12 17:30 Printed: 06/08/12 17:31



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Fax (615) 758-5859
Tax I.D. 62-0814289
Est. 1970

REPORT OF ANALYSIS

Anne Thorne
Hall Environmental Analysis Laborat
4901 Hawkins NE
Albuquerque, NM 87109

June 08, 2012

Date Received : June 01, 2012
Description :
Sample ID : 1205B66-002F EP-1
Collected By :
Collection Date : 05/29/12 10:00

ESC Sample # : L578081-02

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
COD	990	10.	mg/l	410.4	06/07/12	1

BDL ~ Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

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Reported: 06/08/12 17:30 Printed: 06/08/12 17:31



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Est. 1970

REPORT OF ANALYSIS

Anne Thorne
Hall Environmental Analysis Laborat
4901 Hawkins NE
Albuquerque, NM 87109

June 08, 2012

Date Received : June 01, 2012
Description :

ESC Sample # : L578081-03

Sample ID : 1205B66-003F EP-12B

Site ID :

Collected By :
Collection Date : 05/29/12 11:35

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
COD	920	10.	mg/l	410.4	06/07/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

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Reported: 06/08/12 17:30 Printed: 06/08/12 17:31



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Mt. Juliet, TN 37122
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1-800-767-5859
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Tax I.D. 62-0814289
Est. 1970

REPORT OF ANALYSIS

Anne Thorne
Hall Environmental Analysis Laborat
4901 Hawkins NE
Albuquerque, NM 87109

June 08, 2012

Date Received : June 01, 2012
Description :
Sample ID : 1205B66-004F EP-12A
Collected By :
Collection Date : 05/29/12 11:55

ESC Sample # : L578081-04

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
COD	660	10.	mg/l	410.4	06/07/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

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

Reported: 06/08/12 17:30 Printed: 06/08/12 17:31



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REPORT OF ANALYSIS

Anne Thorne
Hall Environmental Analysis Laborat
4901 Hawkins NE
Albuquerque, NM 87109

June 08, 2012

Date Received : June 01, 2012
Description :

ESC Sample # : L578081-05

Sample ID : 1205B66-005F EP-11

Site ID :

Collected By :
Collection Date : 05/29/12 12:10

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
COD	890	20.	mg/l	410.4	06/08/12	2

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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REPORT OF ANALYSIS

Anne Thorne
Hall Environmental Analysis Laborat
4901 Hawkins NE
Albuquerque, NM 87109

June 08, 2012

Date Received : June 01, 2012
Description :
Sample ID : 1205B66-006F EP-7
Collected By :
Collection Date : 05/29/12 12:25

ESC Sample # : L578081-06

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
COD	3200	500	mg/l	410.4	06/07/12	50

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note:

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REPORT OF ANALYSIS

June 08, 2012

Anne Thorne
Hall Environmental Analysis Laborat
4901 Hawkins NE
Albuquerque, NM 87109

Date Received : June 01, 2012
Description :

Sample ID : 1205B66-007F EP-8

Collected By :
Collection Date : 05/29/12 12:40

ESC Sample # : L578081-07

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
COD	3800	500	mg/l	410.4	06/07/12	50

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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REPORT OF ANALYSIS

Anne Thorne
Hall Environmental Analysis Laborat
4901 Hawkins NE
Albuquerque, NM 87109

June 08, 2012

Date Received : June 01, 2012
Description :
Sample ID : 1205B66-008F EP-5
Collected By :
Collection Date : 05/29/12 13:00

ESC Sample # : L578081-08

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
COD	760	10.	mg/l	410.4	06/07/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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REPORT OF ANALYSIS

Anne Thorne
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4901 Hawkins NE
Albuquerque, NM 87109

June 08, 2012

Date Received : June 01, 2012
Description :

ESC Sample # : L578081-09

Sample ID : 1205B66-009F EP-4

Site ID :

Collected By :
Collection Date : 05/29/12 13:15

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
COD	680	10.	mg/l	410.4	06/07/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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REPORT OF ANALYSIS

Anne Thorne
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June 08, 2012

Date Received : June 01, 2012
Description :
Sample ID : 1205B66-010F EP-3
Collected By :
Collection Date : 05/29/12 13:30

ESC Sample # : L578081-10

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
COD	980	20.	mg/l	410.4	06/08/12	2

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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REPORT OF ANALYSIS

Anne Thorne
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June 08, 2012

Date Received : June 01, 2012
Description :
Sample ID : 1205B66-011F EP-9
Collected By :
Collection Date : 05/29/12 13:55

ESC Sample # : L578081-11

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
COD	2800	500	mg/l	410.4	06/07/12	50

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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REPORT OF ANALYSIS

Anne Thorne
Hall Environmental Analysis Laborat
4901 Hawkins NE
Albuquerque, NM 87109

June 08, 2012

Data Received : June 01, 2012
Description :

Sample ID : 1205B66-012F EP-6

Collected By :
Collection Date : 05/29/12 14:15

ESC Sample # : L578081-12

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
COD	710	10.	mg/l	410.4	06/07/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Reported: 06/08/12 17:30 Printed: 06/08/12 17:31



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Hall Environmental Analysis Laboratory
Anne Thorne
4901 Hawkins NE

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Quality Assurance Report
Level II

L578081

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Est. 1970

June 08, 2012

Analyte	Result	Laboratory Blank Units	% Rec	Limit	Batch	Date Analyzed
COD	< 10	mg/l			WG596480	06/07/12 13:37
COD	< 10	mg/l			WG596481	06/07/12 13:57
COD	< 10	mg/l			WG596773	06/08/12 13:46

Analyte	Units	Result	Duplicate Duplicate	RPD	Limit	Ref Samp	Batch
COD	mg/l	1600	1600	0.627	5	L577700-01	WG596480
COD	mg/l	2300	2400	5.57*	5	L577722-01	WG596480
COD	mg/l	3200	3200	0.312	5	L577722-02	WG596480
COD	mg/l	29.0	31.0	8.05*	5	L578159-01	WG596481
COD	mg/l	920.	920.	0.218	5	L578081-03	WG596481
COD	mg/l	980.	980.	0	5	L578081-10	WG596773
COD	mg/l	32.0	24.0	27.6*	5	L578215-02	WG596773

Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
COD	mg/l	230	233.	101.	90-110	WG596480
COD	mg/l	230	236.	103.	90-110	WG596481
COD	mg/l	230	241.	105.	90-110	WG596773

Analyte	Units	Laboratory Control Sample Result	Ref	%Rec	Limit	RPD	Limit	Batch
COD	mg/l	238.	233.	103.	90-110	2.12	5	WG596480
COD	mg/l	235.	236.	102.	90-110	0.425	5	WG596481
COD	mg/l	238.	241.	103.	90-110	1.25	5	WG596773

Analyte	Units	MS Res	Matrix Spike Ref Res	TV	% Rec	Limit	Ref Samp	Batch
COD	mg/l	453.	66.0	400	96.8	90-110	L577520-01	WG596480
COD	mg/l	937.	660.	400	69.2*	90-110	L578081-04	WG596481
COD	mg/l	708.	320.	400	97.0	90-110	L577916-01	WG596773

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



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Anne Thorne
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Quality Assurance Report
Level II

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June 08, 2012

Analyte	Units	MSD	Matrix Spike Ref	Duplicate %Rec	Limit	RPD	Limit	Ref Samp	Batch
COD	mg/l	457.	453.	97.8	90-110	0.879	5	L577520-01	WG596480
COD	mg/l	936.	937.	69.0*	90-110	0.107	5	L578081-04	WG596481
COD	mg/l	705.	708.	96.2	90-110	0.425	5	L577916-01	WG596773

Batch number / Run number / Sample number cross reference

WG596480: R2201074: L578081-01 02
WG596481: R2201494: L578081-03 04 06 07 08 09 10 11 12
WG596773: R2202773: L578081-05 10

* * Calculations are performed prior to rounding of reported values.

* Performance of this Analyte is outside of established criteria.

For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1205B66

27-Jun-12

ent: Western Refining Southwest, Gallup
Project: 2012 SEMI ANNUAL PONDS

Sample ID	ICB	SampType:	ICB	TestCode:	EPA Method 200.7: Metals					
Client ID:	ICB	Batch ID:	R3423	RunNo:	3423					
Prep Date:		Analysis Date:	6/14/2012	SeqNo:	95696	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	ND	1.0	1.000	0	0.453	-100	99			
Magnesium	ND	1.0	1.000	0	0.125	-100	99			
Potassium	ND	1.0	1.000	0	-1.41	-100	99			
Sodium	ND	1.0	1.000	0	3.75	-100	99			

Sample ID	MB	SampType:	MBLK	TestCode:	EPA Method 200.7: Metals					
Client ID:	PBW	Batch ID:	R3423	RunNo:	3423					
Prep Date:		Analysis Date:	6/14/2012	SeqNo:	95701	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	ND	1.0								
Magnesium	ND	1.0								
Potassium	ND	1.0								
Sodium	ND	1.0								

Sample ID	LCS	SampType:	LCS	TestCode:	EPA Method 200.7: Metals					
Client ID:	LCSW	Batch ID:	R3423	RunNo:	3423					
Prep Date:		Analysis Date:	6/14/2012	SeqNo:	95702	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	51	1.0	50.00	0.2811	102	85	115			
Magnesium	50	1.0	50.00	0	101	85	115			
Potassium	48	1.0	50.00	0	96.8	85	115			
Sodium	49	1.0	50.00	0	98.8	85	115			

Sample ID	MB-2211	SampType:	MBLK	TestCode:	EPA Method 200.7: Metals					
Client ID:	PBW	Batch ID:	2211	RunNo:	3430					
Prep Date:	6/4/2012	Analysis Date:	6/14/2012	SeqNo:	96128	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	ND	0.0020								
Cadmium	ND	0.0020								
Chromium	ND	0.0060								
Lead	ND	0.0050								
Manganese	ND	0.0020								
Silver	ND	0.0050								
Zinc	ND	0.010								

Qualifiers:

* / X Value exceeds Maximum Contaminant Level.
Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1205B66

27-Jun-12

Client: Western Refining Southwest, Gallup

Project: 2012 SEMI ANNUAL PONDS

Sample ID	LCS-2211		SampType: LCS		TestCode: EPA Method 200.7: Metals					
Client ID:	LCSW		Batch ID: 2211		RunNo: 3430					
Prep Date:	6/4/2012		Analysis Date: 6/14/2012		SeqNo: 96129		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.49	0.0020	0.5000	0.0005500	97.1	85	115			
Cadmium	0.49	0.0020	0.5000	0	97.6	85	115			
Chromium	0.48	0.0060	0.5000	0	96.3	85	115			
Lead	0.49	0.0050	0.5000	0	98.2	85	115			
Manganese	0.47	0.0020	0.5000	0	95.0	85	115			
Silver	0.099	0.0050	0.1000	0	98.9	85	115			
Zinc	0.49	0.010	0.5000	0.002630	97.5	85	115			

Sample ID	MB-2211		SampType: MBLK		TestCode: EPA Method 200.7: Metals					
Client ID:	PBW		Batch ID: 2211		RunNo: 3472					
Prep Date:	6/4/2012		Analysis Date: 6/15/2012		SeqNo: 101037		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Copper	ND	0.0060								

Sample ID	LCS-2211		SampType: LCS		TestCode: EPA Method 200.7: Metals					
Client ID:	LCSW		Batch ID: 2211		RunNo: 3472					
Prep Date:	6/4/2012		Analysis Date: 6/15/2012		SeqNo: 101038		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Copper	0.51	0.0060	0.5000	0	102	85	115			

Qualifiers:

*X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1205B66

27-Jun-12

Client: Western Refining Southwest, Gallup

Project: 2012 SEMI ANNUAL PONDS

Sample ID	MB	SampType:	MBLK	TestCode:	EPA Method 200.7: Dissolved Metals					
Client ID:	PBW	Batch ID:	R3423	RunNo:	3423					
Prep Date:		Analysis Date:	6/14/2012	SeqNo:	95925	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	ND	1.0								
Magnesium	ND	1.0								
Potassium	ND	1.0								
Sodium	ND	1.0								

Sample ID	LCS	SampType:	LCS	TestCode:	EPA Method 200.7: Dissolved Metals					
Client ID:	LCSW	Batch ID:	R3423	RunNo:	3423					
Prep Date:		Analysis Date:	6/14/2012	SeqNo:	95926	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	51	1.0	50.00	0.2811	102	85	115			
Magnesium	50	1.0	50.00	0	101	85	115			
Potassium	48	1.0	50.00	0	96.8	85	115			
Sodium	49	1.0	50.00	0	98.8	85	115			

