

AP - 111

**ANNUAL GW
MONITORING REPORT
(9 of 29)**

2016

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1602A45

Date Reported: 3/31/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-40

Project: Quarterly GW Sampling

Collection Date: 2/23/2016 2:50:00 PM

Lab ID: 1602A45-006

Matrix: AQUEOUS

Received Date: 2/25/2016 8:16:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: DJF	
Surr: 4-Bromofluorobenzene	108	0	70-130		%Rec	1	2/26/2016 12:44:12 AM	R32418
Surr: Dibromofluoromethane	96.8	0	70-130		%Rec	1	2/26/2016 12:44:12 AM	R32418
Surr: Toluene-d8	102	0	70-130		%Rec	1	2/26/2016 12:44:12 AM	R32418

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1602A45

Date Reported: 3/31/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-30

Project: Quarterly GW Sampling

Collection Date: 2/23/2016 3:45:00 PM

Lab ID: 1602A45-007

Matrix: AQUEOUS

Received Date: 2/25/2016 8:16:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015M/D: DIESEL RANGE							Analyst: KJH	
Diesel Range Organics (DRO)	ND	0.69	1.0		mg/L	1	2/25/2016 8:39:32 PM	23932
Motor Oil Range Organics (MRO)	ND	5.0	5.0		mg/L	1	2/25/2016 8:39:32 PM	23932
Surr: DNOP	125	0	70-141		%Rec	1	2/25/2016 8:39:32 PM	23932
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB	
Gasoline Range Organics (GRO)	0.13	0.025	0.050		mg/L	1	2/25/2016 6:37:37 PM	R32416
Surr: BFB	84.2	0	49.5-130		%Rec	1	2/25/2016 6:37:37 PM	R32416
EPA METHOD 300.0: ANIONS							Analyst: LGT	
Fluoride	1.1	0.023	0.10		mg/L	1	2/26/2016 12:12:55 AM	R32424
Chloride	1100	14	250		mg/L	500	3/1/2016 6:07:05 PM	A32498
Bromide	3.2	0.65	2.0		mg/L	20	2/26/2016 12:25:20 AM	R32424
Phosphorus, Orthophosphate (As P)	ND	0.22	0.50	H	mg/L	1	2/26/2016 12:12:55 AM	R32424
Sulfate	320	1.3	10		mg/L	20	2/26/2016 12:25:20 AM	R32424
Nitrate+Nitrite as N	ND	0.42	1.0		mg/L	5	2/29/2016 5:15:21 PM	A32480
EPA METHOD 200.7: DISSOLVED METALS							Analyst: ELS	
Barium	0.046	0.0013	0.0020		mg/L	1	3/2/2016 4:13:47 PM	A32539
Cadmium	ND	0.00075	0.0020		mg/L	1	3/2/2016 4:13:47 PM	A32539
Calcium	110	1.3	5.0		mg/L	5	3/2/2016 4:15:42 PM	A32539
Chromium	ND	0.0018	0.0060		mg/L	1	3/2/2016 4:13:47 PM	A32539
Copper	ND	0.0040	0.0060		mg/L	1	3/2/2016 4:13:47 PM	A32539
Iron	0.057	0.0091	0.020		mg/L	1	3/2/2016 4:13:47 PM	A32539
Magnesium	21	0.013	1.0		mg/L	1	3/2/2016 4:13:47 PM	A32539
Manganese	0.017	0.00032	0.0020		mg/L	1	3/2/2016 4:13:47 PM	A32539
Potassium	0.53	0.18	1.0	J	mg/L	1	3/2/2016 4:13:47 PM	A32539
Silver	ND	0.0028	0.0050		mg/L	1	3/2/2016 4:13:47 PM	A32539
Sodium	1100	1.9	20		mg/L	20	3/9/2016 3:53:47 PM	B32673
Zinc	0.011	0.0028	0.010		mg/L	1	3/2/2016 4:13:47 PM	A32539
EPA METHOD 200.7: TOTAL METALS							Analyst: ELS	
Barium	0.12	0.0011	0.0020		mg/L	1	3/2/2016 3:25:46 PM	23939
Cadmium	ND	0.00062	0.0020		mg/L	1	3/2/2016 3:25:46 PM	23939
Chromium	0.0032	0.0022	0.0060	J	mg/L	1	3/2/2016 3:25:46 PM	23939
Copper	ND	0.0051	0.0060		mg/L	1	3/2/2016 3:25:46 PM	23939
Iron	3.3	0.036	0.10	*	mg/L	5	3/9/2016 3:23:07 PM	23939
Manganese	0.18	0.0015	0.0020	*	mg/L	1	3/2/2016 3:25:46 PM	23939
Silver	ND	0.0021	0.0050		mg/L	1	3/2/2016 3:25:46 PM	23939
Zinc	0.013	0.0039	0.010		mg/L	1	3/7/2016 3:12:19 PM	24075
EPA 200.8: DISSOLVED METALS							Analyst: JLF	
Arsenic	ND	0.0050	0.0050		mg/L	5	3/15/2016 3:49:50 PM	B32805

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Date Reported: 3/31/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-30

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Matrix: AQUEOUS

Received Date: 2/25/2016 8:16:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA 200.8: DISSOLVED METALS							Analyst: JLF	
Lead	0.00036	0.00013	0.0025	J	mg/L	5	3/15/2016 3:49:50 PM	B32805
Selenium	0.0042	0.00097	0.0050	J	mg/L	5	3/15/2016 3:49:50 PM	B32805
Uranium	0.029	0.000024	0.0025		mg/L	5	3/15/2016 3:49:50 PM	B32805
200.8 ICPMS METALS:TOTAL							Analyst: JLF	
Arsenic	0.0017	0.00029	0.0010		mg/L	1	3/9/2016 3:08:16 PM	24075
Lead	0.0041	0.000047	0.00050		mg/L	1	3/9/2016 3:08:16 PM	24075
Selenium	0.0031	0.00062	0.0050	J	mg/L	5	3/9/2016 4:02:31 PM	24075
Uranium	0.029	0.000025	0.0025		mg/L	5	3/9/2016 4:02:31 PM	24075
EPA METHOD 245.1: MERCURY							Analyst: pmf	
Mercury	0.000069	0.000053	0.00020	J	mg/L	1	2/26/2016 12:56:36 PM	23952
EPA METHOD 8270C: SEMIVOLATILES							Analyst: DAM	
Acenaphthene	ND	8.0	10		µg/L	1	3/2/2016 6:11:37 PM	23981
Acenaphthylene	ND	7.2	10		µg/L	1	3/2/2016 6:11:37 PM	23981
Aniline	ND	9.8	10		µg/L	1	3/2/2016 6:11:37 PM	23981
Anthracene	ND	6.6	10		µg/L	1	3/2/2016 6:11:37 PM	23981
Azobenzene	ND	9.3	10		µg/L	1	3/2/2016 6:11:37 PM	23981
Benz(a)anthracene	ND	6.1	10		µg/L	1	3/2/2016 6:11:37 PM	23981
Benzo(a)pyrene	ND	6.3	10		µg/L	1	3/2/2016 6:11:37 PM	23981
Benzo(b)fluoranthene	ND	6.6	10		µg/L	1	3/2/2016 6:11:37 PM	23981
Benzo(g,h,i)perylene	ND	6.8	10		µg/L	1	3/2/2016 6:11:37 PM	23981
Benzo(k)fluoranthene	ND	7.2	10		µg/L	1	3/2/2016 6:11:37 PM	23981
Benzoic acid	ND	9.8	20		µg/L	1	3/2/2016 6:11:37 PM	23981
Benzyl alcohol	ND	8.0	10		µg/L	1	3/2/2016 6:11:37 PM	23981
Bis(2-chloroethoxy)methane	ND	7.3	10		µg/L	1	3/2/2016 6:11:37 PM	23981
Bis(2-chloroethyl)ether	ND	8.3	10		µg/L	1	3/2/2016 6:11:37 PM	23981
Bis(2-chloroisopropyl)ether	ND	9.1	10		µg/L	1	3/2/2016 6:11:37 PM	23981
Bis(2-ethylhexyl)phthalate	ND	7.5	10		µg/L	1	3/2/2016 6:11:37 PM	23981
4-Bromophenyl phenyl ether	ND	8.6	10		µg/L	1	3/2/2016 6:11:37 PM	23981
Butyl benzyl phthalate	ND	7.8	10		µg/L	1	3/2/2016 6:11:37 PM	23981
Carbazole	ND	7.2	10		µg/L	1	3/2/2016 6:11:37 PM	23981
4-Chloro-3-methylphenol	ND	8.0	10		µg/L	1	3/2/2016 6:11:37 PM	23981
4-Chloroaniline	ND	7.1	10		µg/L	1	3/2/2016 6:11:37 PM	23981
2-Chloronaphthalene	ND	7.2	10		µg/L	1	3/2/2016 6:11:37 PM	23981
2-Chlorophenol	ND	8.7	10		µg/L	1	3/2/2016 6:11:37 PM	23981
4-Chlorophenyl phenyl ether	ND	8.2	10		µg/L	1	3/2/2016 6:11:37 PM	23981
Chrysene	ND	6.6	10		µg/L	1	3/2/2016 6:11:37 PM	23981
Di-n-butyl phthalate	ND	8.1	10		µg/L	1	3/2/2016 6:11:37 PM	23981
Di-n-octyl phthalate	ND	6.3	10		µg/L	1	3/2/2016 6:11:37 PM	23981

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Project: Quarterly GW Sampling

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Lab ID: 1602A45-007

Matrix: AQUEOUS

Received Date: 2/25/2016 8:16:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: DAM	
Dibenz(a,h)anthracene	ND	6.8	10		µg/L	1	3/2/2016 6:11:37 PM	23981
Dibenzofuran	ND	8.6	10		µg/L	1	3/2/2016 6:11:37 PM	23981
1,2-Dichlorobenzene	ND	6.4	10		µg/L	1	3/2/2016 6:11:37 PM	23981
1,3-Dichlorobenzene	ND	6.1	10		µg/L	1	3/2/2016 6:11:37 PM	23981
1,4-Dichlorobenzene	ND	6.3	10		µg/L	1	3/2/2016 6:11:37 PM	23981
3,3'-Dichlorobenzidine	ND	4.7	10		µg/L	1	3/2/2016 6:11:37 PM	23981
Diethyl phthalate	ND	8.2	10		µg/L	1	3/2/2016 6:11:37 PM	23981
Dimethyl phthalate	ND	7.5	10		µg/L	1	3/2/2016 6:11:37 PM	23981
2,4-Dichlorophenol	ND	7.6	20		µg/L	1	3/2/2016 6:11:37 PM	23981
2,4-Dimethylphenol	ND	4.7	10		µg/L	1	3/2/2016 6:11:37 PM	23981
4,6-Dinitro-2-methylphenol	ND	7.3	20		µg/L	1	3/2/2016 6:11:37 PM	23981
2,4-Dinitrophenol	ND	9.9	20		µg/L	1	3/2/2016 6:11:37 PM	23981
2,4-Dinitrotoluene	ND	8.5	10		µg/L	1	3/2/2016 6:11:37 PM	23981
2,6-Dinitrotoluene	ND	7.5	10		µg/L	1	3/2/2016 6:11:37 PM	23981
Fluoranthene	ND	6.1	10		µg/L	1	3/2/2016 6:11:37 PM	23981
Fluorene	ND	7.2	10		µg/L	1	3/2/2016 6:11:37 PM	23981
Hexachlorobenzene	ND	7.1	10		µg/L	1	3/2/2016 6:11:37 PM	23981
Hexachlorobutadiene	ND	5.2	10		µg/L	1	3/2/2016 6:11:37 PM	23981
Hexachlorocyclopentadiene	ND	5.2	10		µg/L	1	3/2/2016 6:11:37 PM	23981
Hexachloroethane	ND	5.8	10		µg/L	1	3/2/2016 6:11:37 PM	23981
Indeno(1,2,3-cd)pyrene	ND	5.6	10		µg/L	1	3/2/2016 6:11:37 PM	23981
Isophorone	ND	8.1	10		µg/L	1	3/2/2016 6:11:37 PM	23981
1-Methylnaphthalene	ND	6.8	10		µg/L	1	3/2/2016 6:11:37 PM	23981
2-Methylnaphthalene	ND	7.0	10		µg/L	1	3/2/2016 6:11:37 PM	23981
2-Methylphenol	ND	8.2	10		µg/L	1	3/2/2016 6:11:37 PM	23981
3+4-Methylphenol	ND	7.1	10		µg/L	1	3/2/2016 6:11:37 PM	23981
N-Nitrosodi-n-propylamine	ND	7.8	10		µg/L	1	3/2/2016 6:11:37 PM	23981
N-Nitrosodimethylamine	ND	9.1	10		µg/L	1	3/2/2016 6:11:37 PM	23981
N-Nitrosodiphenylamine	ND	6.2	10		µg/L	1	3/2/2016 6:11:37 PM	23981
Naphthalene	ND	5.9	10		µg/L	1	3/2/2016 6:11:37 PM	23981
2-Nitroaniline	ND	9.0	10		µg/L	1	3/2/2016 6:11:37 PM	23981
3-Nitroaniline	ND	8.8	10		µg/L	1	3/2/2016 6:11:37 PM	23981
4-Nitroaniline	ND	9.1	10		µg/L	1	3/2/2016 6:11:37 PM	23981
Nitrobenzene	ND	7.8	10		µg/L	1	3/2/2016 6:11:37 PM	23981
2-Nitrophenol	ND	7.6	10		µg/L	1	3/2/2016 6:11:37 PM	23981
4-Nitrophenol	ND	6.7	10		µg/L	1	3/2/2016 6:11:37 PM	23981
Pentachlorophenol	ND	7.6	20		µg/L	1	3/2/2016 6:11:37 PM	23981
Phenanthrene	ND	6.8	10		µg/L	1	3/2/2016 6:11:37 PM	23981
Phenol	ND	5.1	10		µg/L	1	3/2/2016 6:11:37 PM	23981

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	D	Sample Diluted Due to Matrix	E	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	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
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Analytical Report

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CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-30

Project: Quarterly GW Sampling

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Received Date: 2/25/2016 8:16:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: DAM	
Pyrene	ND	5.5	10		µg/L	1	3/2/2016 6:11:37 PM	23981
Pyridine	ND	6.7	10		µg/L	1	3/2/2016 6:11:37 PM	23981
1,2,4-Trichlorobenzene	ND	6.2	10		µg/L	1	3/2/2016 6:11:37 PM	23981
2,4,5-Trichlorophenol	ND	8.4	10		µg/L	1	3/2/2016 6:11:37 PM	23981
2,4,6-Trichlorophenol	ND	8.8	10		µg/L	1	3/2/2016 6:11:37 PM	23981
Surr: 2-Fluorophenol	53.8	0	4.63-113		%Rec	1	3/2/2016 6:11:37 PM	23981
Surr: Phenol-d5	41.9	0	4.13-124		%Rec	1	3/2/2016 6:11:37 PM	23981
Surr: 2,4,6-Tribromophenol	43.6	0	5.14-132		%Rec	1	3/2/2016 6:11:37 PM	23981
Surr: Nitrobenzene-d5	87.5	0	9.13-140		%Rec	1	3/2/2016 6:11:37 PM	23981
Surr: 2-Fluorobiphenyl	82.3	0	10.8-132		%Rec	1	3/2/2016 6:11:37 PM	23981
Surr: 4-Terphenyl-d14	104	0	12.9-107		%Rec	1	3/2/2016 6:11:37 PM	23981
EPA METHOD 8260B: VOLATILES							Analyst: DJF	
Benzene	ND	0.096	1.0		µg/L	1	2/26/2016 1:40:43 AM	R32418
Toluene	ND	0.089	1.0		µg/L	1	2/26/2016 1:40:43 AM	R32418
Ethylbenzene	ND	0.11	1.0		µg/L	1	2/26/2016 1:40:43 AM	R32418
Methyl tert-butyl ether (MTBE)	2.3	0.21	1.0		µg/L	1	2/26/2016 1:40:43 AM	R32418
1,2,4-Trimethylbenzene	ND	0.10	1.0		µg/L	1	2/26/2016 1:40:43 AM	R32418
1,3,5-Trimethylbenzene	ND	0.12	1.0		µg/L	1	2/26/2016 1:40:43 AM	R32418
1,2-Dichloroethane (EDC)	6.7	0.053	1.0		µg/L	1	2/26/2016 1:40:43 AM	R32418
1,2-Dibromoethane (EDB)	ND	0.11	1.0		µg/L	1	2/26/2016 1:40:43 AM	R32418
Naphthalene	ND	0.083	2.0		µg/L	1	2/26/2016 1:40:43 AM	R32418
1-Methylnaphthalene	ND	0.20	4.0		µg/L	1	2/26/2016 1:40:43 AM	R32418
2-Methylnaphthalene	ND	0.16	4.0		µg/L	1	2/26/2016 1:40:43 AM	R32418
Acetone	ND	0.88	10		µg/L	1	2/26/2016 1:40:43 AM	R32418
Bromobenzene	ND	0.080	1.0		µg/L	1	2/26/2016 1:40:43 AM	R32418
Bromodichloromethane	ND	0.098	1.0		µg/L	1	2/26/2016 1:40:43 AM	R32418
Bromoform	ND	0.10	1.0		µg/L	1	2/26/2016 1:40:43 AM	R32418
Bromomethane	ND	0.78	3.0		µg/L	1	2/26/2016 1:40:43 AM	R32418
2-Butanone	ND	0.32	10		µg/L	1	2/26/2016 1:40:43 AM	R32418
Carbon disulfide	ND	0.60	10		µg/L	1	2/26/2016 1:40:43 AM	R32418
Carbon Tetrachloride	ND	0.11	1.0		µg/L	1	2/26/2016 1:40:43 AM	R32418
Chlorobenzene	ND	0.10	1.0		µg/L	1	2/26/2016 1:40:43 AM	R32418
Chloroethane	0.39	0.15	2.0	J	µg/L	1	2/26/2016 1:40:43 AM	R32418
Chloroform	0.27	0.089	1.0	J	µg/L	1	2/26/2016 1:40:43 AM	R32418
Chloromethane	ND	0.21	3.0		µg/L	1	2/26/2016 1:40:43 AM	R32418
2-Chlorotoluene	ND	0.40	1.0		µg/L	1	2/26/2016 1:40:43 AM	R32418
4-Chlorotoluene	ND	0.13	1.0		µg/L	1	2/26/2016 1:40:43 AM	R32418
cis-1,2-DCE	12	0.12	1.0		µg/L	1	2/26/2016 1:40:43 AM	R32418
cis-1,3-Dichloropropene	ND	0.10	1.0		µg/L	1	2/26/2016 1:40:43 AM	R32418

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Matrix: AQUEOUS

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Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: DJF	
1,2-Dibromo-3-chloropropane	ND	0.15	2.0		µg/L	1	2/26/2016 1:40:43 AM	R32418
Dibromochloromethane	ND	0.087	1.0		µg/L	1	2/26/2016 1:40:43 AM	R32418
Dibromomethane	ND	0.12	1.0		µg/L	1	2/26/2016 1:40:43 AM	R32418
1,2-Dichlorobenzene	ND	0.40	1.0		µg/L	1	2/26/2016 1:40:43 AM	R32418
1,3-Dichlorobenzene	ND	0.14	1.0		µg/L	1	2/26/2016 1:40:43 AM	R32418
1,4-Dichlorobenzene	ND	0.14	1.0		µg/L	1	2/26/2016 1:40:43 AM	R32418
Dichlorodifluoromethane	ND	0.32	1.0		µg/L	1	2/26/2016 1:40:43 AM	R32418
1,1-Dichloroethane	130	1.1	10		µg/L	10	2/26/2016 1:12:26 AM	R32418
1,1-Dichloroethene	10	0.076	1.0		µg/L	1	2/26/2016 1:40:43 AM	R32418
1,2-Dichloropropane	ND	0.047	1.0		µg/L	1	2/26/2016 1:40:43 AM	R32418
1,3-Dichloropropane	ND	0.16	1.0		µg/L	1	2/26/2016 1:40:43 AM	R32418
2,2-Dichloropropane	ND	0.12	2.0		µg/L	1	2/26/2016 1:40:43 AM	R32418
1,1-Dichloropropene	ND	0.13	1.0		µg/L	1	2/26/2016 1:40:43 AM	R32418
Hexachlorobutadiene	ND	0.20	1.0		µg/L	1	2/26/2016 1:40:43 AM	R32418
2-Hexanone	ND	0.36	10		µg/L	1	2/26/2016 1:40:43 AM	R32418
Isopropylbenzene	ND	0.098	1.0		µg/L	1	2/26/2016 1:40:43 AM	R32418
4-Isopropyltoluene	ND	0.14	1.0		µg/L	1	2/26/2016 1:40:43 AM	R32418
4-Methyl-2-pentanone	ND	0.15	10		µg/L	1	2/26/2016 1:40:43 AM	R32418
Methylene Chloride	ND	0.063	3.0		µg/L	1	2/26/2016 1:40:43 AM	R32418
n-Butylbenzene	ND	0.16	3.0		µg/L	1	2/26/2016 1:40:43 AM	R32418
n-Propylbenzene	ND	0.13	1.0		µg/L	1	2/26/2016 1:40:43 AM	R32418
sec-Butylbenzene	ND	0.11	1.0		µg/L	1	2/26/2016 1:40:43 AM	R32418
Styrene	ND	0.095	1.0		µg/L	1	2/26/2016 1:40:43 AM	R32418
tert-Butylbenzene	ND	0.096	1.0		µg/L	1	2/26/2016 1:40:43 AM	R32418
1,1,1,2-Tetrachloroethane	ND	0.11	1.0		µg/L	1	2/26/2016 1:40:43 AM	R32418
1,1,2,2-Tetrachloroethane	ND	0.11	2.0		µg/L	1	2/26/2016 1:40:43 AM	R32418
Tetrachloroethene (PCE)	0.65	0.15	1.0	J	µg/L	1	2/26/2016 1:40:43 AM	R32418
trans-1,2-DCE	ND	0.40	1.0		µg/L	1	2/26/2016 1:40:43 AM	R32418
trans-1,3-Dichloropropene	ND	0.085	1.0		µg/L	1	2/26/2016 1:40:43 AM	R32418
1,2,3-Trichlorobenzene	ND	0.11	1.0		µg/L	1	2/26/2016 1:40:43 AM	R32418
1,2,4-Trichlorobenzene	ND	0.13	1.0		µg/L	1	2/26/2016 1:40:43 AM	R32418
1,1,1-Trichloroethane	3.7	0.063	1.0		µg/L	1	2/26/2016 1:40:43 AM	R32418
1,1,2-Trichloroethane	1.4	0.077	1.0		µg/L	1	2/26/2016 1:40:43 AM	R32418
Trichloroethene (TCE)	8.0	0.18	1.0		µg/L	1	2/26/2016 1:40:43 AM	R32418
Trichlorofluoromethane	ND	0.088	1.0		µg/L	1	2/26/2016 1:40:43 AM	R32418
1,2,3-Trichloropropane	ND	0.11	2.0		µg/L	1	2/26/2016 1:40:43 AM	R32418
Vinyl chloride	ND	0.063	1.0		µg/L	1	2/26/2016 1:40:43 AM	R32418
Xylenes, Total	ND	0.32	1.5		µg/L	1	2/26/2016 1:40:43 AM	R32418
Surr: 1,2-Dichloroethane-d4	96.0	0	70-130		%Rec	1	2/26/2016 1:40:43 AM	R32418

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1602A45

Date Reported: 3/31/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-30

Project: Quarterly GW Sampling

Collection Date: 2/23/2016 3:45:00 PM

Lab ID: 1602A45-007

Matrix: AQUEOUS

Received Date: 2/25/2016 8:16:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: DJF	
Surr: 4-Bromofluorobenzene	105	0	70-130		%Rec	1	2/26/2016 1:40:43 AM	R32418
Surr: Dibromofluoromethane	95.9	0	70-130		%Rec	1	2/26/2016 1:40:43 AM	R32418
Surr: Toluene-d8	104	0	70-130		%Rec	1	2/26/2016 1:40:43 AM	R32418

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1602A45

Date Reported: 3/31/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: TRIP BLANK

Project: Quarterly GW Sampling

Collection Date:

Lab ID: 1602A45-008

Matrix: TRIP BLANK

Received Date: 2/25/2016 8:16:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB	
Gasoline Range Organics (GRO)	ND	0.025	0.050		mg/L	1	2/25/2016 7:02:04 PM	R32416
Surr: BFB	84.0	0	49.5-130		%Rec	1	2/25/2016 7:02:04 PM	R32416
EPA METHOD 8260B: VOLATILES							Analyst: DJF	
Benzene	ND	0.096	1.0		µg/L	1	2/26/2016 2:09:02 AM	R32418
Toluene	ND	0.089	1.0		µg/L	1	2/26/2016 2:09:02 AM	R32418
Ethylbenzene	ND	0.11	1.0		µg/L	1	2/26/2016 2:09:02 AM	R32418
Methyl tert-butyl ether (MTBE)	ND	0.21	1.0		µg/L	1	2/26/2016 2:09:02 AM	R32418
1,2,4-Trimethylbenzene	ND	0.10	1.0		µg/L	1	2/26/2016 2:09:02 AM	R32418
1,3,5-Trimethylbenzene	ND	0.12	1.0		µg/L	1	2/26/2016 2:09:02 AM	R32418
1,2-Dichloroethane (EDC)	ND	0.053	1.0		µg/L	1	2/26/2016 2:09:02 AM	R32418
1,2-Dibromoethane (EDB)	ND	0.11	1.0		µg/L	1	2/26/2016 2:09:02 AM	R32418
Naphthalene	ND	0.083	2.0		µg/L	1	2/26/2016 2:09:02 AM	R32418
1-Methylnaphthalene	ND	0.20	4.0		µg/L	1	2/26/2016 2:09:02 AM	R32418
2-Methylnaphthalene	ND	0.16	4.0		µg/L	1	2/26/2016 2:09:02 AM	R32418
Acetone	ND	0.88	10		µg/L	1	2/26/2016 2:09:02 AM	R32418
Bromobenzene	ND	0.080	1.0		µg/L	1	2/26/2016 2:09:02 AM	R32418
Bromodichloromethane	ND	0.098	1.0		µg/L	1	2/26/2016 2:09:02 AM	R32418
Bromoform	ND	0.10	1.0		µg/L	1	2/26/2016 2:09:02 AM	R32418
Bromomethane	ND	0.78	3.0		µg/L	1	2/26/2016 2:09:02 AM	R32418
2-Butanone	ND	0.32	10		µg/L	1	2/26/2016 2:09:02 AM	R32418
Carbon disulfide	ND	0.60	10		µg/L	1	2/26/2016 2:09:02 AM	R32418
Carbon Tetrachloride	ND	0.11	1.0		µg/L	1	2/26/2016 2:09:02 AM	R32418
Chlorobenzene	ND	0.10	1.0		µg/L	1	2/26/2016 2:09:02 AM	R32418
Chloroethane	ND	0.15	2.0		µg/L	1	2/26/2016 2:09:02 AM	R32418
Chloroform	ND	0.089	1.0		µg/L	1	2/26/2016 2:09:02 AM	R32418
Chloromethane	ND	0.21	3.0		µg/L	1	2/26/2016 2:09:02 AM	R32418
2-Chlorotoluene	ND	0.40	1.0		µg/L	1	2/26/2016 2:09:02 AM	R32418
4-Chlorotoluene	ND	0.13	1.0		µg/L	1	2/26/2016 2:09:02 AM	R32418
cis-1,2-DCE	ND	0.12	1.0		µg/L	1	2/26/2016 2:09:02 AM	R32418
cis-1,3-Dichloropropene	ND	0.10	1.0		µg/L	1	2/26/2016 2:09:02 AM	R32418
1,2-Dibromo-3-chloropropane	ND	0.15	2.0		µg/L	1	2/26/2016 2:09:02 AM	R32418
Dibromochloromethane	ND	0.087	1.0		µg/L	1	2/26/2016 2:09:02 AM	R32418
Dibromomethane	ND	0.12	1.0		µg/L	1	2/26/2016 2:09:02 AM	R32418
1,2-Dichlorobenzene	ND	0.40	1.0		µg/L	1	2/26/2016 2:09:02 AM	R32418
1,3-Dichlorobenzene	ND	0.14	1.0		µg/L	1	2/26/2016 2:09:02 AM	R32418
1,4-Dichlorobenzene	ND	0.14	1.0		µg/L	1	2/26/2016 2:09:02 AM	R32418
Dichlorodifluoromethane	ND	0.32	1.0		µg/L	1	2/26/2016 2:09:02 AM	R32418
1,1-Dichloroethane	ND	0.11	1.0		µg/L	1	2/26/2016 2:09:02 AM	R32418
1,1-Dichloroethene	ND	0.076	1.0		µg/L	1	2/26/2016 2:09:02 AM	R32418

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1602A45

Date Reported: 3/31/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: TRIP BLANK

Project: Quarterly GW Sampling

Collection Date:

Lab ID: 1602A45-008

Matrix: TRIP BLANK

Received Date: 2/25/2016 8:16:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: DJF	
1,2-Dichloropropane	ND	0.047	1.0		µg/L	1	2/26/2016 2:09:02 AM	R32418
1,3-Dichloropropane	ND	0.16	1.0		µg/L	1	2/26/2016 2:09:02 AM	R32418
2,2-Dichloropropane	ND	0.12	2.0		µg/L	1	2/26/2016 2:09:02 AM	R32418
1,1-Dichloropropene	ND	0.13	1.0		µg/L	1	2/26/2016 2:09:02 AM	R32418
Hexachlorobutadiene	ND	0.20	1.0		µg/L	1	2/26/2016 2:09:02 AM	R32418
2-Hexanone	ND	0.36	10		µg/L	1	2/26/2016 2:09:02 AM	R32418
Isopropylbenzene	ND	0.098	1.0		µg/L	1	2/26/2016 2:09:02 AM	R32418
4-Isopropyltoluene	ND	0.14	1.0		µg/L	1	2/26/2016 2:09:02 AM	R32418
4-Methyl-2-pentanone	ND	0.15	10		µg/L	1	2/26/2016 2:09:02 AM	R32418
Methylene Chloride	ND	0.063	3.0		µg/L	1	2/26/2016 2:09:02 AM	R32418
n-Butylbenzene	ND	0.16	3.0		µg/L	1	2/26/2016 2:09:02 AM	R32418
n-Propylbenzene	ND	0.13	1.0		µg/L	1	2/26/2016 2:09:02 AM	R32418
sec-Butylbenzene	ND	0.11	1.0		µg/L	1	2/26/2016 2:09:02 AM	R32418
Styrene	ND	0.095	1.0		µg/L	1	2/26/2016 2:09:02 AM	R32418
tert-Butylbenzene	ND	0.096	1.0		µg/L	1	2/26/2016 2:09:02 AM	R32418
1,1,1,2-Tetrachloroethane	ND	0.11	1.0		µg/L	1	2/26/2016 2:09:02 AM	R32418
1,1,2,2-Tetrachloroethane	ND	0.11	2.0		µg/L	1	2/26/2016 2:09:02 AM	R32418
Tetrachloroethene (PCE)	ND	0.15	1.0		µg/L	1	2/26/2016 2:09:02 AM	R32418
trans-1,2-DCE	ND	0.40	1.0		µg/L	1	2/26/2016 2:09:02 AM	R32418
trans-1,3-Dichloropropene	ND	0.085	1.0		µg/L	1	2/26/2016 2:09:02 AM	R32418
1,2,3-Trichlorobenzene	ND	0.11	1.0		µg/L	1	2/26/2016 2:09:02 AM	R32418
1,2,4-Trichlorobenzene	ND	0.13	1.0		µg/L	1	2/26/2016 2:09:02 AM	R32418
1,1,1-Trichloroethane	ND	0.063	1.0		µg/L	1	2/26/2016 2:09:02 AM	R32418
1,1,2-Trichloroethane	ND	0.077	1.0		µg/L	1	2/26/2016 2:09:02 AM	R32418
Trichloroethene (TCE)	ND	0.18	1.0		µg/L	1	2/26/2016 2:09:02 AM	R32418
Trichlorofluoromethane	ND	0.088	1.0		µg/L	1	2/26/2016 2:09:02 AM	R32418
1,2,3-Trichloropropane	ND	0.11	2.0		µg/L	1	2/26/2016 2:09:02 AM	R32418
Vinyl chloride	ND	0.063	1.0		µg/L	1	2/26/2016 2:09:02 AM	R32418
Xylenes, Total	ND	0.32	1.5		µg/L	1	2/26/2016 2:09:02 AM	R32418
Surr: 1,2-Dichloroethane-d4	96.7	0	70-130		%Rec	1	2/26/2016 2:09:02 AM	R32418
Surr: 4-Bromofluorobenzene	109	0	70-130		%Rec	1	2/26/2016 2:09:02 AM	R32418
Surr: Dibromofluoromethane	96.0	0	70-130		%Rec	1	2/26/2016 2:09:02 AM	R32418
Surr: Toluene-d8	103	0	70-130		%Rec	1	2/26/2016 2:09:02 AM	R32418

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E 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	P Sample pH Not In Range
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1602A45

31-Mar-16

Client: Western Refining Southwest, Gallup

Project: Quarterly GW Sampling

Sample ID MB-A	SampType: MBLK			TestCode: EPA Method 200.7: Dissolved Metals						
Client ID: PBW	Batch ID: A32539			RunNo: 32539						
Prep Date:	Analysis Date: 3/2/2016			SeqNo: 995471		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								
Magnesium	ND	1.0								
Manganese	ND	0.0020								
Potassium	ND	1.0								
Silver	ND	0.0050								
Zinc	ND	0.010								

Sample ID LCS-A	SampType: LCS			TestCode: EPA Method 200.7: Dissolved Metals						
Client ID: LCSW	Batch ID: A32539			RunNo: 32539						
Prep Date:	Analysis Date: 3/2/2016			SeqNo: 995472		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	94.8	85	115			
Cadmium	0.49	0.0020	0.5000	0	98.5	85	115			
Calcium	49	1.0	50.00	0	98.3	85	115			
Chromium	0.47	0.0060	0.5000	0	94.6	85	115			
Copper	0.48	0.0060	0.5000	0	95.8	85	115			
Iron	0.47	0.020	0.5000	0	93.4	85	115			
Magnesium	50	1.0	50.00	0	99.1	85	115			
Manganese	0.46	0.0020	0.5000	0	91.9	85	115			
Potassium	48	1.0	50.00	0	95.8	85	115			
Silver	0.098	0.0050	0.1000	0	97.5	85	115			
Zinc	0.47	0.010	0.5000	0	93.6	85	115			

Sample ID LLCS-A	SampType: LCSLL			TestCode: EPA Method 200.7: Dissolved Metals						
Client ID: BatchQC	Batch ID: A32539			RunNo: 32539						
Prep Date:	Analysis Date: 3/2/2016			SeqNo: 995473		Units: mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Barium	0.0017	0.0020	0.002000	0	86.5	50	150			J
Cadmium	0.0022	0.0020	0.002000	0	108	50	150			
Calcium	0.51	1.0	0.5000	0	101	50	150			J
Chromium	0.0063	0.0060	0.006000	0	106	50	150			
Copper	0.0074	0.0060	0.006000	0	124	50	150			
Iron	0.021	0.020	0.02000	0	106	50	150			

Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E 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	P Sample pH Not In Range
R RPD outside accepted recovery limits	RL Reporting Detection Limit
S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1602A45

31-Mar-16

Client: Western Refining Southwest, Gallup

Project: Quarterly GW Sampling

Sample ID LLLCS-A	SampType: LCSLL			TestCode: EPA Method 200.7: Dissolved Metals						
Client ID: BatchQC	Batch ID: A32539			RunNo: 32539						
Prep Date:	Analysis Date: 3/2/2016			SeqNo: 995473			Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Magnesium	0.53	1.0	0.5000	0	107	50	150			J
Manganese	0.0021	0.0020	0.002000	0	106	50	150			
Potassium	0.55	1.0	0.5000	0	110	50	150			J
Silver	0.0048	0.0050	0.005000	0	95.8	50	150			J
Zinc	0.0049	0.010	0.005000	0	98.8	50	150			J

Sample ID MB-B	SampType: MBLK			TestCode: EPA Method 200.7: Dissolved Metals						
Client ID: PBW	Batch ID: B32673			RunNo: 32673						
Prep Date:	Analysis Date: 3/9/2016			SeqNo: 999902			Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sodium	ND	1.0								

Sample ID LCS-B	SampType: LCS			TestCode: EPA Method 200.7: Dissolved Metals						
Client ID: LCSW	Batch ID: B32673			RunNo: 32673						
Prep Date:	Analysis Date: 3/9/2016			SeqNo: 999903			Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sodium	53	1.0	50.00	0	105	85	115			

Sample ID LLLCS-B	SampType: LCSLL			TestCode: EPA Method 200.7: Dissolved Metals						
Client ID: BatchQC	Batch ID: B32673			RunNo: 32673						
Prep Date:	Analysis Date: 3/9/2016			SeqNo: 999904			Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sodium	0.49	1.0	0.5000	0	97.1	50	150			J

Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E 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	P Sample pH Not In Range
R RPD outside accepted recovery limits	RL Reporting Detection Limit
S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1602A45

31-Mar-16

Client: Western Refining Southwest, Gallup

Project: Quarterly GW Sampling

Sample ID	MB-23939		SampType:	MBLK		TestCode:	EPA Method 200.7: Total Metals			
Client ID:	PBW		Batch ID:	23939		RunNo:	32475			
Prep Date:	2/25/2016		Analysis Date:	3/1/2016		SeqNo:	993256		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	0.012	0.020								J
Manganese	ND	0.0020								
Silver	ND	0.0050								

Sample ID	LCS-23939		SampType:	LCS		TestCode:	EPA Method 200.7: Total Metals			
Client ID:	LCSW		Batch ID:	23939		RunNo:	32475			
Prep Date:	2/25/2016		Analysis Date:	3/1/2016		SeqNo:	993257		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	98.5	85	115			
Cadmium	0.52	0.0020	0.5000	0	103	85	115			
Chromium	0.50	0.0060	0.5000	0	99.3	85	115			
Copper	0.49	0.0060	0.5000	0	98.1	85	115			
Iron	0.50	0.020	0.5000	0	99.6	85	115			
Manganese	0.48	0.0020	0.5000	0	95.9	85	115			
Silver	0.10	0.0050	0.1000	0	100	85	115			

Sample ID	LLLCS-23939		SampType:	LCSLL		TestCode:	EPA Method 200.7: Total Metals			
Client ID:	BatchQC		Batch ID:	23939		RunNo:	32475			
Prep Date:	2/25/2016		Analysis Date:	3/1/2016		SeqNo:	993258		Units:	mg/L
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.0023	0.0020	0.002000	0	117	50	150			
Cadmium	0.0021	0.0020	0.002000	0	106	50	150			
Chromium	0.0067	0.0060	0.006000	0	112	50	150			
Copper	0.0066	0.0060	0.006000	0	111	50	150			
Iron	0.021	0.020	0.02000	0	106	50	150			
Manganese	0.0021	0.0020	0.002000	0	103	50	150			
Silver	0.0050	0.0050	0.005000	0	101	50	150			

Sample ID	MB-24075		SampType:	MBLK		TestCode:	EPA Method 200.7: Total Metals			
Client ID:	PBW		Batch ID:	24075		RunNo:	32607			
Prep Date:	3/3/2016		Analysis Date:	3/7/2016		SeqNo:	997674		Units:	mg/L
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Zinc	ND	0.010								

Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E 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	P Sample pH Not In Range
R RPD outside accepted recovery limits	RL Reporting Detection Limit
S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1602A45

31-Mar-16

Client: Western Refining Southwest, Gallup

Project: Quarterly GW Sampling

Sample ID	LCS-24075			SampType:	LCS		TestCode:	EPA Method 200.7: Total Metals				
Client ID:	LCSW			Batch ID:	24075		RunNo:	32607				
Prep Date:	3/3/2016			Analysis Date:	3/7/2016		SeqNo:	997675			Units:	mg/L
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Zinc	0.50	0.010	0.5000	0	101	85	115					

Sample ID	LLLCS-24075		SampType: LCSLL		TestCode: EPA Method 200.7: Total Metals					
Client ID:	BatchQC		Batch ID: 24075		RunNo: 32607					
Prep Date:	3/3/2016		Analysis Date: 3/7/2016		SeqNo: 997676		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Zinc	0.0057	0.010	0.005000	0	115	50	150			J

Sample ID	1602A45-001FMS		SampType: MS		TestCode: EPA Method 200.7: Total Metals					
Client ID:	MKTF-28		Batch ID: 24075		RunNo: 32607					
Prep Date:	3/3/2016		Analysis Date: 3/7/2016		SeqNo: 998055		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Zinc	0.52	0.010	0.5000	0.01788	101	70	130			

Sample ID	1602A45-001FMSD		SampType:	MSD		TestCode:	EPA Method 200.7: Total Metals				
Client ID:	MKTF-28		Batch ID:	24075		RunNo:	32607				
Prep Date:	3/3/2016		Analysis Date:	3/7/2016		SeqNo:	998056		Units: mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Zinc	0.51	0.010	0.5000	0.01788	97.6	70	130	2.96	20		

Sample ID	1602A45-002FMS		SampType: MS			TestCode: EPA Method 200.7: Total Metals				
Client ID:	MKTF-29		Batch ID: 24075			RunNo: 32607				
Prep Date:	3/3/2016		Analysis Date: 3/7/2016			SeqNo: 998061		Units: mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Zinc	0.50	0.010	0.5000	0.004370	98.3	70	130			

Sample ID	1602A45-002FMSD		SampType: MSD		TestCode: EPA Method 200.7: Total Metals					
Client ID:	MKTF-29		Batch ID: 24075		RunNo: 32607					
Prep Date:	3/3/2016		Analysis Date: 3/7/2016		SeqNo: 998062		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Zinc	0.49	0.010	0.5000	0.004370	96.2	70	130	2.17	20	

Qualifiers:

- | | |
|---|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E 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 | P Sample pH Not In Range |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1602A45

31-Mar-16

Client: Western Refining Southwest, Gallup

Project: Quarterly GW Sampling

Sample ID LCS	SampType: LCS				TestCode: EPA 200.8: Dissolved Metals					
Client ID: LCSW	Batch ID: B32730				RunNo: 32730					
Prep Date:	Analysis Date: 3/10/2016				SeqNo: 1001719		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.023	0.0010	0.02500	0	92.3	85	115			
Lead	0.012	0.00050	0.01250	0	93.0	85	115			
Selenium	0.024	0.0010	0.02500	0	94.0	85	115			
Uranium	0.012	0.00050	0.01250	0	93.5	85	115			

Sample ID LLCS	SampType: LCSLL				TestCode: EPA 200.8: Dissolved Metals					
Client ID: BatchQC	Batch ID: B32730				RunNo: 32730					
Prep Date:	Analysis Date: 3/10/2016				SeqNo: 1001720		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.00093	0.0010	0.001000	0	93.3	50	150			J
Lead	0.00048	0.00050	0.0005000	0	96.9	50	150			J
Selenium	0.0010	0.0010	0.001000	0	105	50	150			
Uranium	0.00047	0.00050	0.0005000	0	94.8	50	150			J

Sample ID MB	SampType: MBLK				TestCode: EPA 200.8: Dissolved Metals					
Client ID: PBW	Batch ID: B32730				RunNo: 32730					
Prep Date:	Analysis Date: 3/10/2016				SeqNo: 1001721		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.0010								
Lead	ND	0.00050								
Selenium	ND	0.0010								
Uranium	0.000015	0.00050								J

Sample ID LCS	SampType: LCS				TestCode: EPA 200.8: Dissolved Metals					
Client ID: LCSW	Batch ID: B32805				RunNo: 32805					
Prep Date:	Analysis Date: 3/15/2016				SeqNo: 1005252		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.024	0.0010	0.02500	0	96.4	85	115			
Lead	0.012	0.00050	0.01250	0	95.3	85	115			
Selenium	0.024	0.0010	0.02500	0	97.6	85	115			
Uranium	0.012	0.00050	0.01250	0	95.3	85	115			

Sample ID LLCS	SampType: LCSLL				TestCode: EPA 200.8: Dissolved Metals					
Client ID: BatchQC	Batch ID: B32805				RunNo: 32805					
Prep Date:	Analysis Date: 3/15/2016				SeqNo: 1005254		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
D Sample Diluted Due to Matrix	E 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	P Sample pH Not In Range
R RPD outside accepted recovery limits	RL Reporting Detection Limit
S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1602A45

31-Mar-16

Client: Western Refining Southwest, Gallup

Project: Quarterly GW Sampling

Sample ID	LLLCS		SampType: LCSLL		TestCode: EPA 200.8: Dissolved Metals					
Client ID:	BatchQC		Batch ID: B32805		RunNo: 32805					
Prep Date:			Analysis Date: 3/15/2016		SeqNo: 1005254		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.00099	0.0010	0.001000	0	99.3	50	150			J
Lead	0.00049	0.00050	0.0005000	0	98.7	50	150			J
Selenium	0.0010	0.0010	0.001000	0	102	50	150			
Uranium	0.00047	0.00050	0.0005000	0	94.6	50	150			J

Sample ID	MB		SampType: MBLK		TestCode: EPA 200.8: Dissolved Metals					
Client ID:	PBW		Batch ID: B32805		RunNo: 32805					
Prep Date:			Analysis Date: 3/15/2016		SeqNo: 1005256		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.0010								
Lead	ND	0.00050								
Selenium	ND	0.0010								
Uranium	ND	0.00050								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	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	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1602A45

31-Mar-16

Client: Western Refining Southwest, Gallup

Project: Quarterly GW Sampling

Sample ID	1602A45-003FMSLL		SampType:	MSLL		TestCode:	200.8 ICPMS Metals:Total			
Client ID:	MKTF-25		Batch ID:	24075		RunNo:	32687			
Prep Date:	3/3/2016		Analysis Date:	3/9/2016		SeqNo:	1000352	Units:	mg/L	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Selenium	0.026	0.0050	0.02500	0.002442	92.4	70	130			
Uranium	0.040	0.0025	0.01250	0.02941	85.4	70	130			

Sample ID	1602A45-003FMSLL		SampType:	MSLL		TestCode:	200.8 ICPMS Metals:Total			
Client ID:	MKTF-25		Batch ID:	24075		RunNo:	32687			
Prep Date:	3/3/2016		Analysis Date:	3/9/2016		SeqNo:	1000353	Units:	mg/L	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.026	0.0010	0.02500	0.002789	91.0	70	130			
Lead	0.017	0.00050	0.01250	0.002825	110	70	130			

Sample ID	1602A45-005FMSDL		SampType:	MSDLL		TestCode:	200.8 ICPMS Metals:Total			
Client ID:	MKTF-31		Batch ID:	24075		RunNo:	32687			
Prep Date:	3/3/2016		Analysis Date:	3/9/2016		SeqNo:	1000356	Units:	mg/L	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.027	0.0050	0.02500	0	108	70	130	1.84	20	
Selenium	0.028	0.0050	0.02500	0.002602	99.9	70	130	0.778	20	
Uranium	0.059	0.0025	0.01250	0.04483	113	70	130	1.51	20	

Sample ID	1602A45-005FMSDL		SampType:	MSDLL		TestCode:	200.8 ICPMS Metals:Total			
Client ID:	MKTF-31		Batch ID:	24075		RunNo:	32687			
Prep Date:	3/3/2016		Analysis Date:	3/9/2016		SeqNo:	1000357	Units:	mg/L	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	0.018	0.00050	0.01250	0.003584	113	70	130	0.362	20	

Sample ID	1602A45-005FMSLL		SampType:	MSLL		TestCode:	200.8 ICPMS Metals:Total			
Client ID:	MKTF-31		Batch ID:	24075		RunNo:	32687			
Prep Date:	3/3/2016		Analysis Date:	3/9/2016		SeqNo:	1000358	Units:	mg/L	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	0.018	0.00050	0.01250	0.003584	113	70	130			