Sample ID	ICV	SampType:	ICV	TestCode:	EPA Method 200.7: Dissolved Metals					
Client ID:	ICV	Batch ID:	R3472	RunNo:	3472					
Date:		Analysis Date:	6/15/2012	SeqNo:	97287	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.52	0.0020	0.5000	0	103	95	105			
Cadmium	0.52	0.0020	0.5000	0	103	95	105			
Copper	0.51	0.0060	0.5000	0	102	95	105			
Lead	0.51	0.0050	0.5000	0	103	95	105			
Manganese	0.52	0.0020	0.5000	0	103	95	105			
Silver	0.52	0.0050	0.5000	0	104	95	105			

Sample ID	ICB	SampType:	ICB	TestCode:	EPA Method 200.7: Dissolved Metals					
Client ID:	ICB	Batch ID:	R3472	RunNo:	3472					
Prep Date:		Analysis Date:	6/15/2012	SeqNo:	97288	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	ND	0.0020	0.002000	0	-14.5	-100	99			
Cadmium	ND	0.0020	0.002000	0	10.0	-100	99			
Calcium	ND	1.0	1.000	0	0.318	-100	99			
Copper	ND	0.0060	0.006000	0	4.83	-100	99			
Lead	ND	0.0050	0.005000	0	-16.0	-100	99			
Magnesium	ND	1.0	1.000	0	0.0170	-100	99			
Manganese	ND	0.0020	0.002000	0	15.0	-100	99			
Potassium	ND	1.0	1.000	0	3.33	-100	99			
Silver	ND	0.0050	0.005000	0	4.80	-100	99			

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1205B66

27-Jun-12

Client: Western Refining Southwest, Gallup
Project: 2012 SEMI ANNUAL PONDS

Sample ID	MB	SampType:	MBLK	TestCode:	EPA Method 200.7: Dissolved Metals					
Client ID:	PBW	Batch ID:	R3472	RunNo:	3472					
Prep Date:		Analysis Date:	6/15/2012	SeqNo:	97292	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	ND	0.0020								
Cadmium	ND	0.0020								
Calcium	ND	1.0								
Copper	ND	0.0060								
Lead	ND	0.0050								
Magnesium	ND	1.0								
Manganese	ND	0.0020								
Potassium	ND	1.0								
Silver	ND	0.0050								

Sample ID	LCS	SampType:	LCS	TestCode:	EPA Method 200.7: Dissolved Metals					
Client ID:	LCSW	Batch ID:	R3472	RunNo:	3472					
Prep Date:		Analysis Date:	6/15/2012	SeqNo:	97293	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.50	0.0020	0.5000	0	99.4	85	115			
Cadmium	0.50	0.0020	0.5000	0	99.6	85	115			
Calcium	50	1.0	50.00	0	99.1	85	115			
Copper	0.48	0.0060	0.5000	0	95.8	85	115			
Lead	0.50	0.0050	0.5000	0	99.8	85	115			
Magnesium	49	1.0	50.00	0	97.7	85	115			
Manganese	0.48	0.0020	0.5000	0	96.7	85	115			
Potassium	47	1.0	50.00	0	94.1	85	115			
Silver	0.10	0.0050	0.1000	0	100	85	115			

Sample ID	ICV	SampType:	ICV	TestCode:	EPA Method 200.7: Dissolved Metals					
Client ID:	ICV	Batch ID:	R3552	RunNo:	3552					
Prep Date:		Analysis Date:	6/19/2012	SeqNo:	100110	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Cadmium	0.50	0.0020	0.5000	0	101	95	105			
Chromium	0.49	0.0060	0.5000	0	99.0	95	105			
Copper	0.50	0.0060	0.5000	0	100	95	105			
Iron	0.49	0.020	0.5000	0	97.2	95	105			
Lead	0.50	0.0050	0.5000	0	100	95	105			
Zinc	0.50	0.010	0.5000	0	100	95	105			

Sample ID	ICB	SampType:	ICB	TestCode:	EPA Method 200.7: Dissolved Metals					
Client ID:	ICB	Batch ID:	R3552	RunNo:	3552					
Prep Date:		Analysis Date:	6/19/2012	SeqNo:	100111	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

* / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1205B66

27-Jun-12

Client: Western Refining Southwest, Gallup

Project: 2012 SEMI ANNUAL PONDS

Sample ID	ICB	SampType:	ICB	TestCode:	EPA Method 200.7: Dissolved Metals					
Client ID:	ICB	Batch ID:	R3552	RunNo:	3552					
Prep Date:		Analysis Date:	6/19/2012	SeqNo:	100111	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Cadmium	ND	0.0020	0.002000	0	-0.500	-100	99			
Calcium	ND	1.0	1.000	0	-0.766	-100	99			
Chromium	ND	0.0060	0.006000	0	12.5	-100	99			
Copper	ND	0.0060	0.006000	0	42.3	-100	99			
Iron	ND	0.020	0.02000	0	-24.1	-100	99			
Lead	ND	0.0050	0.005000	0	48.6	-100	99			
Magnesium	ND	1.0	1.000	0	-0.109	-100	99			
Potassium	ND	1.0	1.000	0	-5.21	-100	99			
Sodium	ND	1.0	1.000	0	-0.283	-100	99			
Zinc	ND	0.010	0.01000	0	-0.300	-100	99			

Sample ID	MB	SampType:	MBLK	TestCode:	EPA Method 200.7: Dissolved Metals					
Client ID:	PBW	Batch ID:	R3552	RunNo:	3552					
Prep Date:	5/10/2012	Analysis Date:	6/19/2012	SeqNo:	100115	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Cadmium	ND	0.0020								
Calcium	ND	1.0								
Chromium	ND	0.0060								
Copper	ND	0.0060								
Iron	ND	0.020								
Lead	ND	0.0050								
Magnesium	ND	1.0								
Potassium	ND	1.0								
Sodium	ND	1.0								
Zinc	ND	0.010								

Sample ID	LCS	SampType:	LCS	TestCode:	EPA Method 200.7: Dissolved Metals					
Client ID:	LCSW	Batch ID:	R3552	RunNo:	3552					
Prep Date:		Analysis Date:	6/19/2012	SeqNo:	100116	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Cadmium	0.50	0.0020	0.5000	0	101	85	115			
Calcium	51	1.0	50.00	0	102	85	115			
Chromium	0.48	0.0060	0.5000	0	96.6	85	115			
Copper	0.49	0.0060	0.5000	0	97.3	85	115			
Iron	0.48	0.020	0.5000	0	96.2	85	115			
Lead	0.50	0.0050	0.5000	0.002890	99.1	85	115			
Magnesium	53	1.0	50.00	0	106	85	115			
Potassium	52	1.0	50.00	0	103	85	115			
Sodium	52	1.0	50.00	0	105	85	115			
Zinc	0.48	0.010	0.5000	0	95.8	85	115			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1205B66

27-Jun-12

Client: Western Refining Southwest, Gallup

Project: 2012 SEMI ANNUAL PONDS

Sample ID	ICB	SampType:	ICB	TestCode:	EPA Method 200.7: Dissolved Metals						
Client ID:	ICB	Batch ID:	R3580	RunNo:	3580						
Prep Date:		Analysis Date:	6/21/2012	SeqNo:	100992	Units:	mg/L				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sodium		ND	1.0	1.000	0	0.990	-100	99			

Sample ID	MB	SampType:	MBLK		TestCode:	EPA Method 200.7: Dissolved Metals					
Client ID:	PBW	Batch ID:	R3580		RunNo:	3580					
Prep Date:		Analysis Date:	6/21/2012		SeqNo:	100997	Units:	mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sodium		ND	1.0								

Sample ID	LCS	SampType:	LCS	TestCode:	EPA Method 200.7: Dissolved Metals						
Client ID:	LCSW	Batch ID:	R3580	RunNo:	3580						
Prep Date:		Analysis Date:	6/21/2012	SeqNo:	100999	Units:	mg/L				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sodium		51	1.0	50.00	0	101	85	115			

Sample ID	ICB	SampType:	ICB	TestCode:	EPA Method 200.7: Dissolved Metals						
Client ID:	ICB	Batch ID:	R3580	RunNo:	3580						
Prep Date:		Analysis Date:	6/21/2012	SeqNo:	103841	Units:	mg/L				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sodium		ND	1.0	1.000	0	1.76	-100	99			

Qualifiers:

*X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1205B66

27-Jun-12

Client: Western Refining Southwest, Gallup

Project: 2012 SEMI ANNUAL PONDS

Sample ID	MB-2211		SampType:	MBLK		TestCode:	EPA Method 200.7: Total Metals			
Client ID:	PBW		Batch ID:	2211		RunNo:	3430			
Prep Date:	6/4/2012		Analysis Date:	6/14/2012		SeqNo:	96102		Units: mg/L	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	ND	0.0020								
Cadmium	ND	0.0020								
Chromium	ND	0.0060								
Lead	ND	0.0050								
Manganese	ND	0.0020								
Silver	ND	0.0050								
Zinc	ND	0.010								

Sample ID	LCS-2211		SampType:	LCS		TestCode:	EPA Method 200.7: Total Metals			
Client ID:	LCSW		Batch ID:	2211		RunNo:	3430			
Prep Date:	6/4/2012		Analysis Date:	6/14/2012		SeqNo:	96103		Units: mg/L	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.49	0.0020	0.5000	0.0005500	97.1	85	115			
Cadmium	0.49	0.0020	0.5000	0	97.6	85	115			
Chromium	0.48	0.0060	0.5000	0	96.3	85	115			
Lead	0.49	0.0050	0.5000	0	98.2	85	115			
Manganese	0.47	0.0020	0.5000	0	95.0	85	115			
	0.099	0.0050	0.1000	0	98.9	85	115			
Zinc	0.49	0.010	0.5000	0.002630	97.5	85	115			

Sample ID	MB-2211		SampType:	MBLK		TestCode:	EPA Method 200.7: Total Metals			
Client ID:	PBW		Batch ID:	2211		RunNo:	3472			
Prep Date:	6/4/2012		Analysis Date:	6/15/2012		SeqNo:	97294		Units: mg/L	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Copper	ND	0.0060								

Sample ID	LCS-2211		SampType:	LCS		TestCode:	EPA Method 200.7: Total Metals			
Client ID:	LCSW		Batch ID:	2211		RunNo:	3472			
Prep Date:	6/4/2012		Analysis Date:	6/15/2012		SeqNo:	97295		Units: mg/L	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Copper	0.51	0.0060	0.5000	0	102	85	115			

Sample ID	MB-2211		SampType:	MBLK		TestCode:	EPA Method 200.7: Total Metals			
Client ID:	PBW		Batch ID:	2211		RunNo:	3474			
Prep Date:	6/4/2012		Analysis Date:	6/16/2012		SeqNo:	104093		Units: mg/L	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Iron	ND	0.020								

Qualifiers:

* Value exceeds Maximum Contaminant Level.
Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1205B66

27-Jun-12

Client: Western Refining Southwest, Gallup

Project: 2012 SEMI ANNUAL PONDS

Sample ID	LCS-2211	SampType:	LCS	TestCode:	EPA Method 200.7: Total Metals					
Client ID:	LCSW	Batch ID:	2211	RunNo:	3474					
Prep Date:	6/4/2012	Analysis Date:	6/16/2012	SeqNo:	104094	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Iron	0.47	0.020	0.5000	0	94.0	85	115			

Qualifiers:

* / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1205B66

27-Jun-12

Client: Western Refining Southwest, Gallup

Project: 2012 SEMI ANNUAL PONDS

Sample ID	LCS		SampType:	LCS		TestCode:	EPA 200.8: Dissolved Metals				
Client ID:	LCSW		Batch ID:	R3538		RunNo:	3538				
Prep Date:			Analysis Date:	6/19/2012		SeqNo:	99659		Units: mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Arsenic	0.026	0.0010	0.02500	0	104	85	115				
Selenium	0.027	0.0010	0.02500	0	107	85	115				
Uranium	0.024	0.0010	0.02500	0	97.3	85	115				

Sample ID	MB		SampType:	MBLK		TestCode:	EPA 200.8: Dissolved Metals				
Client ID:	PBW		Batch ID:	R3538		RunNo:	3538				
Prep Date:			Analysis Date:	6/19/2012		SeqNo:	99660		Units: mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Arsenic	ND	0.0010									
Selenium	ND	0.0010									
Uranium	ND	0.0010									