Sample ID	1602A45-005FMSLL		SampType:	MSLL		TestCode:	200.8 ICPMS Metals:Total			
Client ID:	MKTF-31		Batch ID:	24075		RunNo:	32687			
Prep Date:	3/3/2016		Analysis Date:	3/9/2016		SeqNo:	1000359	Units:	mg/L	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.026	0.0050	0.02500	0	106	70	130			

Qualifiers:

- | | |
|---|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E 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 | P Sample pH Not In Range |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1602A45

31-Mar-16

Client: Western Refining Southwest, Gallup

Project: Quarterly GW Sampling

Sample ID	1602A45-005FMSLL		SampType:	MSLL		TestCode:	200.8 ICPMS Metals:Total			
Client ID:	MKTF-31		Batch ID:	24075		RunNo:	32687			
Prep Date:	3/3/2016		Analysis Date:	3/9/2016		SeqNo:	1000359	Units:	mg/L	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Selenium	0.027	0.0050	0.02500	0.002602	99.1	70	130			
Uranium	0.058	0.0025	0.01250	0.04483	105	70	130			

Sample ID	MB-24075		SampType:	MBLK		TestCode:	200.8 ICPMS Metals:Total			
Client ID:	PBW		Batch ID:	24075		RunNo:	32687			
Prep Date:	3/3/2016		Analysis Date:	3/9/2016		SeqNo:	1000380	Units:	mg/L	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.0010								
Lead	ND	0.00050								
Selenium	ND	0.0010								
Uranium	ND	0.00050								

Sample ID	MSLCS-24075		SampType:	LCS		TestCode:	200.8 ICPMS Metals:Total			
Client ID:	LCSW		Batch ID:	24075		RunNo:	32687			
Prep Date:	3/3/2016		Analysis Date:	3/9/2016		SeqNo:	1000383	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	99.1	85	115			
Lead	0.013	0.00050	0.01250	0	101	85	115			
Selenium	0.025	0.0010	0.02500	0	98.0	85	115			
Uranium	0.012	0.00050	0.01250	0	98.8	85	115			

Sample ID	MSLLCS-24075		SampType:	LCSLL		TestCode:	200.8 ICPMS Metals:Total			
Client ID:	BatchQC		Batch ID:	24075		RunNo:	32687			
Prep Date:	3/3/2016		Analysis Date:	3/9/2016		SeqNo:	1000386	Units:	mg/L	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.00087	0.0010	0.001000	0	86.9	50	150			J
Lead	0.00046	0.00050	0.0005000	0	91.5	50	150			J
Selenium	0.00081	0.0010	0.001000	0	81.0	50	150			J
Uranium	0.00044	0.00050	0.0005000	0	87.4	50	150			J

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Detection Limit
W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1602A45

31-Mar-16

Client: Western Refining Southwest, Gallup

Project: Quarterly GW Sampling

Sample ID	MB-23952		SampType: mblk		TestCode: EPA Method 245.1: Mercury					
Client ID:	PBW		Batch ID: 23952		RunNo: 32446					
Prep Date:	2/25/2016		Analysis Date: 2/26/2016		SeqNo: 992342		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercurv	0.000060	0.00020								J

Sample ID	LCS-23952		SampType: lcs		TestCode: EPA Method 245.1: Mercury					
Client ID:	LCSW		Batch ID: 23952		RunNo: 32446					
Prep Date:	2/25/2016		Analysis Date: 2/26/2016		SeqNo: 992343		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	101	80	120			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Detection Limit
W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1602A45

31-Mar-16

Client: Western Refining Southwest, Gallup

Project: Quarterly GW Sampling

Sample ID MB	SampType: MBLK			TestCode: EPA Method 300.0: Anions						
Client ID: PBW	Batch ID: R32424			RunNo: 32424						
Prep Date:	Analysis Date: 2/25/2016			SeqNo: 991478		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								
Bromide	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: R32424			RunNo: 32424						
Prep Date:	Analysis Date: 2/25/2016			SeqNo: 991479		Units: mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.49	0.10	0.5000	0	97.4	90	110			
Chloride	4.9	0.50	5.000	0	97.5	90	110			
Bromide	2.5	0.10	2.500	0	99.6	90	110			
Phosphorus, Orthophosphate (As P	4.9	0.50	5.000	0	98.4	90	110			
Sulfate	9.9	0.50	10.00	0	98.6	90	110			

Sample ID MB	SampType: MBLK			TestCode: EPA Method 300.0: Anions						
Client ID: PBW	Batch ID: R32480			RunNo: 32480						
Prep Date:	Analysis Date: 2/29/2016			SeqNo: 993501		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: R32480			RunNo: 32480						
Prep Date:	Analysis Date: 2/29/2016			SeqNo: 993502		Units: mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrate+Nitrite as N	3.7	0.20	3.500	0	106	90	110			

Sample ID MB	SampType: MBLK			TestCode: EPA Method 300.0: Anions						
Client ID: PBW	Batch ID: A32480			RunNo: 32480						
Prep Date:	Analysis Date: 2/29/2016			SeqNo: 993533		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. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E 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 | P Sample pH Not In Range |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1602A45

31-Mar-16

Client: Western Refining Southwest, Gallup

Project: Quarterly GW Sampling

Sample ID LCS	SampType: LCS			TestCode: EPA Method 300.0: Anions						
Client ID: LCSW	Batch ID: A32480			RunNo: 32480						
Prep Date:	Analysis Date: 2/29/2016			SeqNo: 993534		Units: mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrate+Nitrite as N	3.5	0.20	3.500	0	99.1	90	110			

Sample ID MB	SampType: MBLK			TestCode: EPA Method 300.0: Anions						
Client ID: PBW	Batch ID: R32498			RunNo: 32498						
Prep Date:	Analysis Date: 3/1/2016			SeqNo: 994128		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: R32498			RunNo: 32498						
Prep Date:	Analysis Date: 3/1/2016			SeqNo: 994129		Units: mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	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: A32498			RunNo: 32498						
Prep Date:	Analysis Date: 3/1/2016			SeqNo: 994156		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: A32498			RunNo: 32498						
Prep Date:	Analysis Date: 3/1/2016			SeqNo: 994157		Units: mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	5.0	0.50	5.000	0	99.9	90	110			

Sample ID MB	SampType: MBLK			TestCode: EPA Method 300.0: Anions						
Client ID: PBW	Batch ID: A32663			RunNo: 32663						
Prep Date:	Analysis Date: 3/8/2016			SeqNo: 999401		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. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E 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 | P Sample pH Not In Range |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1602A45

31-Mar-16

Client: Western Refining Southwest, Gallup

Project: Quarterly GW Sampling

Sample ID	LCS		SampType: LCS		TestCode: EPA Method 300.0: Anions					
Client ID:	LCSW		Batch ID: A32663		RunNo: 32663					
Prep Date:			Analysis Date: 3/8/2016		SeqNo: 999402		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrate+Nitrite as N	3.4	0.20	3.500	0	97.8	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	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	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1602A45

31-Mar-16

Client: Western Refining Southwest, Gallup

Project: Quarterly GW Sampling

Sample ID MB-23932	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range							
Client ID: PBW	Batch ID: 23932		RunNo: 32388							
Prep Date: 2/25/2016	Analysis Date: 2/25/2016		SeqNo: 990951		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	1.2		1.000		116	70	141			

Sample ID LCS-23932	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range							
Client ID: LCSW	Batch ID: 23932		RunNo: 32422							
Prep Date: 2/25/2016	Analysis Date: 2/26/2016		SeqNo: 991575		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	5.7	1.0	5.000	0	114	71.3	139			
Surr: DNOP	0.53		0.5000		106	70	141			

Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E 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	P Sample pH Not In Range
R RPD outside accepted recovery limits	RL Reporting Detection Limit
S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1602A45

31-Mar-16

Client: Western Refining Southwest, Gallup

Project: Quarterly GW Sampling

Sample ID	5ML RB	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBW	Batch ID:	R32416	RunNo:	32416					
Prep Date:		Analysis Date:	2/25/2016	SeqNo:	991284	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	49.5	130			

Sample ID	2.5UG GRO LCS	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSW	Batch ID:	R32416	RunNo:	32416					
Prep Date:		Analysis Date:	2/25/2016	SeqNo:	991285	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.46	0.050	0.5000	0	92.2	80	120			
Surr: BFB	20		20.00		102	49.5	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Detection Limit
W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1602A45

31-Mar-16

Client: Western Refining Southwest, Gallup

Project: Quarterly GW Sampling

Sample ID rb	SampType: MBLK			TestCode: EPA Method 8260B: VOLATILES						
Client ID: PBW	Batch ID: R32418			RunNo: 32418						
Prep Date:	Analysis Date: 2/25/2016			SeqNo: 991320		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	0.26	3.0								J
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								

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Detection Limit
W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1602A45

31-Mar-16

Client: Western Refining Southwest, Gallup

Project: Quarterly GW Sampling

Sample ID rb	SampType: MBLK			TestCode: EPA Method 8260B: VOLATILES						
Client ID: PBW	Batch ID: R32418			RunNo: 32418						
Prep Date:	Analysis Date: 2/25/2016			SeqNo: 991320		Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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	0.61	3.0								J
n-Butylbenzene	ND	3.0								
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	9.7		10.00		97.0	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		102	70	130			
Surr: Dibromofluoromethane	9.7		10.00		96.5	70	130			
Surr: Toluene-d8	11		10.00		105	70	130			

Sample ID 100ng lcs	SampType: LCS			TestCode: EPA Method 8260B: VOLATILES						
Client ID: LCSW	Batch ID: R32418			RunNo: 32418						
Prep Date:	Analysis Date: 2/25/2016			SeqNo: 991321		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	70	130			
Toluene	22	1.0	20.00	0	109	70	130			
Chlorobenzene	22	1.0	20.00	0	110	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	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	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1602A45

31-Mar-16

Client: Western Refining Southwest, Gallup

Project: Quarterly GW Sampling

Sample ID	100ng lcs	SampType: LCS			TestCode: EPA Method 8260B: VOLATILES					
Client ID:	LCSW	Batch ID: R32418			RunNo: 32418					
Prep Date:	Analysis Date: 2/25/2016			SeqNo: 991321		Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	19	1.0	20.00	0	95.6	70	130			
Trichloroethene (TCE)	20	1.0	20.00	0	98.7	70	130			
Surr: 1,2-Dichloroethane-d4	9.7		10.00		96.8	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		108	70	130			
Surr: Dibromofluoromethane	9.6		10.00		96.0	70	130			
Surr: Toluene-d8	10		10.00		103	70	130			

Sample ID	rb	SampType: MBLK			TestCode: EPA Method 8260B: VOLATILES					
Client ID:	PBW	Batch ID: R32445			RunNo: 32445					
Prep Date:		Analysis Date: 2/26/2016			SeqNo: 992178		Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	ND	1.0								
Surr: 1,2-Dichloroethane-d4	9.7		10.00		96.8	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		108	70	130			
Surr: Dibromofluoromethane	9.8		10.00		98.0	70	130			
Surr: Toluene-d8	11		10.00		106	70	130			

Sample ID	100ng lcs	SampType: LCS			TestCode: EPA Method 8260B: VOLATILES					
Client ID:	LCSW	Batch ID: R32445			RunNo: 32445					
Prep Date:	Analysis Date: 2/26/2016			SeqNo: 992179		Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	21	1.0	20.00	0	107	70	130			
Surr: 1,2-Dichloroethane-d4	9.6		10.00		96.3	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		109	70	130			
Surr: Dibromofluoromethane	9.4		10.00		93.9	70	130			
Surr: Toluene-d8	10		10.00		101	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E 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	P Sample pH Not In Range
R RPD outside accepted recovery limits	RL Reporting Detection Limit
S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1602A45

31-Mar-16

Client: Western Refining Southwest, Gallup

Project: Quarterly GW Sampling

Sample ID	mb-23981		SampType:	MBLK		TestCode:	EPA Method 8270C: Semivolatiles			
Client ID:	PBW		Batch ID:	23981		RunNo:	32524			
Prep Date:	2/29/2016		Analysis Date:	3/2/2016		SeqNo:	995048		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								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	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	P	Sample pH Not In Range
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S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1602A45

31-Mar-16

Client: Western Refining Southwest, Gallup

Project: Quarterly GW Sampling

Sample ID	mb-23981		SampType: MBLK			TestCode: EPA Method 8270C: Semivolatiles				
Client ID:	PBW		Batch ID: 23981			RunNo: 32524				
Prep Date:	2/29/2016		Analysis Date: 3/2/2016			SeqNo: 995048		Units: µg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2,4-Dinitrotoluene	ND	10								
2,6-Dinitrotoluene	ND	10								
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	10								
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-Fluorophenol	190		200.0		92.6	4.63	113			
Surr: Phenol-d5	190		200.0		94.1	4.13	124			
Surr: 2,4,6-Tribromophenol	94		200.0		47.2	5.14	132			
Surr: Nitrobenzene-d5	87		100.0		87.4	9.13	140			
Surr: 2-Fluorobiphenyl	87		100.0		86.9	10.8	132			
Surr: 4-Terphenyl-d14	110		100.0		110	12.9	107			S

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
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ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1602A45

31-Mar-16

Client: Western Refining Southwest, Gallup

Project: Quarterly GW Sampling

Sample ID	Ics-23981		SampType: LCS		TestCode: EPA Method 8270C: Semivolatiles					
Client ID:	LCSW		Batch ID: 23981		RunNo: 32524					
Prep Date:	2/29/2016		Analysis Date: 3/2/2016		SeqNo: 995049		Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	91	10	100.0	0	91.0	40.2	107			
4-Chloro-3-methylphenol	160	10	200.0	0	77.5	48.2	107			
2-Chlorophenol	160	10	200.0	0	81.6	42.5	106			
1,4-Dichlorobenzene	83	10	100.0	0	83.3	31.6	111			
2,4-Dinitrotoluene	68	10	100.0	0	67.8	33.6	86.5			
N-Nitrosodi-n-propylamine	85	10	100.0	0	84.8	44	106			
4-Nitrophenol	130	10	200.0	0	63.3	25.5	109			
Pentachlorophenol	97	20	200.0	0	48.6	38.8	97.8			
Phenol	170	10	200.0	0	84.5	22.7	116			
Pyrene	77	10	100.0	0	76.8	29.3	138			
1,2,4-Trichlorobenzene	84	10	100.0	0	83.6	35.3	123			
Surr: 2-Fluorophenol	160		200.0		80.0	4.63	113			
Surr: Phenol-d5	170		200.0		84.9	4.13	124			
Surr: 2,4,6-Tribromophenol	100		200.0		51.0	5.14	132			
Surr: Nitrobenzene-d5	84		100.0		84.1	9.13	140			
Surr: 2-Fluorobiphenyl	91		100.0		91.2	10.8	132			
Surr: 4-Terphenyl-d14	100		100.0		99.8	12.9	107			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	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	P	Sample pH Not In Range
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S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
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: 1602A45

RcptNo: 1

Received by/date:

AT 02/25/16

Logged By: Ashley Gallegos

2/25/2016 8:16:00 AM

Completed By: Ashley Gallegos

2/25/2016 9:03:29 AM

Reviewed By:

2 02/25/16

Chain of Custody

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

Log In

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

of preserved bottles checked for pH: 16

Adjusted? ☒ (2 or >12 unless noted)

Checked by: [Signature]

Special Handling (if applicable)

16. 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:

17. Additional remarks:

18. 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

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

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Remarks:

..... A more subtle, constructed data will be clearly notated on the analysis

ability. Any sub-sampled data will be closely related to



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

April 01, 2016

Cheryl Johnson

Western Refining Southwest, Gallup
92 Giant Crossing Road
Gallup, NM 87301
TEL: (505) 722-3833
FAX (505) 722-0210

RE: Quarterly GW Sampling

OrderNo.: 1602B49

Dear Cheryl Johnson:

Hall Environmental Analysis Laboratory received 21 sample(s) on 2/26/2016 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. In order to properly interpret your results it is imperative that you review this report in its entirety. 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. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. 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.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

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 1602B49

Date Reported: 4/1/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-19

Project: Quarterly GW Sampling

Collection Date: 2/25/2016 2:40:00 PM

Lab ID: 1602B49-001

Matrix: AQUEOUS

Received Date: 2/26/2016 4:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015M/D: DIESEL RANGE							Analyst: KJH	
Diesel Range Organics (DRO)	7.8	0.69	1.0		mg/L	1	3/1/2016 1:12:35 PM	24002
Motor Oil Range Organics (MRO)	ND	5.0	5.0		mg/L	1	3/1/2016 1:12:35 PM	24002
Surr: DNOP	90.8	0	70-141		%Rec	1	3/1/2016 1:12:35 PM	24002
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB	
Gasoline Range Organics (GRO)	22	0.51	1.0		mg/L	20	3/1/2016 3:44:31 PM	A32486
Surr: BFB	102	0	49.5-130		%Rec	20	3/1/2016 3:44:31 PM	A32486
EPA METHOD 300.0: ANIONS							Analyst: LGT	
Fluoride	0.24	0.11	0.50	J	mg/L	5	3/1/2016 4:23:45 AM	R32483
Chloride	150	0.55	10		mg/L	20	3/1/2016 4:36:09 AM	R32483
Bromide	1.6	0.16	0.50		mg/L	5	3/1/2016 4:23:45 AM	R32483
Phosphorus, Orthophosphate (As P)	ND	1.1	2.5	H	mg/L	5	3/1/2016 4:23:45 AM	R32483
Sulfate	ND	0.32	2.5		mg/L	5	3/1/2016 4:23:45 AM	R32483
Nitrate+Nitrite as N	ND	0.42	1.0		mg/L	5	2/29/2016 11:15:17 PM	A32480
EPA METHOD 200.7: DISSOLVED METALS							Analyst: MED	
Barium	1.7	0.0066	0.010		mg/L	5	3/15/2016 12:21:24 PM	A32792
Cadmium	ND	0.00075	0.0020		mg/L	1	3/11/2016 4:32:05 PM	C32754
Calcium	150	1.3	5.0		mg/L	5	3/16/2016 12:54:03 PM	D32831
Chromium	ND	0.0018	0.0060		mg/L	1	3/11/2016 4:32:05 PM	C32754
Copper	ND	0.0040	0.0060		mg/L	1	3/15/2016 12:19:41 PM	A32792
Iron	11	0.18	0.40	*	mg/L	20	3/16/2016 11:26:38 AM	B32831
Magnesium	30	0.013	1.0		mg/L	1	3/11/2016 4:32:05 PM	C32754
Manganese	3.1	0.0016	0.010	*	mg/L	5	3/15/2016 12:21:24 PM	A32792
Potassium	1.4	0.18	1.0		mg/L	1	3/11/2016 4:32:05 PM	C32754
Silver	ND	0.0028	0.0050		mg/L	1	3/11/2016 4:32:05 PM	C32754
Sodium	270	0.48	5.0		mg/L	5	3/16/2016 11:24:51 AM	B32831
Zinc	0.0097	0.0028	0.010	J	mg/L	1	3/16/2016 11:23:10 AM	B32831
EPA METHOD 200.7: TOTAL METALS							Analyst: ELS	
Barium	2.8	0.0053	0.010	*	mg/L	5	3/11/2016 2:31:41 PM	24015
Cadmium	ND	0.00062	0.0020		mg/L	1	3/11/2016 2:26:13 PM	24015
Chromium	0.012	0.0022	0.0060		mg/L	1	3/11/2016 2:26:13 PM	24015
Copper	0.018	0.0051	0.0060		mg/L	1	3/11/2016 2:26:13 PM	24015
Iron	23	0.36	1.0	*	mg/L	50	3/11/2016 2:42:50 PM	24015
Manganese	3.9	0.0076	0.010	*	mg/L	5	3/11/2016 2:31:41 PM	24015
Silver	ND	0.0021	0.0050		mg/L	1	3/23/2016 10:40:22 AM	24381
Zinc	0.080	0.0039	0.010		mg/L	1	3/11/2016 2:26:13 PM	24015
EPA 200.8: DISSOLVED METALS							Analyst: JLF	
Arsenic	0.015	0.000065	0.0010	*	mg/L	1	3/15/2016 5:12:15 PM	C32805

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1602B49

Date Reported: 4/1/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-19

Project: Quarterly GW Sampling

Collection Date: 2/25/2016 2:40:00 PM

Lab ID: 1602B49-001

Matrix: AQUEOUS

Received Date: 2/26/2016 4:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA 200.8: DISSOLVED METALS							Analyst: JLF	
Lead	0.0034	0.000026	0.00050		mg/L	1	3/15/2016 5:12:15 PM	C32805
Selenium	0.0038	0.0019	0.010	J	mg/L	10	3/24/2016 4:55:05 PM	B33051
Uranium	0.00060	0.0000048	0.00050		mg/L	1	3/15/2016 5:12:15 PM	C32805
200.8 ICPMS METALS:TOTAL							Analyst: JLF	
Arsenic	0.022	0.015	0.050	J*	mg/L	50	3/14/2016 5:32:45 PM	24015
Lead	0.069	0.00024	0.0025	*	mg/L	5	3/14/2016 4:20:56 PM	24015
Selenium	0.019	0.0062	0.050	J	mg/L	50	3/14/2016 5:32:45 PM	24015
Uranium	0.025	0.000025	0.0025		mg/L	5	3/14/2016 4:20:56 PM	24015
EPA METHOD 245.1: MERCURY							Analyst: DBD	
Mercury	ND	0.00027	0.0010		mg/L	5	3/2/2016 3:10:15 PM	24021
EPA METHOD 8270C: SEMIVOLATILES							Analyst: DAM	
Acenaphthene	ND	8.0	10		µg/L	1	3/2/2016 6:41:21 PM	23981
Acenaphthylene	ND	7.2	10		µg/L	1	3/2/2016 6:41:21 PM	23981
Aniline	ND	9.8	10		µg/L	1	3/2/2016 6:41:21 PM	23981
Anthracene	ND	6.6	10		µg/L	1	3/2/2016 6:41:21 PM	23981
Azobenzene	ND	9.3	10		µg/L	1	3/2/2016 6:41:21 PM	23981
Benz(a)anthracene	ND	6.1	10		µg/L	1	3/2/2016 6:41:21 PM	23981
Benzo(a)pyrene	ND	6.3	10		µg/L	1	3/2/2016 6:41:21 PM	23981
Benzo(b)fluoranthene	ND	6.6	10		µg/L	1	3/2/2016 6:41:21 PM	23981
Benzo(g,h,i)perylene	ND	6.8	10		µg/L	1	3/2/2016 6:41:21 PM	23981
Benzo(k)fluoranthene	ND	7.2	10		µg/L	1	3/2/2016 6:41:21 PM	23981
Benzoic acid	ND	9.8	20		µg/L	1	3/2/2016 6:41:21 PM	23981
Benzyl alcohol	ND	8.0	10		µg/L	1	3/2/2016 6:41:21 PM	23981
Bis(2-chloroethoxy)methane	ND	7.3	10		µg/L	1	3/2/2016 6:41:21 PM	23981
Bis(2-chloroethyl)ether	ND	8.3	10		µg/L	1	3/2/2016 6:41:21 PM	23981
Bis(2-chloroisopropyl)ether	ND	9.1	10		µg/L	1	3/2/2016 6:41:21 PM	23981
Bis(2-ethylhexyl)phthalate	ND	7.5	10		µg/L	1	3/2/2016 6:41:21 PM	23981
4-Bromophenyl phenyl ether	ND	8.6	10		µg/L	1	3/2/2016 6:41:21 PM	23981
Butyl benzyl phthalate	ND	7.8	10		µg/L	1	3/2/2016 6:41:21 PM	23981
Carbazole	10	7.2	10		µg/L	1	3/2/2016 6:41:21 PM	23981
4-Chloro-3-methylphenol	ND	8.0	10		µg/L	1	3/2/2016 6:41:21 PM	23981
4-Chloroaniline	ND	7.1	10		µg/L	1	3/2/2016 6:41:21 PM	23981
2-Chloronaphthalene	ND	7.2	10		µg/L	1	3/2/2016 6:41:21 PM	23981
2-Chlorophenol	ND	8.7	10		µg/L	1	3/2/2016 6:41:21 PM	23981
4-Chlorophenyl phenyl ether	ND	8.2	10		µg/L	1	3/2/2016 6:41:21 PM	23981
Chrysene	ND	6.6	10		µg/L	1	3/2/2016 6:41:21 PM	23981
Di-n-butyl phthalate	ND	8.1	10		µg/L	1	3/2/2016 6:41:21 PM	23981
Di-n-octyl phthalate	ND	6.3	10		µg/L	1	3/2/2016 6:41:21 PM	23981

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

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Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1602B49

Date Reported: 4/1/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-19

Project: Quarterly GW Sampling

Collection Date: 2/25/2016 2:40:00 PM

Lab ID: 1602B49-001

Matrix: AQUEOUS

Received Date: 2/26/2016 4:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: DAM	
Dibenz(a,h)anthracene	ND	6.8	10		µg/L	1	3/2/2016 6:41:21 PM	23981
Dibenzofuran	ND	8.6	10		µg/L	1	3/2/2016 6:41:21 PM	23981
1,2-Dichlorobenzene	ND	6.4	10		µg/L	1	3/2/2016 6:41:21 PM	23981
1,3-Dichlorobenzene	ND	6.1	10		µg/L	1	3/2/2016 6:41:21 PM	23981
1,4-Dichlorobenzene	ND	6.3	10		µg/L	1	3/2/2016 6:41:21 PM	23981
3,3'-Dichlorobenzidine	ND	4.7	10		µg/L	1	3/2/2016 6:41:21 PM	23981
Diethyl phthalate	ND	8.2	10		µg/L	1	3/2/2016 6:41:21 PM	23981
Dimethyl phthalate	ND	7.5	10		µg/L	1	3/2/2016 6:41:21 PM	23981
2,4-Dichlorophenol	ND	7.6	20		µg/L	1	3/2/2016 6:41:21 PM	23981
2,4-Dimethylphenol	ND	4.7	10		µg/L	1	3/2/2016 6:41:21 PM	23981
4,6-Dinitro-2-methylphenol	ND	7.3	20		µg/L	1	3/2/2016 6:41:21 PM	23981
2,4-Dinitrophenol	ND	9.9	20		µg/L	1	3/2/2016 6:41:21 PM	23981
2,4-Dinitrotoluene	ND	8.5	10		µg/L	1	3/2/2016 6:41:21 PM	23981
2,6-Dinitrotoluene	ND	7.5	10		µg/L	1	3/2/2016 6:41:21 PM	23981
Fluoranthene	ND	6.1	10		µg/L	1	3/2/2016 6:41:21 PM	23981
Fluorene	ND	7.2	10		µg/L	1	3/2/2016 6:41:21 PM	23981
Hexachlorobenzene	ND	7.1	10		µg/L	1	3/2/2016 6:41:21 PM	23981
Hexachlorobutadiene	ND	5.2	10		µg/L	1	3/2/2016 6:41:21 PM	23981
Hexachlorocyclopentadiene	ND	5.2	10		µg/L	1	3/2/2016 6:41:21 PM	23981
Hexachloroethane	ND	5.8	10		µg/L	1	3/2/2016 6:41:21 PM	23981
Indeno(1,2,3-cd)pyrene	ND	5.6	10		µg/L	1	3/2/2016 6:41:21 PM	23981
Isophorone	ND	8.1	10		µg/L	1	3/2/2016 6:41:21 PM	23981
1-Methylnaphthalene	150	6.8	10		µg/L	1	3/2/2016 6:41:21 PM	23981
2-Methylnaphthalene	240	7.0	10		µg/L	1	3/2/2016 6:41:21 PM	23981
2-Methylphenol	ND	8.2	10		µg/L	1	3/2/2016 6:41:21 PM	23981
3+4-Methylphenol	ND	7.1	10		µg/L	1	3/2/2016 6:41:21 PM	23981
N-Nitrosodi-n-propylamine	ND	7.8	10		µg/L	1	3/2/2016 6:41:21 PM	23981
N-Nitrosodimethylamine	ND	9.1	10		µg/L	1	3/2/2016 6:41:21 PM	23981
N-Nitrosodiphenylamine	ND	6.2	10		µg/L	1	3/2/2016 6:41:21 PM	23981
Naphthalene	350	59	100		µg/L	10	3/4/2016 10:12:15 AM	23981
2-Nitroaniline	ND	9.0	10		µg/L	1	3/2/2016 6:41:21 PM	23981
3-Nitroaniline	ND	8.8	10		µg/L	1	3/2/2016 6:41:21 PM	23981
4-Nitroaniline	ND	9.1	10		µg/L	1	3/2/2016 6:41:21 PM	23981
Nitrobenzene	ND	7.8	10		µg/L	1	3/2/2016 6:41:21 PM	23981
2-Nitrophenol	ND	7.6	10		µg/L	1	3/2/2016 6:41:21 PM	23981
4-Nitrophenol	ND	6.7	10		µg/L	1	3/2/2016 6:41:21 PM	23981
Pentachlorophenol	ND	7.6	20		µg/L	1	3/2/2016 6:41:21 PM	23981
Phenanthrene	ND	6.8	10		µg/L	1	3/2/2016 6:41:21 PM	23981
Phenol	10	5.1	10	J	µg/L	1	3/2/2016 6:41:21 PM	23981

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

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	D	Sample Diluted Due to Matrix	E	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	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1602B49

Date Reported: 4/1/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-19

Project: Quarterly GW Sampling

Collection Date: 2/25/2016 2:40:00 PM

Lab ID: 1602B49-001

Matrix: AQUEOUS

Received Date: 2/26/2016 4:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: DAM	
Pyrene	ND	5.5	10		µg/L	1	3/2/2016 6:41:21 PM	23981
Pyridine	ND	6.7	10		µg/L	1	3/2/2016 6:41:21 PM	23981
1,2,4-Trichlorobenzene	ND	6.2	10		µg/L	1	3/2/2016 6:41:21 PM	23981
2,4,5-Trichlorophenol	ND	8.4	10		µg/L	1	3/2/2016 6:41:21 PM	23981
2,4,6-Trichlorophenol	ND	8.8	10		µg/L	1	3/2/2016 6:41:21 PM	23981
Surr: 2-Fluorophenol	44.4	0	4.63-113		%Rec	1	3/2/2016 6:41:21 PM	23981
Surr: Phenol-d5	39.6	0	4.13-124		%Rec	1	3/2/2016 6:41:21 PM	23981
Surr: 2,4,6-Tribromophenol	78.2	0	5.14-132		%Rec	1	3/2/2016 6:41:21 PM	23981
Surr: Nitrobenzene-d5	78.0	0	9.13-140		%Rec	1	3/2/2016 6:41:21 PM	23981
Surr: 2-Fluorobiphenyl	85.3	0	10.8-132		%Rec	1	3/2/2016 6:41:21 PM	23981
Surr: 4-Terphenyl-d14	72.8	0	12.9-107		%Rec	1	3/2/2016 6:41:21 PM	23981
EPA METHOD 8260B: VOLATILES							Analyst: RAA	
Benzene	1500	1.9	20		µg/L	20	3/3/2016 2:21:24 PM	R32574
Toluene	5.0	1.8	20	J	µg/L	20	3/3/2016 2:21:24 PM	R32574
Ethylbenzene	790	2.2	20		µg/L	20	3/3/2016 2:21:24 PM	R32574
Methyl tert-butyl ether (MTBE)	8600	42	200		µg/L	200	3/4/2016 3:38:43 PM	R32609
1,2,4-Trimethylbenzene	680	2.1	20		µg/L	20	3/3/2016 2:21:24 PM	R32574
1,3,5-Trimethylbenzene	82	2.3	20		µg/L	20	3/3/2016 2:21:24 PM	R32574
1,2-Dichloroethane (EDC)	ND	1.1	20		µg/L	20	3/3/2016 2:21:24 PM	R32574
1,2-Dibromoethane (EDB)	ND	2.2	20		µg/L	20	3/3/2016 2:21:24 PM	R32574
Naphthalene	550	1.7	40		µg/L	20	3/3/2016 2:21:24 PM	R32574
1-Methylnaphthalene	250	4.1	80		µg/L	20	3/3/2016 2:21:24 PM	R32574
2-Methylnaphthalene	350	3.2	80		µg/L	20	3/3/2016 2:21:24 PM	R32574
Acetone	ND	18	200		µg/L	20	3/3/2016 2:21:24 PM	R32574
Bromobenzene	ND	1.6	20		µg/L	20	3/3/2016 2:21:24 PM	R32574
Bromodichloromethane	ND	2.0	20		µg/L	20	3/3/2016 2:21:24 PM	R32574
Bromoform	ND	2.0	20		µg/L	20	3/3/2016 2:21:24 PM	R32574
Bromomethane	ND	16	60		µg/L	20	3/3/2016 2:21:24 PM	R32574
2-Butanone	ND	6.4	200		µg/L	20	3/3/2016 2:21:24 PM	R32574
Carbon disulfide	ND	12	200		µg/L	20	3/3/2016 2:21:24 PM	R32574
Carbon Tetrachloride	ND	2.2	20		µg/L	20	3/3/2016 2:21:24 PM	R32574
Chlorobenzene	ND	2.1	20		µg/L	20	3/3/2016 2:21:24 PM	R32574
Chloroethane	ND	2.9	40		µg/L	20	3/3/2016 2:21:24 PM	R32574
Chloroform	ND	1.8	20		µg/L	20	3/3/2016 2:21:24 PM	R32574
Chloromethane	ND	4.3	60		µg/L	20	3/3/2016 2:21:24 PM	R32574
2-Chlorotoluene	ND	8.0	20		µg/L	20	3/3/2016 2:21:24 PM	R32574
4-Chlorotoluene	ND	2.6	20		µg/L	20	3/3/2016 2:21:24 PM	R32574
cis-1,2-DCE	ND	2.5	20		µg/L	20	3/3/2016 2:21:24 PM	R32574
cis-1,3-Dichloropropene	ND	2.0	20		µg/L	20	3/3/2016 2:21:24 PM	R32574

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1602B49

Date Reported: 4/1/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-19

Project: Quarterly GW Sampling

Collection Date: 2/25/2016 2:40:00 PM

Lab ID: 1602B49-001

Matrix: AQUEOUS

Received Date: 2/26/2016 4:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: RAA	
1,2-Dibromo-3-chloropropane	ND	3.1	40		µg/L	20	3/3/2016 2:21:24 PM	R32574
Dibromochloromethane	ND	1.7	20		µg/L	20	3/3/2016 2:21:24 PM	R32574
Dibromomethane	ND	2.4	20		µg/L	20	3/3/2016 2:21:24 PM	R32574
1,2-Dichlorobenzene	ND	8.0	20		µg/L	20	3/3/2016 2:21:24 PM	R32574
1,3-Dichlorobenzene	ND	2.9	20		µg/L	20	3/3/2016 2:21:24 PM	R32574
1,4-Dichlorobenzene	ND	2.9	20		µg/L	20	3/3/2016 2:21:24 PM	R32574
Dichlorodifluoromethane	ND	6.5	20		µg/L	20	3/3/2016 2:21:24 PM	R32574
1,1-Dichloroethane	ND	2.2	20		µg/L	20	3/3/2016 2:21:24 PM	R32574
1,1-Dichloroethene	ND	1.5	20		µg/L	20	3/3/2016 2:21:24 PM	R32574
1,2-Dichloropropane	ND	0.94	20		µg/L	20	3/3/2016 2:21:24 PM	R32574
1,3-Dichloropropane	ND	3.1	20		µg/L	20	3/3/2016 2:21:24 PM	R32574
2,2-Dichloropropane	ND	2.4	40		µg/L	20	3/3/2016 2:21:24 PM	R32574
1,1-Dichloropropene	ND	2.7	20		µg/L	20	3/3/2016 2:21:24 PM	R32574
Hexachlorobutadiene	ND	4.0	20		µg/L	20	3/3/2016 2:21:24 PM	R32574
2-Hexanone	ND	7.2	200		µg/L	20	3/3/2016 2:21:24 PM	R32574
Isopropylbenzene	33	2.0	20		µg/L	20	3/3/2016 2:21:24 PM	R32574
4-Isopropyltoluene	5.9	2.8	20	J	µg/L	20	3/3/2016 2:21:24 PM	R32574
4-Methyl-2-pentanone	ND	3.0	200		µg/L	20	3/3/2016 2:21:24 PM	R32574
Methylene Chloride	5.6	1.3	60	J	µg/L	20	3/3/2016 2:21:24 PM	R32574
n-Butylbenzene	17	3.2	60	J	µg/L	20	3/3/2016 2:21:24 PM	R32574
n-Propylbenzene	99	2.6	20		µg/L	20	3/3/2016 2:21:24 PM	R32574
sec-Butylbenzene	7.5	2.2	20	J	µg/L	20	3/3/2016 2:21:24 PM	R32574
Styrene	ND	1.9	20		µg/L	20	3/3/2016 2:21:24 PM	R32574
tert-Butylbenzene	ND	1.9	20		µg/L	20	3/3/2016 2:21:24 PM	R32574
1,1,1,2-Tetrachloroethane	ND	2.2	20		µg/L	20	3/3/2016 2:21:24 PM	R32574
1,1,2,2-Tetrachloroethane	ND	2.1	40		µg/L	20	3/3/2016 2:21:24 PM	R32574
Tetrachloroethene (PCE)	ND	3.0	20		µg/L	20	3/3/2016 2:21:24 PM	R32574
trans-1,2-DCE	ND	8.0	20		µg/L	20	3/3/2016 2:21:24 PM	R32574
trans-1,3-Dichloropropene	ND	1.7	20		µg/L	20	3/3/2016 2:21:24 PM	R32574
1,2,3-Trichlorobenzene	ND	2.3	20		µg/L	20	3/3/2016 2:21:24 PM	R32574
1,2,4-Trichlorobenzene	ND	2.7	20		µg/L	20	3/3/2016 2:21:24 PM	R32574
1,1,1-Trichloroethane	ND	1.3	20		µg/L	20	3/3/2016 2:21:24 PM	R32574
1,1,2-Trichloroethane	ND	1.5	20		µg/L	20	3/3/2016 2:21:24 PM	R32574
Trichloroethene (TCE)	ND	3.5	20		µg/L	20	3/3/2016 2:21:24 PM	R32574
Trichlorofluoromethane	ND	1.8	20		µg/L	20	3/3/2016 2:21:24 PM	R32574
1,2,3-Trichloropropane	ND	2.2	40		µg/L	20	3/3/2016 2:21:24 PM	R32574
Vinyl chloride	ND	1.3	20		µg/L	20	3/3/2016 2:21:24 PM	R32574
Xylenes, Total	670	6.5	30		µg/L	20	3/3/2016 2:21:24 PM	R32574
Surr: 1,2-Dichloroethane-d4	88.2	0	70-130		%Rec	20	3/3/2016 2:21:24 PM	R32574

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
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Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1602B49

Date Reported: 4/1/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-19

Project: Quarterly GW Sampling

Collection Date: 2/25/2016 2:40:00 PM

Lab ID: 1602B49-001

Matrix: AQUEOUS

Received Date: 2/26/2016 4:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: RAA	
Surr: 4-Bromofluorobenzene	88.1	0	70-130		%Rec	20	3/3/2016 2:21:24 PM	R32574
Surr: Dibromofluoromethane	96.9	0	70-130		%Rec	20	3/3/2016 2:21:24 PM	R32574
Surr: Toluene-d8	102	0	70-130		%Rec	20	3/3/2016 2:21:24 PM	R32574

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Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1602B49

Date Reported: 4/1/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-34

Project: Quarterly GW Sampling

Collection Date: 2/25/2016 3:40:00 PM

Lab ID: 1602B49-002

Matrix: AQUEOUS

Received Date: 2/26/2016 4:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015M/D: DIESEL RANGE							Analyst: KJH	
Diesel Range Organics (DRO)	ND	0.69	1.0		mg/L	1	3/1/2016 2:16:54 PM	24002
Motor Oil Range Organics (MRO)	ND	5.0	5.0		mg/L	1	3/1/2016 2:16:54 PM	24002
Surr: DNOP	94.3	0	70-141		%Rec	1	3/1/2016 2:16:54 PM	24002
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB	
Gasoline Range Organics (GRO)	ND	0.025	0.050		mg/L	1	3/1/2016 4:58:11 PM	A32486
Surr: BFB	84.0	0	49.5-130		%Rec	1	3/1/2016 4:58:11 PM	A32486
EPA METHOD 300.0: ANIONS							Analyst: LGT	
Fluoride	0.53	0.023	0.10		mg/L	1	3/2/2016 1:55:11 PM	R32517
Chloride	380	0.55	10		mg/L	20	3/1/2016 5:25:48 AM	R32483
Bromide	2.0	0.032	0.10		mg/L	1	3/1/2016 4:48:34 AM	R32483
Phosphorus, Orthophosphate (As P)	ND	0.22	0.50	H	mg/L	1	3/1/2016 4:48:34 AM	R32483
Sulfate	110	1.3	10		mg/L	20	3/1/2016 5:25:48 AM	R32483
Nitrate+Nitrite as N	18	0.42	1.0	*	mg/L	5	2/29/2016 11:27:42 PM	A32480
EPA METHOD 200.7: DISSOLVED METALS							Analyst: ELS	
Barium	0.13	0.0013	0.0020		mg/L	1	3/11/2016 4:33:46 PM	C32754
Cadmium	ND	0.00075	0.0020		mg/L	1	3/11/2016 4:33:46 PM	C32754
Calcium	63	0.26	1.0		mg/L	1	3/11/2016 4:33:46 PM	C32754
Chromium	ND	0.0018	0.0060		mg/L	1	3/11/2016 4:33:46 PM	C32754
Copper	ND	0.0040	0.0060		mg/L	1	3/15/2016 12:33:40 PM	A32792
Iron	0.017	0.0091	0.020	J	mg/L	1	3/11/2016 4:33:46 PM	C32754
Magnesium	14	0.013	1.0		mg/L	1	3/11/2016 4:33:46 PM	C32754
Manganese	0.0010	0.00032	0.0020	J	mg/L	1	3/11/2016 4:33:46 PM	C32754
Potassium	1.6	0.18	1.0		mg/L	1	3/11/2016 4:33:46 PM	C32754
Silver	ND	0.0028	0.0050		mg/L	1	3/11/2016 4:33:46 PM	C32754
Sodium	340	0.48	5.0		mg/L	5	3/16/2016 11:30:31 AM	B32831
Zinc	0.012	0.0028	0.010		mg/L	1	3/16/2016 11:28:33 AM	B32831
EPA METHOD 200.7: TOTAL METALS							Analyst: ELS	
Barium	0.15	0.0011	0.0020		mg/L	1	3/11/2016 2:44:41 PM	24015
Cadmium	ND	0.00062	0.0020		mg/L	1	3/11/2016 2:44:41 PM	24015
Chromium	ND	0.0022	0.0060		mg/L	1	3/11/2016 2:44:41 PM	24015
Copper	ND	0.0051	0.0060		mg/L	1	3/11/2016 2:44:41 PM	24015
Iron	1.6	0.036	0.10	*	mg/L	5	3/11/2016 2:49:57 PM	24015
Manganese	0.044	0.0015	0.0020		mg/L	1	3/11/2016 2:44:41 PM	24015
Silver	ND	0.0021	0.0050		mg/L	1	3/23/2016 10:51:12 AM	24381
Zinc	0.023	0.0039	0.010		mg/L	1	3/11/2016 2:44:41 PM	24015
EPA 200.8: DISSOLVED METALS							Analyst: JLF	
Arsenic	0.0032	0.00032	0.0050	J	mg/L	5	3/22/2016 6:11:03 PM	B32978

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	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1602B49

Date Reported: 4/1/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-34

Project: Quarterly GW Sampling

Collection Date: 2/25/2016 3:40:00 PM

Lab ID: 1602B49-002

Matrix: AQUEOUS

Received Date: 2/26/2016 4:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA 200.8: DISSOLVED METALS							Analyst: JLF	
Lead	0.00013	0.000026	0.00050	J	mg/L	1	3/15/2016 5:21:26 PM	C32805
Selenium	0.010	0.00097	0.0050		mg/L	5	3/22/2016 6:11:03 PM	B32978
Uranium	0.030	0.000024	0.0025		mg/L	5	3/22/2016 6:11:03 PM	B32978
200.8 ICPMS METALS:TOTAL							Analyst: JLF	
Arsenic	0.0030	0.0015	0.0050	J	mg/L	5	3/11/2016 2:58:55 PM	24015
Lead	0.0016	0.000047	0.00050		mg/L	1	3/11/2016 1:09:27 PM	24015
Selenium	0.0067	0.0012	0.010	J	mg/L	10	3/11/2016 3:01:56 PM	24015
Uranium	0.032	0.000025	0.0025	*	mg/L	5	3/11/2016 2:58:55 PM	24015
EPA METHOD 245.1: MERCURY							Analyst: DBD	
Mercury	ND	0.000053	0.00020		mg/L	1	3/2/2016 1:07:59 PM	24021
EPA METHOD 8270C: SEMIVOLATILES							Analyst: DAM	
Acenaphthene	ND	8.0	10		µg/L	1	3/2/2016 7:11:11 PM	23981
Acenaphthylene	ND	7.2	10		µg/L	1	3/2/2016 7:11:11 PM	23981
Aniline	ND	9.8	10		µg/L	1	3/2/2016 7:11:11 PM	23981
Anthracene	ND	6.6	10		µg/L	1	3/2/2016 7:11:11 PM	23981
Azobenzene	ND	9.3	10		µg/L	1	3/2/2016 7:11:11 PM	23981
Benz(a)anthracene	ND	6.1	10		µg/L	1	3/2/2016 7:11:11 PM	23981
Benzo(a)pyrene	ND	6.3	10		µg/L	1	3/2/2016 7:11:11 PM	23981
Benzo(b)fluoranthene	ND	6.6	10		µg/L	1	3/2/2016 7:11:11 PM	23981
Benzo(g,h,i)perylene	ND	6.8	10		µg/L	1	3/2/2016 7:11:11 PM	23981
Benzo(k)fluoranthene	ND	7.2	10		µg/L	1	3/2/2016 7:11:11 PM	23981
Benzoic acid	ND	9.8	20		µg/L	1	3/2/2016 7:11:11 PM	23981
Benzyl alcohol	ND	8.0	10		µg/L	1	3/2/2016 7:11:11 PM	23981
Bis(2-chloroethoxy)methane	ND	7.3	10		µg/L	1	3/2/2016 7:11:11 PM	23981
Bis(2-chloroethyl)ether	ND	8.3	10		µg/L	1	3/2/2016 7:11:11 PM	23981
Bis(2-chloroisopropyl)ether	ND	9.1	10		µg/L	1	3/2/2016 7:11:11 PM	23981
Bis(2-ethylhexyl)phthalate	ND	7.5	10		µg/L	1	3/2/2016 7:11:11 PM	23981
4-Bromophenyl phenyl ether	ND	8.6	10		µg/L	1	3/2/2016 7:11:11 PM	23981
Butyl benzyl phthalate	ND	7.8	10		µg/L	1	3/2/2016 7:11:11 PM	23981
Carbazole	ND	7.2	10		µg/L	1	3/2/2016 7:11:11 PM	23981
4-Chloro-3-methylphenol	ND	8.0	10		µg/L	1	3/2/2016 7:11:11 PM	23981
4-Chloroaniline	ND	7.1	10		µg/L	1	3/2/2016 7:11:11 PM	23981
2-Chloronaphthalene	ND	7.2	10		µg/L	1	3/2/2016 7:11:11 PM	23981
2-Chlorophenol	ND	8.7	10		µg/L	1	3/2/2016 7:11:11 PM	23981
4-Chlorophenyl phenyl ether	ND	8.2	10		µg/L	1	3/2/2016 7:11:11 PM	23981
Chrysene	ND	6.6	10		µg/L	1	3/2/2016 7:11:11 PM	23981
Di-n-butyl phthalate	ND	8.1	10		µg/L	1	3/2/2016 7:11:11 PM	23981
Di-n-octyl phthalate	ND	6.3	10		µg/L	1	3/2/2016 7:11:11 PM	23981

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	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
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Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1602B49