Qualifiers:

*~ Value exceeds Maximum Contaminant Level.
Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1205B66

27-Jun-12

Client: Western Refining Southwest, Gallup

Project: 2012 SEMI ANNUAL PONDS

Sample ID	MB-2211	SampType:	MBLK	TestCode:	200.8 ICPMS Metals:Total					
Client ID:	PBW	Batch ID:	2211	RunNo:	3356					
Prep Date:	6/4/2012	Analysis Date:	6/11/2012	SeqNo:	93647	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.0025								
Uranium	ND	0.0025								

Sample ID	MB-2211	SampType:	MBLK	TestCode:	200.8 ICPMS Metals:Total					
Client ID:	PBW	Batch ID:	2211	RunNo:	3459					
Prep Date:	6/4/2012	Analysis Date:	6/14/2012	SeqNo:	96999	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Selenium	ND	0.0025								

Qualifiers:

*X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1205B66

27-Jun-12

Client: Western Refining Southwest, Gallup

Project: 2012 SEMI ANNUAL PONDS

Sample ID	MB-2182	SampType:	MBLK	TestCode:	EPA Method 245.1: Mercury					
Client ID:	PBW	Batch ID:	2182	RunNo:	3201					
Prep Date:	6/1/2012	Analysis Date:	6/1/2012	SeqNo:	88720	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.00020								

Sample ID	LCS-2182	SampType:	LCS	TestCode:	EPA Method 245.1: Mercury					
Client ID:	LCSW	Batch ID:	2182	RunNo:	3201					
Prep Date:	6/1/2012	Analysis Date:	6/1/2012	SeqNo:	88721	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0051	0.00020	0.005000	0	103	80	120			

Sample ID	MB-2194	SampType:	MBLK	TestCode:	EPA Method 245.1: Mercury					
Client ID:	PBW	Batch ID:	2194	RunNo:	3201					
Prep Date:	6/1/2012	Analysis Date:	6/1/2012	SeqNo:	88768	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.00020								

Sample ID	LCS-2194	SampType:	LCS	TestCode:	EPA Method 245.1: Mercury					
Client ID:	LCSW	Batch ID:	2194	RunNo:	3201					
Date:	6/1/2012	Analysis Date:	6/1/2012	SeqNo:	88769	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0052	0.00020	0.005000	0	104	80	120			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1205B66

27-Jun-12

Client: Western Refining Southwest, Gallup

Project: 2012 SEMI ANNUAL PONDS

Sample ID	MB	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBW	Batch ID:	R3112	RunNo:	3112					
Prep Date:		Analysis Date:	5/30/2012	SeqNo:	86071	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Nitrogen, Nitrite (As N)	ND	0.10
Bromide	ND	0.10
Nitrogen, Nitrate (As N)	ND	0.10
Phosphorus, Orthophosphate (As P)	ND	0.50

Sample ID	LCS	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSW	Batch ID:	R3112	RunNo:	3112					
Prep Date:		Analysis Date:	5/30/2012	SeqNo:	86072	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Nitrogen, Nitrite (As N)	0.93	0.10	1.000	0	92.7	90	110
Bromide	2.4	0.10	2.500	0	97.6	90	110
Nitrogen, Nitrate (As N)	2.5	0.10	2.500	0	102	90	110
Phosphorus, Orthophosphate (As P)	5.0	0.50	5.000	0	100	90	110

Sample ID	MB	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBW	Batch ID:	R3112	RunNo:	3112					
Prep Date:		Analysis Date:	5/30/2012	SeqNo:	86123	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Nitrogen, Nitrite (As N)	ND	0.10
Bromide	ND	0.10
Nitrogen, Nitrate (As N)	ND	0.10
Phosphorus, Orthophosphate (As P)	ND	0.50

Sample ID	LCS	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSW	Batch ID:	R3112	RunNo:	3112					
Prep Date:		Analysis Date:	5/30/2012	SeqNo:	86124	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Nitrogen, Nitrite (As N)	0.92	0.10	1.000	0	91.5	90	110
Bromide	2.4	0.10	2.500	0	95.1	90	110
Nitrogen, Nitrate (As N)	2.5	0.10	2.500	0	98.8	90	110
Phosphorus, Orthophosphate (As P)	4.9	0.50	5.000	0	98.5	90	110

Sample ID	MB	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBW	Batch ID:	R3223	RunNo:	3223					
Prep Date:		Analysis Date:	6/5/2012	SeqNo:	89301	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Fluoride	ND	0.10
Chloride	ND	0.50

Qualifiers:

*X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1205B66

27-Jun-12

Client: Western Refining Southwest, Gallup

Project: 2012 SEMI ANNUAL PONDS

Sample ID	MB	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBW	Batch ID:	R3223	RunNo:	3223					
Prep Date:		Analysis Date:	6/5/2012	SeqNo:	89301	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Bromide	ND	0.10								
Phosphorus, Orthophosphate (As P	ND	0.50								
Sulfate	ND	0.50								
Nitrate+Nitrite as N	ND	0.20								

Sample ID	LCS	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSW	Batch ID:	R3223	RunNo:	3223					
Prep Date:		Analysis Date:	6/5/2012	SeqNo:	89302	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.46	0.10	0.5000	0	91.8	90	110			
Chloride	4.8	0.50	5.000	0	95.0	90	110			
Bromide	2.4	0.10	2.500	0	96.0	90	110			
Phosphorus, Orthophosphate (As P	5.0	0.50	5.000	0	99.0	90	110			
Sulfate	9.7	0.50	10.00	0	97.0	90	110			
Nitrate+Nitrite as N	3.4	0.20	3.500	0	97.6	90	110			

Sample ID	MB	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBW	Batch ID:	R3349	RunNo:	3349					
Prep Date:		Analysis Date:	6/11/2012	SeqNo:	93342	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								
Nitrate+Nitrite as N	ND	0.20								

Sample ID	LCS	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSW	Batch ID:	R3349	RunNo:	3349					
Prep Date:		Analysis Date:	6/11/2012	SeqNo:	93343	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.9	0.50	5.000	0	98.2	90	110			
Nitrate+Nitrite as N	3.5	0.20	3.500	0	101	90	110			