Date Reported: 4/1/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-34

Project: Quarterly GW Sampling

Collection Date: 2/25/2016 3:40:00 PM

Lab ID: 1602B49-002

Matrix: AQUEOUS

Received Date: 2/26/2016 4:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: DAM	
Dibenz(a,h)anthracene	ND	6.8	10		µg/L	1	3/2/2016 7:11:11 PM	23981
Dibenzofuran	ND	8.6	10		µg/L	1	3/2/2016 7:11:11 PM	23981
1,2-Dichlorobenzene	ND	6.4	10		µg/L	1	3/2/2016 7:11:11 PM	23981
1,3-Dichlorobenzene	ND	6.1	10		µg/L	1	3/2/2016 7:11:11 PM	23981
1,4-Dichlorobenzene	ND	6.3	10		µg/L	1	3/2/2016 7:11:11 PM	23981
3,3'-Dichlorobenzidine	ND	4.7	10		µg/L	1	3/2/2016 7:11:11 PM	23981
Diethyl phthalate	ND	8.2	10		µg/L	1	3/2/2016 7:11:11 PM	23981
Dimethyl phthalate	ND	7.5	10		µg/L	1	3/2/2016 7:11:11 PM	23981
2,4-Dichlorophenol	ND	7.6	20		µg/L	1	3/2/2016 7:11:11 PM	23981
2,4-Dimethylphenol	ND	4.7	10		µg/L	1	3/2/2016 7:11:11 PM	23981
4,6-Dinitro-2-methylphenol	ND	7.3	20		µg/L	1	3/2/2016 7:11:11 PM	23981
2,4-Dinitrophenol	ND	9.9	20		µg/L	1	3/2/2016 7:11:11 PM	23981
2,4-Dinitrotoluene	ND	8.5	10		µg/L	1	3/2/2016 7:11:11 PM	23981
2,6-Dinitrotoluene	ND	7.5	10		µg/L	1	3/2/2016 7:11:11 PM	23981
Fluoranthene	ND	6.1	10		µg/L	1	3/2/2016 7:11:11 PM	23981
Fluorene	ND	7.2	10		µg/L	1	3/2/2016 7:11:11 PM	23981
Hexachlorobenzene	ND	7.1	10		µg/L	1	3/2/2016 7:11:11 PM	23981
Hexachlorobutadiene	ND	5.2	10		µg/L	1	3/2/2016 7:11:11 PM	23981
Hexachlorocyclopentadiene	ND	5.2	10		µg/L	1	3/2/2016 7:11:11 PM	23981
Hexachloroethane	ND	5.8	10		µg/L	1	3/2/2016 7:11:11 PM	23981
Indeno(1,2,3-cd)pyrene	ND	5.6	10		µg/L	1	3/2/2016 7:11:11 PM	23981
Isophorone	ND	8.1	10		µg/L	1	3/2/2016 7:11:11 PM	23981
1-Methylnaphthalene	ND	6.8	10		µg/L	1	3/2/2016 7:11:11 PM	23981
2-Methylnaphthalene	ND	7.0	10		µg/L	1	3/2/2016 7:11:11 PM	23981
2-Methylphenol	ND	8.2	10		µg/L	1	3/2/2016 7:11:11 PM	23981
3+4-Methylphenol	ND	7.1	10		µg/L	1	3/2/2016 7:11:11 PM	23981
N-Nitrosodi-n-propylamine	ND	7.8	10		µg/L	1	3/2/2016 7:11:11 PM	23981
N-Nitrosodimethylamine	ND	9.1	10		µg/L	1	3/2/2016 7:11:11 PM	23981
N-Nitrosodiphenylamine	ND	6.2	10		µg/L	1	3/2/2016 7:11:11 PM	23981
Naphthalene	ND	5.9	10		µg/L	1	3/2/2016 7:11:11 PM	23981
2-Nitroaniline	ND	9.0	10		µg/L	1	3/2/2016 7:11:11 PM	23981
3-Nitroaniline	ND	8.8	10		µg/L	1	3/2/2016 7:11:11 PM	23981
4-Nitroaniline	ND	9.1	10		µg/L	1	3/2/2016 7:11:11 PM	23981
Nitrobenzene	ND	7.8	10		µg/L	1	3/2/2016 7:11:11 PM	23981
2-Nitrophenol	ND	7.6	10		µg/L	1	3/2/2016 7:11:11 PM	23981
4-Nitrophenol	ND	6.7	10		µg/L	1	3/2/2016 7:11:11 PM	23981
Pentachlorophenol	ND	7.6	20		µg/L	1	3/2/2016 7:11:11 PM	23981
Phenanthrene	ND	6.8	10		µg/L	1	3/2/2016 7:11:11 PM	23981
Phenol	ND	5.1	10		µg/L	1	3/2/2016 7:11:11 PM	23981

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
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Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1602B49

Date Reported: 4/1/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-34

Project: Quarterly GW Sampling

Collection Date: 2/25/2016 3:40:00 PM

Lab ID: 1602B49-002

Matrix: AQUEOUS

Received Date: 2/26/2016 4:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: DAM	
Pyrene	ND	5.5	10		µg/L	1	3/2/2016 7:11:11 PM	23981
Pyridine	ND	6.7	10		µg/L	1	3/2/2016 7:11:11 PM	23981
1,2,4-Trichlorobenzene	ND	6.2	10		µg/L	1	3/2/2016 7:11:11 PM	23981
2,4,5-Trichlorophenol	ND	8.4	10		µg/L	1	3/2/2016 7:11:11 PM	23981
2,4,6-Trichlorophenol	ND	8.8	10		µg/L	1	3/2/2016 7:11:11 PM	23981
Surr: 2-Fluorophenol	50.9	0	4.63-113		%Rec	1	3/2/2016 7:11:11 PM	23981
Surr: Phenol-d5	38.9	0	4.13-124		%Rec	1	3/2/2016 7:11:11 PM	23981
Surr: 2,4,6-Tribromophenol	60.3	0	5.14-132		%Rec	1	3/2/2016 7:11:11 PM	23981
Surr: Nitrobenzene-d5	91.7	0	9.13-140		%Rec	1	3/2/2016 7:11:11 PM	23981
Surr: 2-Fluorobiphenyl	92.6	0	10.8-132		%Rec	1	3/2/2016 7:11:11 PM	23981
Surr: 4-Terphenyl-d14	72.7	0	12.9-107		%Rec	1	3/2/2016 7:11:11 PM	23981
EPA METHOD 8260B: VOLATILES							Analyst: RAA	
Benzene	ND	0.096	1.0		µg/L	1	3/3/2016 2:50:04 PM	R32574
Toluene	ND	0.089	1.0		µg/L	1	3/3/2016 2:50:04 PM	R32574
Ethylbenzene	ND	0.11	1.0		µg/L	1	3/3/2016 2:50:04 PM	R32574
Methyl tert-butyl ether (MTBE)	ND	0.21	1.0		µg/L	1	3/3/2016 2:50:04 PM	R32574
1,2,4-Trimethylbenzene	ND	0.10	1.0		µg/L	1	3/3/2016 2:50:04 PM	R32574
1,3,5-Trimethylbenzene	ND	0.12	1.0		µg/L	1	3/3/2016 2:50:04 PM	R32574
1,2-Dichloroethane (EDC)	0.15	0.053	1.0	J	µg/L	1	3/3/2016 2:50:04 PM	R32574
1,2-Dibromoethane (EDB)	ND	0.11	1.0		µg/L	1	3/3/2016 2:50:04 PM	R32574
Naphthalene	0.21	0.083	2.0	J	µg/L	1	3/3/2016 2:50:04 PM	R32574
1-Methylnaphthalene	0.43	0.20	4.0	J	µg/L	1	3/3/2016 2:50:04 PM	R32574
2-Methylnaphthalene	0.52	0.16	4.0	J	µg/L	1	3/3/2016 2:50:04 PM	R32574
Acetone	ND	0.88	10		µg/L	1	3/3/2016 2:50:04 PM	R32574
Bromobenzene	ND	0.080	1.0		µg/L	1	3/3/2016 2:50:04 PM	R32574
Bromodichloromethane	ND	0.098	1.0		µg/L	1	3/3/2016 2:50:04 PM	R32574
Bromoform	ND	0.10	1.0		µg/L	1	3/3/2016 2:50:04 PM	R32574
Bromomethane	ND	0.78	3.0		µg/L	1	3/3/2016 2:50:04 PM	R32574
2-Butanone	ND	0.32	10		µg/L	1	3/3/2016 2:50:04 PM	R32574
Carbon disulfide	ND	0.60	10		µg/L	1	3/3/2016 2:50:04 PM	R32574
Carbon Tetrachloride	ND	0.11	1.0		µg/L	1	3/3/2016 2:50:04 PM	R32574
Chlorobenzene	ND	0.10	1.0		µg/L	1	3/3/2016 2:50:04 PM	R32574
Chloroethane	ND	0.15	2.0		µg/L	1	3/3/2016 2:50:04 PM	R32574
Chloroform	ND	0.089	1.0		µg/L	1	3/3/2016 2:50:04 PM	R32574
Chloromethane	ND	0.21	3.0		µg/L	1	3/3/2016 2:50:04 PM	R32574
2-Chlorotoluene	ND	0.40	1.0		µg/L	1	3/3/2016 2:50:04 PM	R32574
4-Chlorotoluene	ND	0.13	1.0		µg/L	1	3/3/2016 2:50:04 PM	R32574
cis-1,2-DCE	ND	0.12	1.0		µg/L	1	3/3/2016 2:50:04 PM	R32574
cis-1,3-Dichloropropene	ND	0.10	1.0		µg/L	1	3/3/2016 2:50:04 PM	R32574

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1602B49

Date Reported: 4/1/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-34

Project: Quarterly GW Sampling

Collection Date: 2/25/2016 3:40:00 PM

Lab ID: 1602B49-002

Matrix: AQUEOUS

Received Date: 2/26/2016 4:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: RAA	
1,2-Dibromo-3-chloropropane	ND	0.15	2.0		µg/L	1	3/3/2016 2:50:04 PM	R32574
Dibromochloromethane	ND	0.087	1.0		µg/L	1	3/3/2016 2:50:04 PM	R32574
Dibromomethane	ND	0.12	1.0		µg/L	1	3/3/2016 2:50:04 PM	R32574
1,2-Dichlorobenzene	ND	0.40	1.0		µg/L	1	3/3/2016 2:50:04 PM	R32574
1,3-Dichlorobenzene	ND	0.14	1.0		µg/L	1	3/3/2016 2:50:04 PM	R32574
1,4-Dichlorobenzene	ND	0.14	1.0		µg/L	1	3/3/2016 2:50:04 PM	R32574
Dichlorodifluoromethane	ND	0.32	1.0		µg/L	1	3/3/2016 2:50:04 PM	R32574
1,1-Dichloroethane	0.30	0.11	1.0	J	µg/L	1	3/3/2016 2:50:04 PM	R32574
1,1-Dichloroethene	0.42	0.076	1.0	J	µg/L	1	3/3/2016 2:50:04 PM	R32574
1,2-Dichloropropane	ND	0.047	1.0		µg/L	1	3/3/2016 2:50:04 PM	R32574
1,3-Dichloropropane	ND	0.16	1.0		µg/L	1	3/3/2016 2:50:04 PM	R32574
2,2-Dichloropropane	ND	0.12	2.0		µg/L	1	3/3/2016 2:50:04 PM	R32574
1,1-Dichloropropene	ND	0.13	1.0		µg/L	1	3/3/2016 2:50:04 PM	R32574
Hexachlorobutadiene	ND	0.20	1.0		µg/L	1	3/3/2016 2:50:04 PM	R32574
2-Hexanone	ND	0.36	10		µg/L	1	3/3/2016 2:50:04 PM	R32574
Isopropylbenzene	ND	0.098	1.0		µg/L	1	3/3/2016 2:50:04 PM	R32574
4-Isopropyltoluene	ND	0.14	1.0		µg/L	1	3/3/2016 2:50:04 PM	R32574
4-Methyl-2-pentanone	ND	0.15	10		µg/L	1	3/3/2016 2:50:04 PM	R32574
Methylene Chloride	ND	0.063	3.0		µg/L	1	3/3/2016 2:50:04 PM	R32574
n-Butylbenzene	ND	0.16	3.0		µg/L	1	3/3/2016 2:50:04 PM	R32574
n-Propylbenzene	ND	0.13	1.0		µg/L	1	3/3/2016 2:50:04 PM	R32574
sec-Butylbenzene	ND	0.11	1.0		µg/L	1	3/3/2016 2:50:04 PM	R32574
Styrene	ND	0.095	1.0		µg/L	1	3/3/2016 2:50:04 PM	R32574
tert-Butylbenzene	ND	0.096	1.0		µg/L	1	3/3/2016 2:50:04 PM	R32574
1,1,1,2-Tetrachloroethane	ND	0.11	1.0		µg/L	1	3/3/2016 2:50:04 PM	R32574
1,1,2,2-Tetrachloroethane	ND	0.11	2.0		µg/L	1	3/3/2016 2:50:04 PM	R32574
Tetrachloroethene (PCE)	ND	0.15	1.0		µg/L	1	3/3/2016 2:50:04 PM	R32574
trans-1,2-DCE	ND	0.40	1.0		µg/L	1	3/3/2016 2:50:04 PM	R32574
trans-1,3-Dichloropropene	ND	0.085	1.0		µg/L	1	3/3/2016 2:50:04 PM	R32574
1,2,3-Trichlorobenzene	ND	0.11	1.0		µg/L	1	3/3/2016 2:50:04 PM	R32574
1,2,4-Trichlorobenzene	ND	0.13	1.0		µg/L	1	3/3/2016 2:50:04 PM	R32574
1,1,1-Trichloroethane	ND	0.063	1.0		µg/L	1	3/3/2016 2:50:04 PM	R32574
1,1,2-Trichloroethane	ND	0.077	1.0		µg/L	1	3/3/2016 2:50:04 PM	R32574
Trichloroethene (TCE)	1.8	0.18	1.0		µg/L	1	3/3/2016 2:50:04 PM	R32574
Trichlorofluoromethane	ND	0.088	1.0		µg/L	1	3/3/2016 2:50:04 PM	R32574
1,2,3-Trichloropropane	ND	0.11	2.0		µg/L	1	3/3/2016 2:50:04 PM	R32574
Vinyl chloride	ND	0.063	1.0		µg/L	1	3/3/2016 2:50:04 PM	R32574
Xylenes, Total	ND	0.32	1.5		µg/L	1	3/3/2016 2:50:04 PM	R32574
Surr: 1,2-Dichloroethane-d4	94.3	0	70-130		%Rec	1	3/3/2016 2:50:04 PM	R32574

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1602B49

Date Reported: 4/1/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-34

Project: Quarterly GW Sampling

Collection Date: 2/25/2016 3:40:00 PM

Lab ID: 1602B49-002

Matrix: AQUEOUS

Received Date: 2/26/2016 4:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: RAA	
Surr: 4-Bromofluorobenzene	100	0	70-130		%Rec	1	3/3/2016 2:50:04 PM	R32574
Surr: Dibromofluoromethane	105	0	70-130		%Rec	1	3/3/2016 2:50:04 PM	R32574
Surr: Toluene-d8	101	0	70-130		%Rec	1	3/3/2016 2:50:04 PM	R32574

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1602B49

Date Reported: 4/1/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: TRIP BLANK

Project: Quarterly GW Sampling

Collection Date:

Lab ID: 1602B49-003

Matrix: TRIP BLANK

Received Date: 2/26/2016 4:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB	
Gasoline Range Organics (GRO)	ND	0.025	0.050		mg/L	1	3/1/2016 5:22:36 PM	A32486
Surr: BFB	84.6	0	49.5-130		%Rec	1	3/1/2016 5:22:36 PM	A32486
EPA METHOD 8260B: VOLATILES							Analyst: RAA	
Benzene	ND	0.096	1.0		µg/L	1	3/4/2016 1:22:30 AM	B32574
Toluene	ND	0.089	1.0		µg/L	1	3/4/2016 1:22:30 AM	B32574
Ethylbenzene	ND	0.11	1.0		µg/L	1	3/4/2016 1:22:30 AM	B32574
Methyl tert-butyl ether (MTBE)	ND	0.21	1.0		µg/L	1	3/4/2016 1:22:30 AM	B32574
1,2,4-Trimethylbenzene	ND	0.10	1.0		µg/L	1	3/4/2016 1:22:30 AM	B32574
1,3,5-Trimethylbenzene	ND	0.12	1.0		µg/L	1	3/4/2016 1:22:30 AM	B32574
1,2-Dichloroethane (EDC)	ND	0.053	1.0		µg/L	1	3/4/2016 1:22:30 AM	B32574
1,2-Dibromoethane (EDB)	ND	0.11	1.0		µg/L	1	3/4/2016 1:22:30 AM	B32574
Naphthalene	ND	0.083	2.0		µg/L	1	3/4/2016 1:22:30 AM	B32574
1-Methylnaphthalene	ND	0.20	4.0		µg/L	1	3/4/2016 1:22:30 AM	B32574
2-Methylnaphthalene	ND	0.16	4.0		µg/L	1	3/4/2016 1:22:30 AM	B32574
Acetone	ND	0.88	10		µg/L	1	3/4/2016 1:22:30 AM	B32574
Bromobenzene	ND	0.080	1.0		µg/L	1	3/4/2016 1:22:30 AM	B32574
Bromodichloromethane	ND	0.098	1.0		µg/L	1	3/4/2016 1:22:30 AM	B32574
Bromoform	ND	0.10	1.0		µg/L	1	3/4/2016 1:22:30 AM	B32574
Bromomethane	ND	0.78	3.0		µg/L	1	3/4/2016 1:22:30 AM	B32574
2-Butanone	ND	0.32	10		µg/L	1	3/4/2016 1:22:30 AM	B32574
Carbon disulfide	ND	0.60	10		µg/L	1	3/4/2016 1:22:30 AM	B32574
Carbon Tetrachloride	ND	0.11	1.0		µg/L	1	3/4/2016 1:22:30 AM	B32574
Chlorobenzene	ND	0.10	1.0		µg/L	1	3/4/2016 1:22:30 AM	B32574
Chloroethane	ND	0.15	2.0		µg/L	1	3/4/2016 1:22:30 AM	B32574
Chloroform	ND	0.089	1.0		µg/L	1	3/4/2016 1:22:30 AM	B32574
Chloromethane	ND	0.21	3.0		µg/L	1	3/4/2016 1:22:30 AM	B32574
2-Chlorotoluene	ND	0.40	1.0		µg/L	1	3/4/2016 1:22:30 AM	B32574
4-Chlorotoluene	ND	0.13	1.0		µg/L	1	3/4/2016 1:22:30 AM	B32574
cis-1,2-DCE	ND	0.12	1.0		µg/L	1	3/4/2016 1:22:30 AM	B32574
cis-1,3-Dichloropropene	ND	0.10	1.0		µg/L	1	3/4/2016 1:22:30 AM	B32574
1,2-Dibromo-3-chloropropane	ND	0.15	2.0		µg/L	1	3/4/2016 1:22:30 AM	B32574
Dibromochloromethane	ND	0.087	1.0		µg/L	1	3/4/2016 1:22:30 AM	B32574
Dibromomethane	ND	0.12	1.0		µg/L	1	3/4/2016 1:22:30 AM	B32574
1,2-Dichlorobenzene	ND	0.40	1.0		µg/L	1	3/4/2016 1:22:30 AM	B32574
1,3-Dichlorobenzene	ND	0.14	1.0		µg/L	1	3/4/2016 1:22:30 AM	B32574
1,4-Dichlorobenzene	ND	0.14	1.0		µg/L	1	3/4/2016 1:22:30 AM	B32574
Dichlorodifluoromethane	ND	0.32	1.0		µg/L	1	3/4/2016 1:22:30 AM	B32574
1,1-Dichloroethane	ND	0.11	1.0		µg/L	1	3/4/2016 1:22:30 AM	B32574
1,1-Dichloroethene	ND	0.076	1.0		µg/L	1	3/4/2016 1:22:30 AM	B32574

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1602B49

Date Reported: 4/1/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: TRIP BLANK

Project: Quarterly GW Sampling

Collection Date:

Lab ID: 1602B49-003

Matrix: TRIP BLANK

Received Date: 2/26/2016 4:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: RAA	
1,2-Dichloropropane	ND	0.047	1.0		µg/L	1	3/4/2016 1:22:30 AM	B32574
1,3-Dichloropropane	ND	0.16	1.0		µg/L	1	3/4/2016 1:22:30 AM	B32574
2,2-Dichloropropane	ND	0.12	2.0		µg/L	1	3/4/2016 1:22:30 AM	B32574
1,1-Dichloropropene	ND	0.13	1.0		µg/L	1	3/4/2016 1:22:30 AM	B32574
Hexachlorobutadiene	ND	0.20	1.0		µg/L	1	3/4/2016 1:22:30 AM	B32574
2-Hexanone	ND	0.36	10		µg/L	1	3/4/2016 1:22:30 AM	B32574
Isopropylbenzene	ND	0.098	1.0		µg/L	1	3/4/2016 1:22:30 AM	B32574
4-Isopropyltoluene	ND	0.14	1.0		µg/L	1	3/4/2016 1:22:30 AM	B32574
4-Methyl-2-pentanone	ND	0.15	10		µg/L	1	3/4/2016 1:22:30 AM	B32574
Methylene Chloride	ND	0.063	3.0		µg/L	1	3/4/2016 1:22:30 AM	B32574
n-Butylbenzene	ND	0.16	3.0		µg/L	1	3/4/2016 1:22:30 AM	B32574
n-Propylbenzene	ND	0.13	1.0		µg/L	1	3/4/2016 1:22:30 AM	B32574
sec-Butylbenzene	ND	0.11	1.0		µg/L	1	3/4/2016 1:22:30 AM	B32574
Styrene	ND	0.095	1.0		µg/L	1	3/4/2016 1:22:30 AM	B32574
tert-Butylbenzene	ND	0.096	1.0		µg/L	1	3/4/2016 1:22:30 AM	B32574
1,1,1,2-Tetrachloroethane	ND	0.11	1.0		µg/L	1	3/4/2016 1:22:30 AM	B32574
1,1,2,2-Tetrachloroethane	ND	0.11	2.0		µg/L	1	3/4/2016 1:22:30 AM	B32574
Tetrachloroethene (PCE)	ND	0.15	1.0		µg/L	1	3/4/2016 1:22:30 AM	B32574
trans-1,2-DCE	ND	0.40	1.0		µg/L	1	3/4/2016 1:22:30 AM	B32574
trans-1,3-Dichloropropene	ND	0.085	1.0		µg/L	1	3/4/2016 1:22:30 AM	B32574
1,2,3-Trichlorobenzene	ND	0.11	1.0		µg/L	1	3/4/2016 1:22:30 AM	B32574
1,2,4-Trichlorobenzene	ND	0.13	1.0		µg/L	1	3/4/2016 1:22:30 AM	B32574
1,1,1-Trichloroethane	ND	0.063	1.0		µg/L	1	3/4/2016 1:22:30 AM	B32574
1,1,2-Trichloroethane	ND	0.077	1.0		µg/L	1	3/4/2016 1:22:30 AM	B32574
Trichloroethene (TCE)	ND	0.18	1.0		µg/L	1	3/4/2016 1:22:30 AM	B32574
Trichlorofluoromethane	ND	0.088	1.0		µg/L	1	3/4/2016 1:22:30 AM	B32574
1,2,3-Trichloropropane	ND	0.11	2.0		µg/L	1	3/4/2016 1:22:30 AM	B32574
Vinyl chloride	ND	0.063	1.0		µg/L	1	3/4/2016 1:22:30 AM	B32574
Xylenes, Total	ND	0.32	1.5		µg/L	1	3/4/2016 1:22:30 AM	B32574
Surr: 1,2-Dichloroethane-d4	103	0	70-130		%Rec	1	3/4/2016 1:22:30 AM	B32574
Surr: 4-Bromofluorobenzene	99.7	0	70-130		%Rec	1	3/4/2016 1:22:30 AM	B32574
Surr: Dibromofluoromethane	115	0	70-130		%Rec	1	3/4/2016 1:22:30 AM	B32574
Surr: Toluene-d8	95.8	0	70-130		%Rec	1	3/4/2016 1:22:30 AM	B32574

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E 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	P Sample pH Not In Range
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1602B49

Date Reported: 4/1/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-32

Project: Quarterly GW Sampling

Collection Date: 2/24/2016 3:50:00 PM

Lab ID: 1602B49-004

Matrix: AQUEOUS

Received Date: 2/26/2016 4:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015M/D: DIESEL RANGE							Analyst: KJH	
Diesel Range Organics (DRO)	ND	0.69	1.0		mg/L	1	3/1/2016 2:59:40 PM	24002
Motor Oil Range Organics (MRO)	ND	5.0	5.0		mg/L	1	3/1/2016 2:59:40 PM	24002
Surr: DNOP	95.1	0	70-141		%Rec	1	3/1/2016 2:59:40 PM	24002
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB	
Gasoline Range Organics (GRO)	0.88	0.025	0.050		mg/L	1	3/1/2016 5:46:56 PM	A32486
Surr: BFB	89.3	0	49.5-130		%Rec	1	3/1/2016 5:46:56 PM	A32486
EPA METHOD 300.0: ANIONS							Analyst: LGT	
Fluoride	0.28	0.023	0.10		mg/L	1	3/9/2016 8:24:28 PM	R32693
Chloride	450	1.4	25		mg/L	50	3/9/2016 8:36:53 PM	R32693
Bromide	1.6	0.032	0.10		mg/L	1	3/9/2016 8:24:28 PM	R32693
Phosphorus, Orthophosphate (As P)	ND	0.22	0.50	H	mg/L	1	3/9/2016 8:24:28 PM	R32693
Sulfate	91	3.2	25		mg/L	50	3/9/2016 8:36:53 PM	R32693
Nitrate+Nitrite as N	ND	0.42	1.0		mg/L	5	3/1/2016 12:17:21 AM	A32480
EPA METHOD 200.7: DISSOLVED METALS							Analyst: ELS	
Barium	0.049	0.0013	0.0020		mg/L	1	3/11/2016 4:35:41 PM	C32754
Cadmium	ND	0.00075	0.0020		mg/L	1	3/11/2016 4:35:41 PM	C32754
Calcium	30	0.26	1.0		mg/L	1	3/11/2016 4:35:41 PM	C32754
Chromium	ND	0.0018	0.0060		mg/L	1	3/11/2016 4:35:41 PM	C32754
Copper	ND	0.0040	0.0060		mg/L	1	3/15/2016 12:37:35 PM	A32792
Iron	0.023	0.0091	0.020		mg/L	1	3/11/2016 4:35:41 PM	C32754
Magnesium	5.6	0.013	1.0		mg/L	1	3/11/2016 4:35:41 PM	C32754
Manganese	0.062	0.00032	0.0020	*	mg/L	1	3/11/2016 4:35:41 PM	C32754
Potassium	1.0	0.18	1.0		mg/L	1	3/11/2016 4:35:41 PM	C32754
Silver	ND	0.0028	0.0050		mg/L	1	3/11/2016 4:35:41 PM	C32754
Sodium	580	0.96	10		mg/L	10	3/16/2016 11:34:29 AM	B32831
Zinc	0.012	0.0028	0.010		mg/L	1	3/16/2016 11:32:25 AM	B32831
EPA METHOD 200.7: TOTAL METALS							Analyst: ELS	
Barium	0.097	0.0011	0.0020		mg/L	1	3/11/2016 2:55:56 PM	24015
Cadmium	ND	0.00062	0.0020		mg/L	1	3/11/2016 2:55:56 PM	24015
Chromium	ND	0.0022	0.0060		mg/L	1	3/11/2016 2:55:56 PM	24015
Copper	ND	0.0051	0.0060		mg/L	1	3/11/2016 2:55:56 PM	24015
Iron	2.0	0.036	0.10	*	mg/L	5	3/11/2016 3:03:22 PM	24015
Manganese	0.13	0.0015	0.0020	*	mg/L	1	3/11/2016 2:55:56 PM	24015
Silver	ND	0.0021	0.0050		mg/L	1	3/23/2016 11:08:39 AM	24381
Zinc	0.013	0.0039	0.010		mg/L	1	3/11/2016 2:55:56 PM	24015
EPA 200.8: DISSOLVED METALS							Analyst: JLF	
Arsenic	0.0029	0.000065	0.0010		mg/L	1	3/15/2016 5:24:29 PM	C32805

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	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1602B49

Date Reported: 4/1/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-32

Project: Quarterly GW Sampling

Collection Date: 2/24/2016 3:50:00 PM

Lab ID: 1602B49-004

Matrix: AQUEOUS

Received Date: 2/26/2016 4:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA 200.8: DISSOLVED METALS							Analyst: JLF	
Lead	0.00024	0.000026	0.00050	J	mg/L	1	3/15/2016 5:24:29 PM	C32805
Selenium	0.0034	0.0019	0.010	J	mg/L	10	3/24/2016 4:58:15 PM	B33051
Uranium	0.063	0.000024	0.0025	*	mg/L	5	3/22/2016 6:14:07 PM	B32978
200.8 ICPMS METALS:TOTAL							Analyst: JLF	
Arsenic	0.0034	0.00029	0.0010		mg/L	1	3/11/2016 1:12:28 PM	24015
Lead	0.0028	0.000047	0.00050		mg/L	1	3/11/2016 1:12:28 PM	24015
Selenium	0.0031	0.00062	0.0050	J	mg/L	5	3/11/2016 3:04:57 PM	24015
Uranium	0.062	0.000025	0.0025	*	mg/L	5	3/11/2016 3:04:57 PM	24015
EPA METHOD 245.1: MERCURY							Analyst: DBD	
Mercury	ND	0.000053	0.00020		mg/L	1	3/2/2016 1:10:03 PM	24021
EPA METHOD 8270C: SEMIVOLATILES							Analyst: DAM	
Acenaphthene	ND	8.0	10		µg/L	1	3/3/2016 4:08:51 PM	24000
Acenaphthylene	ND	7.2	10		µg/L	1	3/3/2016 4:08:51 PM	24000
Aniline	ND	9.8	10		µg/L	1	3/3/2016 4:08:51 PM	24000
Anthracene	ND	6.6	10		µg/L	1	3/3/2016 4:08:51 PM	24000
Azobenzene	ND	9.3	10		µg/L	1	3/3/2016 4:08:51 PM	24000
Benz(a)anthracene	ND	6.1	10		µg/L	1	3/3/2016 4:08:51 PM	24000
Benzo(a)pyrene	ND	6.3	10		µg/L	1	3/3/2016 4:08:51 PM	24000
Benzo(b)fluoranthene	ND	6.6	10		µg/L	1	3/3/2016 4:08:51 PM	24000
Benzo(g,h,i)perylene	ND	6.8	10		µg/L	1	3/3/2016 4:08:51 PM	24000
Benzo(k)fluoranthene	ND	7.2	10		µg/L	1	3/3/2016 4:08:51 PM	24000
Benzoic acid	ND	9.8	20		µg/L	1	3/3/2016 4:08:51 PM	24000
Benzyl alcohol	ND	8.0	10		µg/L	1	3/3/2016 4:08:51 PM	24000
Bis(2-chloroethoxy)methane	ND	7.3	10		µg/L	1	3/3/2016 4:08:51 PM	24000
Bis(2-chloroethyl)ether	ND	8.3	10		µg/L	1	3/3/2016 4:08:51 PM	24000
Bis(2-chloroisopropyl)ether	ND	9.1	10		µg/L	1	3/3/2016 4:08:51 PM	24000
Bis(2-ethylhexyl)phthalate	ND	7.5	10		µg/L	1	3/3/2016 4:08:51 PM	24000
4-Bromophenyl phenyl ether	ND	8.6	10		µg/L	1	3/3/2016 4:08:51 PM	24000
Butyl benzyl phthalate	ND	7.8	10		µg/L	1	3/3/2016 4:08:51 PM	24000
Carbazole	ND	7.2	10		µg/L	1	3/3/2016 4:08:51 PM	24000
4-Chloro-3-methylphenol	ND	8.0	10		µg/L	1	3/3/2016 4:08:51 PM	24000
4-Chloroaniline	ND	7.1	10		µg/L	1	3/3/2016 4:08:51 PM	24000
2-Chloronaphthalene	ND	7.2	10		µg/L	1	3/3/2016 4:08:51 PM	24000
2-Chlorophenol	ND	8.7	10		µg/L	1	3/3/2016 4:08:51 PM	24000
4-Chlorophenyl phenyl ether	ND	8.2	10		µg/L	1	3/3/2016 4:08:51 PM	24000
Chrysene	ND	6.6	10		µg/L	1	3/3/2016 4:08:51 PM	24000
Di-n-butyl phthalate	ND	8.1	10		µg/L	1	3/3/2016 4:08:51 PM	24000
Di-n-octyl phthalate	ND	6.3	10		µg/L	1	3/3/2016 4:08:51 PM	24000

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	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
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Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1602B49

Date Reported: 4/1/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-32

Project: Quarterly GW Sampling

Collection Date: 2/24/2016 3:50:00 PM

Lab ID: 1602B49-004

Matrix: AQUEOUS

Received Date: 2/26/2016 4:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: DAM	
Dibenz(a,h)anthracene	ND	6.8	10		µg/L	1	3/3/2016 4:08:51 PM	24000
Dibenzofuran	ND	8.6	10		µg/L	1	3/3/2016 4:08:51 PM	24000
1,2-Dichlorobenzene	ND	6.4	10		µg/L	1	3/3/2016 4:08:51 PM	24000
1,3-Dichlorobenzene	ND	6.1	10		µg/L	1	3/3/2016 4:08:51 PM	24000
1,4-Dichlorobenzene	ND	6.3	10		µg/L	1	3/3/2016 4:08:51 PM	24000
3,3'-Dichlorobenzidine	ND	4.7	10		µg/L	1	3/3/2016 4:08:51 PM	24000
Diethyl phthalate	ND	8.2	10		µg/L	1	3/3/2016 4:08:51 PM	24000
Dimethyl phthalate	ND	7.5	10		µg/L	1	3/3/2016 4:08:51 PM	24000
2,4-Dichlorophenol	ND	7.6	20		µg/L	1	3/3/2016 4:08:51 PM	24000
2,4-Dimethylphenol	ND	4.7	10		µg/L	1	3/3/2016 4:08:51 PM	24000
4,6-Dinitro-2-methylphenol	ND	7.3	20		µg/L	1	3/3/2016 4:08:51 PM	24000
2,4-Dinitrophenol	ND	9.9	20		µg/L	1	3/3/2016 4:08:51 PM	24000
2,4-Dinitrotoluene	ND	8.5	10		µg/L	1	3/3/2016 4:08:51 PM	24000
2,6-Dinitrotoluene	ND	7.5	10		µg/L	1	3/3/2016 4:08:51 PM	24000
Fluoranthene	ND	6.1	10		µg/L	1	3/3/2016 4:08:51 PM	24000
Fluorene	ND	7.2	10		µg/L	1	3/3/2016 4:08:51 PM	24000
Hexachlorobenzene	ND	7.1	10		µg/L	1	3/3/2016 4:08:51 PM	24000
Hexachlorobutadiene	ND	5.2	10		µg/L	1	3/3/2016 4:08:51 PM	24000
Hexachlorocyclopentadiene	ND	5.2	10		µg/L	1	3/3/2016 4:08:51 PM	24000
Hexachloroethane	ND	5.8	10		µg/L	1	3/3/2016 4:08:51 PM	24000
Indeno(1,2,3-cd)pyrene	ND	5.6	10		µg/L	1	3/3/2016 4:08:51 PM	24000
Isophorone	ND	8.1	10		µg/L	1	3/3/2016 4:08:51 PM	24000
1-Methylnaphthalene	ND	6.8	10		µg/L	1	3/3/2016 4:08:51 PM	24000
2-Methylnaphthalene	ND	7.0	10		µg/L	1	3/3/2016 4:08:51 PM	24000
2-Methylphenol	ND	8.2	10		µg/L	1	3/3/2016 4:08:51 PM	24000
3+4-Methylphenol	ND	7.1	10		µg/L	1	3/3/2016 4:08:51 PM	24000
N-Nitrosodi-n-propylamine	ND	7.8	10		µg/L	1	3/3/2016 4:08:51 PM	24000
N-Nitrosodimethylamine	ND	9.1	10		µg/L	1	3/3/2016 4:08:51 PM	24000
N-Nitrosodiphenylamine	ND	6.2	10		µg/L	1	3/3/2016 4:08:51 PM	24000
Naphthalene	ND	5.9	10		µg/L	1	3/3/2016 4:08:51 PM	24000
2-Nitroaniline	ND	9.0	10		µg/L	1	3/3/2016 4:08:51 PM	24000
3-Nitroaniline	ND	8.8	10		µg/L	1	3/3/2016 4:08:51 PM	24000
4-Nitroaniline	ND	9.1	10		µg/L	1	3/3/2016 4:08:51 PM	24000
Nitrobenzene	ND	7.8	10		µg/L	1	3/3/2016 4:08:51 PM	24000
2-Nitrophenol	ND	7.6	10		µg/L	1	3/3/2016 4:08:51 PM	24000
4-Nitrophenol	ND	6.7	10		µg/L	1	3/3/2016 4:08:51 PM	24000
Pentachlorophenol	ND	7.6	20		µg/L	1	3/3/2016 4:08:51 PM	24000
Phenanthrene	ND	6.8	10		µg/L	1	3/3/2016 4:08:51 PM	24000
Phenol	ND	5.1	10		µg/L	1	3/3/2016 4:08:51 PM	24000

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Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1602B49

Date Reported: 4/1/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-32

Project: Quarterly GW Sampling

Collection Date: 2/24/2016 3:50:00 PM

Lab ID: 1602B49-004

Matrix: AQUEOUS

Received Date: 2/26/2016 4:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: DAM	
Pyrene	ND	5.5	10		µg/L	1	3/3/2016 4:08:51 PM	24000
Pyridine	ND	6.7	10		µg/L	1	3/3/2016 4:08:51 PM	24000
1,2,4-Trichlorobenzene	ND	6.2	10		µg/L	1	3/3/2016 4:08:51 PM	24000
2,4,5-Trichlorophenol	ND	8.4	10		µg/L	1	3/3/2016 4:08:51 PM	24000
2,4,6-Trichlorophenol	ND	8.8	10		µg/L	1	3/3/2016 4:08:51 PM	24000
Surr: 2-Fluorophenol	44.6	0	4.63-113		%Rec	1	3/3/2016 4:08:51 PM	24000
Surr: Phenol-d5	33.3	0	4.13-124		%Rec	1	3/3/2016 4:08:51 PM	24000
Surr: 2,4,6-Tribromophenol	72.6	0	5.14-132		%Rec	1	3/3/2016 4:08:51 PM	24000
Surr: Nitrobenzene-d5	81.1	0	9.13-140		%Rec	1	3/3/2016 4:08:51 PM	24000
Surr: 2-Fluorobiphenyl	83.7	0	10.8-132		%Rec	1	3/3/2016 4:08:51 PM	24000
Surr: 4-Terphenyl-d14	67.8	0	12.9-107		%Rec	1	3/3/2016 4:08:51 PM	24000
EPA METHOD 8260B: VOLATILES							Analyst: RAA	
Benzene	0.40	0.096	1.0	J	µg/L	1	3/3/2016 3:18:43 PM	R32574
Toluene	ND	0.089	1.0		µg/L	1	3/3/2016 3:18:43 PM	R32574
Ethylbenzene	ND	0.11	1.0		µg/L	1	3/3/2016 3:18:43 PM	R32574
Methyl tert-butyl ether (MTBE)	620	2.1	10		µg/L	10	3/4/2016 4:07:28 PM	R32609
1,2,4-Trimethylbenzene	ND	0.10	1.0		µg/L	1	3/3/2016 3:18:43 PM	R32574
1,3,5-Trimethylbenzene	ND	0.12	1.0		µg/L	1	3/3/2016 3:18:43 PM	R32574
1,2-Dichloroethane (EDC)	19	0.053	1.0		µg/L	1	3/3/2016 3:18:43 PM	R32574
1,2-Dibromoethane (EDB)	ND	0.11	1.0		µg/L	1	3/3/2016 3:18:43 PM	R32574
Naphthalene	ND	0.083	2.0		µg/L	1	3/3/2016 3:18:43 PM	R32574
1-Methylnaphthalene	ND	0.20	4.0		µg/L	1	3/3/2016 3:18:43 PM	R32574
2-Methylnaphthalene	ND	0.16	4.0		µg/L	1	3/3/2016 3:18:43 PM	R32574
Acetone	ND	0.88	10		µg/L	1	3/3/2016 3:18:43 PM	R32574
Bromobenzene	ND	0.080	1.0		µg/L	1	3/3/2016 3:18:43 PM	R32574
Bromodichloromethane	ND	0.098	1.0		µg/L	1	3/3/2016 3:18:43 PM	R32574
Bromoform	ND	0.10	1.0		µg/L	1	3/3/2016 3:18:43 PM	R32574
Bromomethane	ND	0.78	3.0		µg/L	1	3/3/2016 3:18:43 PM	R32574
2-Butanone	ND	0.32	10		µg/L	1	3/3/2016 3:18:43 PM	R32574
Carbon disulfide	ND	0.60	10		µg/L	1	3/3/2016 3:18:43 PM	R32574
Carbon Tetrachloride	ND	0.11	1.0		µg/L	1	3/3/2016 3:18:43 PM	R32574
Chlorobenzene	ND	0.10	1.0		µg/L	1	3/3/2016 3:18:43 PM	R32574
Chloroethane	ND	0.15	2.0		µg/L	1	3/3/2016 3:18:43 PM	R32574
Chloroform	ND	0.089	1.0		µg/L	1	3/3/2016 3:18:43 PM	R32574
Chloromethane	ND	0.21	3.0		µg/L	1	3/3/2016 3:18:43 PM	R32574
2-Chlorotoluene	ND	0.40	1.0		µg/L	1	3/3/2016 3:18:43 PM	R32574
4-Chlorotoluene	ND	0.13	1.0		µg/L	1	3/3/2016 3:18:43 PM	R32574
cis-1,2-DCE	1.6	0.12	1.0		µg/L	1	3/3/2016 3:18:43 PM	R32574
cis-1,3-Dichloropropene	ND	0.10	1.0		µg/L	1	3/3/2016 3:18:43 PM	R32574

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	D	Sample Diluted Due to Matrix	E	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	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1602B49

Date Reported: 4/1/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-32

Project: Quarterly GW Sampling

Collection Date: 2/24/2016 3:50:00 PM

Lab ID: 1602B49-004

Matrix: AQUEOUS

Received Date: 2/26/2016 4:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: RAA	
1,2-Dibromo-3-chloropropane	ND	0.15	2.0		µg/L	1	3/3/2016 3:18:43 PM	R32574
Dibromochloromethane	ND	0.087	1.0		µg/L	1	3/3/2016 3:18:43 PM	R32574
Dibromomethane	ND	0.12	1.0		µg/L	1	3/3/2016 3:18:43 PM	R32574
1,2-Dichlorobenzene	ND	0.40	1.0		µg/L	1	3/3/2016 3:18:43 PM	R32574
1,3-Dichlorobenzene	ND	0.14	1.0		µg/L	1	3/3/2016 3:18:43 PM	R32574
1,4-Dichlorobenzene	ND	0.14	1.0		µg/L	1	3/3/2016 3:18:43 PM	R32574
Dichlorodifluoromethane	ND	0.32	1.0		µg/L	1	3/3/2016 3:18:43 PM	R32574
1,1-Dichloroethane	17	0.11	1.0		µg/L	1	3/3/2016 3:18:43 PM	R32574
1,1-Dichloroethene	28	0.076	1.0		µg/L	1	3/3/2016 3:18:43 PM	R32574
1,2-Dichloropropane	ND	0.047	1.0		µg/L	1	3/3/2016 3:18:43 PM	R32574
1,3-Dichloropropane	ND	0.16	1.0		µg/L	1	3/3/2016 3:18:43 PM	R32574
2,2-Dichloropropane	ND	0.12	2.0		µg/L	1	3/3/2016 3:18:43 PM	R32574
1,1-Dichloropropene	ND	0.13	1.0		µg/L	1	3/3/2016 3:18:43 PM	R32574
Hexachlorobutadiene	ND	0.20	1.0		µg/L	1	3/3/2016 3:18:43 PM	R32574
2-Hexanone	ND	0.36	10		µg/L	1	3/3/2016 3:18:43 PM	R32574
Isopropylbenzene	0.21	0.098	1.0	J	µg/L	1	3/3/2016 3:18:43 PM	R32574
4-Isopropyltoluene	ND	0.14	1.0		µg/L	1	3/3/2016 3:18:43 PM	R32574
4-Methyl-2-pentanone	ND	0.15	10		µg/L	1	3/3/2016 3:18:43 PM	R32574
Methylene Chloride	ND	0.063	3.0		µg/L	1	3/3/2016 3:18:43 PM	R32574
n-Butylbenzene	0.17	0.16	3.0	J	µg/L	1	3/3/2016 3:18:43 PM	R32574
n-Propylbenzene	ND	0.13	1.0		µg/L	1	3/3/2016 3:18:43 PM	R32574
sec-Butylbenzene	0.93	0.11	1.0	J	µg/L	1	3/3/2016 3:18:43 PM	R32574
Styrene	ND	0.095	1.0		µg/L	1	3/3/2016 3:18:43 PM	R32574
tert-Butylbenzene	ND	0.096	1.0		µg/L	1	3/3/2016 3:18:43 PM	R32574
1,1,1,2-Tetrachloroethane	ND	0.11	1.0		µg/L	1	3/3/2016 3:18:43 PM	R32574
1,1,2,2-Tetrachloroethane	ND	0.11	2.0		µg/L	1	3/3/2016 3:18:43 PM	R32574
Tetrachloroethene (PCE)	ND	0.15	1.0		µg/L	1	3/3/2016 3:18:43 PM	R32574
trans-1,2-DCE	ND	0.40	1.0		µg/L	1	3/3/2016 3:18:43 PM	R32574
trans-1,3-Dichloropropene	ND	0.085	1.0		µg/L	1	3/3/2016 3:18:43 PM	R32574
1,2,3-Trichlorobenzene	ND	0.11	1.0		µg/L	1	3/3/2016 3:18:43 PM	R32574
1,2,4-Trichlorobenzene	ND	0.13	1.0		µg/L	1	3/3/2016 3:18:43 PM	R32574
1,1,1-Trichloroethane	0.55	0.063	1.0	J	µg/L	1	3/3/2016 3:18:43 PM	R32574
1,1,2-Trichloroethane	1.6	0.077	1.0		µg/L	1	3/3/2016 3:18:43 PM	R32574
Trichloroethene (TCE)	ND	0.18	1.0		µg/L	1	3/3/2016 3:18:43 PM	R32574
Trichlorofluoromethane	ND	0.088	1.0		µg/L	1	3/3/2016 3:18:43 PM	R32574
1,2,3-Trichloropropane	ND	0.11	2.0		µg/L	1	3/3/2016 3:18:43 PM	R32574
Vinyl chloride	ND	0.063	1.0		µg/L	1	3/3/2016 3:18:43 PM	R32574
Xylenes, Total	ND	0.32	1.5		µg/L	1	3/3/2016 3:18:43 PM	R32574
Surr: 1,2-Dichloroethane-d4	90.6	0	70-130		%Rec	1	3/3/2016 3:18:43 PM	R32574

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1602B49

Date Reported: 4/1/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-32

Project: Quarterly GW Sampling

Collection Date: 2/24/2016 3:50:00 PM

Lab ID: 1602B49-004

Matrix: AQUEOUS

Received Date: 2/26/2016 4:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: RAA	
Surr: 4-Bromofluorobenzene	101	0	70-130		%Rec	1	3/3/2016 3:18:43 PM	R32574
Surr: Dibromofluoromethane	100	0	70-130		%Rec	1	3/3/2016 3:18:43 PM	R32574
Surr: Toluene-d8	102	0	70-130		%Rec	1	3/3/2016 3:18:43 PM	R32574

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-41

Project: Quarterly GW Sampling

Collection Date: 2/24/2016 4:50:00 PM

Lab ID: 1602B49-005

Matrix: AQUEOUS

Received Date: 2/26/2016 4:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015M/D: DIESEL RANGE							Analyst: KJH	
Diesel Range Organics (DRO)	ND	0.69	1.0		mg/L	1	3/1/2016 3:20:59 PM	24002
Motor Oil Range Organics (MRO)	ND	5.0	5.0		mg/L	1	3/1/2016 3:20:59 PM	24002
Surr: DNOP	96.3	0	70-141		%Rec	1	3/1/2016 3:20:59 PM	24002
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB	
Gasoline Range Organics (GRO)	ND	0.025	0.050		mg/L	1	3/1/2016 6:11:18 PM	A32486
Surr: BFB	87.6	0	49.5-130		%Rec	1	3/1/2016 6:11:18 PM	A32486
EPA METHOD 300.0: ANIONS							Analyst: LGT	
Fluoride	0.47	0.023	0.10		mg/L	1	3/3/2016 1:55:55 AM	R32541
Chloride	790	2.7	50		mg/L	100	3/9/2016 8:49:18 PM	R32693
Bromide	4.5	0.65	2.0		mg/L	20	3/3/2016 2:08:19 AM	R32541
Phosphorus, Orthophosphate (As P)	ND	0.22	0.50	H	mg/L	1	3/3/2016 1:55:55 AM	R32541
Sulfate	74	1.3	10		mg/L	20	3/3/2016 2:08:19 AM	R32541
Nitrate+Nitrite as N	4.7	0.42	1.0		mg/L	5	3/1/2016 12:19:38 PM	R32498
EPA METHOD 200.7: DISSOLVED METALS							Analyst: ELS	
Barium	0.070	0.0013	0.0020		mg/L	1	3/11/2016 4:46:21 PM	C32754
Cadmium	ND	0.00075	0.0020		mg/L	1	3/11/2016 4:46:21 PM	C32754
Calcium	16	0.26	1.0		mg/L	1	3/11/2016 4:46:21 PM	C32754
Chromium	0.0025	0.0018	0.0060	J	mg/L	1	3/11/2016 4:46:21 PM	C32754
Copper	ND	0.0040	0.0060		mg/L	1	3/15/2016 12:41:37 PM	A32792
Iron	0.074	0.0091	0.020		mg/L	1	3/16/2016 11:36:18 AM	B32831
Magnesium	2.0	0.013	1.0		mg/L	1	3/11/2016 4:46:21 PM	C32754
Manganese	0.0068	0.00032	0.0020		mg/L	1	3/11/2016 4:46:21 PM	C32754
Potassium	2.4	0.18	1.0		mg/L	1	3/11/2016 4:46:21 PM	C32754
Silver	ND	0.0028	0.0050		mg/L	1	3/11/2016 4:46:21 PM	C32754
Sodium	600	0.96	10		mg/L	10	3/16/2016 11:38:21 AM	B32831
Zinc	0.0063	0.0028	0.010	J	mg/L	1	3/16/2016 11:36:18 AM	B32831
EPA METHOD 200.7: TOTAL METALS							Analyst: ELS	
Barium	0.12	0.0011	0.0020		mg/L	1	3/11/2016 3:05:21 PM	24015
Cadmium	ND	0.00062	0.0020		mg/L	1	3/11/2016 3:05:21 PM	24015
Chromium	0.0027	0.0022	0.0060	J	mg/L	1	3/11/2016 3:05:21 PM	24015
Copper	ND	0.0051	0.0060		mg/L	1	3/11/2016 3:05:21 PM	24015
Iron	2.4	0.036	0.10	*	mg/L	5	3/11/2016 3:07:16 PM	24015
Manganese	0.12	0.0015	0.0020	*	mg/L	1	3/11/2016 3:05:21 PM	24015
Silver	ND	0.0021	0.0050		mg/L	1	3/23/2016 11:12:41 AM	24381
Zinc	0.013	0.0039	0.010		mg/L	1	3/11/2016 3:05:21 PM	24015
EPA 200.8: DISSOLVED METALS							Analyst: JLF	
Arsenic	0.0051	0.00065	0.010	J	mg/L	10	3/22/2016 6:20:13 PM	B32978

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1602B49

Date Reported: 4/1/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-41

Project: Quarterly GW Sampling

Collection Date: 2/24/2016 4:50:00 PM

Lab ID: 1602B49-005

Matrix: AQUEOUS

Received Date: 2/26/2016 4:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA 200.8: DISSOLVED METALS							Analyst: JLF	
Lead	0.00035	0.00013	0.0025	J	mg/L	5	3/22/2016 6:17:10 PM	B32978
Selenium	0.047	0.00097	0.0050		mg/L	5	3/22/2016 6:17:10 PM	B32978
Uranium	0.023	0.000024	0.0025		mg/L	5	3/22/2016 6:17:10 PM	B32978
200.8 ICPMS METALS:TOTAL							Analyst: JLF	
Arsenic	0.0049	0.0015	0.0050	J	mg/L	5	3/11/2016 3:10:58 PM	24015
Lead	0.0035	0.00024	0.0025		mg/L	5	3/11/2016 3:10:58 PM	24015
Selenium	0.044	0.00062	0.0050		mg/L	5	3/11/2016 3:10:58 PM	24015
Uranium	0.022	0.000025	0.0025		mg/L	5	3/11/2016 3:10:58 PM	24015
EPA METHOD 245.1: MERCURY							Analyst: DBD	
Mercury	ND	0.000053	0.00020		mg/L	1	3/2/2016 1:12:06 PM	24021
EPA METHOD 8270C: SEMIVOLATILES							Analyst: DAM	
Acenaphthene	ND	8.0	10		µg/L	1	3/3/2016 4:38:59 PM	24000
Acenaphthylene	ND	7.2	10		µg/L	1	3/3/2016 4:38:59 PM	24000
Aniline	ND	9.8	10		µg/L	1	3/3/2016 4:38:59 PM	24000
Anthracene	ND	6.6	10		µg/L	1	3/3/2016 4:38:59 PM	24000
Azobenzene	ND	9.3	10		µg/L	1	3/3/2016 4:38:59 PM	24000
Benz(a)anthracene	ND	6.1	10		µg/L	1	3/3/2016 4:38:59 PM	24000
Benzo(a)pyrene	ND	6.3	10		µg/L	1	3/3/2016 4:38:59 PM	24000
Benzo(b)fluoranthene	ND	6.6	10		µg/L	1	3/3/2016 4:38:59 PM	24000
Benzo(g,h,i)perylene	ND	6.8	10		µg/L	1	3/3/2016 4:38:59 PM	24000
Benzo(k)fluoranthene	ND	7.2	10		µg/L	1	3/3/2016 4:38:59 PM	24000
Benzoic acid	ND	9.8	20		µg/L	1	3/3/2016 4:38:59 PM	24000
Benzyl alcohol	ND	8.0	10		µg/L	1	3/3/2016 4:38:59 PM	24000
Bis(2-chloroethoxy)methane	ND	7.3	10		µg/L	1	3/3/2016 4:38:59 PM	24000
Bis(2-chloroethyl)ether	ND	8.3	10		µg/L	1	3/3/2016 4:38:59 PM	24000
Bis(2-chloroisopropyl)ether	ND	9.1	10		µg/L	1	3/3/2016 4:38:59 PM	24000
Bis(2-ethylhexyl)phthalate	ND	7.5	10		µg/L	1	3/3/2016 4:38:59 PM	24000
4-Bromophenyl phenyl ether	ND	8.6	10		µg/L	1	3/3/2016 4:38:59 PM	24000
Butyl benzyl phthalate	ND	7.8	10		µg/L	1	3/3/2016 4:38:59 PM	24000
Carbazole	ND	7.2	10		µg/L	1	3/3/2016 4:38:59 PM	24000
4-Chloro-3-methylphenol	ND	8.0	10		µg/L	1	3/3/2016 4:38:59 PM	24000
4-Chloroaniline	ND	7.1	10		µg/L	1	3/3/2016 4:38:59 PM	24000
2-Chloronaphthalene	ND	7.2	10		µg/L	1	3/3/2016 4:38:59 PM	24000
2-Chlorophenol	ND	8.7	10		µg/L	1	3/3/2016 4:38:59 PM	24000
4-Chlorophenyl phenyl ether	ND	8.2	10		µg/L	1	3/3/2016 4:38:59 PM	24000
Chrysene	ND	6.6	10		µg/L	1	3/3/2016 4:38:59 PM	24000
Di-n-butyl phthalate	ND	8.1	10		µg/L	1	3/3/2016 4:38:59 PM	24000
Di-n-octyl phthalate	ND	6.3	10		µg/L	1	3/3/2016 4:38:59 PM	24000

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1602B49

Date Reported: 4/1/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-41

Project: Quarterly GW Sampling

Collection Date: 2/24/2016 4:50:00 PM

Lab ID: 1602B49-005

Matrix: AQUEOUS

Received Date: 2/26/2016 4:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: DAM	
Dibenz(a,h)anthracene	ND	6.8	10		µg/L	1	3/3/2016 4:38:59 PM	24000
Dibenzofuran	ND	8.6	10		µg/L	1	3/3/2016 4:38:59 PM	24000
1,2-Dichlorobenzene	ND	6.4	10		µg/L	1	3/3/2016 4:38:59 PM	24000
1,3-Dichlorobenzene	ND	6.1	10		µg/L	1	3/3/2016 4:38:59 PM	24000
1,4-Dichlorobenzene	ND	6.3	10		µg/L	1	3/3/2016 4:38:59 PM	24000
3,3'-Dichlorobenzidine	ND	4.7	10		µg/L	1	3/3/2016 4:38:59 PM	24000
Diethyl phthalate	ND	8.2	10		µg/L	1	3/3/2016 4:38:59 PM	24000
Dimethyl phthalate	ND	7.5	10		µg/L	1	3/3/2016 4:38:59 PM	24000
2,4-Dichlorophenol	ND	7.6	20		µg/L	1	3/3/2016 4:38:59 PM	24000
2,4-Dimethylphenol	ND	4.7	10		µg/L	1	3/3/2016 4:38:59 PM	24000
4,6-Dinitro-2-methylphenol	ND	7.3	20		µg/L	1	3/3/2016 4:38:59 PM	24000
2,4-Dinitrophenol	ND	9.9	20		µg/L	1	3/3/2016 4:38:59 PM	24000
2,4-Dinitrotoluene	ND	8.5	10		µg/L	1	3/3/2016 4:38:59 PM	24000
2,6-Dinitrotoluene	ND	7.5	10		µg/L	1	3/3/2016 4:38:59 PM	24000
Fluoranthene	ND	6.1	10		µg/L	1	3/3/2016 4:38:59 PM	24000
Fluorene	ND	7.2	10		µg/L	1	3/3/2016 4:38:59 PM	24000
Hexachlorobenzene	ND	7.1	10		µg/L	1	3/3/2016 4:38:59 PM	24000
Hexachlorobutadiene	ND	5.2	10		µg/L	1	3/3/2016 4:38:59 PM	24000
Hexachlorocyclopentadiene	ND	5.2	10		µg/L	1	3/3/2016 4:38:59 PM	24000
Hexachloroethane	ND	5.8	10		µg/L	1	3/3/2016 4:38:59 PM	24000
Indeno(1,2,3-cd)pyrene	ND	5.6	10		µg/L	1	3/3/2016 4:38:59 PM	24000
Isophorone	ND	8.1	10		µg/L	1	3/3/2016 4:38:59 PM	24000
1-Methylnaphthalene	ND	6.8	10		µg/L	1	3/3/2016 4:38:59 PM	24000
2-Methylnaphthalene	ND	7.0	10		µg/L	1	3/3/2016 4:38:59 PM	24000
2-Methylphenol	ND	8.2	10		µg/L	1	3/3/2016 4:38:59 PM	24000
3+4-Methylphenol	ND	7.1	10		µg/L	1	3/3/2016 4:38:59 PM	24000
N-Nitrosodi-n-propylamine	ND	7.8	10		µg/L	1	3/3/2016 4:38:59 PM	24000
N-Nitrosodimethylamine	ND	9.1	10		µg/L	1	3/3/2016 4:38:59 PM	24000
N-Nitrosodiphenylamine	ND	6.2	10		µg/L	1	3/3/2016 4:38:59 PM	24000
Naphthalene	ND	5.9	10		µg/L	1	3/3/2016 4:38:59 PM	24000
2-Nitroaniline	ND	9.0	10		µg/L	1	3/3/2016 4:38:59 PM	24000
3-Nitroaniline	ND	8.8	10		µg/L	1	3/3/2016 4:38:59 PM	24000
4-Nitroaniline	ND	9.1	10		µg/L	1	3/3/2016 4:38:59 PM	24000
Nitrobenzene	ND	7.8	10		µg/L	1	3/3/2016 4:38:59 PM	24000
2-Nitrophenol	ND	7.6	10		µg/L	1	3/3/2016 4:38:59 PM	24000
4-Nitrophenol	ND	6.7	10		µg/L	1	3/3/2016 4:38:59 PM	24000
Pentachlorophenol	ND	7.6	20		µg/L	1	3/3/2016 4:38:59 PM	24000
Phenanthrene	ND	6.8	10		µg/L	1	3/3/2016 4:38:59 PM	24000
Phenol	ND	5.1	10		µg/L	1	3/3/2016 4:38:59 PM	24000

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1602B49

Date Reported: 4/1/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-41

Project: Quarterly GW Sampling

Collection Date: 2/24/2016 4:50:00 PM

Lab ID: 1602B49-005

Matrix: AQUEOUS

Received Date: 2/26/2016 4:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: DAM	
Pyrene	ND	5.5	10		µg/L	1	3/3/2016 4:38:59 PM	24000
Pyridine	ND	6.7	10		µg/L	1	3/3/2016 4:38:59 PM	24000
1,2,4-Trichlorobenzene	ND	6.2	10		µg/L	1	3/3/2016 4:38:59 PM	24000
2,4,5-Trichlorophenol	ND	8.4	10		µg/L	1	3/3/2016 4:38:59 PM	24000
2,4,6-Trichlorophenol	ND	8.8	10		µg/L	1	3/3/2016 4:38:59 PM	24000
Surr: 2-Fluorophenol	41.7	0	4.63-113		%Rec	1	3/3/2016 4:38:59 PM	24000
Surr: Phenol-d5	28.6	0	4.13-124		%Rec	1	3/3/2016 4:38:59 PM	24000
Surr: 2,4,6-Tribromophenol	56.4	0	5.14-132		%Rec	1	3/3/2016 4:38:59 PM	24000
Surr: Nitrobenzene-d5	80.4	0	9.13-140		%Rec	1	3/3/2016 4:38:59 PM	24000
Surr: 2-Fluorobiphenyl	74.6	0	10.8-132		%Rec	1	3/3/2016 4:38:59 PM	24000
Surr: 4-Terphenyl-d14	63.4	0	12.9-107		%Rec	1	3/3/2016 4:38:59 PM	24000
EPA METHOD 8260B: VOLATILES							Analyst: RAA	
Benzene	ND	0.096	1.0		µg/L	1	3/3/2016 3:47:22 PM	R32574
Toluene	ND	0.089	1.0		µg/L	1	3/3/2016 3:47:22 PM	R32574
Ethylbenzene	ND	0.11	1.0		µg/L	1	3/3/2016 3:47:22 PM	R32574
Methyl tert-butyl ether (MTBE)	0.68	0.21	1.0	J	µg/L	1	3/3/2016 3:47:22 PM	R32574
1,2,4-Trimethylbenzene	ND	0.10	1.0		µg/L	1	3/3/2016 3:47:22 PM	R32574
1,3,5-Trimethylbenzene	ND	0.12	1.0		µg/L	1	3/3/2016 3:47:22 PM	R32574
1,2-Dichloroethane (EDC)	1.9	0.053	1.0		µg/L	1	3/3/2016 3:47:22 PM	R32574
1,2-Dibromoethane (EDB)	ND	0.11	1.0		µg/L	1	3/3/2016 3:47:22 PM	R32574
Naphthalene	ND	0.083	2.0		µg/L	1	3/3/2016 3:47:22 PM	R32574
1-Methylnaphthalene	ND	0.20	4.0		µg/L	1	3/3/2016 3:47:22 PM	R32574
2-Methylnaphthalene	ND	0.16	4.0		µg/L	1	3/3/2016 3:47:22 PM	R32574
Acetone	ND	0.88	10		µg/L	1	3/3/2016 3:47:22 PM	R32574
Bromobenzene	ND	0.080	1.0		µg/L	1	3/3/2016 3:47:22 PM	R32574
Bromodichloromethane	ND	0.098	1.0		µg/L	1	3/3/2016 3:47:22 PM	R32574
Bromoform	ND	0.10	1.0		µg/L	1	3/3/2016 3:47:22 PM	R32574
Bromomethane	ND	0.78	3.0		µg/L	1	3/3/2016 3:47:22 PM	R32574
2-Butanone	ND	0.32	10		µg/L	1	3/3/2016 3:47:22 PM	R32574
Carbon disulfide	ND	0.60	10		µg/L	1	3/3/2016 3:47:22 PM	R32574
Carbon Tetrachloride	ND	0.11	1.0		µg/L	1	3/3/2016 3:47:22 PM	R32574
Chlorobenzene	ND	0.10	1.0		µg/L	1	3/3/2016 3:47:22 PM	R32574
Chloroethane	ND	0.15	2.0		µg/L	1	3/3/2016 3:47:22 PM	R32574
Chloroform	ND	0.089	1.0		µg/L	1	3/3/2016 3:47:22 PM	R32574
Chloromethane	ND	0.21	3.0		µg/L	1	3/3/2016 3:47:22 PM	R32574
2-Chlorotoluene	ND	0.40	1.0		µg/L	1	3/3/2016 3:47:22 PM	R32574
4-Chlorotoluene	ND	0.13	1.0		µg/L	1	3/3/2016 3:47:22 PM	R32574
cis-1,2-DCE	ND	0.12	1.0		µg/L	1	3/3/2016 3:47:22 PM	R32574
cis-1,3-Dichloropropene	ND	0.10	1.0		µg/L	1	3/3/2016 3:47:22 PM	R32574

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1602B49

Date Reported: 4/1/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-41

Project: Quarterly GW Sampling

Collection Date: 2/24/2016 4:50:00 PM

Lab ID: 1602B49-005

Matrix: AQUEOUS

Received Date: 2/26/2016 4:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: RAA	
1,2-Dibromo-3-chloropropane	ND	0.15	2.0		µg/L	1	3/3/2016 3:47:22 PM	R32574
Dibromochloromethane	ND	0.087	1.0		µg/L	1	3/3/2016 3:47:22 PM	R32574
Dibromomethane	ND	0.12	1.0		µg/L	1	3/3/2016 3:47:22 PM	R32574
1,2-Dichlorobenzene	ND	0.40	1.0		µg/L	1	3/3/2016 3:47:22 PM	R32574
1,3-Dichlorobenzene	ND	0.14	1.0		µg/L	1	3/3/2016 3:47:22 PM	R32574
1,4-Dichlorobenzene	ND	0.14	1.0		µg/L	1	3/3/2016 3:47:22 PM	R32574
Dichlorodifluoromethane	ND	0.32	1.0		µg/L	1	3/3/2016 3:47:22 PM	R32574
1,1-Dichloroethane	2.6	0.11	1.0		µg/L	1	3/3/2016 3:47:22 PM	R32574
1,1-Dichloroethene	4.1	0.076	1.0		µg/L	1	3/3/2016 3:47:22 PM	R32574
1,2-Dichloropropane	ND	0.047	1.0		µg/L	1	3/3/2016 3:47:22 PM	R32574
1,3-Dichloropropane	ND	0.16	1.0		µg/L	1	3/3/2016 3:47:22 PM	R32574
2,2-Dichloropropane	ND	0.12	2.0		µg/L	1	3/3/2016 3:47:22 PM	R32574
1,1-Dichloropropene	ND	0.13	1.0		µg/L	1	3/3/2016 3:47:22 PM	R32574
Hexachlorobutadiene	ND	0.20	1.0		µg/L	1	3/3/2016 3:47:22 PM	R32574
2-Hexanone	ND	0.36	10		µg/L	1	3/3/2016 3:47:22 PM	R32574
Isopropylbenzene	ND	0.098	1.0		µg/L	1	3/3/2016 3:47:22 PM	R32574
4-Isopropyltoluene	ND	0.14	1.0		µg/L	1	3/3/2016 3:47:22 PM	R32574
4-Methyl-2-pentanone	ND	0.15	10		µg/L	1	3/3/2016 3:47:22 PM	R32574
Methylene Chloride	ND	0.063	3.0		µg/L	1	3/3/2016 3:47:22 PM	R32574
n-Butylbenzene	ND	0.16	3.0		µg/L	1	3/3/2016 3:47:22 PM	R32574
n-Propylbenzene	ND	0.13	1.0		µg/L	1	3/3/2016 3:47:22 PM	R32574
sec-Butylbenzene	ND	0.11	1.0		µg/L	1	3/3/2016 3:47:22 PM	R32574
Styrene	ND	0.095	1.0		µg/L	1	3/3/2016 3:47:22 PM	R32574
tert-Butylbenzene	ND	0.096	1.0		µg/L	1	3/3/2016 3:47:22 PM	R32574
1,1,1,2-Tetrachloroethane	ND	0.11	1.0		µg/L	1	3/3/2016 3:47:22 PM	R32574
1,1,2,2-Tetrachloroethane	ND	0.11	2.0		µg/L	1	3/3/2016 3:47:22 PM	R32574
Tetrachloroethene (PCE)	ND	0.15	1.0		µg/L	1	3/3/2016 3:47:22 PM	R32574
trans-1,2-DCE	ND	0.40	1.0		µg/L	1	3/3/2016 3:47:22 PM	R32574
trans-1,3-Dichloropropene	ND	0.085	1.0		µg/L	1	3/3/2016 3:47:22 PM	R32574
1,2,3-Trichlorobenzene	ND	0.11	1.0		µg/L	1	3/3/2016 3:47:22 PM	R32574
1,2,4-Trichlorobenzene	ND	0.13	1.0		µg/L	1	3/3/2016 3:47:22 PM	R32574
1,1,1-Trichloroethane	ND	0.063	1.0		µg/L	1	3/3/2016 3:47:22 PM	R32574
1,1,2-Trichloroethane	0.28	0.077	1.0	J	µg/L	1	3/3/2016 3:47:22 PM	R32574
Trichloroethene (TCE)	ND	0.18	1.0		µg/L	1	3/3/2016 3:47:22 PM	R32574
Trichlorofluoromethane	ND	0.088	1.0		µg/L	1	3/3/2016 3:47:22 PM	R32574
1,2,3-Trichloropropane	ND	0.11	2.0		µg/L	1	3/3/2016 3:47:22 PM	R32574
Vinyl chloride	ND	0.063	1.0		µg/L	1	3/3/2016 3:47:22 PM	R32574
Xylenes, Total	ND	0.32	1.5		µg/L	1	3/3/2016 3:47:22 PM	R32574
Surr: 1,2-Dichloroethane-d4	101	0	70-130		%Rec	1	3/3/2016 3:47:22 PM	R32574

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1602B49

Date Reported: 4/1/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-41

Project: Quarterly GW Sampling

Collection Date: 2/24/2016 4:50:00 PM

Lab ID: 1602B49-005

Matrix: AQUEOUS

Received Date: 2/26/2016 4:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: RAA	
Surr: 4-Bromofluorobenzene	102	0	70-130		%Rec	1	3/3/2016 3:47:22 PM	R32574
Surr: Dibromofluoromethane	105	0	70-130		%Rec	1	3/3/2016 3:47:22 PM	R32574
Surr: Toluene-d8	96.7	0	70-130		%Rec	1	3/3/2016 3:47:22 PM	R32574

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1602B49

Date Reported: 4/1/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: TRIP BLANK

Project: Quarterly GW Sampling

Collection Date:

Lab ID: 1602B49-006

Matrix: TRIP BLANK

Received Date: 2/26/2016 4:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB	
Gasoline Range Organics (GRO)	ND	0.025	0.050		mg/L	1	3/1/2016 6:35:44 PM	A32486
Surr: BFB	83.7	0	49.5-130		%Rec	1	3/1/2016 6:35:44 PM	A32486
EPA METHOD 8260B: VOLATILES							Analyst: RAA	
Benzene	ND	0.096	1.0		µg/L	1	3/4/2016 1:51:16 AM	B32574
Toluene	ND	0.089	1.0		µg/L	1	3/4/2016 1:51:16 AM	B32574
Ethylbenzene	ND	0.11	1.0		µg/L	1	3/4/2016 1:51:16 AM	B32574
Methyl tert-butyl ether (MTBE)	ND	0.21	1.0		µg/L	1	3/4/2016 1:51:16 AM	B32574
1,2,4-Trimethylbenzene	ND	0.10	1.0		µg/L	1	3/4/2016 1:51:16 AM	B32574
1,3,5-Trimethylbenzene	ND	0.12	1.0		µg/L	1	3/4/2016 1:51:16 AM	B32574
1,2-Dichloroethane (EDC)	ND	0.053	1.0		µg/L	1	3/4/2016 1:51:16 AM	B32574
1,2-Dibromoethane (EDB)	ND	0.11	1.0		µg/L	1	3/4/2016 1:51:16 AM	B32574
Naphthalene	ND	0.083	2.0		µg/L	1	3/4/2016 1:51:16 AM	B32574
1-Methylnaphthalene	ND	0.20	4.0		µg/L	1	3/4/2016 1:51:16 AM	B32574
2-Methylnaphthalene	ND	0.16	4.0		µg/L	1	3/4/2016 1:51:16 AM	B32574
Acetone	ND	0.88	10		µg/L	1	3/4/2016 1:51:16 AM	B32574
Bromobenzene	ND	0.080	1.0		µg/L	1	3/4/2016 1:51:16 AM	B32574
Bromodichloromethane	ND	0.098	1.0		µg/L	1	3/4/2016 1:51:16 AM	B32574
Bromoform	ND	0.10	1.0		µg/L	1	3/4/2016 1:51:16 AM	B32574
Bromomethane	ND	0.78	3.0		µg/L	1	3/4/2016 1:51:16 AM	B32574
2-Butanone	ND	0.32	10		µg/L	1	3/4/2016 1:51:16 AM	B32574
Carbon disulfide	ND	0.60	10		µg/L	1	3/4/2016 1:51:16 AM	B32574
Carbon Tetrachloride	ND	0.11	1.0		µg/L	1	3/4/2016 1:51:16 AM	B32574
Chlorobenzene	ND	0.10	1.0		µg/L	1	3/4/2016 1:51:16 AM	B32574
Chloroethane	ND	0.15	2.0		µg/L	1	3/4/2016 1:51:16 AM	B32574
Chloroform	ND	0.089	1.0		µg/L	1	3/4/2016 1:51:16 AM	B32574
Chloromethane	ND	0.21	3.0		µg/L	1	3/4/2016 1:51:16 AM	B32574
2-Chlorotoluene	ND	0.40	1.0		µg/L	1	3/4/2016 1:51:16 AM	B32574
4-Chlorotoluene	ND	0.13	1.0		µg/L	1	3/4/2016 1:51:16 AM	B32574
cis-1,2-DCE	ND	0.12	1.0		µg/L	1	3/4/2016 1:51:16 AM	B32574
cis-1,3-Dichloropropene	ND	0.10	1.0		µg/L	1	3/4/2016 1:51:16 AM	B32574
1,2-Dibromo-3-chloropropane	ND	0.15	2.0		µg/L	1	3/4/2016 1:51:16 AM	B32574
Dibromochloromethane	ND	0.087	1.0		µg/L	1	3/4/2016 1:51:16 AM	B32574
Dibromomethane	ND	0.12	1.0		µg/L	1	3/4/2016 1:51:16 AM	B32574
1,2-Dichlorobenzene	ND	0.40	1.0		µg/L	1	3/4/2016 1:51:16 AM	B32574
1,3-Dichlorobenzene	ND	0.14	1.0		µg/L	1	3/4/2016 1:51:16 AM	B32574
1,4-Dichlorobenzene	ND	0.14	1.0		µg/L	1	3/4/2016 1:51:16 AM	B32574
Dichlorodifluoromethane	ND	0.32	1.0		µg/L	1	3/4/2016 1:51:16 AM	B32574
1,1-Dichloroethane	ND	0.11	1.0		µg/L	1	3/4/2016 1:51:16 AM	B32574
1,1-Dichloroethene	ND	0.076	1.0		µg/L	1	3/4/2016 1:51:16 AM	B32574

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1602B49

Date Reported: 4/1/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: TRIP BLANK

Project: Quarterly GW Sampling

Collection Date:

Lab ID: 1602B49-006

Matrix: TRIP BLANK

Received Date: 2/26/2016 4:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: RAA	
1,2-Dichloropropane	ND	0.047	1.0		µg/L	1	3/4/2016 1:51:16 AM	B32574
1,3-Dichloropropane	ND	0.16	1.0		µg/L	1	3/4/2016 1:51:16 AM	B32574
2,2-Dichloropropane	ND	0.12	2.0		µg/L	1	3/4/2016 1:51:16 AM	B32574
1,1-Dichloropropene	ND	0.13	1.0		µg/L	1	3/4/2016 1:51:16 AM	B32574
Hexachlorobutadiene	ND	0.20	1.0		µg/L	1	3/4/2016 1:51:16 AM	B32574
2-Hexanone	ND	0.36	10		µg/L	1	3/4/2016 1:51:16 AM	B32574
Isopropylbenzene	ND	0.098	1.0		µg/L	1	3/4/2016 1:51:16 AM	B32574
4-Isopropyltoluene	ND	0.14	1.0		µg/L	1	3/4/2016 1:51:16 AM	B32574
4-Methyl-2-pentanone	ND	0.15	10		µg/L	1	3/4/2016 1:51:16 AM	B32574
Methylene Chloride	ND	0.063	3.0		µg/L	1	3/4/2016 1:51:16 AM	B32574
n-Butylbenzene	ND	0.16	3.0		µg/L	1	3/4/2016 1:51:16 AM	B32574
n-Propylbenzene	ND	0.13	1.0		µg/L	1	3/4/2016 1:51:16 AM	B32574
sec-Butylbenzene	ND	0.11	1.0		µg/L	1	3/4/2016 1:51:16 AM	B32574
Styrene	ND	0.095	1.0		µg/L	1	3/4/2016 1:51:16 AM	B32574
tert-Butylbenzene	ND	0.096	1.0		µg/L	1	3/4/2016 1:51:16 AM	B32574
1,1,1,2-Tetrachloroethane	ND	0.11	1.0		µg/L	1	3/4/2016 1:51:16 AM	B32574
1,1,2,2-Tetrachloroethane	ND	0.11	2.0		µg/L	1	3/4/2016 1:51:16 AM	B32574
Tetrachloroethene (PCE)	ND	0.15	1.0		µg/L	1	3/4/2016 1:51:16 AM	B32574
trans-1,2-DCE	ND	0.40	1.0		µg/L	1	3/4/2016 1:51:16 AM	B32574
trans-1,3-Dichloropropene	ND	0.085	1.0		µg/L	1	3/4/2016 1:51:16 AM	B32574
1,2,3-Trichlorobenzene	ND	0.11	1.0		µg/L	1	3/4/2016 1:51:16 AM	B32574
1,2,4-Trichlorobenzene	ND	0.13	1.0		µg/L	1	3/4/2016 1:51:16 AM	B32574
1,1,1-Trichloroethane	ND	0.063	1.0		µg/L	1	3/4/2016 1:51:16 AM	B32574
1,1,2-Trichloroethane	ND	0.077	1.0		µg/L	1	3/4/2016 1:51:16 AM	B32574
Trichloroethene (TCE)	ND	0.18	1.0		µg/L	1	3/4/2016 1:51:16 AM	B32574
Trichlorofluoromethane	ND	0.088	1.0		µg/L	1	3/4/2016 1:51:16 AM	B32574
1,2,3-Trichloropropane	ND	0.11	2.0		µg/L	1	3/4/2016 1:51:16 AM	B32574
Vinyl chloride	ND	0.063	1.0		µg/L	1	3/4/2016 1:51:16 AM	B32574
Xylenes, Total	ND	0.32	1.5		µg/L	1	3/4/2016 1:51:16 AM	B32574
Surr: 1,2-Dichloroethane-d4	90.9	0	70-130		%Rec	1	3/4/2016 1:51:16 AM	B32574
Surr: 4-Bromofluorobenzene	94.8	0	70-130		%Rec	1	3/4/2016 1:51:16 AM	B32574
Surr: Dibromofluoromethane	102	0	70-130		%Rec	1	3/4/2016 1:51:16 AM	B32574
Surr: Toluene-d8	103	0	70-130		%Rec	1	3/4/2016 1:51:16 AM	B32574

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E 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	P Sample pH Not In Range
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1602B49

Date Reported: 4/1/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-1

Project: Quarterly GW Sampling

Collection Date: 2/24/2016 10:10:00 AM

Lab ID: 1602B49-007

Matrix: AQUEOUS

Received Date: 2/26/2016 4:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015M/D: DIESEL RANGE							Analyst: KJH	
Diesel Range Organics (DRO)	3.0	0.69	1.0		mg/L	1	3/1/2016 3:42:29 PM	24002
Motor Oil Range Organics (MRO)	ND	5.0	5.0		mg/L	1	3/1/2016 3:42:29 PM	24002
Surr: DNOP	97.7	0	70-141		%Rec	1	3/1/2016 3:42:29 PM	24002
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB	
Gasoline Range Organics (GRO)	51	1.3	2.5		mg/L	50	3/1/2016 8:38:50 PM	A32486
Surr: BFB	94.8	0	49.5-130		%Rec	50	3/1/2016 8:38:50 PM	A32486
EPA METHOD 300.0: ANIONS							Analyst: LGT	
Fluoride	ND	0.023	0.10		mg/L	1	3/3/2016 2:20:44 AM	A32541
Chloride	470	1.4	25		mg/L	50	3/9/2016 9:01:42 PM	R32693
Bromide	2.6	0.65	2.0		mg/L	20	3/3/2016 2:33:09 AM	A32541
Phosphorus, Orthophosphate (As P)	ND	0.22	0.50	H	mg/L	1	3/3/2016 2:20:44 AM	A32541
Sulfate	0.55	0.064	0.50		mg/L	1	3/3/2016 2:20:44 AM	A32541
Nitrate+Nitrite as N	2.6	0.42	1.0		mg/L	5	3/1/2016 12:32:02 PM	R32498
EPA METHOD 200.7: DISSOLVED METALS							Analyst: MED	
Barium	3.2	0.013	0.020	*	mg/L	10	3/16/2016 1:18:34 PM	D32831
Cadmium	ND	0.00075	0.0020		mg/L	1	3/11/2016 4:48:28 PM	C32754
Calcium	130	2.6	10		mg/L	10	3/16/2016 1:18:34 PM	D32831
Chromium	ND	0.0018	0.0060		mg/L	1	3/11/2016 4:48:28 PM	C32754
Copper	ND	0.0040	0.0060		mg/L	1	3/15/2016 12:45:43 PM	A32792
Iron	5.2	0.091	0.20	*	mg/L	10	3/16/2016 1:18:34 PM	D32831
Magnesium	27	0.013	1.0		mg/L	1	3/11/2016 4:48:28 PM	C32754
Manganese	2.1	0.0032	0.020	*	mg/L	10	3/16/2016 1:18:34 PM	D32831
Potassium	0.81	0.18	1.0	J	mg/L	1	3/11/2016 4:48:28 PM	C32754
Silver	ND	0.0028	0.0050		mg/L	1	3/11/2016 4:48:28 PM	C32754
Sodium	490	0.96	10		mg/L	10	3/16/2016 1:18:34 PM	D32831
Zinc	0.077	0.0028	0.010		mg/L	1	3/16/2016 1:16:54 PM	D32831
EPA METHOD 200.7: TOTAL METALS							Analyst: ELS	
Barium	3.3	0.011	0.020	*	mg/L	10	3/11/2016 3:10:55 PM	24015
Cadmium	ND	0.00062	0.0020		mg/L	1	3/11/2016 3:09:14 PM	24015
Chromium	ND	0.0022	0.0060		mg/L	1	3/11/2016 3:09:14 PM	24015
Copper	ND	0.0051	0.0060		mg/L	1	3/11/2016 3:09:14 PM	24015
Iron	5.5	0.072	0.20	*	mg/L	10	3/11/2016 3:10:55 PM	24015
Manganese	2.2	0.015	0.020	*	mg/L	10	3/11/2016 3:10:55 PM	24015
Silver	ND	0.0021	0.0050		mg/L	1	3/23/2016 11:16:21 AM	24381
Zinc	0.0099	0.0039	0.010	J	mg/L	1	3/11/2016 3:09:14 PM	24015
EPA 200.8: DISSOLVED METALS							Analyst: JLF	
Arsenic	0.0018	0.000065	0.0010		mg/L	1	3/15/2016 5:36:47 PM	C32805

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1602B49

Date Reported: 4/1/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-1

Project: Quarterly GW Sampling

Collection Date: 2/24/2016 10:10:00 AM

Lab ID: 1602B49-007

Matrix: AQUEOUS

Received Date: 2/26/2016 4:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA 200.8: DISSOLVED METALS							Analyst: JLF	
Lead	ND	0.00013	0.0025		mg/L	5	3/22/2016 7:42:57 PM	C32978
Selenium	0.0046	0.00097	0.0050	J	mg/L	5	3/22/2016 7:42:57 PM	C32978
Uranium	0.00017	0.000024	0.0025	J	mg/L	5	3/22/2016 7:42:57 PM	C32978
200.8 ICPMS METALS:TOTAL							Analyst: JLF	
Arsenic	0.0020	0.00029	0.0010		mg/L	1	3/11/2016 1:27:30 PM	24015
Lead	0.0011	0.000047	0.00050		mg/L	1	3/11/2016 1:27:30 PM	24015
Selenium	0.0028	0.00062	0.0050	J	mg/L	5	3/11/2016 3:32:06 PM	24015
Uranium	0.00029	0.0000049	0.00050	J	mg/L	1	3/11/2016 1:27:30 PM	24015
EPA METHOD 245.1: MERCURY							Analyst: DBD	
Mercury	ND	0.000053	0.00020		mg/L	1	3/2/2016 1:14:10 PM	24021
EPA METHOD 8270C: SEMIVOLATILES							Analyst: DAM	
Acenaphthene	ND	8.0	10		µg/L	1	3/3/2016 5:09:13 PM	24000
Acenaphthylene	ND	7.2	10		µg/L	1	3/3/2016 5:09:13 PM	24000
Aniline	9.9	9.8	10	J	µg/L	1	3/3/2016 5:09:13 PM	24000
Anthracene	ND	6.6	10		µg/L	1	3/3/2016 5:09:13 PM	24000
Azobenzene	ND	9.3	10		µg/L	1	3/3/2016 5:09:13 PM	24000
Benz(a)anthracene	ND	6.1	10		µg/L	1	3/3/2016 5:09:13 PM	24000
Benzo(a)pyrene	ND	6.3	10		µg/L	1	3/3/2016 5:09:13 PM	24000
Benzo(b)fluoranthene	ND	6.6	10		µg/L	1	3/3/2016 5:09:13 PM	24000
Benzo(g,h,i)perylene	ND	6.8	10		µg/L	1	3/3/2016 5:09:13 PM	24000
Benzo(k)fluoranthene	ND	7.2	10		µg/L	1	3/3/2016 5:09:13 PM	24000
Benzoic acid	ND	9.8	20		µg/L	1	3/3/2016 5:09:13 PM	24000
Benzyl alcohol	ND	8.0	10		µg/L	1	3/3/2016 5:09:13 PM	24000
Bis(2-chloroethoxy)methane	ND	7.3	10		µg/L	1	3/3/2016 5:09:13 PM	24000
Bis(2-chloroethyl)ether	ND	8.3	10		µg/L	1	3/3/2016 5:09:13 PM	24000
Bis(2-chloroisopropyl)ether	ND	9.1	10		µg/L	1	3/3/2016 5:09:13 PM	24000
Bis(2-ethylhexyl)phthalate	ND	7.5	10		µg/L	1	3/3/2016 5:09:13 PM	24000
4-Bromophenyl phenyl ether	ND	8.6	10		µg/L	1	3/3/2016 5:09:13 PM	24000
Butyl benzyl phthalate	ND	7.8	10		µg/L	1	3/3/2016 5:09:13 PM	24000
Carbazole	ND	7.2	10		µg/L	1	3/3/2016 5:09:13 PM	24000
4-Chloro-3-methylphenol	ND	8.0	10		µg/L	1	3/3/2016 5:09:13 PM	24000
4-Chloroaniline	ND	7.1	10		µg/L	1	3/3/2016 5:09:13 PM	24000
2-Chloronaphthalene	ND	7.2	10		µg/L	1	3/3/2016 5:09:13 PM	24000
2-Chlorophenol	ND	8.7	10		µg/L	1	3/3/2016 5:09:13 PM	24000
4-Chlorophenyl phenyl ether	ND	8.2	10		µg/L	1	3/3/2016 5:09:13 PM	24000
Chrysene	ND	6.6	10		µg/L	1	3/3/2016 5:09:13 PM	24000
Di-n-butyl phthalate	ND	8.1	10		µg/L	1	3/3/2016 5:09:13 PM	24000
Di-n-octyl phthalate	ND	6.3	10		µg/L	1	3/3/2016 5:09:13 PM	24000

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-1

Project: Quarterly GW Sampling

Collection Date: 2/24/2016 10:10:00 AM

Lab ID: 1602B49-007

Matrix: AQUEOUS

Received Date: 2/26/2016 4:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: DAM	
Dibenz(a,h)anthracene	ND	6.8	10		µg/L	1	3/3/2016 5:09:13 PM	24000
Dibenzofuran	ND	8.6	10		µg/L	1	3/3/2016 5:09:13 PM	24000
1,2-Dichlorobenzene	ND	6.4	10		µg/L	1	3/3/2016 5:09:13 PM	24000
1,3-Dichlorobenzene	ND	6.1	10		µg/L	1	3/3/2016 5:09:13 PM	24000
1,4-Dichlorobenzene	ND	6.3	10		µg/L	1	3/3/2016 5:09:13 PM	24000
3,3'-Dichlorobenzidine	ND	4.7	10		µg/L	1	3/3/2016 5:09:13 PM	24000
Diethyl phthalate	ND	8.2	10		µg/L	1	3/3/2016 5:09:13 PM	24000
Dimethyl phthalate	ND	7.5	10		µg/L	1	3/3/2016 5:09:13 PM	24000
2,4-Dichlorophenol	ND	7.6	20		µg/L	1	3/3/2016 5:09:13 PM	24000
2,4-Dimethylphenol	26	4.7	10		µg/L	1	3/3/2016 5:09:13 PM	24000
4,6-Dinitro-2-methylphenol	ND	7.3	20		µg/L	1	3/3/2016 5:09:13 PM	24000
2,4-Dinitrophenol	ND	9.9	20		µg/L	1	3/3/2016 5:09:13 PM	24000
2,4-Dinitrotoluene	ND	8.5	10		µg/L	1	3/3/2016 5:09:13 PM	24000
2,6-Dinitrotoluene	ND	7.5	10		µg/L	1	3/3/2016 5:09:13 PM	24000
Fluoranthene	ND	6.1	10		µg/L	1	3/3/2016 5:09:13 PM	24000
Fluorene	ND	7.2	10		µg/L	1	3/3/2016 5:09:13 PM	24000
Hexachlorobenzene	ND	7.1	10		µg/L	1	3/3/2016 5:09:13 PM	24000
Hexachlorobutadiene	ND	5.2	10		µg/L	1	3/3/2016 5:09:13 PM	24000
Hexachlorocyclopentadiene	ND	5.2	10		µg/L	1	3/3/2016 5:09:13 PM	24000
Hexachloroethane	ND	5.8	10		µg/L	1	3/3/2016 5:09:13 PM	24000
Indeno(1,2,3-cd)pyrene	ND	5.6	10		µg/L	1	3/3/2016 5:09:13 PM	24000
Isophorone	ND	8.1	10		µg/L	1	3/3/2016 5:09:13 PM	24000
1-Methylnaphthalene	52	6.8	10		µg/L	1	3/3/2016 5:09:13 PM	24000
2-Methylnaphthalene	22	7.0	10		µg/L	1	3/3/2016 5:09:13 PM	24000
2-Methylphenol	38	8.2	10		µg/L	1	3/3/2016 5:09:13 PM	24000
3+4-Methylphenol	46	7.1	10		µg/L	1	3/3/2016 5:09:13 PM	24000
N-Nitrosodi-n-propylamine	ND	7.8	10		µg/L	1	3/3/2016 5:09:13 PM	24000
N-Nitrosodimethylamine	ND	9.1	10		µg/L	1	3/3/2016 5:09:13 PM	24000
N-Nitrosodiphenylamine	ND	6.2	10		µg/L	1	3/3/2016 5:09:13 PM	24000
Naphthalene	88	5.9	10		µg/L	1	3/3/2016 5:09:13 PM	24000
2-Nitroaniline	ND	9.0	10		µg/L	1	3/3/2016 5:09:13 PM	24000
3-Nitroaniline	ND	8.8	10		µg/L	1	3/3/2016 5:09:13 PM	24000
4-Nitroaniline	ND	9.1	10		µg/L	1	3/3/2016 5:09:13 PM	24000
Nitrobenzene	ND	7.8	10		µg/L	1	3/3/2016 5:09:13 PM	24000
2-Nitrophenol	ND	7.6	10		µg/L	1	3/3/2016 5:09:13 PM	24000
4-Nitrophenol	ND	6.7	10		µg/L	1	3/3/2016 5:09:13 PM	24000
Pentachlorophenol	ND	7.6	20		µg/L	1	3/3/2016 5:09:13 PM	24000
Phenanthrene	ND	6.8	10		µg/L	1	3/3/2016 5:09:13 PM	24000
Phenol	12	5.1	10		µg/L	1	3/3/2016 5:09:13 PM	24000

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1602B49

Date Reported: 4/1/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-1

Project: Quarterly GW Sampling

Collection Date: 2/24/2016 10:10:00 AM

Lab ID: 1602B49-007

Matrix: AQUEOUS

Received Date: 2/26/2016 4:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: DAM	
Pyrene	ND	5.5	10		µg/L	1	3/3/2016 5:09:13 PM	24000
Pyridine	ND	6.7	10		µg/L	1	3/3/2016 5:09:13 PM	24000
1,2,4-Trichlorobenzene	ND	6.2	10		µg/L	1	3/3/2016 5:09:13 PM	24000
2,4,5-Trichlorophenol	ND	8.4	10		µg/L	1	3/3/2016 5:09:13 PM	24000
2,4,6-Trichlorophenol	ND	8.8	10		µg/L	1	3/3/2016 5:09:13 PM	24000
Surr: 2-Fluorophenol	38.4	0	4.63-113		%Rec	1	3/3/2016 5:09:13 PM	24000
Surr: Phenol-d5	37.0	0	4.13-124		%Rec	1	3/3/2016 5:09:13 PM	24000
Surr: 2,4,6-Tribromophenol	76.4	0	5.14-132		%Rec	1	3/3/2016 5:09:13 PM	24000
Surr: Nitrobenzene-d5	81.5	0	9.13-140		%Rec	1	3/3/2016 5:09:13 PM	24000
Surr: 2-Fluorobiphenyl	93.4	0	10.8-132		%Rec	1	3/3/2016 5:09:13 PM	24000
Surr: 4-Terphenyl-d14	65.0	0	12.9-107		%Rec	1	3/3/2016 5:09:13 PM	24000
EPA METHOD 8260B: VOLATILES							Analyst: RAA	
Benzene	9500	48	500		µg/L	500	3/3/2016 4:16:06 PM	R32574
Toluene	1800	4.5	50		µg/L	50	3/3/2016 4:44:46 PM	R32574
Ethylbenzene	850	5.6	50		µg/L	50	3/3/2016 4:44:46 PM	R32574
Methyl tert-butyl ether (MTBE)	330	11	50		µg/L	50	3/3/2016 4:44:46 PM	R32574
1,2,4-Trimethylbenzene	660	5.2	50		µg/L	50	3/3/2016 4:44:46 PM	R32574
1,3,5-Trimethylbenzene	30	5.8	50	J	µg/L	50	3/3/2016 4:44:46 PM	R32574
1,2-Dichloroethane (EDC)	9.1	2.6	50	J	µg/L	50	3/3/2016 4:44:46 PM	R32574
1,2-Dibromoethane (EDB)	ND	5.6	50		µg/L	50	3/3/2016 4:44:46 PM	R32574
Naphthalene	110	4.2	100		µg/L	50	3/3/2016 4:44:46 PM	R32574
1-Methylnaphthalene	67	10	200	J	µg/L	50	3/3/2016 4:44:46 PM	R32574
2-Methylnaphthalene	35	7.9	200	J	µg/L	50	3/3/2016 4:44:46 PM	R32574
Acetone	160	44	500	J	µg/L	50	3/3/2016 4:44:46 PM	R32574
Bromobenzene	ND	4.0	50		µg/L	50	3/3/2016 4:44:46 PM	R32574
Bromodichloromethane	ND	4.9	50		µg/L	50	3/3/2016 4:44:46 PM	R32574
Bromoform	ND	5.1	50		µg/L	50	3/3/2016 4:44:46 PM	R32574
Bromomethane	ND	39	150		µg/L	50	3/3/2016 4:44:46 PM	R32574
2-Butanone	ND	16	500		µg/L	50	3/3/2016 4:44:46 PM	R32574
Carbon disulfide	ND	30	500		µg/L	50	3/3/2016 4:44:46 PM	R32574
Carbon Tetrachloride	ND	5.4	50		µg/L	50	3/3/2016 4:44:46 PM	R32574
Chlorobenzene	ND	5.2	50		µg/L	50	3/3/2016 4:44:46 PM	R32574
Chloroethane	ND	7.3	100		µg/L	50	3/3/2016 4:44:46 PM	R32574
Chloroform	ND	4.4	50		µg/L	50	3/3/2016 4:44:46 PM	R32574
Chloromethane	ND	11	150		µg/L	50	3/3/2016 4:44:46 PM	R32574
2-Chlorotoluene	ND	20	50		µg/L	50	3/3/2016 4:44:46 PM	R32574
4-Chlorotoluene	ND	6.4	50		µg/L	50	3/3/2016 4:44:46 PM	R32574
cis-1,2-DCE	26	6.2	50	J	µg/L	50	3/3/2016 4:44:46 PM	R32574
cis-1,3-Dichloropropene	ND	5.0	50		µg/L	50	3/3/2016 4:44:46 PM	R32574