Sample ID	MB	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBW	Batch ID:	R3576	RunNo:	3576					
Prep Date:		Analysis Date:	6/20/2012	SeqNo:	100775	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrate+Nitrite as N	ND	0.20								

Qualifiers:

* Value exceeds Maximum Contaminant Level.
Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1205B66

27-Jun-12

Client: Western Refining Southwest, Gallup

Project: 2012 SEMI ANNUAL PONDS

Sample ID	MB	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBW	Batch ID:	R3576	RunNo:	3576					
Prep Date:		Analysis Date:	6/21/2012	SeqNo:	100850	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrate+Nitrite as N	ND	0.20								

Sample ID	LCS	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSW	Batch ID:	R3576	RunNo:	3576					
Prep Date:		Analysis Date:	6/21/2012	SeqNo:	100851	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrate+Nitrite as N	3.3	0.20	3.500	0	95.2	90	110			

Qualifiers:

* / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1205B66

27-Jun-12

Client: Western Refining Southwest, Gallup

Project: 2012 SEMI ANNUAL PONDS

Sample ID	5ml rb	SampType: MBLK			TestCode: EPA Method 8260B: VOLATILES					
Client ID:	PBW	Batch ID: R3180			RunNo: 3180					
Prep Date:		Analysis Date: 6/1/2012			SeqNo: 88010		Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Cyclohexane disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1205B66

27-Jun-12

Client: Western Refining Southwest, Gallup

Project: 2012 SEMI ANNUAL PONDS

Sample ID	5ml rb	SampType:	MBLK	TestCode:	EPA Method 8260B: VOLATILES					
Client ID:	PBW	Batch ID:	R3180	RunNo:	3180					
Prep Date:		Analysis Date:	6/1/2012	SeqNo:	88010	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	1.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	10		10.00		103	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		104	70	130			
Surr: Dibromofluoromethane	9.6		10.00		96.2	69.8	130			
Surr: Toluene-d8	11		10.00		107	70	130			

Sample ID	100ng lcs	SampType:	LCS	TestCode:	EPA Method 8260B: VOLATILES					
Client ID:	LCSW	Batch ID:	R3180	RunNo:	3180					
Prep Date:		Analysis Date:	6/1/2012	SeqNo:	88014	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	98.2	84.1	126			
Toluene	20	1.0	20.00	0	102	80	120			
Chlorobenzene	20	1.0	20.00	0	101	70	130			
1,1-Dichloroethene	23	1.0	20.00	0	117	83	130			
Trichloroethene (TCE)	21	1.0	20.00	0	104	76.2	119			
Surr: 1,2-Dichloroethane-d4	10		10.00		100	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		107	70	130			

Qualifiers:

*X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1205B66

27-Jun-12

Client: Western Refining Southwest, Gallup

Project: 2012 SEMI ANNUAL PONDS

Sample ID	100ng lcs	SampType:	LCS	TestCode:	EPA Method 8260B: VOLATILES					
Client ID:	LCSW	Batch ID:	R3180	RunNo:	3180					
Prep Date:		Analysis Date:	6/1/2012	SeqNo:	88014	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	9.3		10.00		92.6	69.8	130			
Surr: Toluene-d8	10		10.00		104	70	130			

Sample ID	b3	SampType: MBLK		TestCode: EPA Method 8260B: VOLATILES						
Client ID:	PBW	Batch ID: R3180		RunNo: 3180						
Prep Date:		Analysis Date: 6/1/2012		SeqNo: 88039		Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1205B66

27-Jun-12

Client: Western Refining Southwest, Gallup

Project: 2012 SEMI ANNUAL PONDS

Sample ID	b3	SampType:	MBLK	TestCode:	EPA Method 8260B: VOLATILES					
Client ID:	PBW	Batch ID:	R3180	RunNo:	3180					
Prep Date:		Analysis Date:	6/1/2012	SeqNo:	88039	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	1.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	10		10.00		104	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		113	70	130			
Surr: Dibromofluoromethane	9.7		10.00		96.5	69.8	130			
Surr: Toluene-d8	10		10.00		104	70	130			

Qualifiers:

*X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1205B66

27-Jun-12

Client: Western Refining Southwest, Gallup

Project: 2012 SEMI ANNUAL PONDS

Sample ID	100ng lcs2		SampType:	LCS		TestCode:	EPA Method 8260B: VOLATILES				
Client ID:	LCSW		Batch ID:	R3180		RunNo:	3180				
Prep Date:			Analysis Date:	6/1/2012		SeqNo:	88040		Units:	µg/L	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	20	1.0	20.00	0	101	84.1	126				
Toluene	22	1.0	20.00	0	110	80	120				
Chlorobenzene	21	1.0	20.00	0	106	70	130				
1,1-Dichloroethene	23	1.0	20.00	0	117	83	130				
Trichloroethene (TCE)	22	1.0	20.00	0	112	76.2	119				
Surr: 1,2-Dichloroethane-d4	10		10.00		101	70	130				
Surr: 4-Bromofluorobenzene	11		10.00		112	70	130				
Surr: Dibromofluoromethane	9.5		10.00		95.2	69.8	130				
Surr: Toluene-d8	10		10.00		104	70	130				

Sample ID	b5	SampType: MBLK			TestCode: EPA Method 8260B: VOLATILES					
Client ID:	PBW	Batch ID: R3180			RunNo: 3180					
Prep Date:		Analysis Date: 6/2/2012			SeqNo: 88052		Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1205B66

27-Jun-12

Client: Western Refining Southwest, Gallup

Project: 2012 SEMI ANNUAL PONDS

Sample ID	b5	SampType:	MBLK	TestCode:	EPA Method 8260B: VOLATILES					
Client ID:	PBW	Batch ID:	R3180	RunNo:	3180					
Prep Date:		Analysis Date:	6/2/2012	SeqNo:	88052	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	1.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	10		10.00		103	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		108	70	130			

Qualifiers:

*X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1205B66

27-Jun-12

Client: Western Refining Southwest, Gallup

Project: 2012 SEMI ANNUAL PONDS

Sample ID	b5	SampType:	MBLK		TestCode:	EPA Method 8260B: VOLATILES				
Client ID:	PBW	Batch ID:	R3180		RunNo:	3180				
Prep Date:		Analysis Date:	6/2/2012		SeqNo:	88052	Units:	µg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	9.3		10.00		93.3	69.8	130			
Surr: Toluene-d8	10		10.00		104	70	130			