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1602B49

Date Reported: 4/1/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-1

Project: Quarterly GW Sampling

Collection Date: 2/24/2016 10:10:00 AM

Lab ID: 1602B49-007

Matrix: AQUEOUS

Received Date: 2/26/2016 4:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: RAA	
1,2-Dibromo-3-chloropropane	ND	7.7	100		µg/L	50	3/3/2016 4:44:46 PM	R32574
Dibromochloromethane	ND	4.3	50		µg/L	50	3/3/2016 4:44:46 PM	R32574
Dibromomethane	ND	6.0	50		µg/L	50	3/3/2016 4:44:46 PM	R32574
1,2-Dichlorobenzene	ND	20	50		µg/L	50	3/3/2016 4:44:46 PM	R32574
1,3-Dichlorobenzene	ND	7.2	50		µg/L	50	3/3/2016 4:44:46 PM	R32574
1,4-Dichlorobenzene	ND	7.1	50		µg/L	50	3/3/2016 4:44:46 PM	R32574
Dichlorodifluoromethane	ND	16	50		µg/L	50	3/3/2016 4:44:46 PM	R32574
1,1-Dichloroethane	60	5.4	50		µg/L	50	3/3/2016 4:44:46 PM	R32574
1,1-Dichloroethene	25	3.8	50	J	µg/L	50	3/3/2016 4:44:46 PM	R32574
1,2-Dichloropropane	ND	2.4	50		µg/L	50	3/3/2016 4:44:46 PM	R32574
1,3-Dichloropropane	ND	7.8	50		µg/L	50	3/3/2016 4:44:46 PM	R32574
2,2-Dichloropropane	ND	6.0	100		µg/L	50	3/3/2016 4:44:46 PM	R32574
1,1-Dichloropropene	ND	6.7	50		µg/L	50	3/3/2016 4:44:46 PM	R32574
Hexachlorobutadiene	ND	9.9	50		µg/L	50	3/3/2016 4:44:46 PM	R32574
2-Hexanone	ND	18	500		µg/L	50	3/3/2016 4:44:46 PM	R32574
Isopropylbenzene	46	4.9	50	J	µg/L	50	3/3/2016 4:44:46 PM	R32574
4-Isopropyltoluene	ND	7.0	50		µg/L	50	3/3/2016 4:44:46 PM	R32574
4-Methyl-2-pentanone	ND	7.5	500		µg/L	50	3/3/2016 4:44:46 PM	R32574
Methylene Chloride	16	3.1	150	J	µg/L	50	3/3/2016 4:44:46 PM	R32574
n-Butylbenzene	22	8.0	150	J	µg/L	50	3/3/2016 4:44:46 PM	R32574
n-Propylbenzene	160	6.6	50		µg/L	50	3/3/2016 4:44:46 PM	R32574
sec-Butylbenzene	8.2	5.4	50	J	µg/L	50	3/3/2016 4:44:46 PM	R32574
Styrene	ND	4.8	50		µg/L	50	3/3/2016 4:44:46 PM	R32574
tert-Butylbenzene	ND	4.8	50		µg/L	50	3/3/2016 4:44:46 PM	R32574
1,1,1,2-Tetrachloroethane	ND	5.6	50		µg/L	50	3/3/2016 4:44:46 PM	R32574
1,1,2,2-Tetrachloroethane	ND	5.3	100		µg/L	50	3/3/2016 4:44:46 PM	R32574
Tetrachloroethene (PCE)	ND	7.6	50		µg/L	50	3/3/2016 4:44:46 PM	R32574
trans-1,2-DCE	ND	20	50		µg/L	50	3/3/2016 4:44:46 PM	R32574
trans-1,3-Dichloropropene	ND	4.2	50		µg/L	50	3/3/2016 4:44:46 PM	R32574
1,2,3-Trichlorobenzene	ND	5.6	50		µg/L	50	3/3/2016 4:44:46 PM	R32574
1,2,4-Trichlorobenzene	ND	6.6	50		µg/L	50	3/3/2016 4:44:46 PM	R32574
1,1,1-Trichloroethane	ND	3.2	50		µg/L	50	3/3/2016 4:44:46 PM	R32574
1,1,2-Trichloroethane	ND	3.8	50		µg/L	50	3/3/2016 4:44:46 PM	R32574
Trichloroethene (TCE)	ND	8.8	50		µg/L	50	3/3/2016 4:44:46 PM	R32574
Trichlorofluoromethane	ND	4.4	50		µg/L	50	3/3/2016 4:44:46 PM	R32574
1,2,3-Trichloropropane	ND	5.6	100		µg/L	50	3/3/2016 4:44:46 PM	R32574
Vinyl chloride	22	3.2	50	J	µg/L	50	3/3/2016 4:44:46 PM	R32574
Xylenes, Total	1000	16	75		µg/L	50	3/3/2016 4:44:46 PM	R32574
Surr: 1,2-Dichloroethane-d4	93.1	0	70-130		%Rec	50	3/3/2016 4:44:46 PM	R32574

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1602B49

Date Reported: 4/1/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-1

Project: Quarterly GW Sampling

Collection Date: 2/24/2016 10:10:00 AM

Lab ID: 1602B49-007

Matrix: AQUEOUS

Received Date: 2/26/2016 4:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: RAA	
Surr: 4-Bromofluorobenzene	87.5	0	70-130		%Rec	50	3/3/2016 4:44:46 PM	R32574
Surr: Dibromofluoromethane	104	0	70-130		%Rec	50	3/3/2016 4:44:46 PM	R32574
Surr: Toluene-d8	100	0	70-130		%Rec	50	3/3/2016 4:44:46 PM	R32574

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1602B49

Date Reported: 4/1/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-2

Project: Quarterly GW Sampling

Collection Date: 2/24/2016 11:35:00 AM

Lab ID: 1602B49-008

Matrix: AQUEOUS

Received Date: 2/26/2016 4:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015M/D: DIESEL RANGE							Analyst: KJH	
Diesel Range Organics (DRO)	ND	0.69	1.0		mg/L	1	3/1/2016 4:03:56 PM	24002
Motor Oil Range Organics (MRO)	ND	5.0	5.0		mg/L	1	3/1/2016 4:03:56 PM	24002
Surr: DNOP	97.7	0	70-141		%Rec	1	3/1/2016 4:03:56 PM	24002
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB	
Gasoline Range Organics (GRO)	1.2	0.13	0.25		mg/L	5	3/1/2016 9:03:29 PM	A32486
Surr: BFB	88.9	0	49.5-130		%Rec	5	3/1/2016 9:03:29 PM	A32486
EPA METHOD 300.0: ANIONS							Analyst: LGT	
Fluoride	1.8	0.11	0.50		mg/L	5	3/3/2016 2:45:34 AM	A32541
Chloride	520	1.4	25		mg/L	50	3/9/2016 9:14:07 PM	R32693
Bromide	1.7	0.16	0.50		mg/L	5	3/3/2016 2:45:34 AM	A32541
Phosphorus, Orthophosphate (As P)	ND	1.1	2.5	H	mg/L	5	3/3/2016 2:45:34 AM	A32541
Sulfate	160	0.32	2.5		mg/L	5	3/3/2016 2:45:34 AM	A32541
Nitrate+Nitrite as N	8.8	0.42	1.0		mg/L	5	3/1/2016 12:44:26 PM	R32498
EPA METHOD 200.7: DISSOLVED METALS							Analyst: ELS	
Barium	0.095	0.0013	0.0020		mg/L	1	3/11/2016 4:50:09 PM	C32754
Cadmium	ND	0.00075	0.0020		mg/L	1	3/11/2016 4:50:09 PM	C32754
Calcium	68	0.26	1.0		mg/L	1	3/11/2016 4:50:09 PM	C32754
Chromium	ND	0.0018	0.0060		mg/L	1	3/11/2016 4:50:09 PM	C32754
Copper	ND	0.0040	0.0060		mg/L	1	3/15/2016 12:49:24 PM	A32792
Iron	0.55	0.0091	0.020	*	mg/L	1	3/16/2016 1:26:14 PM	D32831
Magnesium	10	0.013	1.0		mg/L	1	3/11/2016 4:50:09 PM	C32754
Manganese	0.39	0.00032	0.0020	*	mg/L	1	3/11/2016 4:50:09 PM	C32754
Potassium	3.1	0.18	1.0		mg/L	1	3/11/2016 4:50:09 PM	C32754
Silver	ND	0.0028	0.0050		mg/L	1	3/11/2016 4:50:09 PM	C32754
Sodium	600	0.96	10		mg/L	10	3/16/2016 1:28:15 PM	D32831
Zinc	0.074	0.0028	0.010		mg/L	1	3/16/2016 1:26:14 PM	D32831
EPA METHOD 200.7: TOTAL METALS							Analyst: ELS	
Barium	0.73	0.0011	0.0020		mg/L	1	3/11/2016 3:12:51 PM	24015
Cadmium	ND	0.00062	0.0020		mg/L	1	3/11/2016 3:12:51 PM	24015
Chromium	0.0098	0.0022	0.0060		mg/L	1	3/11/2016 3:12:51 PM	24015
Copper	0.018	0.0051	0.0060		mg/L	1	3/11/2016 3:12:51 PM	24015
Iron	14	0.14	0.40	*	mg/L	20	3/11/2016 3:16:24 PM	24015
Manganese	1.1	0.0076	0.010	*	mg/L	5	3/11/2016 3:14:38 PM	24015
Silver	ND	0.0021	0.0050		mg/L	1	3/23/2016 11:19:53 AM	24381
Zinc	0.057	0.0039	0.010		mg/L	1	3/11/2016 3:12:51 PM	24015
EPA 200.8: DISSOLVED METALS							Analyst: JLF	
Arsenic	0.0027	0.000065	0.0010		mg/L	1	3/15/2016 5:39:51 PM	C32805

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	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
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Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1602B49

Date Reported: 4/1/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-2

Project: Quarterly GW Sampling

Collection Date: 2/24/2016 11:35:00 AM

Lab ID: 1602B49-008

Matrix: AQUEOUS

Received Date: 2/26/2016 4:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA 200.8: DISSOLVED METALS							Analyst: JLF	
Lead	0.0020	0.00013	0.0025	J	mg/L	5	3/22/2016 7:46:01 PM	C32978
Selenium	0.0033	0.00097	0.0050	J	mg/L	5	3/22/2016 7:46:01 PM	C32978
Uranium	0.059	0.000024	0.0025	*	mg/L	5	3/22/2016 7:46:01 PM	C32978
200.8 ICPMS METALS:TOTAL							Analyst: JLF	
Arsenic	0.0045	0.00029	0.0010		mg/L	1	3/11/2016 1:30:31 PM	24015
Lead	0.023	0.00024	0.0025	*	mg/L	5	3/11/2016 3:35:07 PM	24015
Selenium	0.0033	0.00062	0.0050	J	mg/L	5	3/11/2016 3:35:07 PM	24015
Uranium	0.063	0.000025	0.0025	*	mg/L	5	3/11/2016 3:35:07 PM	24015
EPA METHOD 245.1: MERCURY							Analyst: DBD	
Mercury	0.000056	0.000053	0.00020	J	mg/L	1	3/2/2016 1:16:14 PM	24021
EPA METHOD 8270C: SEMIVOLATILES							Analyst: DAM	
Acenaphthene	ND	8.0	10		µg/L	1	3/3/2016 6:39:44 PM	24000
Acenaphthylene	ND	7.2	10		µg/L	1	3/3/2016 6:39:44 PM	24000
Aniline	ND	9.8	10		µg/L	1	3/3/2016 6:39:44 PM	24000
Anthracene	ND	6.6	10		µg/L	1	3/3/2016 6:39:44 PM	24000
Azobenzene	ND	9.3	10		µg/L	1	3/3/2016 6:39:44 PM	24000
Benz(a)anthracene	ND	6.1	10		µg/L	1	3/3/2016 6:39:44 PM	24000
Benzo(a)pyrene	ND	6.3	10		µg/L	1	3/3/2016 6:39:44 PM	24000
Benzo(b)fluoranthene	ND	6.6	10		µg/L	1	3/3/2016 6:39:44 PM	24000
Benzo(g,h,i)perylene	ND	6.8	10		µg/L	1	3/3/2016 6:39:44 PM	24000
Benzo(k)fluoranthene	ND	7.2	10		µg/L	1	3/3/2016 6:39:44 PM	24000
Benzoic acid	ND	9.8	20		µg/L	1	3/3/2016 6:39:44 PM	24000
Benzyl alcohol	ND	8.0	10		µg/L	1	3/3/2016 6:39:44 PM	24000
Bis(2-chloroethoxy)methane	ND	7.3	10		µg/L	1	3/3/2016 6:39:44 PM	24000
Bis(2-chloroethyl)ether	ND	8.3	10		µg/L	1	3/3/2016 6:39:44 PM	24000
Bis(2-chloroisopropyl)ether	ND	9.1	10		µg/L	1	3/3/2016 6:39:44 PM	24000
Bis(2-ethylhexyl)phthalate	ND	7.5	10		µg/L	1	3/3/2016 6:39:44 PM	24000
4-Bromophenyl phenyl ether	ND	8.6	10		µg/L	1	3/3/2016 6:39:44 PM	24000
Butyl benzyl phthalate	ND	7.8	10		µg/L	1	3/3/2016 6:39:44 PM	24000
Carbazole	ND	7.2	10		µg/L	1	3/3/2016 6:39:44 PM	24000
4-Chloro-3-methylphenol	ND	8.0	10		µg/L	1	3/3/2016 6:39:44 PM	24000
4-Chloroaniline	ND	7.1	10		µg/L	1	3/3/2016 6:39:44 PM	24000
2-Chloronaphthalene	ND	7.2	10		µg/L	1	3/3/2016 6:39:44 PM	24000
2-Chlorophenol	ND	8.7	10		µg/L	1	3/3/2016 6:39:44 PM	24000
4-Chlorophenyl phenyl ether	ND	8.2	10		µg/L	1	3/3/2016 6:39:44 PM	24000
Chrysene	ND	6.6	10		µg/L	1	3/3/2016 6:39:44 PM	24000
Di-n-butyl phthalate	ND	8.1	10		µg/L	1	3/3/2016 6:39:44 PM	24000
Di-n-octyl phthalate	ND	6.3	10		µg/L	1	3/3/2016 6:39:44 PM	24000

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Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1602B49

Date Reported: 4/1/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-2

Project: Quarterly GW Sampling

Collection Date: 2/24/2016 11:35:00 AM

Lab ID: 1602B49-008

Matrix: AQUEOUS

Received Date: 2/26/2016 4:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: DAM	
Dibenz(a,h)anthracene	ND	6.8	10		µg/L	1	3/3/2016 6:39:44 PM	24000
Dibenzofuran	ND	8.6	10		µg/L	1	3/3/2016 6:39:44 PM	24000
1,2-Dichlorobenzene	ND	6.4	10		µg/L	1	3/3/2016 6:39:44 PM	24000
1,3-Dichlorobenzene	ND	6.1	10		µg/L	1	3/3/2016 6:39:44 PM	24000
1,4-Dichlorobenzene	ND	6.3	10		µg/L	1	3/3/2016 6:39:44 PM	24000
3,3'-Dichlorobenzidine	ND	4.7	10		µg/L	1	3/3/2016 6:39:44 PM	24000
Diethyl phthalate	ND	8.2	10		µg/L	1	3/3/2016 6:39:44 PM	24000
Dimethyl phthalate	ND	7.5	10		µg/L	1	3/3/2016 6:39:44 PM	24000
2,4-Dichlorophenol	ND	7.6	20		µg/L	1	3/3/2016 6:39:44 PM	24000
2,4-Dimethylphenol	ND	4.7	10		µg/L	1	3/3/2016 6:39:44 PM	24000
4,6-Dinitro-2-methylphenol	ND	7.3	20		µg/L	1	3/3/2016 6:39:44 PM	24000
2,4-Dinitrophenol	ND	9.9	20		µg/L	1	3/3/2016 6:39:44 PM	24000
2,4-Dinitrotoluene	ND	8.5	10		µg/L	1	3/3/2016 6:39:44 PM	24000
2,6-Dinitrotoluene	ND	7.5	10		µg/L	1	3/3/2016 6:39:44 PM	24000
Fluoranthene	ND	6.1	10		µg/L	1	3/3/2016 6:39:44 PM	24000
Fluorene	ND	7.2	10		µg/L	1	3/3/2016 6:39:44 PM	24000
Hexachlorobenzene	ND	7.1	10		µg/L	1	3/3/2016 6:39:44 PM	24000
Hexachlorobutadiene	ND	5.2	10		µg/L	1	3/3/2016 6:39:44 PM	24000
Hexachlorocyclopentadiene	ND	5.2	10		µg/L	1	3/3/2016 6:39:44 PM	24000
Hexachloroethane	ND	5.8	10		µg/L	1	3/3/2016 6:39:44 PM	24000
Indeno(1,2,3-cd)pyrene	ND	5.6	10		µg/L	1	3/3/2016 6:39:44 PM	24000
Isophorone	ND	8.1	10		µg/L	1	3/3/2016 6:39:44 PM	24000
1-Methylnaphthalene	ND	6.8	10		µg/L	1	3/3/2016 6:39:44 PM	24000
2-Methylnaphthalene	ND	7.0	10		µg/L	1	3/3/2016 6:39:44 PM	24000
2-Methylphenol	ND	8.2	10		µg/L	1	3/3/2016 6:39:44 PM	24000
3+4-Methylphenol	ND	7.1	10		µg/L	1	3/3/2016 6:39:44 PM	24000
N-Nitrosodi-n-propylamine	ND	7.8	10		µg/L	1	3/3/2016 6:39:44 PM	24000
N-Nitrosodimethylamine	ND	9.1	10		µg/L	1	3/3/2016 6:39:44 PM	24000
N-Nitrosodiphenylamine	ND	6.2	10		µg/L	1	3/3/2016 6:39:44 PM	24000
Naphthalene	ND	5.9	10		µg/L	1	3/3/2016 6:39:44 PM	24000
2-Nitroaniline	ND	9.0	10		µg/L	1	3/3/2016 6:39:44 PM	24000
3-Nitroaniline	ND	8.8	10		µg/L	1	3/3/2016 6:39:44 PM	24000
4-Nitroaniline	ND	9.1	10		µg/L	1	3/3/2016 6:39:44 PM	24000
Nitrobenzene	ND	7.8	10		µg/L	1	3/3/2016 6:39:44 PM	24000
2-Nitrophenol	ND	7.6	10		µg/L	1	3/3/2016 6:39:44 PM	24000
4-Nitrophenol	ND	6.7	10		µg/L	1	3/3/2016 6:39:44 PM	24000
Pentachlorophenol	ND	7.6	20		µg/L	1	3/3/2016 6:39:44 PM	24000
Phenanthrene	ND	6.8	10		µg/L	1	3/3/2016 6:39:44 PM	24000
Phenol	ND	5.1	10		µg/L	1	3/3/2016 6:39:44 PM	24000

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	D	Sample Diluted Due to Matrix	E	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	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1602B49

Date Reported: 4/1/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-2

Project: Quarterly GW Sampling

Collection Date: 2/24/2016 11:35:00 AM

Lab ID: 1602B49-008

Matrix: AQUEOUS

Received Date: 2/26/2016 4:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: DAM	
Pyrene	ND	5.5	10		µg/L	1	3/3/2016 6:39:44 PM	24000
Pyridine	ND	6.7	10		µg/L	1	3/3/2016 6:39:44 PM	24000
1,2,4-Trichlorobenzene	ND	6.2	10		µg/L	1	3/3/2016 6:39:44 PM	24000
2,4,5-Trichlorophenol	ND	8.4	10		µg/L	1	3/3/2016 6:39:44 PM	24000
2,4,6-Trichlorophenol	ND	8.8	10		µg/L	1	3/3/2016 6:39:44 PM	24000
Surr: 2-Fluorophenol	49.0	0	4.63-113		%Rec	1	3/3/2016 6:39:44 PM	24000
Surr: Phenol-d5	34.2	0	4.13-124		%Rec	1	3/3/2016 6:39:44 PM	24000
Surr: 2,4,6-Tribromophenol	84.5	0	5.14-132		%Rec	1	3/3/2016 6:39:44 PM	24000
Surr: Nitrobenzene-d5	80.6	0	9.13-140		%Rec	1	3/3/2016 6:39:44 PM	24000
Surr: 2-Fluorobiphenyl	87.0	0	10.8-132		%Rec	1	3/3/2016 6:39:44 PM	24000
Surr: 4-Terphenyl-d14	70.0	0	12.9-107		%Rec	1	3/3/2016 6:39:44 PM	24000
EPA METHOD 8260B: VOLATILES							Analyst: RAA	
Benzene	110	0.48	5.0		µg/L	5	3/3/2016 5:13:24 PM	R32574
Toluene	0.95	0.45	5.0	J	µg/L	5	3/3/2016 5:13:24 PM	R32574
Ethylbenzene	1.1	0.56	5.0	J	µg/L	5	3/3/2016 5:13:24 PM	R32574
Methyl tert-butyl ether (MTBE)	36	1.1	5.0		µg/L	5	3/3/2016 5:13:24 PM	R32574
1,2,4-Trimethylbenzene	1.3	0.52	5.0	J	µg/L	5	3/3/2016 5:13:24 PM	R32574
1,3,5-Trimethylbenzene	ND	0.58	5.0		µg/L	5	3/3/2016 5:13:24 PM	R32574
1,2-Dichloroethane (EDC)	15	0.26	5.0		µg/L	5	3/3/2016 5:13:24 PM	R32574
1,2-Dibromoethane (EDB)	ND	0.56	5.0		µg/L	5	3/3/2016 5:13:24 PM	R32574
Naphthalene	ND	0.42	10		µg/L	5	3/3/2016 5:13:24 PM	R32574
1-Methylnaphthalene	ND	1.0	20		µg/L	5	3/3/2016 5:13:24 PM	R32574
2-Methylnaphthalene	ND	0.79	20		µg/L	5	3/3/2016 5:13:24 PM	R32574
Acetone	4.6	4.4	50	J	µg/L	5	3/3/2016 5:13:24 PM	R32574
Bromobenzene	ND	0.40	5.0		µg/L	5	3/3/2016 5:13:24 PM	R32574
Bromodichloromethane	ND	0.49	5.0		µg/L	5	3/3/2016 5:13:24 PM	R32574
Bromoform	ND	0.51	5.0		µg/L	5	3/3/2016 5:13:24 PM	R32574
Bromomethane	ND	3.9	15		µg/L	5	3/3/2016 5:13:24 PM	R32574
2-Butanone	ND	1.6	50		µg/L	5	3/3/2016 5:13:24 PM	R32574
Carbon disulfide	ND	3.0	50		µg/L	5	3/3/2016 5:13:24 PM	R32574
Carbon Tetrachloride	ND	0.54	5.0		µg/L	5	3/3/2016 5:13:24 PM	R32574
Chlorobenzene	ND	0.52	5.0		µg/L	5	3/3/2016 5:13:24 PM	R32574
Chloroethane	ND	0.73	10		µg/L	5	3/3/2016 5:13:24 PM	R32574
Chloroform	ND	0.44	5.0		µg/L	5	3/3/2016 5:13:24 PM	R32574
Chloromethane	ND	1.1	15		µg/L	5	3/3/2016 5:13:24 PM	R32574
2-Chlorotoluene	ND	2.0	5.0		µg/L	5	3/3/2016 5:13:24 PM	R32574
4-Chlorotoluene	ND	0.64	5.0		µg/L	5	3/3/2016 5:13:24 PM	R32574
cis-1,2-DCE	5.8	0.62	5.0		µg/L	5	3/3/2016 5:13:24 PM	R32574
cis-1,3-Dichloropropene	ND	0.50	5.0		µg/L	5	3/3/2016 5:13:24 PM	R32574

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	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
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Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1602B49

Date Reported: 4/1/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-2

Project: Quarterly GW Sampling

Collection Date: 2/24/2016 11:35:00 AM

Lab ID: 1602B49-008

Matrix: AQUEOUS

Received Date: 2/26/2016 4:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: RAA	
1,2-Dibromo-3-chloropropane	ND	0.77	10		µg/L	5	3/3/2016 5:13:24 PM	R32574
Dibromochloromethane	ND	0.43	5.0		µg/L	5	3/3/2016 5:13:24 PM	R32574
Dibromomethane	ND	0.60	5.0		µg/L	5	3/3/2016 5:13:24 PM	R32574
1,2-Dichlorobenzene	ND	2.0	5.0		µg/L	5	3/3/2016 5:13:24 PM	R32574
1,3-Dichlorobenzene	ND	0.72	5.0		µg/L	5	3/3/2016 5:13:24 PM	R32574
1,4-Dichlorobenzene	ND	0.71	5.0		µg/L	5	3/3/2016 5:13:24 PM	R32574
Dichlorodifluoromethane	ND	1.6	5.0		µg/L	5	3/3/2016 5:13:24 PM	R32574
1,1-Dichloroethane	58	0.54	5.0		µg/L	5	3/3/2016 5:13:24 PM	R32574
1,1-Dichloroethene	110	0.38	5.0		µg/L	5	3/3/2016 5:13:24 PM	R32574
1,2-Dichloropropane	ND	0.24	5.0		µg/L	5	3/3/2016 5:13:24 PM	R32574
1,3-Dichloropropane	ND	0.78	5.0		µg/L	5	3/3/2016 5:13:24 PM	R32574
2,2-Dichloropropane	ND	0.60	10		µg/L	5	3/3/2016 5:13:24 PM	R32574
1,1-Dichloropropene	ND	0.67	5.0		µg/L	5	3/3/2016 5:13:24 PM	R32574
Hexachlorobutadiene	ND	0.99	5.0		µg/L	5	3/3/2016 5:13:24 PM	R32574
2-Hexanone	ND	1.8	50		µg/L	5	3/3/2016 5:13:24 PM	R32574
Isopropylbenzene	4.0	0.49	5.0	J	µg/L	5	3/3/2016 5:13:24 PM	R32574
4-Isopropyltoluene	ND	0.70	5.0		µg/L	5	3/3/2016 5:13:24 PM	R32574
4-Methyl-2-pentanone	ND	0.75	50		µg/L	5	3/3/2016 5:13:24 PM	R32574
Methylene Chloride	1.7	0.31	15	J	µg/L	5	3/3/2016 5:13:24 PM	R32574
n-Butylbenzene	ND	0.80	15		µg/L	5	3/3/2016 5:13:24 PM	R32574
n-Propylbenzene	ND	0.66	5.0		µg/L	5	3/3/2016 5:13:24 PM	R32574
sec-Butylbenzene	ND	0.54	5.0		µg/L	5	3/3/2016 5:13:24 PM	R32574
Styrene	ND	0.48	5.0		µg/L	5	3/3/2016 5:13:24 PM	R32574
tert-Butylbenzene	ND	0.48	5.0		µg/L	5	3/3/2016 5:13:24 PM	R32574
1,1,1,2-Tetrachloroethane	ND	0.56	5.0		µg/L	5	3/3/2016 5:13:24 PM	R32574
1,1,2,2-Tetrachloroethane	ND	0.53	10		µg/L	5	3/3/2016 5:13:24 PM	R32574
Tetrachloroethene (PCE)	ND	0.76	5.0		µg/L	5	3/3/2016 5:13:24 PM	R32574
trans-1,2-DCE	ND	2.0	5.0		µg/L	5	3/3/2016 5:13:24 PM	R32574
trans-1,3-Dichloropropene	ND	0.42	5.0		µg/L	5	3/3/2016 5:13:24 PM	R32574
1,2,3-Trichlorobenzene	ND	0.56	5.0		µg/L	5	3/3/2016 5:13:24 PM	R32574
1,2,4-Trichlorobenzene	ND	0.66	5.0		µg/L	5	3/3/2016 5:13:24 PM	R32574
1,1,1-Trichloroethane	1.7	0.32	5.0	J	µg/L	5	3/3/2016 5:13:24 PM	R32574
1,1,2-Trichloroethane	1.9	0.38	5.0	J	µg/L	5	3/3/2016 5:13:24 PM	R32574
Trichloroethene (TCE)	7.3	0.88	5.0		µg/L	5	3/3/2016 5:13:24 PM	R32574
Trichlorofluoromethane	ND	0.44	5.0		µg/L	5	3/3/2016 5:13:24 PM	R32574
1,2,3-Trichloropropane	ND	0.56	10		µg/L	5	3/3/2016 5:13:24 PM	R32574
Vinyl chloride	1.6	0.32	5.0	J	µg/L	5	3/3/2016 5:13:24 PM	R32574
Xylenes, Total	ND	1.6	7.5		µg/L	5	3/3/2016 5:13:24 PM	R32574
Surr: 1,2-Dichloroethane-d4	95.6	0	70-130		%Rec	5	3/3/2016 5:13:24 PM	R32574

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1602B49

Date Reported: 4/1/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-2

Project: Quarterly GW Sampling

Collection Date: 2/24/2016 11:35:00 AM

Lab ID: 1602B49-008

Matrix: AQUEOUS

Received Date: 2/26/2016 4:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: RAA	
Surr: 4-Bromofluorobenzene	109	0	70-130		%Rec	5	3/3/2016 5:13:24 PM	R32574
Surr: Dibromofluoromethane	98.5	0	70-130		%Rec	5	3/3/2016 5:13:24 PM	R32574
Surr: Toluene-d8	98.2	0	70-130		%Rec	5	3/3/2016 5:13:24 PM	R32574

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-44

Project: Quarterly GW Sampling

Collection Date: 2/24/2016 12:45:00 PM

Lab ID: 1602B49-009

Matrix: AQUEOUS

Received Date: 2/26/2016 4:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015M/D: DIESEL RANGE							Analyst: KJH	
Diesel Range Organics (DRO)	ND	0.69	1.0		mg/L	1	3/1/2016 4:25:32 PM	24002
Motor Oil Range Organics (MRO)	ND	5.0	5.0		mg/L	1	3/1/2016 4:25:32 PM	24002
Surr: DNOP	101	0	70-141		%Rec	1	3/1/2016 4:25:32 PM	24002
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB	
Gasoline Range Organics (GRO)	ND	0.025	0.050		mg/L	1	3/1/2016 9:28:06 PM	A32486
Surr: BFB	82.2	0	49.5-130		%Rec	1	3/1/2016 9:28:06 PM	A32486
EPA METHOD 300.0: ANIONS							Analyst: LGT	
Fluoride	0.45	0.11	0.50	J	mg/L	5	3/3/2016 3:10:24 AM	A32541
Chloride	270	0.55	10		mg/L	20	3/3/2016 3:22:48 AM	A32541
Bromide	1.1	0.16	0.50		mg/L	5	3/3/2016 3:10:24 AM	A32541
Phosphorus, Orthophosphate (As P)	ND	1.1	2.5	H	mg/L	5	3/3/2016 3:10:24 AM	A32541
Sulfate	100	0.32	2.5		mg/L	5	3/3/2016 3:10:24 AM	A32541
Nitrate+Nitrite as N	1.1	0.42	1.0		mg/L	5	3/1/2016 12:56:51 PM	R32498
EPA METHOD 200.7: DISSOLVED METALS							Analyst: ELS	
Barium	0.072	0.0013	0.0020		mg/L	1	3/11/2016 4:52:08 PM	C32754
Cadmium	ND	0.00075	0.0020		mg/L	1	3/11/2016 4:52:08 PM	C32754
Calcium	24	0.26	1.0		mg/L	1	3/11/2016 4:52:08 PM	C32754
Chromium	0.0090	0.0018	0.0060		mg/L	1	3/11/2016 4:52:08 PM	C32754
Copper	ND	0.0040	0.0060		mg/L	1	3/15/2016 1:01:53 PM	A32792
Iron	0.13	0.0091	0.020		mg/L	1	3/16/2016 1:30:11 PM	D32831
Magnesium	1.1	0.013	1.0		mg/L	1	3/11/2016 4:52:08 PM	C32754
Manganese	0.0046	0.00032	0.0020		mg/L	1	3/11/2016 4:52:08 PM	C32754
Potassium	2.3	0.18	1.0		mg/L	1	3/11/2016 4:52:08 PM	C32754
Silver	ND	0.0028	0.0050		mg/L	1	3/11/2016 4:52:08 PM	C32754
Sodium	530	0.96	10		mg/L	10	3/16/2016 1:32:15 PM	D32831
Zinc	0.014	0.0028	0.010		mg/L	1	3/16/2016 1:30:11 PM	D32831
EPA METHOD 200.7: TOTAL METALS							Analyst: ELS	
Barium	0.10	0.0011	0.0020		mg/L	1	3/11/2016 3:18:24 PM	24015
Cadmium	ND	0.00062	0.0020		mg/L	1	3/11/2016 3:18:24 PM	24015
Chromium	0.0098	0.0022	0.0060		mg/L	1	3/11/2016 3:18:24 PM	24015
Copper	ND	0.0051	0.0060		mg/L	1	3/11/2016 3:18:24 PM	24015
Iron	2.9	0.036	0.10	*	mg/L	5	3/11/2016 3:20:14 PM	24015
Manganese	0.056	0.0015	0.0020	*	mg/L	1	3/11/2016 3:18:24 PM	24015
Silver	ND	0.0021	0.0050		mg/L	1	3/23/2016 11:31:24 AM	24381
Zinc	0.013	0.0039	0.010		mg/L	1	3/11/2016 3:18:24 PM	24015
EPA 200.8: DISSOLVED METALS							Analyst: JLF	
Arsenic	0.0052	0.000065	0.0010		mg/L	1	3/15/2016 5:42:54 PM	C32805

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1602B49

Date Reported: 4/1/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-44

Project: Quarterly GW Sampling

Collection Date: 2/24/2016 12:45:00 PM

Lab ID: 1602B49-009

Matrix: AQUEOUS

Received Date: 2/26/2016 4:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA 200.8: DISSOLVED METALS							Analyst: JLF	
Lead	0.00039	0.000026	0.00050	J	mg/L	1	3/15/2016 5:42:54 PM	C32805
Selenium	0.012	0.00019	0.0010		mg/L	1	3/15/2016 5:42:54 PM	C32805
Uranium	0.18	0.000096	0.010	*	mg/L	20	3/22/2016 7:49:04 PM	C32978
200.8 ICPMS METALS:TOTAL							Analyst: JLF	
Arsenic	0.0061	0.0058	0.020	J	mg/L	20	3/11/2016 3:41:08 PM	24015
Lead	0.0037	0.000047	0.00050		mg/L	1	3/11/2016 1:33:31 PM	24015
Selenium	0.016	0.0025	0.020	J	mg/L	20	3/11/2016 3:41:08 PM	24015
Uranium	0.18	0.000099	0.010	*	mg/L	20	3/11/2016 3:41:08 PM	24015
EPA METHOD 245.1: MERCURY							Analyst: DBD	
Mercury	ND	0.000053	0.00020		mg/L	1	3/2/2016 1:18:20 PM	24021
EPA METHOD 8270C: SEMIVOLATILES							Analyst: DAM	
Acenaphthene	ND	8.0	10		µg/L	1	3/3/2016 7:09:57 PM	24000
Acenaphthylene	ND	7.2	10		µg/L	1	3/3/2016 7:09:57 PM	24000
Aniline	ND	9.8	10		µg/L	1	3/3/2016 7:09:57 PM	24000
Anthracene	ND	6.6	10		µg/L	1	3/3/2016 7:09:57 PM	24000
Azobenzene	ND	9.3	10		µg/L	1	3/3/2016 7:09:57 PM	24000
Benz(a)anthracene	ND	6.1	10		µg/L	1	3/3/2016 7:09:57 PM	24000
Benzo(a)pyrene	ND	6.3	10		µg/L	1	3/3/2016 7:09:57 PM	24000
Benzo(b)fluoranthene	ND	6.6	10		µg/L	1	3/3/2016 7:09:57 PM	24000
Benzo(g,h,i)perylene	ND	6.8	10		µg/L	1	3/3/2016 7:09:57 PM	24000
Benzo(k)fluoranthene	ND	7.2	10		µg/L	1	3/3/2016 7:09:57 PM	24000
Benzoic acid	ND	9.8	20		µg/L	1	3/3/2016 7:09:57 PM	24000
Benzyl alcohol	ND	8.0	10		µg/L	1	3/3/2016 7:09:57 PM	24000
Bis(2-chloroethoxy)methane	ND	7.3	10		µg/L	1	3/3/2016 7:09:57 PM	24000
Bis(2-chloroethyl)ether	ND	8.3	10		µg/L	1	3/3/2016 7:09:57 PM	24000
Bis(2-chloroisopropyl)ether	ND	9.1	10		µg/L	1	3/3/2016 7:09:57 PM	24000
Bis(2-ethylhexyl)phthalate	ND	7.5	10		µg/L	1	3/3/2016 7:09:57 PM	24000
4-Bromophenyl phenyl ether	ND	8.6	10		µg/L	1	3/3/2016 7:09:57 PM	24000
Butyl benzyl phthalate	ND	7.8	10		µg/L	1	3/3/2016 7:09:57 PM	24000
Carbazole	ND	7.2	10		µg/L	1	3/3/2016 7:09:57 PM	24000
4-Chloro-3-methylphenol	ND	8.0	10		µg/L	1	3/3/2016 7:09:57 PM	24000
4-Chloroaniline	ND	7.1	10		µg/L	1	3/3/2016 7:09:57 PM	24000
2-Chloronaphthalene	ND	7.2	10		µg/L	1	3/3/2016 7:09:57 PM	24000
2-Chlorophenol	ND	8.7	10		µg/L	1	3/3/2016 7:09:57 PM	24000
4-Chlorophenyl phenyl ether	ND	8.2	10		µg/L	1	3/3/2016 7:09:57 PM	24000
Chrysene	ND	6.6	10		µg/L	1	3/3/2016 7:09:57 PM	24000
Di-n-butyl phthalate	ND	8.1	10		µg/L	1	3/3/2016 7:09:57 PM	24000
Di-n-octyl phthalate	ND	6.3	10		µg/L	1	3/3/2016 7:09:57 PM	24000

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1602B49

Date Reported: 4/1/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-44

Project: Quarterly GW Sampling

Collection Date: 2/24/2016 12:45:00 PM

Lab ID: 1602B49-009

Matrix: AQUEOUS

Received Date: 2/26/2016 4:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: DAM	
Dibenz(a,h)anthracene	ND	6.8	10		µg/L	1	3/3/2016 7:09:57 PM	24000
Dibenzofuran	ND	8.6	10		µg/L	1	3/3/2016 7:09:57 PM	24000
1,2-Dichlorobenzene	ND	6.4	10		µg/L	1	3/3/2016 7:09:57 PM	24000
1,3-Dichlorobenzene	ND	6.1	10		µg/L	1	3/3/2016 7:09:57 PM	24000
1,4-Dichlorobenzene	ND	6.3	10		µg/L	1	3/3/2016 7:09:57 PM	24000
3,3'-Dichlorobenzidine	ND	4.7	10		µg/L	1	3/3/2016 7:09:57 PM	24000
Diethyl phthalate	ND	8.2	10		µg/L	1	3/3/2016 7:09:57 PM	24000
Dimethyl phthalate	ND	7.5	10		µg/L	1	3/3/2016 7:09:57 PM	24000
2,4-Dichlorophenol	ND	7.6	20		µg/L	1	3/3/2016 7:09:57 PM	24000
2,4-Dimethylphenol	ND	4.7	10		µg/L	1	3/3/2016 7:09:57 PM	24000
4,6-Dinitro-2-methylphenol	ND	7.3	20		µg/L	1	3/3/2016 7:09:57 PM	24000
2,4-Dinitrophenol	ND	9.9	20		µg/L	1	3/3/2016 7:09:57 PM	24000
2,4-Dinitrotoluene	ND	8.5	10		µg/L	1	3/3/2016 7:09:57 PM	24000
2,6-Dinitrotoluene	ND	7.5	10		µg/L	1	3/3/2016 7:09:57 PM	24000
Fluoranthene	ND	6.1	10		µg/L	1	3/3/2016 7:09:57 PM	24000
Fluorene	ND	7.2	10		µg/L	1	3/3/2016 7:09:57 PM	24000
Hexachlorobenzene	ND	7.1	10		µg/L	1	3/3/2016 7:09:57 PM	24000
Hexachlorobutadiene	ND	5.2	10		µg/L	1	3/3/2016 7:09:57 PM	24000
Hexachlorocyclopentadiene	ND	5.2	10		µg/L	1	3/3/2016 7:09:57 PM	24000
Hexachloroethane	ND	5.8	10		µg/L	1	3/3/2016 7:09:57 PM	24000
Indeno(1,2,3-cd)pyrene	ND	5.6	10		µg/L	1	3/3/2016 7:09:57 PM	24000
Isophorone	ND	8.1	10		µg/L	1	3/3/2016 7:09:57 PM	24000
1-Methylnaphthalene	ND	6.8	10		µg/L	1	3/3/2016 7:09:57 PM	24000
2-Methylnaphthalene	ND	7.0	10		µg/L	1	3/3/2016 7:09:57 PM	24000
2-Methylphenol	ND	8.2	10		µg/L	1	3/3/2016 7:09:57 PM	24000
3+4-Methylphenol	ND	7.1	10		µg/L	1	3/3/2016 7:09:57 PM	24000
N-Nitrosodi-n-propylamine	ND	7.8	10		µg/L	1	3/3/2016 7:09:57 PM	24000
N-Nitrosodimethylamine	ND	9.1	10		µg/L	1	3/3/2016 7:09:57 PM	24000
N-Nitrosodiphenylamine	ND	6.2	10		µg/L	1	3/3/2016 7:09:57 PM	24000
Naphthalene	ND	5.9	10		µg/L	1	3/3/2016 7:09:57 PM	24000
2-Nitroaniline	ND	9.0	10		µg/L	1	3/3/2016 7:09:57 PM	24000
3-Nitroaniline	ND	8.8	10		µg/L	1	3/3/2016 7:09:57 PM	24000
4-Nitroaniline	ND	9.1	10		µg/L	1	3/3/2016 7:09:57 PM	24000
Nitrobenzene	ND	7.8	10		µg/L	1	3/3/2016 7:09:57 PM	24000
2-Nitrophenol	ND	7.6	10		µg/L	1	3/3/2016 7:09:57 PM	24000
4-Nitrophenol	ND	6.7	10		µg/L	1	3/3/2016 7:09:57 PM	24000
Pentachlorophenol	ND	7.6	20		µg/L	1	3/3/2016 7:09:57 PM	24000
Phenanthrene	ND	6.8	10		µg/L	1	3/3/2016 7:09:57 PM	24000
Phenol	ND	5.1	10		µg/L	1	3/3/2016 7:09:57 PM	24000

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1602B49

Date Reported: 4/1/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-44

Project: Quarterly GW Sampling

Collection Date: 2/24/2016 12:45:00 PM

Lab ID: 1602B49-009

Matrix: AQUEOUS

Received Date: 2/26/2016 4:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: DAM	
Pyrene	ND	5.5	10		µg/L	1	3/3/2016 7:09:57 PM	24000
Pyridine	ND	6.7	10		µg/L	1	3/3/2016 7:09:57 PM	24000
1,2,4-Trichlorobenzene	ND	6.2	10		µg/L	1	3/3/2016 7:09:57 PM	24000
2,4,5-Trichlorophenol	ND	8.4	10		µg/L	1	3/3/2016 7:09:57 PM	24000
2,4,6-Trichlorophenol	ND	8.8	10		µg/L	1	3/3/2016 7:09:57 PM	24000
Surr: 2-Fluorophenol	50.2	0	4.63-113		%Rec	1	3/3/2016 7:09:57 PM	24000
Surr: Phenol-d5	36.4	0	4.13-124		%Rec	1	3/3/2016 7:09:57 PM	24000
Surr: 2,4,6-Tribromophenol	68.5	0	5.14-132		%Rec	1	3/3/2016 7:09:57 PM	24000
Surr: Nitrobenzene-d5	81.9	0	9.13-140		%Rec	1	3/3/2016 7:09:57 PM	24000
Surr: 2-Fluorobiphenyl	83.5	0	10.8-132		%Rec	1	3/3/2016 7:09:57 PM	24000
Surr: 4-Terphenyl-d14	57.8	0	12.9-107		%Rec	1	3/3/2016 7:09:57 PM	24000
EPA METHOD 8260B: VOLATILES							Analyst: RAA	
Benzene	ND	0.096	1.0		µg/L	1	3/3/2016 5:42:13 PM	R32574
Toluene	ND	0.089	1.0		µg/L	1	3/3/2016 5:42:13 PM	R32574
Ethylbenzene	ND	0.11	1.0		µg/L	1	3/3/2016 5:42:13 PM	R32574
Methyl tert-butyl ether (MTBE)	ND	0.21	1.0		µg/L	1	3/3/2016 5:42:13 PM	R32574
1,2,4-Trimethylbenzene	ND	0.10	1.0		µg/L	1	3/3/2016 5:42:13 PM	R32574
1,3,5-Trimethylbenzene	ND	0.12	1.0		µg/L	1	3/3/2016 5:42:13 PM	R32574
1,2-Dichloroethane (EDC)	ND	0.053	1.0		µg/L	1	3/3/2016 5:42:13 PM	R32574
1,2-Dibromoethane (EDB)	ND	0.11	1.0		µg/L	1	3/3/2016 5:42:13 PM	R32574
Naphthalene	ND	0.083	2.0		µg/L	1	3/3/2016 5:42:13 PM	R32574
1-Methylnaphthalene	ND	0.20	4.0		µg/L	1	3/3/2016 5:42:13 PM	R32574
2-Methylnaphthalene	ND	0.16	4.0		µg/L	1	3/3/2016 5:42:13 PM	R32574
Acetone	ND	0.88	10		µg/L	1	3/3/2016 5:42:13 PM	R32574
Bromobenzene	ND	0.080	1.0		µg/L	1	3/3/2016 5:42:13 PM	R32574
Bromodichloromethane	ND	0.098	1.0		µg/L	1	3/3/2016 5:42:13 PM	R32574
Bromoform	ND	0.10	1.0		µg/L	1	3/3/2016 5:42:13 PM	R32574
Bromomethane	ND	0.78	3.0		µg/L	1	3/3/2016 5:42:13 PM	R32574
2-Butanone	ND	0.32	10		µg/L	1	3/3/2016 5:42:13 PM	R32574
Carbon disulfide	ND	0.60	10		µg/L	1	3/3/2016 5:42:13 PM	R32574
Carbon Tetrachloride	ND	0.11	1.0		µg/L	1	3/3/2016 5:42:13 PM	R32574
Chlorobenzene	ND	0.10	1.0		µg/L	1	3/3/2016 5:42:13 PM	R32574
Chloroethane	ND	0.15	2.0		µg/L	1	3/3/2016 5:42:13 PM	R32574
Chloroform	ND	0.089	1.0		µg/L	1	3/3/2016 5:42:13 PM	R32574
Chloromethane	ND	0.21	3.0		µg/L	1	3/3/2016 5:42:13 PM	R32574
2-Chlorotoluene	ND	0.40	1.0		µg/L	1	3/3/2016 5:42:13 PM	R32574
4-Chlorotoluene	ND	0.13	1.0		µg/L	1	3/3/2016 5:42:13 PM	R32574
cis-1,2-DCE	ND	0.12	1.0		µg/L	1	3/3/2016 5:42:13 PM	R32574
cis-1,3-Dichloropropene	ND	0.10	1.0		µg/L	1	3/3/2016 5:42:13 PM	R32574