Sample ID	100ng lcs3	SampType: LCS			TestCode: EPA Method 8260B: VOLATILES					
Client ID:	LCSW	Batch ID: R3180			RunNo: 3180					
Prep Date:		Analysis Date: 6/2/2012			SeqNo: 88053		Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	21	1.0	20.00	0	104	84.1	126			
Toluene	21	1.0	20.00	0	105	80	120			
Chlorobenzene	21	1.0	20.00	0	103	70	130			
1,1-Dichloroethene	23	1.0	20.00	0	116	83	130			
Trichloroethene (TCE)	22	1.0	20.00	0	112	76.2	119			
Surr: 1,2-Dichloroethane-d4	9.8		10.00		98.2	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		104	70	130			
Surr: Dibromofluoromethane	9.6		10.00		95.8	69.8	130			
Surr: Toluene-d8	10		10.00		102	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1205B66

27-Jun-12

Client: Western Refining Southwest, Gallup

Project: 2012 SEMI ANNUAL PONDS

Sample ID	mb-2172	SampType:	MBLK	TestCode:	EPA Method 8270C: Semivolatiles					
Client ID:	PBW	Batch ID:	2172	RunNo:	3140					
Prep Date:	5/31/2012	Analysis Date:	5/31/2012	SeqNo:	86803	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	ND	10								
Acenaphthylene	ND	10								
Aniline	ND	10								
Anthracene	ND	10								
Azobenzene	ND	10								
Benz(a)anthracene	ND	10								
Benzo(a)pyrene	ND	10								
Benzo(b)fluoranthene	ND	10								
Benzo(g,h,i)perylene	ND	10								
Benzo(k)fluoranthene	ND	10								
Benzoic acid	ND	20								
Benzyl alcohol	ND	10								
Bis(2-chloroethoxy)methane	ND	10								
Bis(2-chloroethyl)ether	ND	10								
Bis(2-chloroisopropyl)ether	ND	10								
Bis(2-ethylhexyl)phthalate	ND	10								
4-Bromophenyl phenyl ether	ND	10								
Butyl benzyl phthalate	ND	10								
Carbazole	ND	10								
4-Chloro-3-methylphenol	ND	10								
4-Chloroaniline	ND	10								
2-Chloronaphthalene	ND	10								
2-Chlorophenol	ND	10								
4-Chlorophenyl phenyl ether	ND	10								
Chrysene	ND	10								
Di-n-butyl phthalate	ND	10								
Di-n-octyl phthalate	ND	10								
Dibenz(a,h)anthracene	ND	10								
Dibenzofuran	ND	10								
1,2-Dichlorobenzene	ND	10								
1,3-Dichlorobenzene	ND	10								
1,4-Dichlorobenzene	ND	10								
3,3'-Dichlorobenzidine	ND	10								
Diethyl phthalate	ND	10								
Dimethyl phthalate	ND	10								
2,4-Dichlorophenol	ND	20								
2,4-Dimethylphenol	ND	10								
4,6-Dinitro-2-methylphenol	ND	20								
2,4-Dinitrophenol	ND	20								
2,4-Dinitrotoluene	ND	10								
2,6-Dinitrotoluene	ND	10								

Qualifiers:

* / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1205B66

27-Jun-12

Client: Western Refining Southwest, Gallup

Project: 2012 SEMI ANNUAL PONDS

Sample ID	mb-2172	SampType	MBLK	TestCode	EPA Method 8270C: Semivolatiles					
Client ID	PBW	Batch ID	2172	RunNo	3140					
Prep Date	5/31/2012	Analysis Date	5/31/2012	SeqNo	86803	Units	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoranthene	ND	10								
Fluorene	ND	10								
Hexachlorobenzene	ND	10								
Hexachlorobutadiene	ND	10								
Hexachlorocyclopentadiene	ND	10								
Hexachloroethane	ND	10								
Indeno(1,2,3-cd)pyrene	ND	10								
Isophorone	ND	10								
1-Methylnaphthalene	ND	10								
2-Methylnaphthalene	ND	10								
2-Methylphenol	ND	10								
3+4-Methylphenol	ND	10								
N-Nitrosodi-n-propylamine	ND	10								
N-Nitrosodimethylamine	ND	10								
N-Nitrosodiphenylamine	ND	10								
Naphthalene	ND	10								
2-Nitroaniline	ND	10								
3-Nitroaniline	ND	10								
4-Nitroaniline	ND	20								
Nitrobenzene	ND	10								
2-Nitrophenol	ND	10								
4-Nitrophenol	ND	10								
Pentachlorophenol	ND	20								
Phenanthrene	ND	10								
Phenol	ND	10								
Pyrene	ND	10								
Pyridine	ND	10								
1,2,4-Trichlorobenzene	ND	10								
2,4,5-Trichlorophenol	ND	10								
2,4,6-Trichlorophenol	ND	10								
Surr: 2,4,6-Tribromophenol	150		200.0		75.2	44.2	126			
Surr: 2-Fluorobiphenyl	69		100.0		69.0	37	114			
Surr: 2-Fluorophenol	110		200.0		53.1	23.4	98			
Surr: 4-Terphenyl-d14	76		100.0		75.7	41.3	116			
Surr: Nitrobenzene-d5	74		100.0		73.9	39.5	118			
Surr: Phenol-d5	83		200.0		41.6	20.9	95.9			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
 Value above quantitation range
 J Analyte detected below quantitation limits
 R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1205B66