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1602B49

Date Reported: 4/1/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-44

Project: Quarterly GW Sampling

Collection Date: 2/24/2016 12:45:00 PM

Lab ID: 1602B49-009

Matrix: AQUEOUS

Received Date: 2/26/2016 4:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: RAA	
1,2-Dibromo-3-chloropropane	ND	0.15	2.0		µg/L	1	3/3/2016 5:42:13 PM	R32574
Dibromochloromethane	ND	0.087	1.0		µg/L	1	3/3/2016 5:42:13 PM	R32574
Dibromomethane	ND	0.12	1.0		µg/L	1	3/3/2016 5:42:13 PM	R32574
1,2-Dichlorobenzene	ND	0.40	1.0		µg/L	1	3/3/2016 5:42:13 PM	R32574
1,3-Dichlorobenzene	ND	0.14	1.0		µg/L	1	3/3/2016 5:42:13 PM	R32574
1,4-Dichlorobenzene	ND	0.14	1.0		µg/L	1	3/3/2016 5:42:13 PM	R32574
Dichlorodifluoromethane	ND	0.32	1.0		µg/L	1	3/3/2016 5:42:13 PM	R32574
1,1-Dichloroethane	ND	0.11	1.0		µg/L	1	3/3/2016 5:42:13 PM	R32574
1,1-Dichloroethene	ND	0.076	1.0		µg/L	1	3/3/2016 5:42:13 PM	R32574
1,2-Dichloropropane	ND	0.047	1.0		µg/L	1	3/3/2016 5:42:13 PM	R32574
1,3-Dichloropropane	ND	0.16	1.0		µg/L	1	3/3/2016 5:42:13 PM	R32574
2,2-Dichloropropane	ND	0.12	2.0		µg/L	1	3/3/2016 5:42:13 PM	R32574
1,1-Dichloropropene	ND	0.13	1.0		µg/L	1	3/3/2016 5:42:13 PM	R32574
Hexachlorobutadiene	ND	0.20	1.0		µg/L	1	3/3/2016 5:42:13 PM	R32574
2-Hexanone	ND	0.36	10		µg/L	1	3/3/2016 5:42:13 PM	R32574
Isopropylbenzene	ND	0.098	1.0		µg/L	1	3/3/2016 5:42:13 PM	R32574
4-Isopropyltoluene	ND	0.14	1.0		µg/L	1	3/3/2016 5:42:13 PM	R32574
4-Methyl-2-pentanone	ND	0.15	10		µg/L	1	3/3/2016 5:42:13 PM	R32574
Methylene Chloride	ND	0.063	3.0		µg/L	1	3/3/2016 5:42:13 PM	R32574
n-Butylbenzene	ND	0.16	3.0		µg/L	1	3/3/2016 5:42:13 PM	R32574
n-Propylbenzene	ND	0.13	1.0		µg/L	1	3/3/2016 5:42:13 PM	R32574
sec-Butylbenzene	ND	0.11	1.0		µg/L	1	3/3/2016 5:42:13 PM	R32574
Styrene	ND	0.095	1.0		µg/L	1	3/3/2016 5:42:13 PM	R32574
tert-Butylbenzene	ND	0.096	1.0		µg/L	1	3/3/2016 5:42:13 PM	R32574
1,1,1,2-Tetrachloroethane	ND	0.11	1.0		µg/L	1	3/3/2016 5:42:13 PM	R32574
1,1,2,2-Tetrachloroethane	ND	0.11	2.0		µg/L	1	3/3/2016 5:42:13 PM	R32574
Tetrachloroethene (PCE)	ND	0.15	1.0		µg/L	1	3/3/2016 5:42:13 PM	R32574
trans-1,2-DCE	ND	0.40	1.0		µg/L	1	3/3/2016 5:42:13 PM	R32574
trans-1,3-Dichloropropene	ND	0.085	1.0		µg/L	1	3/3/2016 5:42:13 PM	R32574
1,2,3-Trichlorobenzene	ND	0.11	1.0		µg/L	1	3/3/2016 5:42:13 PM	R32574
1,2,4-Trichlorobenzene	ND	0.13	1.0		µg/L	1	3/3/2016 5:42:13 PM	R32574
1,1,1-Trichloroethane	ND	0.063	1.0		µg/L	1	3/3/2016 5:42:13 PM	R32574
1,1,2-Trichloroethane	ND	0.077	1.0		µg/L	1	3/3/2016 5:42:13 PM	R32574
Trichloroethene (TCE)	ND	0.18	1.0		µg/L	1	3/3/2016 5:42:13 PM	R32574
Trichlorofluoromethane	ND	0.088	1.0		µg/L	1	3/3/2016 5:42:13 PM	R32574
1,2,3-Trichloropropane	ND	0.11	2.0		µg/L	1	3/3/2016 5:42:13 PM	R32574
Vinyl chloride	ND	0.063	1.0		µg/L	1	3/3/2016 5:42:13 PM	R32574
Xylenes, Total	ND	0.32	1.5		µg/L	1	3/3/2016 5:42:13 PM	R32574
Surr: 1,2-Dichloroethane-d4	92.4	0	70-130		%Rec	1	3/3/2016 5:42:13 PM	R32574

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1602B49

Date Reported: 4/1/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-44

Project: Quarterly GW Sampling

Collection Date: 2/24/2016 12:45:00 PM

Lab ID: 1602B49-009

Matrix: AQUEOUS

Received Date: 2/26/2016 4:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: RAA	
Surr: 4-Bromofluorobenzene	107	0	70-130		%Rec	1	3/3/2016 5:42:13 PM	R32574
Surr: Dibromofluoromethane	99.0	0	70-130		%Rec	1	3/3/2016 5:42:13 PM	R32574
Surr: Toluene-d8	101	0	70-130		%Rec	1	3/3/2016 5:42:13 PM	R32574

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1602B49

Date Reported: 4/1/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: TRIP BLANK

Project: Quarterly GW Sampling

Collection Date:

Lab ID: 1602B49-010

Matrix: TRIP BLANK

Received Date: 2/26/2016 4:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB	
Gasoline Range Organics (GRO)	ND	0.025	0.050		mg/L	1	3/1/2016 9:52:36 PM	A32486
Surr: BFB	81.7	0	49.5-130		%Rec	1	3/1/2016 9:52:36 PM	A32486
EPA METHOD 8260B: VOLATILES							Analyst: RAA	
Benzene	ND	0.096	1.0		µg/L	1	3/4/2016 2:20:02 AM	B32574
Toluene	ND	0.089	1.0		µg/L	1	3/4/2016 2:20:02 AM	B32574
Ethylbenzene	ND	0.11	1.0		µg/L	1	3/4/2016 2:20:02 AM	B32574
Methyl tert-butyl ether (MTBE)	ND	0.21	1.0		µg/L	1	3/4/2016 2:20:02 AM	B32574
1,2,4-Trimethylbenzene	ND	0.10	1.0		µg/L	1	3/4/2016 2:20:02 AM	B32574
1,3,5-Trimethylbenzene	ND	0.12	1.0		µg/L	1	3/4/2016 2:20:02 AM	B32574
1,2-Dichloroethane (EDC)	ND	0.053	1.0		µg/L	1	3/4/2016 2:20:02 AM	B32574
1,2-Dibromoethane (EDB)	ND	0.11	1.0		µg/L	1	3/4/2016 2:20:02 AM	B32574
Naphthalene	ND	0.083	2.0		µg/L	1	3/4/2016 2:20:02 AM	B32574
1-Methylnaphthalene	ND	0.20	4.0		µg/L	1	3/4/2016 2:20:02 AM	B32574
2-Methylnaphthalene	ND	0.16	4.0		µg/L	1	3/4/2016 2:20:02 AM	B32574
Acetone	ND	0.88	10		µg/L	1	3/4/2016 2:20:02 AM	B32574
Bromobenzene	ND	0.080	1.0		µg/L	1	3/4/2016 2:20:02 AM	B32574
Bromodichloromethane	ND	0.098	1.0		µg/L	1	3/4/2016 2:20:02 AM	B32574
Bromoform	ND	0.10	1.0		µg/L	1	3/4/2016 2:20:02 AM	B32574
Bromomethane	ND	0.78	3.0		µg/L	1	3/4/2016 2:20:02 AM	B32574
2-Butanone	ND	0.32	10		µg/L	1	3/4/2016 2:20:02 AM	B32574
Carbon disulfide	ND	0.60	10		µg/L	1	3/4/2016 2:20:02 AM	B32574
Carbon Tetrachloride	ND	0.11	1.0		µg/L	1	3/4/2016 2:20:02 AM	B32574
Chlorobenzene	ND	0.10	1.0		µg/L	1	3/4/2016 2:20:02 AM	B32574
Chloroethane	ND	0.15	2.0		µg/L	1	3/4/2016 2:20:02 AM	B32574
Chloroform	ND	0.089	1.0		µg/L	1	3/4/2016 2:20:02 AM	B32574
Chloromethane	ND	0.21	3.0		µg/L	1	3/4/2016 2:20:02 AM	B32574
2-Chlorotoluene	ND	0.40	1.0		µg/L	1	3/4/2016 2:20:02 AM	B32574
4-Chlorotoluene	ND	0.13	1.0		µg/L	1	3/4/2016 2:20:02 AM	B32574
cis-1,2-DCE	ND	0.12	1.0		µg/L	1	3/4/2016 2:20:02 AM	B32574
cis-1,3-Dichloropropene	ND	0.10	1.0		µg/L	1	3/4/2016 2:20:02 AM	B32574
1,2-Dibromo-3-chloropropane	ND	0.15	2.0		µg/L	1	3/4/2016 2:20:02 AM	B32574
Dibromochloromethane	ND	0.087	1.0		µg/L	1	3/4/2016 2:20:02 AM	B32574
Dibromomethane	ND	0.12	1.0		µg/L	1	3/4/2016 2:20:02 AM	B32574
1,2-Dichlorobenzene	ND	0.40	1.0		µg/L	1	3/4/2016 2:20:02 AM	B32574
1,3-Dichlorobenzene	ND	0.14	1.0		µg/L	1	3/4/2016 2:20:02 AM	B32574
1,4-Dichlorobenzene	ND	0.14	1.0		µg/L	1	3/4/2016 2:20:02 AM	B32574
Dichlorodifluoromethane	ND	0.32	1.0		µg/L	1	3/4/2016 2:20:02 AM	B32574
1,1-Dichloroethane	ND	0.11	1.0		µg/L	1	3/4/2016 2:20:02 AM	B32574
1,1-Dichloroethene	ND	0.076	1.0		µg/L	1	3/4/2016 2:20:02 AM	B32574

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1602B49

Date Reported: 4/1/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: TRIP BLANK

Project: Quarterly GW Sampling

Collection Date:

Lab ID: 1602B49-010

Matrix: TRIP BLANK

Received Date: 2/26/2016 4:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: RAA	
1,2-Dichloropropane	ND	0.047	1.0		µg/L	1	3/4/2016 2:20:02 AM	B32574
1,3-Dichloropropane	ND	0.16	1.0		µg/L	1	3/4/2016 2:20:02 AM	B32574
2,2-Dichloropropane	ND	0.12	2.0		µg/L	1	3/4/2016 2:20:02 AM	B32574
1,1-Dichloropropene	ND	0.13	1.0		µg/L	1	3/4/2016 2:20:02 AM	B32574
Hexachlorobutadiene	ND	0.20	1.0		µg/L	1	3/4/2016 2:20:02 AM	B32574
2-Hexanone	ND	0.36	10		µg/L	1	3/4/2016 2:20:02 AM	B32574
Isopropylbenzene	ND	0.098	1.0		µg/L	1	3/4/2016 2:20:02 AM	B32574
4-Isopropyltoluene	ND	0.14	1.0		µg/L	1	3/4/2016 2:20:02 AM	B32574
4-Methyl-2-pentanone	ND	0.15	10		µg/L	1	3/4/2016 2:20:02 AM	B32574
Methylene Chloride	ND	0.063	3.0		µg/L	1	3/4/2016 2:20:02 AM	B32574
n-Butylbenzene	ND	0.16	3.0		µg/L	1	3/4/2016 2:20:02 AM	B32574
n-Propylbenzene	ND	0.13	1.0		µg/L	1	3/4/2016 2:20:02 AM	B32574
sec-Butylbenzene	ND	0.11	1.0		µg/L	1	3/4/2016 2:20:02 AM	B32574
Styrene	ND	0.095	1.0		µg/L	1	3/4/2016 2:20:02 AM	B32574
tert-Butylbenzene	ND	0.096	1.0		µg/L	1	3/4/2016 2:20:02 AM	B32574
1,1,1,2-Tetrachloroethane	ND	0.11	1.0		µg/L	1	3/4/2016 2:20:02 AM	B32574
1,1,2,2-Tetrachloroethane	ND	0.11	2.0		µg/L	1	3/4/2016 2:20:02 AM	B32574
Tetrachloroethene (PCE)	ND	0.15	1.0		µg/L	1	3/4/2016 2:20:02 AM	B32574
trans-1,2-DCE	ND	0.40	1.0		µg/L	1	3/4/2016 2:20:02 AM	B32574
trans-1,3-Dichloropropene	ND	0.085	1.0		µg/L	1	3/4/2016 2:20:02 AM	B32574
1,2,3-Trichlorobenzene	ND	0.11	1.0		µg/L	1	3/4/2016 2:20:02 AM	B32574
1,2,4-Trichlorobenzene	ND	0.13	1.0		µg/L	1	3/4/2016 2:20:02 AM	B32574
1,1,1-Trichloroethane	ND	0.063	1.0		µg/L	1	3/4/2016 2:20:02 AM	B32574
1,1,2-Trichloroethane	ND	0.077	1.0		µg/L	1	3/4/2016 2:20:02 AM	B32574
Trichloroethene (TCE)	ND	0.18	1.0		µg/L	1	3/4/2016 2:20:02 AM	B32574
Trichlorofluoromethane	ND	0.088	1.0		µg/L	1	3/4/2016 2:20:02 AM	B32574
1,2,3-Trichloropropane	ND	0.11	2.0		µg/L	1	3/4/2016 2:20:02 AM	B32574
Vinyl chloride	ND	0.063	1.0		µg/L	1	3/4/2016 2:20:02 AM	B32574
Xylenes, Total	ND	0.32	1.5		µg/L	1	3/4/2016 2:20:02 AM	B32574
Surr: 1,2-Dichloroethane-d4	97.9	0	70-130		%Rec	1	3/4/2016 2:20:02 AM	B32574
Surr: 4-Bromofluorobenzene	102	0	70-130		%Rec	1	3/4/2016 2:20:02 AM	B32574
Surr: Dibromofluoromethane	105	0	70-130		%Rec	1	3/4/2016 2:20:02 AM	B32574
Surr: Toluene-d8	104	0	70-130		%Rec	1	3/4/2016 2:20:02 AM	B32574

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-23

Project: Quarterly GW Sampling

Collection Date: 2/25/2016 9:40:00 AM

Lab ID: 1602B49-011

Matrix: AQUEOUS

Received Date: 2/26/2016 4:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015M/D: DIESEL RANGE							Analyst: KJH	
Diesel Range Organics (DRO)	56	0.69	1.0		mg/L	1	3/1/2016 4:46:58 PM	24002
Motor Oil Range Organics (MRO)	ND	5.0	5.0		mg/L	1	3/1/2016 4:46:58 PM	24002
Surr: DNOP	109	0	70-141		%Rec	1	3/1/2016 4:46:58 PM	24002
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB	
Gasoline Range Organics (GRO)	32	1.3	2.5		mg/L	50	3/1/2016 10:17:15 PM	A32486
Surr: BFB	96.4	0	49.5-130		%Rec	50	3/1/2016 10:17:15 PM	A32486
EPA METHOD 300.0: ANIONS							Analyst: LGT	
Fluoride	0.69	0.11	0.50		mg/L	5	3/3/2016 4:00:01 AM	A32541
Chloride	240	0.55	10		mg/L	20	3/3/2016 4:12:26 AM	A32541
Bromide	1.9	0.16	0.50		mg/L	5	3/3/2016 4:00:01 AM	A32541
Phosphorus, Orthophosphate (As P)	ND	1.1	2.5	H	mg/L	5	3/3/2016 4:00:01 AM	A32541
Sulfate	0.38	0.32	2.5	J	mg/L	5	3/3/2016 4:00:01 AM	A32541
Nitrate+Nitrite as N	ND	0.42	1.0		mg/L	5	3/1/2016 1:09:16 PM	R32498
EPA METHOD 200.7: DISSOLVED METALS							Analyst: ELS	
Barium	0.58	0.0013	0.0020		mg/L	1	3/11/2016 4:54:16 PM	C32754
Cadmium	ND	0.00075	0.0020		mg/L	1	3/11/2016 4:54:16 PM	C32754
Calcium	70	0.26	1.0		mg/L	1	3/11/2016 4:54:16 PM	C32754
Chromium	ND	0.0018	0.0060		mg/L	1	3/11/2016 4:54:16 PM	C32754
Copper	ND	0.0040	0.0060		mg/L	1	3/15/2016 1:05:46 PM	A32792
Iron	3.5	0.045	0.10	*	mg/L	5	3/16/2016 1:35:58 PM	D32831
Magnesium	12	0.013	1.0		mg/L	1	3/11/2016 4:54:16 PM	C32754
Manganese	1.8	0.0016	0.010	*	mg/L	5	3/16/2016 1:35:58 PM	D32831
Potassium	1.6	0.18	1.0		mg/L	1	3/11/2016 4:54:16 PM	C32754
Silver	ND	0.0028	0.0050		mg/L	1	3/11/2016 4:54:16 PM	C32754
Sodium	470	0.48	5.0		mg/L	5	3/16/2016 1:35:58 PM	D32831
Zinc	0.0083	0.0028	0.010	J	mg/L	1	3/16/2016 1:34:02 PM	D32831
EPA METHOD 200.7: TOTAL METALS							Analyst: ELS	
Barium	0.67	0.0011	0.0020		mg/L	1	3/11/2016 3:27:49 PM	24015
Cadmium	ND	0.00062	0.0020		mg/L	1	3/11/2016 3:27:49 PM	24015
Chromium	ND	0.0022	0.0060		mg/L	1	3/11/2016 3:27:49 PM	24015
Copper	ND	0.0051	0.0060		mg/L	1	3/11/2016 3:27:49 PM	24015
Iron	3.8	0.036	0.10	*	mg/L	5	3/11/2016 3:29:30 PM	24015
Manganese	1.6	0.0076	0.010	*	mg/L	5	3/11/2016 3:29:30 PM	24015
Silver	ND	0.0021	0.0050		mg/L	1	3/23/2016 11:35:02 AM	24381
Zinc	0.0054	0.0039	0.010	J	mg/L	1	3/11/2016 3:27:49 PM	24015
EPA 200.8: DISSOLVED METALS							Analyst: JLF	
Arsenic	0.010	0.000065	0.0010	*	mg/L	1	3/15/2016 5:45:58 PM	C32805

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1602B49

Date Reported: 4/1/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-23

Project: Quarterly GW Sampling

Collection Date: 2/25/2016 9:40:00 AM

Lab ID: 1602B49-011

Matrix: AQUEOUS

Received Date: 2/26/2016 4:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA 200.8: DISSOLVED METALS							Analyst: JLF	
Lead	0.00038	0.000026	0.00050	J	mg/L	1	3/15/2016 5:45:58 PM	C32805
Selenium	0.0042	0.0019	0.010	J	mg/L	10	3/24/2016 5:07:28 PM	B33051
Uranium	0.0018	0.0000048	0.00050		mg/L	1	3/15/2016 5:45:58 PM	C32805
200.8 ICPMS METALS:TOTAL							Analyst: JLF	
Arsenic	0.0094	0.00029	0.0010		mg/L	1	3/11/2016 1:42:37 PM	24015
Lead	0.0025	0.000047	0.00050		mg/L	1	3/11/2016 1:42:37 PM	24015
Selenium	0.0035	0.00062	0.0050	J	mg/L	5	3/11/2016 3:44:09 PM	24015
Uranium	0.0027	0.0000049	0.00050		mg/L	1	3/11/2016 1:42:37 PM	24015
EPA METHOD 245.1: MERCURY							Analyst: DBD	
Mercury	ND	0.000053	0.00020		mg/L	1	3/2/2016 1:20:26 PM	24021
EPA METHOD 8270C: SEMIVOLATILES							Analyst: DAM	
Acenaphthene	ND	8.0	10		µg/L	1	3/3/2016 7:40:01 PM	24000
Acenaphthylene	ND	7.2	10		µg/L	1	3/3/2016 7:40:01 PM	24000
Aniline	ND	9.8	10		µg/L	1	3/3/2016 7:40:01 PM	24000
Anthracene	ND	6.6	10		µg/L	1	3/3/2016 7:40:01 PM	24000
Azobenzene	ND	9.3	10		µg/L	1	3/3/2016 7:40:01 PM	24000
Benz(a)anthracene	ND	6.1	10		µg/L	1	3/3/2016 7:40:01 PM	24000
Benzo(a)pyrene	ND	6.3	10		µg/L	1	3/3/2016 7:40:01 PM	24000
Benzo(b)fluoranthene	ND	6.6	10		µg/L	1	3/3/2016 7:40:01 PM	24000
Benzo(g,h,i)perylene	ND	6.8	10		µg/L	1	3/3/2016 7:40:01 PM	24000
Benzo(k)fluoranthene	ND	7.2	10		µg/L	1	3/3/2016 7:40:01 PM	24000
Benzoic acid	ND	9.8	20		µg/L	1	3/3/2016 7:40:01 PM	24000
Benzyl alcohol	ND	8.0	10		µg/L	1	3/3/2016 7:40:01 PM	24000
Bis(2-chloroethoxy)methane	ND	7.3	10		µg/L	1	3/3/2016 7:40:01 PM	24000
Bis(2-chloroethyl)ether	ND	8.3	10		µg/L	1	3/3/2016 7:40:01 PM	24000
Bis(2-chloroisopropyl)ether	ND	9.1	10		µg/L	1	3/3/2016 7:40:01 PM	24000
Bis(2-ethylhexyl)phthalate	ND	7.5	10		µg/L	1	3/3/2016 7:40:01 PM	24000
4-Bromophenyl phenyl ether	ND	8.6	10		µg/L	1	3/3/2016 7:40:01 PM	24000
Butyl benzyl phthalate	ND	7.8	10		µg/L	1	3/3/2016 7:40:01 PM	24000
Carbazole	ND	7.2	10		µg/L	1	3/3/2016 7:40:01 PM	24000
4-Chloro-3-methylphenol	ND	8.0	10		µg/L	1	3/3/2016 7:40:01 PM	24000
4-Chloroaniline	ND	7.1	10		µg/L	1	3/3/2016 7:40:01 PM	24000
2-Chloronaphthalene	ND	7.2	10		µg/L	1	3/3/2016 7:40:01 PM	24000
2-Chlorophenol	ND	8.7	10		µg/L	1	3/3/2016 7:40:01 PM	24000
4-Chlorophenyl phenyl ether	ND	8.2	10		µg/L	1	3/3/2016 7:40:01 PM	24000
Chrysene	ND	6.6	10		µg/L	1	3/3/2016 7:40:01 PM	24000
Di-n-butyl phthalate	ND	8.1	10		µg/L	1	3/3/2016 7:40:01 PM	24000
Di-n-octyl phthalate	ND	6.3	10		µg/L	1	3/3/2016 7:40:01 PM	24000

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1602B49

Date Reported: 4/1/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-23

Project: Quarterly GW Sampling

Collection Date: 2/25/2016 9:40:00 AM

Lab ID: 1602B49-011

Matrix: AQUEOUS

Received Date: 2/26/2016 4:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: DAM	
Dibenz(a,h)anthracene	ND	6.8	10		µg/L	1	3/3/2016 7:40:01 PM	24000
Dibenzofuran	ND	8.6	10		µg/L	1	3/3/2016 7:40:01 PM	24000
1,2-Dichlorobenzene	ND	6.4	10		µg/L	1	3/3/2016 7:40:01 PM	24000
1,3-Dichlorobenzene	ND	6.1	10		µg/L	1	3/3/2016 7:40:01 PM	24000
1,4-Dichlorobenzene	ND	6.3	10		µg/L	1	3/3/2016 7:40:01 PM	24000
3,3'-Dichlorobenzidine	ND	4.7	10		µg/L	1	3/3/2016 7:40:01 PM	24000
Diethyl phthalate	ND	8.2	10		µg/L	1	3/3/2016 7:40:01 PM	24000
Dimethyl phthalate	ND	7.5	10		µg/L	1	3/3/2016 7:40:01 PM	24000
2,4-Dichlorophenol	ND	7.6	20		µg/L	1	3/3/2016 7:40:01 PM	24000
2,4-Dimethylphenol	110	4.7	10		µg/L	1	3/3/2016 7:40:01 PM	24000
4,6-Dinitro-2-methylphenol	ND	7.3	20		µg/L	1	3/3/2016 7:40:01 PM	24000
2,4-Dinitrophenol	ND	9.9	20		µg/L	1	3/3/2016 7:40:01 PM	24000
2,4-Dinitrotoluene	ND	8.5	10		µg/L	1	3/3/2016 7:40:01 PM	24000
2,6-Dinitrotoluene	ND	7.5	10		µg/L	1	3/3/2016 7:40:01 PM	24000
Fluoranthene	ND	6.1	10		µg/L	1	3/3/2016 7:40:01 PM	24000
Fluorene	11	7.2	10		µg/L	1	3/3/2016 7:40:01 PM	24000
Hexachlorobenzene	ND	7.1	10		µg/L	1	3/3/2016 7:40:01 PM	24000
Hexachlorobutadiene	ND	5.2	10		µg/L	1	3/3/2016 7:40:01 PM	24000
Hexachlorocyclopentadiene	ND	5.2	10		µg/L	1	3/3/2016 7:40:01 PM	24000
Hexachloroethane	ND	5.8	10		µg/L	1	3/3/2016 7:40:01 PM	24000
Indeno(1,2,3-cd)pyrene	ND	5.6	10		µg/L	1	3/3/2016 7:40:01 PM	24000
Isophorone	ND	8.1	10		µg/L	1	3/3/2016 7:40:01 PM	24000
1-Methylnaphthalene	220	6.8	10		µg/L	1	3/3/2016 7:40:01 PM	24000
2-Methylnaphthalene	230	7.0	10		µg/L	1	3/3/2016 7:40:01 PM	24000
2-Methylphenol	37	8.2	10		µg/L	1	3/3/2016 7:40:01 PM	24000
3+4-Methylphenol	24	7.1	10		µg/L	1	3/3/2016 7:40:01 PM	24000
N-Nitrosodi-n-propylamine	ND	7.8	10		µg/L	1	3/3/2016 7:40:01 PM	24000
N-Nitrosodimethylamine	ND	9.1	10		µg/L	1	3/3/2016 7:40:01 PM	24000
N-Nitrosodiphenylamine	ND	6.2	10		µg/L	1	3/3/2016 7:40:01 PM	24000
Naphthalene	230	120	200		µg/L	20	3/4/2016 10:41:57 AM	24000
2-Nitroaniline	ND	9.0	10		µg/L	1	3/3/2016 7:40:01 PM	24000
3-Nitroaniline	ND	8.8	10		µg/L	1	3/3/2016 7:40:01 PM	24000
4-Nitroaniline	ND	9.1	10		µg/L	1	3/3/2016 7:40:01 PM	24000
Nitrobenzene	ND	7.8	10		µg/L	1	3/3/2016 7:40:01 PM	24000
2-Nitrophenol	ND	7.6	10		µg/L	1	3/3/2016 7:40:01 PM	24000
4-Nitrophenol	ND	6.7	10		µg/L	1	3/3/2016 7:40:01 PM	24000
Pentachlorophenol	ND	7.6	20		µg/L	1	3/3/2016 7:40:01 PM	24000
Phenanthrene	29	6.8	10		µg/L	1	3/3/2016 7:40:01 PM	24000
Phenol	17	5.1	10		µg/L	1	3/3/2016 7:40:01 PM	24000

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1602B49

Date Reported: 4/1/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-23

Project: Quarterly GW Sampling

Collection Date: 2/25/2016 9:40:00 AM

Lab ID: 1602B49-011

Matrix: AQUEOUS

Received Date: 2/26/2016 4:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: DAM	
Pyrene	ND	5.5	10		µg/L	1	3/3/2016 7:40:01 PM	24000
Pyridine	ND	6.7	10		µg/L	1	3/3/2016 7:40:01 PM	24000
1,2,4-Trichlorobenzene	ND	6.2	10		µg/L	1	3/3/2016 7:40:01 PM	24000
2,4,5-Trichlorophenol	ND	8.4	10		µg/L	1	3/3/2016 7:40:01 PM	24000
2,4,6-Trichlorophenol	ND	8.8	10		µg/L	1	3/3/2016 7:40:01 PM	24000
Surr: 2-Fluorophenol	22.1	0	4.63-113		%Rec	1	3/3/2016 7:40:01 PM	24000
Surr: Phenol-d5	21.9	0	4.13-124		%Rec	1	3/3/2016 7:40:01 PM	24000
Surr: 2,4,6-Tribromophenol	72.2	0	5.14-132		%Rec	1	3/3/2016 7:40:01 PM	24000
Surr: Nitrobenzene-d5	78.6	0	9.13-140		%Rec	1	3/3/2016 7:40:01 PM	24000
Surr: 2-Fluorobiphenyl	80.5	0	10.8-132		%Rec	1	3/3/2016 7:40:01 PM	24000
Surr: 4-Terphenyl-d14	60.3	0	12.9-107		%Rec	1	3/3/2016 7:40:01 PM	24000
EPA METHOD 8260B: VOLATILES							Analyst: RAA	
Benzene	3100	19	200		µg/L	200	3/3/2016 6:10:59 PM	R32574
Toluene	1200	1.8	20		µg/L	20	3/3/2016 6:39:37 PM	R32574
Ethylbenzene	310	2.2	20		µg/L	20	3/3/2016 6:39:37 PM	R32574
Methyl tert-butyl ether (MTBE)	1600	4.2	20		µg/L	20	3/3/2016 6:39:37 PM	R32574
1,2,4-Trimethylbenzene	1300	2.1	20		µg/L	20	3/3/2016 6:39:37 PM	R32574
1,3,5-Trimethylbenzene	350	2.3	20		µg/L	20	3/3/2016 6:39:37 PM	R32574
1,2-Dichloroethane (EDC)	5.3	1.1	20	J	µg/L	20	3/3/2016 6:39:37 PM	R32574
1,2-Dibromoethane (EDB)	ND	2.2	20		µg/L	20	3/3/2016 6:39:37 PM	R32574
Naphthalene	240	1.7	40		µg/L	20	3/3/2016 6:39:37 PM	R32574
1-Methylnaphthalene	85	4.1	80		µg/L	20	3/3/2016 6:39:37 PM	R32574
2-Methylnaphthalene	110	3.2	80		µg/L	20	3/3/2016 6:39:37 PM	R32574
Acetone	42	18	200	J	µg/L	20	3/3/2016 6:39:37 PM	R32574
Bromobenzene	ND	1.6	20		µg/L	20	3/3/2016 6:39:37 PM	R32574
Bromodichloromethane	ND	2.0	20		µg/L	20	3/3/2016 6:39:37 PM	R32574
Bromoform	ND	2.0	20		µg/L	20	3/3/2016 6:39:37 PM	R32574
Bromomethane	ND	16	60		µg/L	20	3/3/2016 6:39:37 PM	R32574
2-Butanone	ND	6.4	200		µg/L	20	3/3/2016 6:39:37 PM	R32574
Carbon disulfide	ND	12	200		µg/L	20	3/3/2016 6:39:37 PM	R32574
Carbon Tetrachloride	ND	2.2	20		µg/L	20	3/3/2016 6:39:37 PM	R32574
Chlorobenzene	ND	2.1	20		µg/L	20	3/3/2016 6:39:37 PM	R32574
Chloroethane	ND	2.9	40		µg/L	20	3/3/2016 6:39:37 PM	R32574
Chloroform	ND	1.8	20		µg/L	20	3/3/2016 6:39:37 PM	R32574
Chloromethane	ND	4.3	60		µg/L	20	3/3/2016 6:39:37 PM	R32574
2-Chlorotoluene	ND	8.0	20		µg/L	20	3/3/2016 6:39:37 PM	R32574
4-Chlorotoluene	ND	2.6	20		µg/L	20	3/3/2016 6:39:37 PM	R32574
cis-1,2-DCE	36	2.5	20		µg/L	20	3/3/2016 6:39:37 PM	R32574
cis-1,3-Dichloropropene	ND	2.0	20		µg/L	20	3/3/2016 6:39:37 PM	R32574

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1602B49

Date Reported: 4/1/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-23

Project: Quarterly GW Sampling

Collection Date: 2/25/2016 9:40:00 AM

Lab ID: 1602B49-011

Matrix: AQUEOUS

Received Date: 2/26/2016 4:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: RAA	
1,2-Dibromo-3-chloropropane	ND	3.1	40		µg/L	20	3/3/2016 6:39:37 PM	R32574
Dibromochloromethane	ND	1.7	20		µg/L	20	3/3/2016 6:39:37 PM	R32574
Dibromomethane	ND	2.4	20		µg/L	20	3/3/2016 6:39:37 PM	R32574
1,2-Dichlorobenzene	ND	8.0	20		µg/L	20	3/3/2016 6:39:37 PM	R32574
1,3-Dichlorobenzene	ND	2.9	20		µg/L	20	3/3/2016 6:39:37 PM	R32574
1,4-Dichlorobenzene	ND	2.9	20		µg/L	20	3/3/2016 6:39:37 PM	R32574
Dichlorodifluoromethane	ND	6.5	20		µg/L	20	3/3/2016 6:39:37 PM	R32574
1,1-Dichloroethane	110	2.2	20		µg/L	20	3/3/2016 6:39:37 PM	R32574
1,1-Dichloroethene	58	1.5	20		µg/L	20	3/3/2016 6:39:37 PM	R32574
1,2-Dichloropropane	ND	0.94	20		µg/L	20	3/3/2016 6:39:37 PM	R32574
1,3-Dichloropropane	ND	3.1	20		µg/L	20	3/3/2016 6:39:37 PM	R32574
2,2-Dichloropropane	ND	2.4	40		µg/L	20	3/3/2016 6:39:37 PM	R32574
1,1-Dichloropropene	ND	2.7	20		µg/L	20	3/3/2016 6:39:37 PM	R32574
Hexachlorobutadiene	ND	4.0	20		µg/L	20	3/3/2016 6:39:37 PM	R32574
2-Hexanone	ND	7.2	200		µg/L	20	3/3/2016 6:39:37 PM	R32574
Isopropylbenzene	29	2.0	20		µg/L	20	3/3/2016 6:39:37 PM	R32574
4-Isopropyltoluene	9.7	2.8	20	J	µg/L	20	3/3/2016 6:39:37 PM	R32574
4-Methyl-2-pentanone	ND	3.0	200		µg/L	20	3/3/2016 6:39:37 PM	R32574
Methylene Chloride	ND	1.3	60		µg/L	20	3/3/2016 6:39:37 PM	R32574
n-Butylbenzene	17	3.2	60	J	µg/L	20	3/3/2016 6:39:37 PM	R32574
n-Propylbenzene	48	2.6	20		µg/L	20	3/3/2016 6:39:37 PM	R32574
sec-Butylbenzene	10	2.2	20	J	µg/L	20	3/3/2016 6:39:37 PM	R32574
Styrene	ND	1.9	20		µg/L	20	3/3/2016 6:39:37 PM	R32574
tert-Butylbenzene	ND	1.9	20		µg/L	20	3/3/2016 6:39:37 PM	R32574
1,1,1,2-Tetrachloroethane	ND	2.2	20		µg/L	20	3/3/2016 6:39:37 PM	R32574
1,1,2,2-Tetrachloroethane	ND	2.1	40		µg/L	20	3/3/2016 6:39:37 PM	R32574
Tetrachloroethene (PCE)	ND	3.0	20		µg/L	20	3/3/2016 6:39:37 PM	R32574
trans-1,2-DCE	ND	8.0	20		µg/L	20	3/3/2016 6:39:37 PM	R32574
trans-1,3-Dichloropropene	ND	1.7	20		µg/L	20	3/3/2016 6:39:37 PM	R32574
1,2,3-Trichlorobenzene	ND	2.3	20		µg/L	20	3/3/2016 6:39:37 PM	R32574
1,2,4-Trichlorobenzene	ND	2.7	20		µg/L	20	3/3/2016 6:39:37 PM	R32574
1,1,1-Trichloroethane	14	1.3	20	J	µg/L	20	3/3/2016 6:39:37 PM	R32574
1,1,2-Trichloroethane	ND	1.5	20		µg/L	20	3/3/2016 6:39:37 PM	R32574
Trichloroethene (TCE)	ND	3.5	20		µg/L	20	3/3/2016 6:39:37 PM	R32574
Trichlorofluoromethane	ND	1.8	20		µg/L	20	3/3/2016 6:39:37 PM	R32574
1,2,3-Trichloropropane	ND	2.2	40		µg/L	20	3/3/2016 6:39:37 PM	R32574
Vinyl chloride	ND	1.3	20		µg/L	20	3/3/2016 6:39:37 PM	R32574
Xylenes, Total	6700	65	300		µg/L	200	3/3/2016 6:10:59 PM	R32574
Surr: 1,2-Dichloroethane-d4	89.0	0	70-130		%Rec	20	3/3/2016 6:39:37 PM	R32574

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
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	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1602B49

Date Reported: 4/1/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-23

Project: Quarterly GW Sampling

Collection Date: 2/25/2016 9:40:00 AM

Lab ID: 1602B49-011

Matrix: AQUEOUS

Received Date: 2/26/2016 4:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: RAA	
Surr: 4-Bromofluorobenzene	90.8	0	70-130		%Rec	20	3/3/2016 6:39:37 PM	R32574
Surr: Dibromofluoromethane	99.1	0	70-130		%Rec	20	3/3/2016 6:39:37 PM	R32574
Surr: Toluene-d8	98.9	0	70-130		%Rec	20	3/3/2016 6:39:37 PM	R32574

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-22

Project: Quarterly GW Sampling

Collection Date: 2/25/2016 10:55:00 AM

Lab ID: 1602B49-012

Matrix: AQUEOUS

Received Date: 2/26/2016 4:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015M/D: DIESEL RANGE							Analyst: KJH	
Diesel Range Organics (DRO)	2.7	0.69	1.0		mg/L	1	3/1/2016 5:08:27 PM	24002
Motor Oil Range Organics (MRO)	ND	5.0	5.0		mg/L	1	3/1/2016 5:08:27 PM	24002
Surr: DNOP	109	0	70-141		%Rec	1	3/1/2016 5:08:27 PM	24002
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB	
Gasoline Range Organics (GRO)	24	0.51	1.0		mg/L	20	3/1/2016 10:41:50 PM	A32486
Surr: BFB	95.8	0	49.5-130		%Rec	20	3/1/2016 10:41:50 PM	A32486
EPA METHOD 300.0: ANIONS							Analyst: LGT	
Fluoride	0.37	0.023	0.10		mg/L	1	3/3/2016 4:24:51 AM	A32541
Chloride	95	0.55	10		mg/L	20	3/3/2016 4:37:16 AM	A32541
Bromide	0.75	0.032	0.10		mg/L	1	3/3/2016 4:24:51 AM	A32541
Phosphorus, Orthophosphate (As P)	ND	0.22	0.50	H	mg/L	1	3/3/2016 4:24:51 AM	A32541
Sulfate	4.7	0.064	0.50		mg/L	1	3/3/2016 4:24:51 AM	A32541
Nitrate+Nitrite as N	ND	0.42	1.0		mg/L	5	3/1/2016 1:21:41 PM	R32498
EPA METHOD 200.7: DISSOLVED METALS							Analyst: MED	
Barium	1.3	0.013	0.020		mg/L	10	3/16/2016 1:39:37 PM	D32831
Cadmium	ND	0.00075	0.0020		mg/L	1	3/11/2016 4:55:58 PM	C32754
Calcium	120	2.6	10		mg/L	10	3/16/2016 1:39:37 PM	D32831
Chromium	ND	0.0018	0.0060		mg/L	1	3/11/2016 4:55:58 PM	C32754
Copper	ND	0.0040	0.0060		mg/L	1	3/15/2016 1:09:32 PM	A32792
Iron	6.3	0.091	0.20	*	mg/L	10	3/16/2016 1:39:37 PM	D32831
Magnesium	23	0.013	1.0		mg/L	1	3/11/2016 4:55:58 PM	C32754
Manganese	2.3	0.0032	0.020	*	mg/L	10	3/16/2016 1:39:37 PM	D32831
Potassium	1.0	0.18	1.0		mg/L	1	3/11/2016 4:55:58 PM	C32754
Silver	ND	0.0028	0.0050		mg/L	1	3/11/2016 4:55:58 PM	C32754
Sodium	250	0.96	10		mg/L	10	3/16/2016 1:39:37 PM	D32831
Zinc	0.011	0.0028	0.010		mg/L	1	3/16/2016 1:37:57 PM	D32831
EPA METHOD 200.7: TOTAL METALS							Analyst: ELS	
Barium	2.0	0.0053	0.010		mg/L	5	3/11/2016 3:33:17 PM	24015
Cadmium	ND	0.00062	0.0020		mg/L	1	3/11/2016 3:31:27 PM	24015
Chromium	0.012	0.0022	0.0060		mg/L	1	3/11/2016 3:31:27 PM	24015
Copper	0.013	0.0051	0.0060		mg/L	1	3/11/2016 3:31:27 PM	24015
Iron	20	0.36	1.0	*	mg/L	50	3/14/2016 2:01:17 PM	24015
Manganese	3.4	0.0076	0.010	*	mg/L	5	3/11/2016 3:33:17 PM	24015
Silver	ND	0.0021	0.0050		mg/L	1	3/23/2016 11:38:46 AM	24381
Zinc	0.039	0.0039	0.010		mg/L	1	3/11/2016 3:31:27 PM	24015
EPA 200.8: DISSOLVED METALS							Analyst: JLF	
Arsenic	0.0014	0.000065	0.0010		mg/L	1	3/15/2016 5:49:01 PM	C32805

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	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
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Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1602B49

Date Reported: 4/1/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-22

Project: Quarterly GW Sampling

Collection Date: 2/25/2016 10:55:00 AM

Lab ID: 1602B49-012

Matrix: AQUEOUS

Received Date: 2/26/2016 4:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA 200.8: DISSOLVED METALS							Analyst: JLF	
Lead	0.00053	0.000026	0.00050		mg/L	1	3/15/2016 5:49:01 PM	C32805
Selenium	0.0015	0.00019	0.0010		mg/L	1	3/15/2016 5:49:01 PM	C32805
Uranium	0.0019	0.0000048	0.00050		mg/L	1	3/15/2016 5:49:01 PM	C32805
200.8 ICPMS METALS:TOTAL							Analyst: JLF	
Arsenic	0.0023	0.00029	0.0010		mg/L	1	3/11/2016 1:45:37 PM	24015
Lead	0.035	0.00024	0.0025	*	mg/L	5	3/11/2016 3:47:09 PM	24015
Selenium	0.0025	0.00062	0.0050	J	mg/L	5	3/11/2016 3:47:09 PM	24015
Uranium	0.0039	0.0000049	0.00050		mg/L	1	3/11/2016 1:45:37 PM	24015
EPA METHOD 245.1: MERCURY							Analyst: DBD	
Mercury	ND	0.000053	0.00020		mg/L	1	3/2/2016 1:26:48 PM	24021
EPA METHOD 8270C: SEMIVOLATILES							Analyst: DAM	
Acenaphthene	ND	8.0	10		µg/L	1	3/4/2016 11:11:44 AM	24000
Acenaphthylene	ND	7.2	10		µg/L	1	3/4/2016 11:11:44 AM	24000
Aniline	ND	9.8	10		µg/L	1	3/4/2016 11:11:44 AM	24000
Anthracene	ND	6.6	10		µg/L	1	3/4/2016 11:11:44 AM	24000
Azobenzene	ND	9.3	10		µg/L	1	3/4/2016 11:11:44 AM	24000
Benz(a)anthracene	ND	6.1	10		µg/L	1	3/4/2016 11:11:44 AM	24000
Benzo(a)pyrene	ND	6.3	10		µg/L	1	3/4/2016 11:11:44 AM	24000
Benzo(b)fluoranthene	ND	6.6	10		µg/L	1	3/4/2016 11:11:44 AM	24000
Benzo(g,h,i)perylene	ND	6.8	10		µg/L	1	3/4/2016 11:11:44 AM	24000
Benzo(k)fluoranthene	ND	7.2	10		µg/L	1	3/4/2016 11:11:44 AM	24000
Benzoic acid	ND	9.8	20		µg/L	1	3/4/2016 11:11:44 AM	24000
Benzyl alcohol	ND	8.0	10		µg/L	1	3/4/2016 11:11:44 AM	24000
Bis(2-chloroethoxy)methane	ND	7.3	10		µg/L	1	3/4/2016 11:11:44 AM	24000
Bis(2-chloroethyl)ether	ND	8.3	10		µg/L	1	3/4/2016 11:11:44 AM	24000
Bis(2-chloroisopropyl)ether	ND	9.1	10		µg/L	1	3/4/2016 11:11:44 AM	24000
Bis(2-ethylhexyl)phthalate	ND	7.5	10		µg/L	1	3/4/2016 11:11:44 AM	24000
4-Bromophenyl phenyl ether	ND	8.6	10		µg/L	1	3/4/2016 11:11:44 AM	24000
Butyl benzyl phthalate	ND	7.8	10		µg/L	1	3/4/2016 11:11:44 AM	24000
Carbazole	ND	7.2	10		µg/L	1	3/4/2016 11:11:44 AM	24000
4-Chloro-3-methylphenol	ND	8.0	10		µg/L	1	3/4/2016 11:11:44 AM	24000
4-Chloroaniline	ND	7.1	10		µg/L	1	3/4/2016 11:11:44 AM	24000
2-Chloronaphthalene	ND	7.2	10		µg/L	1	3/4/2016 11:11:44 AM	24000
2-Chlorophenol	ND	8.7	10		µg/L	1	3/4/2016 11:11:44 AM	24000
4-Chlorophenyl phenyl ether	ND	8.2	10		µg/L	1	3/4/2016 11:11:44 AM	24000
Chrysene	ND	6.6	10		µg/L	1	3/4/2016 11:11:44 AM	24000
Di-n-butyl phthalate	ND	8.1	10		µg/L	1	3/4/2016 11:11:44 AM	24000
Di-n-octyl phthalate	ND	6.3	10		µg/L	1	3/4/2016 11:11:44 AM	24000

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Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1602B49

Date Reported: 4/1/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-22

Project: Quarterly GW Sampling

Collection Date: 2/25/2016 10:55:00 AM

Lab ID: 1602B49-012

Matrix: AQUEOUS

Received Date: 2/26/2016 4:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: DAM	
Dibenz(a,h)anthracene	ND	6.8	10		µg/L	1	3/4/2016 11:11:44 AM	24000
Dibenzofuran	ND	8.6	10		µg/L	1	3/4/2016 11:11:44 AM	24000
1,2-Dichlorobenzene	ND	6.4	10		µg/L	1	3/4/2016 11:11:44 AM	24000
1,3-Dichlorobenzene	ND	6.1	10		µg/L	1	3/4/2016 11:11:44 AM	24000
1,4-Dichlorobenzene	ND	6.3	10		µg/L	1	3/4/2016 11:11:44 AM	24000
3,3'-Dichlorobenzidine	ND	4.7	10		µg/L	1	3/4/2016 11:11:44 AM	24000
Diethyl phthalate	ND	8.2	10		µg/L	1	3/4/2016 11:11:44 AM	24000
Dimethyl phthalate	ND	7.5	10		µg/L	1	3/4/2016 11:11:44 AM	24000
2,4-Dichlorophenol	ND	7.6	20		µg/L	1	3/4/2016 11:11:44 AM	24000
2,4-Dimethylphenol	ND	4.7	10		µg/L	1	3/4/2016 11:11:44 AM	24000
4,6-Dinitro-2-methylphenol	ND	7.3	20		µg/L	1	3/4/2016 11:11:44 AM	24000
2,4-Dinitrophenol	ND	9.9	20		µg/L	1	3/4/2016 11:11:44 AM	24000
2,4-Dinitrotoluene	ND	8.5	10		µg/L	1	3/4/2016 11:11:44 AM	24000
2,6-Dinitrotoluene	ND	7.5	10		µg/L	1	3/4/2016 11:11:44 AM	24000
Fluoranthene	ND	6.1	10		µg/L	1	3/4/2016 11:11:44 AM	24000
Fluorene	ND	7.2	10		µg/L	1	3/4/2016 11:11:44 AM	24000
Hexachlorobenzene	ND	7.1	10		µg/L	1	3/4/2016 11:11:44 AM	24000
Hexachlorobutadiene	ND	5.2	10		µg/L	1	3/4/2016 11:11:44 AM	24000
Hexachlorocyclopentadiene	ND	5.2	10		µg/L	1	3/4/2016 11:11:44 AM	24000
Hexachloroethane	ND	5.8	10		µg/L	1	3/4/2016 11:11:44 AM	24000
Indeno(1,2,3-cd)pyrene	ND	5.6	10		µg/L	1	3/4/2016 11:11:44 AM	24000
Isophorone	ND	8.1	10		µg/L	1	3/4/2016 11:11:44 AM	24000
1-Methylnaphthalene	42	6.8	10		µg/L	1	3/4/2016 11:11:44 AM	24000
2-Methylnaphthalene	ND	7.0	10		µg/L	1	3/4/2016 11:11:44 AM	24000
2-Methylphenol	ND	8.2	10		µg/L	1	3/4/2016 11:11:44 AM	24000
3+4-Methylphenol	ND	7.1	10		µg/L	1	3/4/2016 11:11:44 AM	24000
N-Nitrosodi-n-propylamine	ND	7.8	10		µg/L	1	3/4/2016 11:11:44 AM	24000
N-Nitrosodimethylamine	ND	9.1	10		µg/L	1	3/4/2016 11:11:44 AM	24000
N-Nitrosodiphenylamine	ND	6.2	10		µg/L	1	3/4/2016 11:11:44 AM	24000
Naphthalene	29	5.9	10		µg/L	1	3/4/2016 11:11:44 AM	24000
2-Nitroaniline	ND	9.0	10		µg/L	1	3/4/2016 11:11:44 AM	24000
3-Nitroaniline	ND	8.8	10		µg/L	1	3/4/2016 11:11:44 AM	24000
4-Nitroaniline	ND	9.1	10		µg/L	1	3/4/2016 11:11:44 AM	24000
Nitrobenzene	ND	7.8	10		µg/L	1	3/4/2016 11:11:44 AM	24000
2-Nitrophenol	ND	7.6	10		µg/L	1	3/4/2016 11:11:44 AM	24000
4-Nitrophenol	ND	6.7	10		µg/L	1	3/4/2016 11:11:44 AM	24000
Pentachlorophenol	ND	7.6	20		µg/L	1	3/4/2016 11:11:44 AM	24000
Phenanthrene	ND	6.8	10		µg/L	1	3/4/2016 11:11:44 AM	24000
Phenol	ND	5.1	10		µg/L	1	3/4/2016 11:11:44 AM	24000

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	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1602B49

Date Reported: 4/1/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-22

Project: Quarterly GW Sampling

Collection Date: 2/25/2016 10:55:00 AM

Lab ID: 1602B49-012

Matrix: AQUEOUS

Received Date: 2/26/2016 4:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: DAM	
Pyrene	ND	5.5	10		µg/L	1	3/4/2016 11:11:44 AM	24000
Pyridine	ND	6.7	10		µg/L	1	3/4/2016 11:11:44 AM	24000
1,2,4-Trichlorobenzene	ND	6.2	10		µg/L	1	3/4/2016 11:11:44 AM	24000
2,4,5-Trichlorophenol	ND	8.4	10		µg/L	1	3/4/2016 11:11:44 AM	24000
2,4,6-Trichlorophenol	ND	8.8	10		µg/L	1	3/4/2016 11:11:44 AM	24000
Surr: 2-Fluorophenol	19.0	0	4.63-113		%Rec	1	3/4/2016 11:11:44 AM	24000
Surr: Phenol-d5	18.0	0	4.13-124		%Rec	1	3/4/2016 11:11:44 AM	24000
Surr: 2,4,6-Tribromophenol	62.8	0	5.14-132		%Rec	1	3/4/2016 11:11:44 AM	24000
Surr: Nitrobenzene-d5	44.4	0	9.13-140		%Rec	1	3/4/2016 11:11:44 AM	24000
Surr: 2-Fluorobiphenyl	48.3	0	10.8-132		%Rec	1	3/4/2016 11:11:44 AM	24000
Surr: 4-Terphenyl-d14	56.8	0	12.9-107		%Rec	1	3/4/2016 11:11:44 AM	24000
EPA METHOD 8260B: VOLATILES							Analyst: RAA	
Benzene	4000	19	200	P	µg/L	200	3/3/2016 7:08:21 PM	R32574
Toluene	32	1.8	20	P	µg/L	20	3/3/2016 7:37:15 PM	R32574
Ethylbenzene	570	2.2	20	P	µg/L	20	3/3/2016 7:37:15 PM	R32574
Methyl tert-butyl ether (MTBE)	7200	42	200	P	µg/L	200	3/3/2016 7:08:21 PM	R32574
1,2,4-Trimethylbenzene	43	2.1	20	P	µg/L	20	3/3/2016 7:37:15 PM	R32574
1,3,5-Trimethylbenzene	ND	2.3	20	P	µg/L	20	3/3/2016 7:37:15 PM	R32574
1,2-Dichloroethane (EDC)	3.0	1.1	20	JP	µg/L	20	3/3/2016 7:37:15 PM	R32574
1,2-Dibromoethane (EDB)	ND	2.2	20	P	µg/L	20	3/3/2016 7:37:15 PM	R32574
Naphthalene	73	1.7	40	P	µg/L	20	3/3/2016 7:37:15 PM	R32574
1-Methylnaphthalene	110	4.1	80	P	µg/L	20	3/3/2016 7:37:15 PM	R32574
2-Methylnaphthalene	17	3.2	80	JP	µg/L	20	3/3/2016 7:37:15 PM	R32574
Acetone	ND	18	200	P	µg/L	20	3/3/2016 7:37:15 PM	R32574
Bromobenzene	ND	1.6	20	P	µg/L	20	3/3/2016 7:37:15 PM	R32574
Bromodichloromethane	ND	2.0	20	P	µg/L	20	3/3/2016 7:37:15 PM	R32574
Bromoform	ND	2.0	20	P	µg/L	20	3/3/2016 7:37:15 PM	R32574
Bromomethane	ND	16	60	P	µg/L	20	3/3/2016 7:37:15 PM	R32574
2-Butanone	ND	6.4	200	P	µg/L	20	3/3/2016 7:37:15 PM	R32574
Carbon disulfide	ND	12	200	P	µg/L	20	3/3/2016 7:37:15 PM	R32574
Carbon Tetrachloride	ND	2.2	20	P	µg/L	20	3/3/2016 7:37:15 PM	R32574
Chlorobenzene	ND	2.1	20	P	µg/L	20	3/3/2016 7:37:15 PM	R32574
Chloroethane	ND	2.9	40	P	µg/L	20	3/3/2016 7:37:15 PM	R32574
Chloroform	ND	1.8	20	P	µg/L	20	3/3/2016 7:37:15 PM	R32574
Chloromethane	ND	4.3	60	P	µg/L	20	3/3/2016 7:37:15 PM	R32574
2-Chlorotoluene	ND	8.0	20	P	µg/L	20	3/3/2016 7:37:15 PM	R32574
4-Chlorotoluene	ND	2.6	20	P	µg/L	20	3/3/2016 7:37:15 PM	R32574
cis-1,2-DCE	7.7	2.5	20	JP	µg/L	20	3/3/2016 7:37:15 PM	R32574
cis-1,3-Dichloropropene	ND	2.0	20	P	µg/L	20	3/3/2016 7:37:15 PM	R32574

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	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
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Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1602B49

Date Reported: 4/1/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-22

Project: Quarterly GW Sampling

Collection Date: 2/25/2016 10:55:00 AM

Lab ID: 1602B49-012

Matrix: AQUEOUS

Received Date: 2/26/2016 4:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: RAA	
1,2-Dibromo-3-chloropropane	ND	3.1	40	P	µg/L	20	3/3/2016 7:37:15 PM	R32574
Dibromochloromethane	ND	1.7	20	P	µg/L	20	3/3/2016 7:37:15 PM	R32574
Dibromomethane	ND	2.4	20	P	µg/L	20	3/3/2016 7:37:15 PM	R32574
1,2-Dichlorobenzene	ND	8.0	20	P	µg/L	20	3/3/2016 7:37:15 PM	R32574
1,3-Dichlorobenzene	ND	2.9	20	P	µg/L	20	3/3/2016 7:37:15 PM	R32574
1,4-Dichlorobenzene	ND	2.9	20	P	µg/L	20	3/3/2016 7:37:15 PM	R32574
Dichlorodifluoromethane	ND	6.5	20	P	µg/L	20	3/3/2016 7:37:15 PM	R32574
1,1-Dichloroethane	ND	2.2	20	P	µg/L	20	3/3/2016 7:37:15 PM	R32574
1,1-Dichloroethene	4.0	1.5	20	JP	µg/L	20	3/3/2016 7:37:15 PM	R32574
1,2-Dichloropropane	ND	0.94	20	P	µg/L	20	3/3/2016 7:37:15 PM	R32574
1,3-Dichloropropane	ND	3.1	20	P	µg/L	20	3/3/2016 7:37:15 PM	R32574
2,2-Dichloropropane	ND	2.4	40	P	µg/L	20	3/3/2016 7:37:15 PM	R32574
1,1-Dichloropropene	ND	2.7	20	P	µg/L	20	3/3/2016 7:37:15 PM	R32574
Hexachlorobutadiene	ND	4.0	20	P	µg/L	20	3/3/2016 7:37:15 PM	R32574
2-Hexanone	ND	7.2	200	P	µg/L	20	3/3/2016 7:37:15 PM	R32574
Isopropylbenzene	20	2.0	20	P	µg/L	20	3/3/2016 7:37:15 PM	R32574
4-Isopropyltoluene	3.4	2.8	20	JP	µg/L	20	3/3/2016 7:37:15 PM	R32574
4-Methyl-2-pentanone	ND	3.0	200	P	µg/L	20	3/3/2016 7:37:15 PM	R32574
Methylene Chloride	ND	1.3	60	P	µg/L	20	3/3/2016 7:37:15 PM	R32574
n-Butylbenzene	13	3.2	60	JP	µg/L	20	3/3/2016 7:37:15 PM	R32574
n-Propylbenzene	50	2.6	20	P	µg/L	20	3/3/2016 7:37:15 PM	R32574
sec-Butylbenzene	7.1	2.2	20	JP	µg/L	20	3/3/2016 7:37:15 PM	R32574
Styrene	ND	1.9	20	P	µg/L	20	3/3/2016 7:37:15 PM	R32574
tert-Butylbenzene	ND	1.9	20	P	µg/L	20	3/3/2016 7:37:15 PM	R32574
1,1,1,2-Tetrachloroethane	ND	2.2	20	P	µg/L	20	3/3/2016 7:37:15 PM	R32574
1,1,2,2-Tetrachloroethane	ND	2.1	40	P	µg/L	20	3/3/2016 7:37:15 PM	R32574
Tetrachloroethene (PCE)	ND	3.0	20	P	µg/L	20	3/3/2016 7:37:15 PM	R32574
trans-1,2-DCE	ND	8.0	20	P	µg/L	20	3/3/2016 7:37:15 PM	R32574
trans-1,3-Dichloropropene	ND	1.7	20	P	µg/L	20	3/3/2016 7:37:15 PM	R32574
1,2,3-Trichlorobenzene	ND	2.3	20	P	µg/L	20	3/3/2016 7:37:15 PM	R32574
1,2,4-Trichlorobenzene	ND	2.7	20	P	µg/L	20	3/3/2016 7:37:15 PM	R32574
1,1,1-Trichloroethane	ND	1.3	20	P	µg/L	20	3/3/2016 7:37:15 PM	R32574
1,1,2-Trichloroethane	ND	1.5	20	P	µg/L	20	3/3/2016 7:37:15 PM	R32574
Trichloroethene (TCE)	ND	3.5	20	P	µg/L	20	3/3/2016 7:37:15 PM	R32574
Trichlorofluoromethane	ND	1.8	20	P	µg/L	20	3/3/2016 7:37:15 PM	R32574
1,2,3-Trichloropropane	ND	2.2	40	P	µg/L	20	3/3/2016 7:37:15 PM	R32574
Vinyl chloride	ND	1.3	20	P	µg/L	20	3/3/2016 7:37:15 PM	R32574
Xylenes, Total	70	6.5	30	P	µg/L	20	3/3/2016 7:37:15 PM	R32574
Surr: 1,2-Dichloroethane-d4	91.3	0	70-130	P	%Rec	20	3/3/2016 7:37:15 PM	R32574

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1602B49

Date Reported: 4/1/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-22

Project: Quarterly GW Sampling

Collection Date: 2/25/2016 10:55:00 AM

Lab ID: 1602B49-012

Matrix: AQUEOUS

Received Date: 2/26/2016 4:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: RAA	
Surr: 4-Bromofluorobenzene	95.1	0	70-130	P	%Rec	20	3/3/2016 7:37:15 PM	R32574
Surr: Dibromofluoromethane	97.3	0	70-130	P	%Rec	20	3/3/2016 7:37:15 PM	R32574
Surr: Toluene-d8	109	0	70-130	P	%Rec	20	3/3/2016 7:37:15 PM	R32574

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1602B49

Date Reported: 4/1/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-33

Project: Quarterly GW Sampling

Collection Date: 2/25/2016 11:55:00 AM

Lab ID: 1602B49-013

Matrix: AQUEOUS

Received Date: 2/26/2016 4:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015M/D: DIESEL RANGE							Analyst: KJH	
Diesel Range Organics (DRO)	ND	0.69	1.0		mg/L	1	3/1/2016 5:29:49 PM	24002
Motor Oil Range Organics (MRO)	ND	5.0	5.0		mg/L	1	3/1/2016 5:29:49 PM	24002
Surr: DNOP	93.4	0	70-141		%Rec	1	3/1/2016 5:29:49 PM	24002
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB	
Gasoline Range Organics (GRO)	0.35	0.025	0.050		mg/L	1	3/1/2016 11:06:24 PM	A32486
Surr: BFB	83.6	0	49.5-130		%Rec	1	3/1/2016 11:06:24 PM	A32486
EPA METHOD 300.0: ANIONS							Analyst: LGT	
Fluoride	0.25	0.023	0.10		mg/L	1	3/3/2016 4:49:41 AM	A32541
Chloride	100	0.55	10		mg/L	20	3/3/2016 5:02:05 AM	A32541
Bromide	0.81	0.032	0.10		mg/L	1	3/3/2016 4:49:41 AM	A32541
Phosphorus, Orthophosphate (As P)	ND	0.22	0.50	H	mg/L	1	3/3/2016 4:49:41 AM	A32541
Sulfate	310	1.3	10		mg/L	20	3/3/2016 5:02:05 AM	A32541
Nitrate+Nitrite as N	ND	0.42	1.0		mg/L	5	3/1/2016 1:34:06 PM	R32498
EPA METHOD 200.7: DISSOLVED METALS							Analyst: ELS	
Barium	0.047	0.0013	0.0020		mg/L	1	3/11/2016 4:57:39 PM	C32754
Cadmium	ND	0.00075	0.0020		mg/L	1	3/11/2016 4:57:39 PM	C32754
Calcium	92	0.26	1.0		mg/L	1	3/16/2016 1:41:36 PM	D32831
Chromium	ND	0.0018	0.0060		mg/L	1	3/11/2016 4:57:39 PM	C32754
Copper	ND	0.0040	0.0060		mg/L	1	3/15/2016 1:13:12 PM	A32792
Iron	0.045	0.0091	0.020		mg/L	1	3/16/2016 1:41:36 PM	D32831
Magnesium	20	0.013	1.0		mg/L	1	3/11/2016 4:57:39 PM	C32754
Manganese	0.16	0.00032	0.0020	*	mg/L	1	3/11/2016 4:57:39 PM	C32754
Potassium	1.2	0.18	1.0		mg/L	1	3/11/2016 4:57:39 PM	C32754
Silver	ND	0.0028	0.0050		mg/L	1	3/11/2016 4:57:39 PM	C32754
Sodium	310	0.48	5.0		mg/L	5	3/16/2016 1:43:32 PM	D32831
Zinc	0.017	0.0028	0.010		mg/L	1	3/16/2016 1:41:36 PM	D32831
EPA METHOD 200.7: TOTAL METALS							Analyst: ELS	
Barium	0.24	0.0011	0.0020		mg/L	1	3/11/2016 3:37:06 PM	24015
Cadmium	ND	0.00062	0.0020		mg/L	1	3/11/2016 3:37:06 PM	24015
Chromium	0.0055	0.0022	0.0060	J	mg/L	1	3/11/2016 3:37:06 PM	24015
Copper	ND	0.0051	0.0060		mg/L	1	3/11/2016 3:37:06 PM	24015
Iron	4.9	0.036	0.10	*	mg/L	5	3/11/2016 3:38:49 PM	24015
Manganese	0.55	0.0015	0.0020	*	mg/L	1	3/11/2016 3:37:06 PM	24015
Silver	ND	0.0021	0.0050		mg/L	1	3/23/2016 11:42:24 AM	24381
Zinc	0.016	0.0039	0.010		mg/L	1	3/11/2016 3:37:06 PM	24015
EPA 200.8: DISSOLVED METALS							Analyst: JLF	
Arsenic	0.00079	0.000065	0.0010	J	mg/L	1	3/15/2016 5:52:04 PM	C32805

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1602B49

Date Reported: 4/1/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-33

Project: Quarterly GW Sampling

Collection Date: 2/25/2016 11:55:00 AM

Lab ID: 1602B49-013

Matrix: AQUEOUS

Received Date: 2/26/2016 4:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA 200.8: DISSOLVED METALS							Analyst: JLF	
Lead	0.00011	0.000026	0.00050	J	mg/L	1	3/15/2016 5:52:04 PM	C32805
Selenium	0.0018	0.00019	0.0010		mg/L	1	3/15/2016 5:52:04 PM	C32805
Uranium	0.040	0.000024	0.0025	*	mg/L	5	3/22/2016 7:55:11 PM	C32978
200.8 ICPMS METALS:TOTAL							Analyst: JLF	
Arsenic	0.0012	0.00029	0.0010		mg/L	1	3/11/2016 1:48:38 PM	24015
Lead	0.0067	0.000047	0.00050		mg/L	1	3/11/2016 1:48:38 PM	24015
Selenium	0.0016	0.00062	0.0050	J	mg/L	5	3/11/2016 3:50:10 PM	24015
Uranium	0.040	0.000025	0.0025	*	mg/L	5	3/11/2016 3:50:10 PM	24015
EPA METHOD 245.1: MERCURY							Analyst: DBD	
Mercury	ND	0.000053	0.00020		mg/L	1	3/2/2016 1:28:47 PM	24021
EPA METHOD 8270C: SEMIVOLATILES							Analyst: DAM	
Acenaphthene	ND	8.0	10		µg/L	1	3/4/2016 11:41:37 AM	24000
Acenaphthylene	ND	7.2	10		µg/L	1	3/4/2016 11:41:37 AM	24000
Aniline	ND	9.8	10		µg/L	1	3/4/2016 11:41:37 AM	24000
Anthracene	ND	6.6	10		µg/L	1	3/4/2016 11:41:37 AM	24000
Azobenzene	ND	9.3	10		µg/L	1	3/4/2016 11:41:37 AM	24000
Benz(a)anthracene	ND	6.1	10		µg/L	1	3/4/2016 11:41:37 AM	24000
Benzo(a)pyrene	ND	6.3	10		µg/L	1	3/4/2016 11:41:37 AM	24000
Benzo(b)fluoranthene	ND	6.6	10		µg/L	1	3/4/2016 11:41:37 AM	24000
Benzo(g,h,i)perylene	ND	6.8	10		µg/L	1	3/4/2016 11:41:37 AM	24000
Benzo(k)fluoranthene	ND	7.2	10		µg/L	1	3/4/2016 11:41:37 AM	24000
Benzoic acid	ND	9.8	20		µg/L	1	3/4/2016 11:41:37 AM	24000
Benzyl alcohol	ND	8.0	10		µg/L	1	3/4/2016 11:41:37 AM	24000
Bis(2-chloroethoxy)methane	ND	7.3	10		µg/L	1	3/4/2016 11:41:37 AM	24000
Bis(2-chloroethyl)ether	ND	8.3	10		µg/L	1	3/4/2016 11:41:37 AM	24000
Bis(2-chloroisopropyl)ether	ND	9.1	10		µg/L	1	3/4/2016 11:41:37 AM	24000
Bis(2-ethylhexyl)phthalate	ND	7.5	10		µg/L	1	3/4/2016 11:41:37 AM	24000
4-Bromophenyl phenyl ether	ND	8.6	10		µg/L	1	3/4/2016 11:41:37 AM	24000
Butyl benzyl phthalate	ND	7.8	10		µg/L	1	3/4/2016 11:41:37 AM	24000
Carbazole	ND	7.2	10		µg/L	1	3/4/2016 11:41:37 AM	24000
4-Chloro-3-methylphenol	ND	8.0	10		µg/L	1	3/4/2016 11:41:37 AM	24000
4-Chloroaniline	ND	7.1	10		µg/L	1	3/4/2016 11:41:37 AM	24000
2-Chloronaphthalene	ND	7.2	10		µg/L	1	3/4/2016 11:41:37 AM	24000
2-Chlorophenol	ND	8.7	10		µg/L	1	3/4/2016 11:41:37 AM	24000
4-Chlorophenyl phenyl ether	ND	8.2	10		µg/L	1	3/4/2016 11:41:37 AM	24000
Chrysene	ND	6.6	10		µg/L	1	3/4/2016 11:41:37 AM	24000
Di-n-butyl phthalate	ND	8.1	10		µg/L	1	3/4/2016 11:41:37 AM	24000
Di-n-octyl phthalate	ND	6.3	10		µg/L	1	3/4/2016 11:41:37 AM	24000

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1602B49

Date Reported: 4/1/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-33

Project: Quarterly GW Sampling

Collection Date: 2/25/2016 11:55:00 AM

Lab ID: 1602B49-013

Matrix: AQUEOUS

Received Date: 2/26/2016 4:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: DAM	
Dibenz(a,h)anthracene	ND	6.8	10		µg/L	1	3/4/2016 11:41:37 AM	24000
Dibenzofuran	ND	8.6	10		µg/L	1	3/4/2016 11:41:37 AM	24000
1,2-Dichlorobenzene	ND	6.4	10		µg/L	1	3/4/2016 11:41:37 AM	24000
1,3-Dichlorobenzene	ND	6.1	10		µg/L	1	3/4/2016 11:41:37 AM	24000
1,4-Dichlorobenzene	ND	6.3	10		µg/L	1	3/4/2016 11:41:37 AM	24000
3,3'-Dichlorobenzidine	ND	4.7	10		µg/L	1	3/4/2016 11:41:37 AM	24000
Diethyl phthalate	ND	8.2	10		µg/L	1	3/4/2016 11:41:37 AM	24000
Dimethyl phthalate	ND	7.5	10		µg/L	1	3/4/2016 11:41:37 AM	24000
2,4-Dichlorophenol	ND	7.6	20		µg/L	1	3/4/2016 11:41:37 AM	24000
2,4-Dimethylphenol	ND	4.7	10		µg/L	1	3/4/2016 11:41:37 AM	24000
4,6-Dinitro-2-methylphenol	ND	7.3	20		µg/L	1	3/4/2016 11:41:37 AM	24000
2,4-Dinitrophenol	ND	9.9	20		µg/L	1	3/4/2016 11:41:37 AM	24000
2,4-Dinitrotoluene	ND	8.5	10		µg/L	1	3/4/2016 11:41:37 AM	24000
2,6-Dinitrotoluene	ND	7.5	10		µg/L	1	3/4/2016 11:41:37 AM	24000
Fluoranthene	ND	6.1	10		µg/L	1	3/4/2016 11:41:37 AM	24000
Fluorene	ND	7.2	10		µg/L	1	3/4/2016 11:41:37 AM	24000
Hexachlorobenzene	ND	7.1	10		µg/L	1	3/4/2016 11:41:37 AM	24000
Hexachlorobutadiene	ND	5.2	10		µg/L	1	3/4/2016 11:41:37 AM	24000
Hexachlorocyclopentadiene	ND	5.2	10		µg/L	1	3/4/2016 11:41:37 AM	24000
Hexachloroethane	ND	5.8	10		µg/L	1	3/4/2016 11:41:37 AM	24000
Indeno(1,2,3-cd)pyrene	ND	5.6	10		µg/L	1	3/4/2016 11:41:37 AM	24000
Isophorone	ND	8.1	10		µg/L	1	3/4/2016 11:41:37 AM	24000
1-Methylnaphthalene	ND	6.8	10		µg/L	1	3/4/2016 11:41:37 AM	24000
2-Methylnaphthalene	ND	7.0	10		µg/L	1	3/4/2016 11:41:37 AM	24000
2-Methylphenol	ND	8.2	10		µg/L	1	3/4/2016 11:41:37 AM	24000
3+4-Methylphenol	ND	7.1	10		µg/L	1	3/4/2016 11:41:37 AM	24000
N-Nitrosodi-n-propylamine	ND	7.8	10		µg/L	1	3/4/2016 11:41:37 AM	24000
N-Nitrosodimethylamine	ND	9.1	10		µg/L	1	3/4/2016 11:41:37 AM	24000
N-Nitrosodiphenylamine	ND	6.2	10		µg/L	1	3/4/2016 11:41:37 AM	24000
Naphthalene	ND	5.9	10		µg/L	1	3/4/2016 11:41:37 AM	24000
2-Nitroaniline	ND	9.0	10		µg/L	1	3/4/2016 11:41:37 AM	24000
3-Nitroaniline	ND	8.8	10		µg/L	1	3/4/2016 11:41:37 AM	24000
4-Nitroaniline	ND	9.1	10		µg/L	1	3/4/2016 11:41:37 AM	24000
Nitrobenzene	ND	7.8	10		µg/L	1	3/4/2016 11:41:37 AM	24000
2-Nitrophenol	ND	7.6	10		µg/L	1	3/4/2016 11:41:37 AM	24000
4-Nitrophenol	ND	6.7	10		µg/L	1	3/4/2016 11:41:37 AM	24000
Pentachlorophenol	ND	7.6	20		µg/L	1	3/4/2016 11:41:37 AM	24000
Phenanthrene	ND	6.8	10		µg/L	1	3/4/2016 11:41:37 AM	24000
Phenol	ND	5.1	10		µg/L	1	3/4/2016 11:41:37 AM	24000

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1602B49

Date Reported: 4/1/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-33

Project: Quarterly GW Sampling

Collection Date: 2/25/2016 11:55:00 AM

Lab ID: 1602B49-013

Matrix: AQUEOUS

Received Date: 2/26/2016 4:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: DAM	
Pyrene	ND	5.5	10		µg/L	1	3/4/2016 11:41:37 AM	24000
Pyridine	ND	6.7	10		µg/L	1	3/4/2016 11:41:37 AM	24000
1,2,4-Trichlorobenzene	ND	6.2	10		µg/L	1	3/4/2016 11:41:37 AM	24000
2,4,5-Trichlorophenol	ND	8.4	10		µg/L	1	3/4/2016 11:41:37 AM	24000
2,4,6-Trichlorophenol	ND	8.8	10		µg/L	1	3/4/2016 11:41:37 AM	24000
Surr: 2-Fluorophenol	42.2	0	4.63-113		%Rec	1	3/4/2016 11:41:37 AM	24000
Surr: Phenol-d5	34.1	0	4.13-124		%Rec	1	3/4/2016 11:41:37 AM	24000
Surr: 2,4,6-Tribromophenol	72.6	0	5.14-132		%Rec	1	3/4/2016 11:41:37 AM	24000
Surr: Nitrobenzene-d5	79.8	0	9.13-140		%Rec	1	3/4/2016 11:41:37 AM	24000
Surr: 2-Fluorobiphenyl	78.5	0	10.8-132		%Rec	1	3/4/2016 11:41:37 AM	24000
Surr: 4-Terphenyl-d14	65.4	0	12.9-107		%Rec	1	3/4/2016 11:41:37 AM	24000
EPA METHOD 8260B: VOLATILES							Analyst: RAA	
Benzene	0.16	0.096	1.0	J	µg/L	1	3/3/2016 8:06:08 PM	R32574
Toluene	ND	0.089	1.0		µg/L	1	3/3/2016 8:06:08 PM	R32574
Ethylbenzene	ND	0.11	1.0		µg/L	1	3/3/2016 8:06:08 PM	R32574
Methyl tert-butyl ether (MTBE)	310	2.1	10		µg/L	10	3/4/2016 4:36:12 PM	R32609
1,2,4-Trimethylbenzene	ND	0.10	1.0		µg/L	1	3/3/2016 8:06:08 PM	R32574
1,3,5-Trimethylbenzene	ND	0.12	1.0		µg/L	1	3/3/2016 8:06:08 PM	R32574
1,2-Dichloroethane (EDC)	0.20	0.053	1.0	J	µg/L	1	3/3/2016 8:06:08 PM	R32574
1,2-Dibromoethane (EDB)	ND	0.11	1.0		µg/L	1	3/3/2016 8:06:08 PM	R32574
Naphthalene	ND	0.083	2.0		µg/L	1	3/3/2016 8:06:08 PM	R32574
1-Methylnaphthalene	ND	0.20	4.0		µg/L	1	3/3/2016 8:06:08 PM	R32574
2-Methylnaphthalene	ND	0.16	4.0		µg/L	1	3/3/2016 8:06:08 PM	R32574
Acetone	ND	0.88	10		µg/L	1	3/3/2016 8:06:08 PM	R32574
Bromobenzene	ND	0.080	1.0		µg/L	1	3/3/2016 8:06:08 PM	R32574
Bromodichloromethane	ND	0.098	1.0		µg/L	1	3/3/2016 8:06:08 PM	R32574
Bromoform	ND	0.10	1.0		µg/L	1	3/3/2016 8:06:08 PM	R32574
Bromomethane	ND	0.78	3.0		µg/L	1	3/3/2016 8:06:08 PM	R32574
2-Butanone	ND	0.32	10		µg/L	1	3/3/2016 8:06:08 PM	R32574
Carbon disulfide	ND	0.60	10		µg/L	1	3/3/2016 8:06:08 PM	R32574
Carbon Tetrachloride	ND	0.11	1.0		µg/L	1	3/3/2016 8:06:08 PM	R32574
Chlorobenzene	ND	0.10	1.0		µg/L	1	3/3/2016 8:06:08 PM	R32574
Chloroethane	ND	0.15	2.0		µg/L	1	3/3/2016 8:06:08 PM	R32574
Chloroform	ND	0.089	1.0		µg/L	1	3/3/2016 8:06:08 PM	R32574
Chloromethane	ND	0.21	3.0		µg/L	1	3/3/2016 8:06:08 PM	R32574
2-Chlorotoluene	ND	0.40	1.0		µg/L	1	3/3/2016 8:06:08 PM	R32574
4-Chlorotoluene	ND	0.13	1.0		µg/L	1	3/3/2016 8:06:08 PM	R32574
cis-1,2-DCE	ND	0.12	1.0		µg/L	1	3/3/2016 8:06:08 PM	R32574
cis-1,3-Dichloropropene	ND	0.10	1.0		µg/L	1	3/3/2016 8:06:08 PM	R32574

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1602B49

Date Reported: 4/1/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-33

Project: Quarterly GW Sampling

Collection Date: 2/25/2016 11:55:00 AM

Lab ID: 1602B49-013

Matrix: AQUEOUS

Received Date: 2/26/2016 4:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: RAA	
1,2-Dibromo-3-chloropropane	ND	0.15	2.0		µg/L	1	3/3/2016 8:06:08 PM	R32574
Dibromochloromethane	ND	0.087	1.0		µg/L	1	3/3/2016 8:06:08 PM	R32574
Dibromomethane	ND	0.12	1.0		µg/L	1	3/3/2016 8:06:08 PM	R32574
1,2-Dichlorobenzene	ND	0.40	1.0		µg/L	1	3/3/2016 8:06:08 PM	R32574
1,3-Dichlorobenzene	ND	0.14	1.0		µg/L	1	3/3/2016 8:06:08 PM	R32574
1,4-Dichlorobenzene	0.37	0.14	1.0	J	µg/L	1	3/3/2016 8:06:08 PM	R32574
Dichlorodifluoromethane	ND	0.32	1.0		µg/L	1	3/3/2016 8:06:08 PM	R32574
1,1-Dichloroethane	ND	0.11	1.0		µg/L	1	3/3/2016 8:06:08 PM	R32574
1,1-Dichloroethene	ND	0.076	1.0		µg/L	1	3/3/2016 8:06:08 PM	R32574
1,2-Dichloropropane	ND	0.047	1.0		µg/L	1	3/3/2016 8:06:08 PM	R32574
1,3-Dichloropropane	ND	0.16	1.0		µg/L	1	3/3/2016 8:06:08 PM	R32574
2,2-Dichloropropane	ND	0.12	2.0		µg/L	1	3/3/2016 8:06:08 PM	R32574
1,1-Dichloropropene	ND	0.13	1.0		µg/L	1	3/3/2016 8:06:08 PM	R32574
Hexachlorobutadiene	ND	0.20	1.0		µg/L	1	3/3/2016 8:06:08 PM	R32574
2-Hexanone	ND	0.36	10		µg/L	1	3/3/2016 8:06:08 PM	R32574
Isopropylbenzene	ND	0.098	1.0		µg/L	1	3/3/2016 8:06:08 PM	R32574
4-Isopropyltoluene	ND	0.14	1.0		µg/L	1	3/3/2016 8:06:08 PM	R32574
4-Methyl-2-pentanone	ND	0.15	10		µg/L	1	3/3/2016 8:06:08 PM	R32574
Methylene Chloride	ND	0.063	3.0		µg/L	1	3/3/2016 8:06:08 PM	R32574
n-Butylbenzene	ND	0.16	3.0		µg/L	1	3/3/2016 8:06:08 PM	R32574
n-Propylbenzene	ND	0.13	1.0		µg/L	1	3/3/2016 8:06:08 PM	R32574
sec-Butylbenzene	1.6	0.11	1.0		µg/L	1	3/3/2016 8:06:08 PM	R32574
Styrene	ND	0.095	1.0		µg/L	1	3/3/2016 8:06:08 PM	R32574
tert-Butylbenzene	ND	0.096	1.0		µg/L	1	3/3/2016 8:06:08 PM	R32574
1,1,1,2-Tetrachloroethane	ND	0.11	1.0		µg/L	1	3/3/2016 8:06:08 PM	R32574
1,1,2,2-Tetrachloroethane	ND	0.11	2.0		µg/L	1	3/3/2016 8:06:08 PM	R32574
Tetrachloroethene (PCE)	ND	0.15	1.0		µg/L	1	3/3/2016 8:06:08 PM	R32574
trans-1,2-DCE	ND	0.40	1.0		µg/L	1	3/3/2016 8:06:08 PM	R32574
trans-1,3-Dichloropropene	ND	0.085	1.0		µg/L	1	3/3/2016 8:06:08 PM	R32574
1,2,3-Trichlorobenzene	ND	0.11	1.0		µg/L	1	3/3/2016 8:06:08 PM	R32574
1,2,4-Trichlorobenzene	ND	0.13	1.0		µg/L	1	3/3/2016 8:06:08 PM	R32574
1,1,1-Trichloroethane	ND	0.063	1.0		µg/L	1	3/3/2016 8:06:08 PM	R32574
1,1,2-Trichloroethane	ND	0.077	1.0		µg/L	1	3/3/2016 8:06:08 PM	R32574
Trichloroethene (TCE)	ND	0.18	1.0		µg/L	1	3/3/2016 8:06:08 PM	R32574
Trichlorofluoromethane	ND	0.088	1.0		µg/L	1	3/3/2016 8:06:08 PM	R32574
1,2,3-Trichloropropane	ND	0.11	2.0		µg/L	1	3/3/2016 8:06:08 PM	R32574
Vinyl chloride	ND	0.063	1.0		µg/L	1	3/3/2016 8:06:08 PM	R32574
Xylenes, Total	ND	0.32	1.5		µg/L	1	3/3/2016 8:06:08 PM	R32574
Surr: 1,2-Dichloroethane-d4	96.7	0	70-130		%Rec	1	3/3/2016 8:06:08 PM	R32574

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1602B49

Date Reported: 4/1/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-33

Project: Quarterly GW Sampling

Collection Date: 2/25/2016 11:55:00 AM

Lab ID: 1602B49-013

Matrix: AQUEOUS

Received Date: 2/26/2016 4:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: RAA	
Surr: 4-Bromofluorobenzene	101	0	70-130		%Rec	1	3/3/2016 8:06:08 PM	R32574
Surr: Dibromofluoromethane	107	0	70-130		%Rec	1	3/3/2016 8:06:08 PM	R32574
Surr: Toluene-d8	99.7	0	70-130		%Rec	1	3/3/2016 8:06:08 PM	R32574

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1602B49

Date Reported: 4/1/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: TRIP BLANK

Project: Quarterly GW Sampling

Collection Date:

Lab ID: 1602B49-014

Matrix: TRIP BLANK

Received Date: 2/26/2016 4:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB	
Gasoline Range Organics (GRO)	ND	0.025	0.050		mg/L	1	3/1/2016 11:30:45 PM	A32486
Surr: BFB	85.1	0	49.5-130		%Rec	1	3/1/2016 11:30:45 PM	A32486
EPA METHOD 8260B: VOLATILES							Analyst: RAA	
Benzene	ND	0.096	1.0		µg/L	1	3/4/2016 2:48:45 AM	B32574
Toluene	ND	0.089	1.0		µg/L	1	3/4/2016 2:48:45 AM	B32574
Ethylbenzene	ND	0.11	1.0		µg/L	1	3/4/2016 2:48:45 AM	B32574
Methyl tert-butyl ether (MTBE)	ND	0.21	1.0		µg/L	1	3/4/2016 2:48:45 AM	B32574
1,2,4-Trimethylbenzene	ND	0.10	1.0		µg/L	1	3/4/2016 2:48:45 AM	B32574
1,3,5-Trimethylbenzene	ND	0.12	1.0		µg/L	1	3/4/2016 2:48:45 AM	B32574
1,2-Dichloroethane (EDC)	ND	0.053	1.0		µg/L	1	3/4/2016 2:48:45 AM	B32574
1,2-Dibromoethane (EDB)	ND	0.11	1.0		µg/L	1	3/4/2016 2:48:45 AM	B32574
Naphthalene	ND	0.083	2.0		µg/L	1	3/4/2016 2:48:45 AM	B32574
1-Methylnaphthalene	ND	0.20	4.0		µg/L	1	3/4/2016 2:48:45 AM	B32574
2-Methylnaphthalene	ND	0.16	4.0		µg/L	1	3/4/2016 2:48:45 AM	B32574
Acetone	ND	0.88	10		µg/L	1	3/4/2016 2:48:45 AM	B32574
Bromobenzene	ND	0.080	1.0		µg/L	1	3/4/2016 2:48:45 AM	B32574
Bromodichloromethane	ND	0.098	1.0		µg/L	1	3/4/2016 2:48:45 AM	B32574
Bromoform	ND	0.10	1.0		µg/L	1	3/4/2016 2:48:45 AM	B32574
Bromomethane	ND	0.78	3.0		µg/L	1	3/4/2016 2:48:45 AM	B32574
2-Butanone	ND	0.32	10		µg/L	1	3/4/2016 2:48:45 AM	B32574
Carbon disulfide	ND	0.60	10		µg/L	1	3/4/2016 2:48:45 AM	B32574
Carbon Tetrachloride	ND	0.11	1.0		µg/L	1	3/4/2016 2:48:45 AM	B32574
Chlorobenzene	ND	0.10	1.0		µg/L	1	3/4/2016 2:48:45 AM	B32574
Chloroethane	ND	0.15	2.0		µg/L	1	3/4/2016 2:48:45 AM	B32574
Chloroform	ND	0.089	1.0		µg/L	1	3/4/2016 2:48:45 AM	B32574
Chloromethane	ND	0.21	3.0		µg/L	1	3/4/2016 2:48:45 AM	B32574
2-Chlorotoluene	ND	0.40	1.0		µg/L	1	3/4/2016 2:48:45 AM	B32574
4-Chlorotoluene	ND	0.13	1.0		µg/L	1	3/4/2016 2:48:45 AM	B32574
cis-1,2-DCE	ND	0.12	1.0		µg/L	1	3/4/2016 2:48:45 AM	B32574
cis-1,3-Dichloropropene	ND	0.10	1.0		µg/L	1	3/4/2016 2:48:45 AM	B32574
1,2-Dibromo-3-chloropropane	ND	0.15	2.0		µg/L	1	3/4/2016 2:48:45 AM	B32574
Dibromochloromethane	ND	0.087	1.0		µg/L	1	3/4/2016 2:48:45 AM	B32574
Dibromomethane	ND	0.12	1.0		µg/L	1	3/4/2016 2:48:45 AM	B32574
1,2-Dichlorobenzene	ND	0.40	1.0		µg/L	1	3/4/2016 2:48:45 AM	B32574
1,3-Dichlorobenzene	ND	0.14	1.0		µg/L	1	3/4/2016 2:48:45 AM	B32574
1,4-Dichlorobenzene	ND	0.14	1.0		µg/L	1	3/4/2016 2:48:45 AM	B32574
Dichlorodifluoromethane	ND	0.32	1.0		µg/L	1	3/4/2016 2:48:45 AM	B32574
1,1-Dichloroethane	ND	0.11	1.0		µg/L	1	3/4/2016 2:48:45 AM	B32574
1,1-Dichloroethene	ND	0.076	1.0		µg/L	1	3/4/2016 2:48:45 AM	B32574

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1602B49

Date Reported: 4/1/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: TRIP BLANK

Project: Quarterly GW Sampling

Collection Date:

Lab ID: 1602B49-014

Matrix: TRIP BLANK

Received Date: 2/26/2016 4:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: RAA	
1,2-Dichloropropane	ND	0.047	1.0		µg/L	1	3/4/2016 2:48:45 AM	B32574
1,3-Dichloropropane	ND	0.16	1.0		µg/L	1	3/4/2016 2:48:45 AM	B32574
2,2-Dichloropropane	ND	0.12	2.0		µg/L	1	3/4/2016 2:48:45 AM	B32574
1,1-Dichloropropene	ND	0.13	1.0		µg/L	1	3/4/2016 2:48:45 AM	B32574
Hexachlorobutadiene	ND	0.20	1.0		µg/L	1	3/4/2016 2:48:45 AM	B32574
2-Hexanone	ND	0.36	10		µg/L	1	3/4/2016 2:48:45 AM	B32574
Isopropylbenzene	ND	0.098	1.0		µg/L	1	3/4/2016 2:48:45 AM	B32574
4-Isopropyltoluene	ND	0.14	1.0		µg/L	1	3/4/2016 2:48:45 AM	B32574
4-Methyl-2-pentanone	ND	0.15	10		µg/L	1	3/4/2016 2:48:45 AM	B32574
Methylene Chloride	ND	0.063	3.0		µg/L	1	3/4/2016 2:48:45 AM	B32574
n-Butylbenzene	ND	0.16	3.0		µg/L	1	3/4/2016 2:48:45 AM	B32574
n-Propylbenzene	ND	0.13	1.0		µg/L	1	3/4/2016 2:48:45 AM	B32574
sec-Butylbenzene	ND	0.11	1.0		µg/L	1	3/4/2016 2:48:45 AM	B32574
Styrene	ND	0.095	1.0		µg/L	1	3/4/2016 2:48:45 AM	B32574
tert-Butylbenzene	ND	0.096	1.0		µg/L	1	3/4/2016 2:48:45 AM	B32574
1,1,1,2-Tetrachloroethane	ND	0.11	1.0		µg/L	1	3/4/2016 2:48:45 AM	B32574
1,1,2,2-Tetrachloroethane	ND	0.11	2.0		µg/L	1	3/4/2016 2:48:45 AM	B32574
Tetrachloroethene (PCE)	ND	0.15	1.0		µg/L	1	3/4/2016 2:48:45 AM	B32574
trans-1,2-DCE	ND	0.40	1.0		µg/L	1	3/4/2016 2:48:45 AM	B32574
trans-1,3-Dichloropropene	ND	0.085	1.0		µg/L	1	3/4/2016 2:48:45 AM	B32574
1,2,3-Trichlorobenzene	ND	0.11	1.0		µg/L	1	3/4/2016 2:48:45 AM	B32574
1,2,4-Trichlorobenzene	ND	0.13	1.0		µg/L	1	3/4/2016 2:48:45 AM	B32574
1,1,1-Trichloroethane	ND	0.063	1.0		µg/L	1	3/4/2016 2:48:45 AM	B32574
1,1,2-Trichloroethane	ND	0.077	1.0		µg/L	1	3/4/2016 2:48:45 AM	B32574
Trichloroethene (TCE)	ND	0.18	1.0		µg/L	1	3/4/2016 2:48:45 AM	B32574
Trichlorofluoromethane	ND	0.088	1.0		µg/L	1	3/4/2016 2:48:45 AM	B32574
1,2,3-Trichloropropane	ND	0.11	2.0		µg/L	1	3/4/2016 2:48:45 AM	B32574
Vinyl chloride	ND	0.063	1.0		µg/L	1	3/4/2016 2:48:45 AM	B32574
Xylenes, Total	ND	0.32	1.5		µg/L	1	3/4/2016 2:48:45 AM	B32574
Surr: 1,2-Dichloroethane-d4	87.7	0	70-130		%Rec	1	3/4/2016 2:48:45 AM	B32574
Surr: 4-Bromofluorobenzene	102	0	70-130		%Rec	1	3/4/2016 2:48:45 AM	B32574
Surr: Dibromofluoromethane	97.9	0	70-130		%Rec	1	3/4/2016 2:48:45 AM	B32574
Surr: Toluene-d8	96.9	0	70-130		%Rec	1	3/4/2016 2:48:45 AM	B32574