27-Jun-12

Client: Western Refining Southwest, Gallup

Project: 2012 SEMI ANNUAL PONDS

Sample ID	lcs-2172		SampType: LCS	TestCode: EPA Method 8270C: Semivolatiles						
Client ID:	LCSW		Batch ID: 2172	RunNo: 3140						
Prep Date:	5/31/2012		Analysis Date: 5/31/2012	SeqNo: 86804		Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	77	10	100.0	0	76.7	38.2	99.4			
4-Chloro-3-methylphenol	170	10	200.0	0	82.6	35.5	108			
2-Chlorophenol	160	10	200.0	0	81.3	29.8	106			
1,4-Dichlorobenzene	73	10	100.0	0	73.1	32.6	91.5			
2,4-Dinitrotoluene	87	10	100.0	0	87.5	44.7	112			
N-Nitrosodi-n-propylamine	90	10	100.0	0	90.1	38.5	105			
4-Nitrophenol	93	10	200.0	0	46.4	11.6	73.1			
Pentachlorophenol	150	20	200.0	0	75.2	20.2	93			
Phenol	94	10	200.0	0	46.8	23	66.1			
Pyrene	79	10	100.0	0	78.6	40.1	101			
1,2,4-Trichlorobenzene	81	10	100.0	0	80.6	37.7	99.1			
Surr: 2,4,6-Tribromophenol	200		200.0		99.1	44.2	126			
Surr: 2-Fluorobiphenyl	81		100.0		80.9	37	114			
Surr: 2-Fluorophenol	120		200.0		61.8	23.4	98			
Surr: 4-Terphenyl-d14	86		100.0		85.7	41.3	116			
Surr: Nitrobenzene-d5	88		100.0		88.5	39.5	118			
Surr: Phenol-d5	94		200.0		47.1	20.9	95.9			

Sample ID	lcsd-2172		SampType: LCSD	TestCode: EPA Method 8270C: Semivolatiles						
Client ID:	LCSS02		Batch ID: 2172	RunNo: 3140						
Prep Date:	5/31/2012		Analysis Date: 6/1/2012	SeqNo: 86806		Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	79	10	100.0	0	79.5	38.2	99.4	3.61	20	
4-Chloro-3-methylphenol	160	10	200.0	0	80.4	35.5	108	2.77	20	
2-Chlorophenol	160	10	200.0	0	81.0	29.8	106	0.333	20	
1,4-Dichlorobenzene	78	10	100.0	0	77.7	32.6	91.5	6.13	20	
2,4-Dinitrotoluene	92	10	100.0	0	91.6	44.7	112	4.67	20	
N-Nitrosodi-n-propylamine	94	10	100.0	0	94.2	38.5	105	4.45	20	
4-Nitrophenol	93	10	200.0	0	46.7	11.6	73.1	0.752	20	
Pentachlorophenol	150	20	200.0	0	75.7	20.2	93	0.742	20	
Phenol	96	10	200.0	0	48.0	23	66.1	2.58	20	
Pyrene	82	10	100.0	0	82.5	40.1	101	4.84	20	
1,2,4-Trichlorobenzene	90	10	100.0	0	89.7	37.7	99.1	10.7	20	
Surr: 2,4,6-Tribromophenol	190		200.0		95.7	44.2	126	0	0	
Surr: 2-Fluorobiphenyl	79		100.0		78.9	37	114	0	0	
Surr: 2-Fluorophenol	110		200.0		55.0	23.4	98	0	0	
Surr: 4-Terphenyl-d14	86		100.0		85.9	41.3	116	0	0	
Surr: Nitrobenzene-d5	82		100.0		81.7	39.5	118	0	0	
Surr: Phenol-d5	84		200.0		42.2	20.9	95.9	0	0	

Qualifiers:

*X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1205B66

27-Jun-12

Client: Western Refining Southwest, Gallup

Project: 2012 SEMI ANNUAL PONDS

Sample ID	1410uS eC icv	SampType:	icv	TestCode:	EPA 120.1: Specific Conductance					
Client ID:	ICV	Batch ID:	R3136	RunNo:	3136					
Prep Date:		Analysis Date:	5/31/2012	SeqNo:	86718	Units:	µmhos/cm			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Conductivity	1400	0.010	1410	0	97.8	90	110			

Sample ID	1205B66-002C dup	SampType:	dup	TestCode:	EPA 120.1: Specific Conductance					
Client ID:	EP-1	Batch ID:	R3136	RunNo:	3136					
Prep Date:		Analysis Date:	5/31/2012	SeqNo:	86722	Units:	µmhos/cm			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Conductivity	8700	0.010						0.217	20	

Sample ID	1205B66-012C DUP	SampType:	dup	TestCode:	EPA 120.1: Specific Conductance					
Client ID:	EP-6	Batch ID:	R3136	RunNo:	3136					
Prep Date:		Analysis Date:	5/31/2012	SeqNo:	86747	Units:	µmhos/cm			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Conductivity	27000	0.50						0.409	20	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- Value above quantitation range
- Analyte detected below quantitation limits
- R RPD outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1205B66

27-Jun-12

Client: Western Refining Southwest, Gallup

Project: 2012 SEMI ANNUAL PONDS

Sample ID	7.00 pH icv	SampType:	icv	TestCode:	SM4500-H+B: pH					
Client ID:	ICV	Batch ID:	R3136	RunNo:	3136					
Prep Date:		Analysis Date:	5/31/2012	SeqNo:	86687	Units:	pH units			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
pH	7.01	1.68								

Sample ID	1205B66-002C dup	SampType:	dup	TestCode:	SM4500-H+B: pH					
Client ID:	EP-1	Batch ID:	R3136	RunNo:	3136					
Prep Date:		Analysis Date:	5/31/2012	SeqNo:	86702	Units:	pH units			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
pH	7.74	1.68								H

Qualifiers:

* / X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87105
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name:	Western Refining Gallup	Work Order Number:	1205B66
Received by/date:	JB 05/30/12 1300		
Logged By:	Anne Thorne	5/30/2012 1:00:00 PM	Anne Thorne
Completed By:	Anne Thorne	5/30/2012	Anne Thorne
Reviewed By:	JB 05/30/12		

Chain of Custody

1. Were seals intact? Yes ☒ No ☐ Not Present ☐
2. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
3. How was the sample delivered? Client

Log In

4. Coolers are present? (see 19. for cooler specific information) Yes ☒ No ☐ NA ☐
5. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
6. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
7. Sample(s) in proper container(s)? Yes ☒ No ☐
8. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
9. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
10. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
11. VOA vials have zero headspace? Yes ☒ No ☐ No VOA Vials ☐
12. Were any sample containers received broken? Yes ☐ No ☒
13. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
14. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
15. Is it clear what analyses were requested? Yes ☒ No ☐
16. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH: 50
(<2 or >12 unless noted)
Adjusted? _____
Checked by: [Signature]

Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:	_____	Date:	_____
By Whom:	_____	Via:	☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:	_____		
Client Instructions:	_____		

18. Additional remarks:

19. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
4	1.0	Good	Not Present			