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1602B49

Date Reported: 4/1/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-17

Project: Quarterly GW Sampling

Collection Date: 2/26/2016 9:30:00 AM

Lab ID: 1602B49-015

Matrix: AQUEOUS

Received Date: 2/26/2016 4:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015M/D: DIESEL RANGE							Analyst: KJH	
Diesel Range Organics (DRO)	ND	0.69	1.0		mg/L	1	3/1/2016 5:51:23 PM	24002
Motor Oil Range Organics (MRO)	ND	5.0	5.0		mg/L	1	3/1/2016 5:51:23 PM	24002
Surr: DNOP	92.7	0	70-141		%Rec	1	3/1/2016 5:51:23 PM	24002
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB	
Gasoline Range Organics (GRO)	1.6	0.13	0.25		mg/L	5	3/1/2016 11:55:19 PM	A32486
Surr: BFB	85.8	0	49.5-130		%Rec	5	3/1/2016 11:55:19 PM	A32486
EPA METHOD 300.0: ANIONS							Analyst: LGT	
Fluoride	0.54	0.023	0.10		mg/L	1	3/3/2016 5:14:30 AM	A32541
Chloride	76	0.55	10		mg/L	20	3/3/2016 5:26:55 AM	A32541
Bromide	0.66	0.032	0.10		mg/L	1	3/3/2016 5:14:30 AM	A32541
Phosphorus, Orthophosphate (As P)	ND	0.22	0.50	H	mg/L	1	3/3/2016 5:14:30 AM	A32541
Sulfate	180	1.3	10		mg/L	20	3/3/2016 5:26:55 AM	A32541
Nitrate+Nitrite as N	ND	0.42	1.0		mg/L	5	3/1/2016 2:23:44 PM	R32498
EPA METHOD 200.7: DISSOLVED METALS							Analyst: ELS	
Barium	0.095	0.0013	0.0020		mg/L	1	3/11/2016 4:59:35 PM	C32754
Cadmium	ND	0.00075	0.0020		mg/L	1	3/11/2016 4:59:35 PM	C32754
Calcium	96	0.26	1.0		mg/L	1	3/16/2016 1:52:53 PM	D32831
Chromium	ND	0.0018	0.0060		mg/L	1	3/11/2016 4:59:35 PM	C32754
Copper	ND	0.0040	0.0060		mg/L	1	3/15/2016 1:17:07 PM	A32792
Iron	0.093	0.0091	0.020		mg/L	1	3/16/2016 1:52:53 PM	D32831
Magnesium	18	0.013	1.0		mg/L	1	3/11/2016 4:59:35 PM	C32754
Manganese	2.8	0.0016	0.010	*	mg/L	5	3/15/2016 1:27:36 PM	A32792
Potassium	1.5	0.18	1.0		mg/L	1	3/11/2016 4:59:35 PM	C32754
Silver	ND	0.0028	0.0050		mg/L	1	3/11/2016 4:59:35 PM	C32754
Sodium	270	0.48	5.0		mg/L	5	3/16/2016 1:54:48 PM	D32831
Zinc	0.020	0.0028	0.010		mg/L	1	3/16/2016 1:52:53 PM	D32831
EPA METHOD 200.7: TOTAL METALS							Analyst: ELS	
Barium	0.12	0.0011	0.0020		mg/L	1	3/11/2016 3:40:47 PM	24015
Cadmium	ND	0.00062	0.0020		mg/L	1	3/11/2016 3:40:47 PM	24015
Chromium	ND	0.0022	0.0060		mg/L	1	3/11/2016 3:40:47 PM	24015
Copper	ND	0.0051	0.0060		mg/L	1	3/11/2016 3:40:47 PM	24015
Iron	0.98	0.0072	0.020	*	mg/L	1	3/11/2016 3:40:47 PM	24015
Manganese	2.6	0.0076	0.010	*	mg/L	5	3/11/2016 3:42:38 PM	24015
Silver	ND	0.0021	0.0050		mg/L	1	3/23/2016 11:46:03 AM	24381
Zinc	0.0056	0.0039	0.010	J	mg/L	1	3/11/2016 3:40:47 PM	24015
EPA 200.8: DISSOLVED METALS							Analyst: JLF	
Arsenic	0.0030	0.000065	0.0010		mg/L	1	3/15/2016 5:55:08 PM	C32805

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1602B49

Date Reported: 4/1/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-17

Project: Quarterly GW Sampling

Collection Date: 2/26/2016 9:30:00 AM

Lab ID: 1602B49-015

Matrix: AQUEOUS

Received Date: 2/26/2016 4:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA 200.8: DISSOLVED METALS							Analyst: JLF	
Lead	0.00012	0.000026	0.00050	J	mg/L	1	3/15/2016 5:55:08 PM	C32805
Selenium	0.0015	0.00019	0.0010		mg/L	1	3/15/2016 5:55:08 PM	C32805
Uranium	0.018	0.0000048	0.00050		mg/L	1	3/15/2016 5:55:08 PM	C32805
200.8 ICPMS METALS:TOTAL							Analyst: JLF	
Arsenic	0.0046	0.00029	0.0010		mg/L	1	3/11/2016 1:51:38 PM	24015
Lead	0.00095	0.000047	0.00050		mg/L	1	3/11/2016 1:51:38 PM	24015
Selenium	0.0012	0.00062	0.0050	J	mg/L	5	3/11/2016 3:53:10 PM	24015
Uranium	0.018	0.0000049	0.00050		mg/L	1	3/11/2016 1:51:38 PM	24015
EPA METHOD 245.1: MERCURY							Analyst: DBD	
Mercury	ND	0.000053	0.00020		mg/L	1	3/2/2016 1:30:47 PM	24021
EPA METHOD 8270C: SEMIVOLATILES							Analyst: DAM	
Acenaphthene	ND	8.0	10		µg/L	1	3/4/2016 12:11:34 PM	24000
Acenaphthylene	ND	7.2	10		µg/L	1	3/4/2016 12:11:34 PM	24000
Aniline	ND	9.8	10		µg/L	1	3/4/2016 12:11:34 PM	24000
Anthracene	ND	6.6	10		µg/L	1	3/4/2016 12:11:34 PM	24000
Azobenzene	ND	9.3	10		µg/L	1	3/4/2016 12:11:34 PM	24000
Benz(a)anthracene	ND	6.1	10		µg/L	1	3/4/2016 12:11:34 PM	24000
Benzo(a)pyrene	ND	6.3	10		µg/L	1	3/4/2016 12:11:34 PM	24000
Benzo(b)fluoranthene	ND	6.6	10		µg/L	1	3/4/2016 12:11:34 PM	24000
Benzo(g,h,i)perylene	ND	6.8	10		µg/L	1	3/4/2016 12:11:34 PM	24000
Benzo(k)fluoranthene	ND	7.2	10		µg/L	1	3/4/2016 12:11:34 PM	24000
Benzoic acid	ND	9.8	20		µg/L	1	3/4/2016 12:11:34 PM	24000
Benzyl alcohol	ND	8.0	10		µg/L	1	3/4/2016 12:11:34 PM	24000
Bis(2-chloroethoxy)methane	ND	7.3	10		µg/L	1	3/4/2016 12:11:34 PM	24000
Bis(2-chloroethyl)ether	ND	8.3	10		µg/L	1	3/4/2016 12:11:34 PM	24000
Bis(2-chloroisopropyl)ether	ND	9.1	10		µg/L	1	3/4/2016 12:11:34 PM	24000
Bis(2-ethylhexyl)phthalate	ND	7.5	10		µg/L	1	3/4/2016 12:11:34 PM	24000
4-Bromophenyl phenyl ether	ND	8.6	10		µg/L	1	3/4/2016 12:11:34 PM	24000
Butyl benzyl phthalate	ND	7.8	10		µg/L	1	3/4/2016 12:11:34 PM	24000
Carbazole	ND	7.2	10		µg/L	1	3/4/2016 12:11:34 PM	24000
4-Chloro-3-methylphenol	ND	8.0	10		µg/L	1	3/4/2016 12:11:34 PM	24000
4-Chloroaniline	ND	7.1	10		µg/L	1	3/4/2016 12:11:34 PM	24000
2-Chloronaphthalene	ND	7.2	10		µg/L	1	3/4/2016 12:11:34 PM	24000
2-Chlorophenol	ND	8.7	10		µg/L	1	3/4/2016 12:11:34 PM	24000
4-Chlorophenyl phenyl ether	ND	8.2	10		µg/L	1	3/4/2016 12:11:34 PM	24000
Chrysene	ND	6.6	10		µg/L	1	3/4/2016 12:11:34 PM	24000
Di-n-butyl phthalate	ND	8.1	10		µg/L	1	3/4/2016 12:11:34 PM	24000
Di-n-octyl phthalate	ND	6.3	10		µg/L	1	3/4/2016 12:11:34 PM	24000

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Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1602B49

Date Reported: 4/1/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-17

Project: Quarterly GW Sampling

Collection Date: 2/26/2016 9:30:00 AM

Lab ID: 1602B49-015

Matrix: AQUEOUS

Received Date: 2/26/2016 4:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: DAM	
Dibenz(a,h)anthracene	ND	6.8	10		µg/L	1	3/4/2016 12:11:34 PM	24000
Dibenzofuran	ND	8.6	10		µg/L	1	3/4/2016 12:11:34 PM	24000
1,2-Dichlorobenzene	ND	6.4	10		µg/L	1	3/4/2016 12:11:34 PM	24000
1,3-Dichlorobenzene	ND	6.1	10		µg/L	1	3/4/2016 12:11:34 PM	24000
1,4-Dichlorobenzene	ND	6.3	10		µg/L	1	3/4/2016 12:11:34 PM	24000
3,3'-Dichlorobenzidine	ND	4.7	10		µg/L	1	3/4/2016 12:11:34 PM	24000
Diethyl phthalate	ND	8.2	10		µg/L	1	3/4/2016 12:11:34 PM	24000
Dimethyl phthalate	ND	7.5	10		µg/L	1	3/4/2016 12:11:34 PM	24000
2,4-Dichlorophenol	ND	7.6	20		µg/L	1	3/4/2016 12:11:34 PM	24000
2,4-Dimethylphenol	ND	4.7	10		µg/L	1	3/4/2016 12:11:34 PM	24000
4,6-Dinitro-2-methylphenol	ND	7.3	20		µg/L	1	3/4/2016 12:11:34 PM	24000
2,4-Dinitrophenol	ND	9.9	20		µg/L	1	3/4/2016 12:11:34 PM	24000
2,4-Dinitrotoluene	ND	8.5	10		µg/L	1	3/4/2016 12:11:34 PM	24000
2,6-Dinitrotoluene	ND	7.5	10		µg/L	1	3/4/2016 12:11:34 PM	24000
Fluoranthene	ND	6.1	10		µg/L	1	3/4/2016 12:11:34 PM	24000
Fluorene	ND	7.2	10		µg/L	1	3/4/2016 12:11:34 PM	24000
Hexachlorobenzene	ND	7.1	10		µg/L	1	3/4/2016 12:11:34 PM	24000
Hexachlorobutadiene	ND	5.2	10		µg/L	1	3/4/2016 12:11:34 PM	24000
Hexachlorocyclopentadiene	ND	5.2	10		µg/L	1	3/4/2016 12:11:34 PM	24000
Hexachloroethane	ND	5.8	10		µg/L	1	3/4/2016 12:11:34 PM	24000
Indeno(1,2,3-cd)pyrene	ND	5.6	10		µg/L	1	3/4/2016 12:11:34 PM	24000
Isophorone	ND	8.1	10		µg/L	1	3/4/2016 12:11:34 PM	24000
1-Methylnaphthalene	ND	6.8	10		µg/L	1	3/4/2016 12:11:34 PM	24000
2-Methylnaphthalene	ND	7.0	10		µg/L	1	3/4/2016 12:11:34 PM	24000
2-Methylphenol	ND	8.2	10		µg/L	1	3/4/2016 12:11:34 PM	24000
3+4-Methylphenol	ND	7.1	10		µg/L	1	3/4/2016 12:11:34 PM	24000
N-Nitrosodi-n-propylamine	ND	7.8	10		µg/L	1	3/4/2016 12:11:34 PM	24000
N-Nitrosodimethylamine	ND	9.1	10		µg/L	1	3/4/2016 12:11:34 PM	24000
N-Nitrosodiphenylamine	ND	6.2	10		µg/L	1	3/4/2016 12:11:34 PM	24000
Naphthalene	ND	5.9	10		µg/L	1	3/4/2016 12:11:34 PM	24000
2-Nitroaniline	ND	9.0	10		µg/L	1	3/4/2016 12:11:34 PM	24000
3-Nitroaniline	ND	8.8	10		µg/L	1	3/4/2016 12:11:34 PM	24000
4-Nitroaniline	ND	9.1	10		µg/L	1	3/4/2016 12:11:34 PM	24000
Nitrobenzene	ND	7.8	10		µg/L	1	3/4/2016 12:11:34 PM	24000
2-Nitrophenol	ND	7.6	10		µg/L	1	3/4/2016 12:11:34 PM	24000
4-Nitrophenol	ND	6.7	10		µg/L	1	3/4/2016 12:11:34 PM	24000
Pentachlorophenol	ND	7.6	20		µg/L	1	3/4/2016 12:11:34 PM	24000
Phenanthrene	ND	6.8	10		µg/L	1	3/4/2016 12:11:34 PM	24000
Phenol	ND	5.1	10		µg/L	1	3/4/2016 12:11:34 PM	24000

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
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	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
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Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1602B49

Date Reported: 4/1/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-17

Project: Quarterly GW Sampling

Collection Date: 2/26/2016 9:30:00 AM

Lab ID: 1602B49-015

Matrix: AQUEOUS

Received Date: 2/26/2016 4:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: DAM	
Pyrene	ND	5.5	10		µg/L	1	3/4/2016 12:11:34 PM	24000
Pyridine	ND	6.7	10		µg/L	1	3/4/2016 12:11:34 PM	24000
1,2,4-Trichlorobenzene	ND	6.2	10		µg/L	1	3/4/2016 12:11:34 PM	24000
2,4,5-Trichlorophenol	ND	8.4	10		µg/L	1	3/4/2016 12:11:34 PM	24000
2,4,6-Trichlorophenol	ND	8.8	10		µg/L	1	3/4/2016 12:11:34 PM	24000
Surr: 2-Fluorophenol	41.5	0	4.63-113		%Rec	1	3/4/2016 12:11:34 PM	24000
Surr: Phenol-d5	32.0	0	4.13-124		%Rec	1	3/4/2016 12:11:34 PM	24000
Surr: 2,4,6-Tribromophenol	85.9	0	5.14-132		%Rec	1	3/4/2016 12:11:34 PM	24000
Surr: Nitrobenzene-d5	66.6	0	9.13-140		%Rec	1	3/4/2016 12:11:34 PM	24000
Surr: 2-Fluorobiphenyl	73.9	0	10.8-132		%Rec	1	3/4/2016 12:11:34 PM	24000
Surr: 4-Terphenyl-d14	75.2	0	12.9-107		%Rec	1	3/4/2016 12:11:34 PM	24000
EPA METHOD 8260B: VOLATILES							Analyst: RAA	
Benzene	260	0.48	5.0		µg/L	5	3/3/2016 8:34:50 PM	R32574
Toluene	ND	0.45	5.0		µg/L	5	3/3/2016 8:34:50 PM	R32574
Ethylbenzene	18	0.56	5.0		µg/L	5	3/3/2016 8:34:50 PM	R32574
Methyl tert-butyl ether (MTBE)	640	1.1	5.0		µg/L	5	3/3/2016 8:34:50 PM	R32574
1,2,4-Trimethylbenzene	2.4	0.52	5.0	J	µg/L	5	3/3/2016 8:34:50 PM	R32574
1,3,5-Trimethylbenzene	ND	0.58	5.0		µg/L	5	3/3/2016 8:34:50 PM	R32574
1,2-Dichloroethane (EDC)	ND	0.26	5.0		µg/L	5	3/3/2016 8:34:50 PM	R32574
1,2-Dibromoethane (EDB)	ND	0.56	5.0		µg/L	5	3/3/2016 8:34:50 PM	R32574
Naphthalene	2.5	0.42	10	J	µg/L	5	3/3/2016 8:34:50 PM	R32574
1-Methylnaphthalene	ND	1.0	20		µg/L	5	3/3/2016 8:34:50 PM	R32574
2-Methylnaphthalene	ND	0.79	20		µg/L	5	3/3/2016 8:34:50 PM	R32574
Acetone	ND	4.4	50		µg/L	5	3/3/2016 8:34:50 PM	R32574
Bromobenzene	ND	0.40	5.0		µg/L	5	3/3/2016 8:34:50 PM	R32574
Bromodichloromethane	ND	0.49	5.0		µg/L	5	3/3/2016 8:34:50 PM	R32574
Bromoform	ND	0.51	5.0		µg/L	5	3/3/2016 8:34:50 PM	R32574
Bromomethane	ND	3.9	15		µg/L	5	3/3/2016 8:34:50 PM	R32574
2-Butanone	ND	1.6	50		µg/L	5	3/3/2016 8:34:50 PM	R32574
Carbon disulfide	ND	3.0	50		µg/L	5	3/3/2016 8:34:50 PM	R32574
Carbon Tetrachloride	ND	0.54	5.0		µg/L	5	3/3/2016 8:34:50 PM	R32574
Chlorobenzene	ND	0.52	5.0		µg/L	5	3/3/2016 8:34:50 PM	R32574
Chloroethane	ND	0.73	10		µg/L	5	3/3/2016 8:34:50 PM	R32574
Chloroform	ND	0.44	5.0		µg/L	5	3/3/2016 8:34:50 PM	R32574
Chloromethane	ND	1.1	15		µg/L	5	3/3/2016 8:34:50 PM	R32574
2-Chlorotoluene	ND	2.0	5.0		µg/L	5	3/3/2016 8:34:50 PM	R32574
4-Chlorotoluene	ND	0.64	5.0		µg/L	5	3/3/2016 8:34:50 PM	R32574
cis-1,2-DCE	ND	0.62	5.0		µg/L	5	3/3/2016 8:34:50 PM	R32574
cis-1,3-Dichloropropene	ND	0.50	5.0		µg/L	5	3/3/2016 8:34:50 PM	R32574

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

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Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1602B49

Date Reported: 4/1/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-17

Project: Quarterly GW Sampling

Collection Date: 2/26/2016 9:30:00 AM

Lab ID: 1602B49-015

Matrix: AQUEOUS

Received Date: 2/26/2016 4:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: RAA	
1,2-Dibromo-3-chloropropane	ND	0.77	10		µg/L	5	3/3/2016 8:34:50 PM	R32574
Dibromochloromethane	ND	0.43	5.0		µg/L	5	3/3/2016 8:34:50 PM	R32574
Dibromomethane	ND	0.60	5.0		µg/L	5	3/3/2016 8:34:50 PM	R32574
1,2-Dichlorobenzene	ND	2.0	5.0		µg/L	5	3/3/2016 8:34:50 PM	R32574
1,3-Dichlorobenzene	ND	0.72	5.0		µg/L	5	3/3/2016 8:34:50 PM	R32574
1,4-Dichlorobenzene	ND	0.71	5.0		µg/L	5	3/3/2016 8:34:50 PM	R32574
Dichlorodifluoromethane	ND	1.6	5.0		µg/L	5	3/3/2016 8:34:50 PM	R32574
1,1-Dichloroethane	ND	0.54	5.0		µg/L	5	3/3/2016 8:34:50 PM	R32574
1,1-Dichloroethene	ND	0.38	5.0		µg/L	5	3/3/2016 8:34:50 PM	R32574
1,2-Dichloropropane	ND	0.24	5.0		µg/L	5	3/3/2016 8:34:50 PM	R32574
1,3-Dichloropropane	ND	0.78	5.0		µg/L	5	3/3/2016 8:34:50 PM	R32574
2,2-Dichloropropane	ND	0.60	10		µg/L	5	3/3/2016 8:34:50 PM	R32574
1,1-Dichloropropene	ND	0.67	5.0		µg/L	5	3/3/2016 8:34:50 PM	R32574
Hexachlorobutadiene	ND	0.99	5.0		µg/L	5	3/3/2016 8:34:50 PM	R32574
2-Hexanone	ND	1.8	50		µg/L	5	3/3/2016 8:34:50 PM	R32574
Isopropylbenzene	ND	0.49	5.0		µg/L	5	3/3/2016 8:34:50 PM	R32574
4-Isopropyltoluene	1.0	0.70	5.0	J	µg/L	5	3/3/2016 8:34:50 PM	R32574
4-Methyl-2-pentanone	ND	0.75	50		µg/L	5	3/3/2016 8:34:50 PM	R32574
Methylene Chloride	ND	0.31	15		µg/L	5	3/3/2016 8:34:50 PM	R32574
n-Butylbenzene	ND	0.80	15		µg/L	5	3/3/2016 8:34:50 PM	R32574
n-Propylbenzene	ND	0.66	5.0		µg/L	5	3/3/2016 8:34:50 PM	R32574
sec-Butylbenzene	ND	0.54	5.0		µg/L	5	3/3/2016 8:34:50 PM	R32574
Styrene	ND	0.48	5.0		µg/L	5	3/3/2016 8:34:50 PM	R32574
tert-Butylbenzene	ND	0.48	5.0		µg/L	5	3/3/2016 8:34:50 PM	R32574
1,1,1,2-Tetrachloroethane	ND	0.56	5.0		µg/L	5	3/3/2016 8:34:50 PM	R32574
1,1,2,2-Tetrachloroethane	ND	0.53	10		µg/L	5	3/3/2016 8:34:50 PM	R32574
Tetrachloroethene (PCE)	ND	0.76	5.0		µg/L	5	3/3/2016 8:34:50 PM	R32574
trans-1,2-DCE	ND	2.0	5.0		µg/L	5	3/3/2016 8:34:50 PM	R32574
trans-1,3-Dichloropropene	ND	0.42	5.0		µg/L	5	3/3/2016 8:34:50 PM	R32574
1,2,3-Trichlorobenzene	ND	0.56	5.0		µg/L	5	3/3/2016 8:34:50 PM	R32574
1,2,4-Trichlorobenzene	ND	0.66	5.0		µg/L	5	3/3/2016 8:34:50 PM	R32574
1,1,1-Trichloroethane	ND	0.32	5.0		µg/L	5	3/3/2016 8:34:50 PM	R32574
1,1,2-Trichloroethane	ND	0.38	5.0		µg/L	5	3/3/2016 8:34:50 PM	R32574
Trichloroethene (TCE)	ND	0.88	5.0		µg/L	5	3/3/2016 8:34:50 PM	R32574
Trichlorofluoromethane	ND	0.44	5.0		µg/L	5	3/3/2016 8:34:50 PM	R32574
1,2,3-Trichloropropane	ND	0.56	10		µg/L	5	3/3/2016 8:34:50 PM	R32574
Vinyl chloride	ND	0.32	5.0		µg/L	5	3/3/2016 8:34:50 PM	R32574
Xylenes, Total	23	1.6	7.5		µg/L	5	3/3/2016 8:34:50 PM	R32574
Surr: 1,2-Dichloroethane-d4	104	0	70-130		%Rec	5	3/3/2016 8:34:50 PM	R32574

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Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
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Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1602B49

Date Reported: 4/1/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-17

Project: Quarterly GW Sampling

Collection Date: 2/26/2016 9:30:00 AM

Lab ID: 1602B49-015

Matrix: AQUEOUS

Received Date: 2/26/2016 4:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: RAA	
Surr: 4-Bromofluorobenzene	98.2	0	70-130		%Rec	5	3/3/2016 8:34:50 PM	R32574
Surr: Dibromofluoromethane	111	0	70-130		%Rec	5	3/3/2016 8:34:50 PM	R32574
Surr: Toluene-d8	108	0	70-130		%Rec	5	3/3/2016 8:34:50 PM	R32574

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
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Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1602B49

Date Reported: 4/1/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-35

Project: Quarterly GW Sampling

Collection Date: 2/26/2016 12:00:00 PM

Lab ID: 1602B49-016

Matrix: AQUEOUS

Received Date: 2/26/2016 4:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015M/D: DIESEL RANGE							Analyst: KJH	
Diesel Range Organics (DRO)	0.94	0.69	1.0	J	mg/L	1	3/1/2016 6:12:45 PM	24002
Motor Oil Range Organics (MRO)	ND	5.0	5.0		mg/L	1	3/1/2016 6:12:45 PM	24002
Surr: DNOP	92.2	0	70-141		%Rec	1	3/1/2016 6:12:45 PM	24002
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB	
Gasoline Range Organics (GRO)	0.87	0.13	0.25		mg/L	5	3/2/2016 12:19:45 AM	A32486
Surr: BFB	94.8	0	49.5-130		%Rec	5	3/2/2016 12:19:45 AM	A32486
EPA METHOD 300.0: ANIONS							Analyst: LGT	
Fluoride	0.45	0.023	0.10		mg/L	1	3/3/2016 5:39:20 AM	A32541
Chloride	65	0.55	10		mg/L	20	3/3/2016 5:51:44 AM	A32541
Bromide	0.38	0.032	0.10		mg/L	1	3/3/2016 5:39:20 AM	A32541
Phosphorus, Orthophosphate (As P)	ND	0.22	0.50	H	mg/L	1	3/3/2016 5:39:20 AM	A32541
Sulfate	99	1.3	10		mg/L	20	3/3/2016 5:51:44 AM	A32541
Nitrate+Nitrite as N	ND	0.42	1.0		mg/L	5	3/1/2016 2:36:08 PM	R32498
EPA METHOD 200.7: DISSOLVED METALS							Analyst: ELS	
Barium	0.43	0.0013	0.0020		mg/L	1	3/11/2016 5:01:31 PM	C32754
Cadmium	ND	0.00075	0.0020		mg/L	1	3/11/2016 5:01:31 PM	C32754
Calcium	130	1.3	5.0		mg/L	5	3/16/2016 1:58:23 PM	D32831
Chromium	ND	0.0018	0.0060		mg/L	1	3/11/2016 5:01:31 PM	C32754
Copper	ND	0.0040	0.0060		mg/L	1	3/15/2016 1:29:34 PM	A32792
Iron	2.8	0.045	0.10	*	mg/L	5	3/15/2016 1:31:14 PM	A32792
Magnesium	34	0.013	1.0		mg/L	1	3/11/2016 5:01:31 PM	C32754
Manganese	3.0	0.0016	0.010	*	mg/L	5	3/15/2016 1:31:14 PM	A32792
Potassium	0.63	0.18	1.0	J	mg/L	1	3/11/2016 5:01:31 PM	C32754
Silver	ND	0.0028	0.0050		mg/L	1	3/11/2016 5:01:31 PM	C32754
Sodium	150	0.48	5.0		mg/L	5	3/16/2016 1:58:23 PM	D32831
Zinc	0.0099	0.0028	0.010	J	mg/L	1	3/16/2016 1:56:42 PM	D32831
EPA METHOD 200.7: TOTAL METALS							Analyst: ELS	
Barium	3.3	0.011	0.020	*	mg/L	10	3/11/2016 3:52:01 PM	24015
Cadmium	ND	0.00062	0.0020		mg/L	1	3/11/2016 3:44:35 PM	24015
Chromium	0.0087	0.0022	0.0060		mg/L	1	3/11/2016 3:44:35 PM	24015
Copper	ND	0.0051	0.0060		mg/L	1	3/11/2016 3:44:35 PM	24015
Iron	9.1	0.14	0.40	*	mg/L	20	3/14/2016 2:03:08 PM	24015
Manganese	4.1	0.015	0.020	*	mg/L	10	3/11/2016 3:52:01 PM	24015
Silver	ND	0.0021	0.0050		mg/L	1	3/23/2016 11:56:17 AM	24381
Zinc	0.026	0.0039	0.010		mg/L	1	3/11/2016 3:44:35 PM	24015
EPA 200.8: DISSOLVED METALS							Analyst: JLF	
Arsenic	0.00046	0.000065	0.0010	J	mg/L	1	3/15/2016 5:58:11 PM	C32805

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	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
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Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1602B49

Date Reported: 4/1/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-35

Project: Quarterly GW Sampling

Collection Date: 2/26/2016 12:00:00 PM

Lab ID: 1602B49-016

Matrix: AQUEOUS

Received Date: 2/26/2016 4:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA 200.8: DISSOLVED METALS							Analyst: JLF	
Lead	0.00037	0.000026	0.00050	J	mg/L	1	3/15/2016 5:58:11 PM	C32805
Selenium	0.00089	0.00019	0.0010	J	mg/L	1	3/15/2016 5:58:11 PM	C32805
Uranium	0.0016	0.0000048	0.00050		mg/L	1	3/15/2016 5:58:11 PM	C32805
200.8 ICPMS METALS:TOTAL							Analyst: JLF	
Arsenic	0.0018	0.00029	0.0010		mg/L	1	3/11/2016 1:54:39 PM	24015
Lead	0.013	0.000047	0.00050		mg/L	1	3/11/2016 1:54:39 PM	24015
Selenium	0.00075	0.00012	0.0010	J	mg/L	1	3/11/2016 1:54:39 PM	24015
Uranium	0.0029	0.0000049	0.00050		mg/L	1	3/11/2016 1:54:39 PM	24015
EPA METHOD 245.1: MERCURY							Analyst: DBD	
Mercury	ND	0.000053	0.00020		mg/L	1	3/2/2016 1:32:47 PM	24021
EPA METHOD 8270C: SEMIVOLATILES							Analyst: DAM	
Acenaphthene	ND	8.0	10		µg/L	1	3/4/2016 12:41:35 PM	24000
Acenaphthylene	ND	7.2	10		µg/L	1	3/4/2016 12:41:35 PM	24000
Aniline	ND	9.8	10		µg/L	1	3/4/2016 12:41:35 PM	24000
Anthracene	ND	6.6	10		µg/L	1	3/4/2016 12:41:35 PM	24000
Azobenzene	ND	9.3	10		µg/L	1	3/4/2016 12:41:35 PM	24000
Benz(a)anthracene	ND	6.1	10		µg/L	1	3/4/2016 12:41:35 PM	24000
Benzo(a)pyrene	ND	6.3	10		µg/L	1	3/4/2016 12:41:35 PM	24000
Benzo(b)fluoranthene	ND	6.6	10		µg/L	1	3/4/2016 12:41:35 PM	24000
Benzo(g,h,i)perylene	ND	6.8	10		µg/L	1	3/4/2016 12:41:35 PM	24000
Benzo(k)fluoranthene	ND	7.2	10		µg/L	1	3/4/2016 12:41:35 PM	24000
Benzoic acid	ND	9.8	20		µg/L	1	3/4/2016 12:41:35 PM	24000
Benzyl alcohol	ND	8.0	10		µg/L	1	3/4/2016 12:41:35 PM	24000
Bis(2-chloroethoxy)methane	ND	7.3	10		µg/L	1	3/4/2016 12:41:35 PM	24000
Bis(2-chloroethyl)ether	ND	8.3	10		µg/L	1	3/4/2016 12:41:35 PM	24000
Bis(2-chloroisopropyl)ether	ND	9.1	10		µg/L	1	3/4/2016 12:41:35 PM	24000
Bis(2-ethylhexyl)phthalate	ND	7.5	10		µg/L	1	3/4/2016 12:41:35 PM	24000
4-Bromophenyl phenyl ether	ND	8.6	10		µg/L	1	3/4/2016 12:41:35 PM	24000
Butyl benzyl phthalate	ND	7.8	10		µg/L	1	3/4/2016 12:41:35 PM	24000
Carbazole	ND	7.2	10		µg/L	1	3/4/2016 12:41:35 PM	24000
4-Chloro-3-methylphenol	ND	8.0	10		µg/L	1	3/4/2016 12:41:35 PM	24000
4-Chloroaniline	ND	7.1	10		µg/L	1	3/4/2016 12:41:35 PM	24000
2-Chloronaphthalene	ND	7.2	10		µg/L	1	3/4/2016 12:41:35 PM	24000
2-Chlorophenol	ND	8.7	10		µg/L	1	3/4/2016 12:41:35 PM	24000
4-Chlorophenyl phenyl ether	ND	8.2	10		µg/L	1	3/4/2016 12:41:35 PM	24000
Chrysene	ND	6.6	10		µg/L	1	3/4/2016 12:41:35 PM	24000
Di-n-butyl phthalate	ND	8.1	10		µg/L	1	3/4/2016 12:41:35 PM	24000
Di-n-octyl phthalate	ND	6.3	10		µg/L	1	3/4/2016 12:41:35 PM	24000

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Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1602B49

Date Reported: 4/1/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-35

Project: Quarterly GW Sampling

Collection Date: 2/26/2016 12:00:00 PM

Lab ID: 1602B49-016

Matrix: AQUEOUS

Received Date: 2/26/2016 4:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: DAM	
Dibenz(a,h)anthracene	ND	6.8	10		µg/L	1	3/4/2016 12:41:35 PM	24000
Dibenzofuran	ND	8.6	10		µg/L	1	3/4/2016 12:41:35 PM	24000
1,2-Dichlorobenzene	ND	6.4	10		µg/L	1	3/4/2016 12:41:35 PM	24000
1,3-Dichlorobenzene	ND	6.1	10		µg/L	1	3/4/2016 12:41:35 PM	24000
1,4-Dichlorobenzene	ND	6.3	10		µg/L	1	3/4/2016 12:41:35 PM	24000
3,3'-Dichlorobenzidine	ND	4.7	10		µg/L	1	3/4/2016 12:41:35 PM	24000
Diethyl phthalate	ND	8.2	10		µg/L	1	3/4/2016 12:41:35 PM	24000
Dimethyl phthalate	ND	7.5	10		µg/L	1	3/4/2016 12:41:35 PM	24000
2,4-Dichlorophenol	ND	7.6	20		µg/L	1	3/4/2016 12:41:35 PM	24000
2,4-Dimethylphenol	ND	4.7	10		µg/L	1	3/4/2016 12:41:35 PM	24000
4,6-Dinitro-2-methylphenol	ND	7.3	20		µg/L	1	3/4/2016 12:41:35 PM	24000
2,4-Dinitrophenol	ND	9.9	20		µg/L	1	3/4/2016 12:41:35 PM	24000
2,4-Dinitrotoluene	ND	8.5	10		µg/L	1	3/4/2016 12:41:35 PM	24000
2,6-Dinitrotoluene	ND	7.5	10		µg/L	1	3/4/2016 12:41:35 PM	24000
Fluoranthene	ND	6.1	10		µg/L	1	3/4/2016 12:41:35 PM	24000
Fluorene	ND	7.2	10		µg/L	1	3/4/2016 12:41:35 PM	24000
Hexachlorobenzene	ND	7.1	10		µg/L	1	3/4/2016 12:41:35 PM	24000
Hexachlorobutadiene	ND	5.2	10		µg/L	1	3/4/2016 12:41:35 PM	24000
Hexachlorocyclopentadiene	ND	5.2	10		µg/L	1	3/4/2016 12:41:35 PM	24000
Hexachloroethane	ND	5.8	10		µg/L	1	3/4/2016 12:41:35 PM	24000
Indeno(1,2,3-cd)pyrene	ND	5.6	10		µg/L	1	3/4/2016 12:41:35 PM	24000
Isophorone	ND	8.1	10		µg/L	1	3/4/2016 12:41:35 PM	24000
1-Methylnaphthalene	ND	6.8	10		µg/L	1	3/4/2016 12:41:35 PM	24000
2-Methylnaphthalene	ND	7.0	10		µg/L	1	3/4/2016 12:41:35 PM	24000
2-Methylphenol	ND	8.2	10		µg/L	1	3/4/2016 12:41:35 PM	24000
3+4-Methylphenol	ND	7.1	10		µg/L	1	3/4/2016 12:41:35 PM	24000
N-Nitrosodi-n-propylamine	ND	7.8	10		µg/L	1	3/4/2016 12:41:35 PM	24000
N-Nitrosodimethylamine	ND	9.1	10		µg/L	1	3/4/2016 12:41:35 PM	24000
N-Nitrosodiphenylamine	ND	6.2	10		µg/L	1	3/4/2016 12:41:35 PM	24000
Naphthalene	ND	5.9	10		µg/L	1	3/4/2016 12:41:35 PM	24000
2-Nitroaniline	ND	9.0	10		µg/L	1	3/4/2016 12:41:35 PM	24000
3-Nitroaniline	ND	8.8	10		µg/L	1	3/4/2016 12:41:35 PM	24000
4-Nitroaniline	ND	9.1	10		µg/L	1	3/4/2016 12:41:35 PM	24000
Nitrobenzene	ND	7.8	10		µg/L	1	3/4/2016 12:41:35 PM	24000
2-Nitrophenol	ND	7.6	10		µg/L	1	3/4/2016 12:41:35 PM	24000
4-Nitrophenol	ND	6.7	10		µg/L	1	3/4/2016 12:41:35 PM	24000
Pentachlorophenol	ND	7.6	20		µg/L	1	3/4/2016 12:41:35 PM	24000
Phenanthrene	ND	6.8	10		µg/L	1	3/4/2016 12:41:35 PM	24000
Phenol	ND	5.1	10		µg/L	1	3/4/2016 12:41:35 PM	24000

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	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1602B49

Date Reported: 4/1/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-35

Project: Quarterly GW Sampling

Collection Date: 2/26/2016 12:00:00 PM

Lab ID: 1602B49-016

Matrix: AQUEOUS

Received Date: 2/26/2016 4:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: DAM	
Pyrene	ND	5.5	10		µg/L	1	3/4/2016 12:41:35 PM	24000
Pyridine	ND	6.7	10		µg/L	1	3/4/2016 12:41:35 PM	24000
1,2,4-Trichlorobenzene	ND	6.2	10		µg/L	1	3/4/2016 12:41:35 PM	24000
2,4,5-Trichlorophenol	ND	8.4	10		µg/L	1	3/4/2016 12:41:35 PM	24000
2,4,6-Trichlorophenol	ND	8.8	10		µg/L	1	3/4/2016 12:41:35 PM	24000
Surr: 2-Fluorophenol	26.0	0	4.63-113		%Rec	1	3/4/2016 12:41:35 PM	24000
Surr: Phenol-d5	20.8	0	4.13-124		%Rec	1	3/4/2016 12:41:35 PM	24000
Surr: 2,4,6-Tribromophenol	57.5	0	5.14-132		%Rec	1	3/4/2016 12:41:35 PM	24000
Surr: Nitrobenzene-d5	49.2	0	9.13-140		%Rec	1	3/4/2016 12:41:35 PM	24000
Surr: 2-Fluorobiphenyl	55.1	0	10.8-132		%Rec	1	3/4/2016 12:41:35 PM	24000
Surr: 4-Terphenyl-d14	68.9	0	12.9-107		%Rec	1	3/4/2016 12:41:35 PM	24000
EPA METHOD 8260B: VOLATILES							Analyst: RAA	
Benzene	46	0.48	5.0		µg/L	5	3/3/2016 9:03:24 PM	R32574
Toluene	ND	0.45	5.0		µg/L	5	3/3/2016 9:03:24 PM	R32574
Ethylbenzene	34	0.56	5.0		µg/L	5	3/3/2016 9:03:24 PM	R32574
Methyl tert-butyl ether (MTBE)	20	1.1	5.0		µg/L	5	3/3/2016 9:03:24 PM	R32574
1,2,4-Trimethylbenzene	11	0.52	5.0		µg/L	5	3/3/2016 9:03:24 PM	R32574
1,3,5-Trimethylbenzene	ND	0.58	5.0		µg/L	5	3/3/2016 9:03:24 PM	R32574
1,2-Dichloroethane (EDC)	ND	0.26	5.0		µg/L	5	3/3/2016 9:03:24 PM	R32574
1,2-Dibromoethane (EDB)	ND	0.56	5.0		µg/L	5	3/3/2016 9:03:24 PM	R32574
Naphthalene	ND	0.42	10		µg/L	5	3/3/2016 9:03:24 PM	R32574
1-Methylnaphthalene	ND	1.0	20		µg/L	5	3/3/2016 9:03:24 PM	R32574
2-Methylnaphthalene	ND	0.79	20		µg/L	5	3/3/2016 9:03:24 PM	R32574
Acetone	ND	4.4	50		µg/L	5	3/3/2016 9:03:24 PM	R32574
Bromobenzene	ND	0.40	5.0		µg/L	5	3/3/2016 9:03:24 PM	R32574
Bromodichloromethane	ND	0.49	5.0		µg/L	5	3/3/2016 9:03:24 PM	R32574
Bromoform	ND	0.51	5.0		µg/L	5	3/3/2016 9:03:24 PM	R32574
Bromomethane	ND	3.9	15		µg/L	5	3/3/2016 9:03:24 PM	R32574
2-Butanone	ND	1.6	50		µg/L	5	3/3/2016 9:03:24 PM	R32574
Carbon disulfide	ND	3.0	50		µg/L	5	3/3/2016 9:03:24 PM	R32574
Carbon Tetrachloride	ND	0.54	5.0		µg/L	5	3/3/2016 9:03:24 PM	R32574
Chlorobenzene	ND	0.52	5.0		µg/L	5	3/3/2016 9:03:24 PM	R32574
Chloroethane	ND	0.73	10		µg/L	5	3/3/2016 9:03:24 PM	R32574
Chloroform	ND	0.44	5.0		µg/L	5	3/3/2016 9:03:24 PM	R32574
Chloromethane	ND	1.1	15		µg/L	5	3/3/2016 9:03:24 PM	R32574
2-Chlorotoluene	ND	2.0	5.0		µg/L	5	3/3/2016 9:03:24 PM	R32574
4-Chlorotoluene	ND	0.64	5.0		µg/L	5	3/3/2016 9:03:24 PM	R32574
cis-1,2-DCE	ND	0.62	5.0		µg/L	5	3/3/2016 9:03:24 PM	R32574
cis-1,3-Dichloropropene	ND	0.50	5.0		µg/L	5	3/3/2016 9:03:24 PM	R32574

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	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
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Analytical Report

Lab Order 1602B49

Date Reported: 4/1/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-35

Project: Quarterly GW Sampling

Collection Date: 2/26/2016 12:00:00 PM

Lab ID: 1602B49-016

Matrix: AQUEOUS

Received Date: 2/26/2016 4:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: RAA	
1,2-Dibromo-3-chloropropane	ND	0.77	10		µg/L	5	3/3/2016 9:03:24 PM	R32574
Dibromochloromethane	ND	0.43	5.0		µg/L	5	3/3/2016 9:03:24 PM	R32574
Dibromomethane	ND	0.60	5.0		µg/L	5	3/3/2016 9:03:24 PM	R32574
1,2-Dichlorobenzene	ND	2.0	5.0		µg/L	5	3/3/2016 9:03:24 PM	R32574
1,3-Dichlorobenzene	ND	0.72	5.0		µg/L	5	3/3/2016 9:03:24 PM	R32574
1,4-Dichlorobenzene	5.2	0.71	5.0		µg/L	5	3/3/2016 9:03:24 PM	R32574
Dichlorodifluoromethane	ND	1.6	5.0		µg/L	5	3/3/2016 9:03:24 PM	R32574
1,1-Dichloroethane	ND	0.54	5.0		µg/L	5	3/3/2016 9:03:24 PM	R32574
1,1-Dichloroethene	ND	0.38	5.0		µg/L	5	3/3/2016 9:03:24 PM	R32574
1,2-Dichloropropane	ND	0.24	5.0		µg/L	5	3/3/2016 9:03:24 PM	R32574
1,3-Dichloropropane	ND	0.78	5.0		µg/L	5	3/3/2016 9:03:24 PM	R32574
2,2-Dichloropropane	ND	0.60	10		µg/L	5	3/3/2016 9:03:24 PM	R32574
1,1-Dichloropropene	ND	0.67	5.0		µg/L	5	3/3/2016 9:03:24 PM	R32574
Hexachlorobutadiene	ND	0.99	5.0		µg/L	5	3/3/2016 9:03:24 PM	R32574
2-Hexanone	ND	1.8	50		µg/L	5	3/3/2016 9:03:24 PM	R32574
Isopropylbenzene	3.4	0.49	5.0	J	µg/L	5	3/3/2016 9:03:24 PM	R32574
4-Isopropyltoluene	ND	0.70	5.0		µg/L	5	3/3/2016 9:03:24 PM	R32574
4-Methyl-2-pentanone	ND	0.75	50		µg/L	5	3/3/2016 9:03:24 PM	R32574
Methylene Chloride	ND	0.31	15		µg/L	5	3/3/2016 9:03:24 PM	R32574
n-Butylbenzene	1.6	0.80	15	J	µg/L	5	3/3/2016 9:03:24 PM	R32574
n-Propylbenzene	12	0.66	5.0		µg/L	5	3/3/2016 9:03:24 PM	R32574
sec-Butylbenzene	2.4	0.54	5.0	J	µg/L	5	3/3/2016 9:03:24 PM	R32574
Styrene	ND	0.48	5.0		µg/L	5	3/3/2016 9:03:24 PM	R32574
tert-Butylbenzene	ND	0.48	5.0		µg/L	5	3/3/2016 9:03:24 PM	R32574
1,1,1,2-Tetrachloroethane	ND	0.56	5.0		µg/L	5	3/3/2016 9:03:24 PM	R32574
1,1,2,2-Tetrachloroethane	ND	0.53	10		µg/L	5	3/3/2016 9:03:24 PM	R32574
Tetrachloroethene (PCE)	ND	0.76	5.0		µg/L	5	3/3/2016 9:03:24 PM	R32574
trans-1,2-DCE	ND	2.0	5.0		µg/L	5	3/3/2016 9:03:24 PM	R32574
trans-1,3-Dichloropropene	ND	0.42	5.0		µg/L	5	3/3/2016 9:03:24 PM	R32574
1,2,3-Trichlorobenzene	ND	0.56	5.0		µg/L	5	3/3/2016 9:03:24 PM	R32574
1,2,4-Trichlorobenzene	ND	0.66	5.0		µg/L	5	3/3/2016 9:03:24 PM	R32574
1,1,1-Trichloroethane	ND	0.32	5.0		µg/L	5	3/3/2016 9:03:24 PM	R32574
1,1,2-Trichloroethane	ND	0.38	5.0		µg/L	5	3/3/2016 9:03:24 PM	R32574
Trichloroethene (TCE)	ND	0.88	5.0		µg/L	5	3/3/2016 9:03:24 PM	R32574
Trichlorofluoromethane	ND	0.44	5.0		µg/L	5	3/3/2016 9:03:24 PM	R32574
1,2,3-Trichloropropane	ND	0.56	10		µg/L	5	3/3/2016 9:03:24 PM	R32574
Vinyl chloride	ND	0.32	5.0		µg/L	5	3/3/2016 9:03:24 PM	R32574
Xylenes, Total	4.5	1.6	7.5	J	µg/L	5	3/3/2016 9:03:24 PM	R32574
Surr: 1,2-Dichloroethane-d4	95.0	0	70-130		%Rec	5	3/3/2016 9:03:24 PM	R32574

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1602B49

Date Reported: 4/1/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-35

Project: Quarterly GW Sampling

Collection Date: 2/26/2016 12:00:00 PM

Lab ID: 1602B49-016

Matrix: AQUEOUS

Received Date: 2/26/2016 4:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: RAA	
Surr: 4-Bromofluorobenzene	99.9	0	70-130		%Rec	5	3/3/2016 9:03:24 PM	R32574
Surr: Dibromofluoromethane	102	0	70-130		%Rec	5	3/3/2016 9:03:24 PM	R32574
Surr: Toluene-d8	103	0	70-130		%Rec	5	3/3/2016 9:03:24 PM	R32574

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-18

Project: Quarterly GW Sampling

Collection Date: 2/26/2016 1:30:00 PM

Lab ID: 1602B49-017

Matrix: AQUEOUS

Received Date: 2/26/2016 4:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015M/D: DIESEL RANGE							Analyst: KJH	
Diesel Range Organics (DRO)	3.0	0.69	1.0		mg/L	1	3/1/2016 6:34:19 PM	24002
Motor Oil Range Organics (MRO)	ND	5.0	5.0		mg/L	1	3/1/2016 6:34:19 PM	24002
Surr: DNOP	89.6	0	70-141		%Rec	1	3/1/2016 6:34:19 PM	24002
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB	
Gasoline Range Organics (GRO)	0.79	0.13	0.25		mg/L	5	3/3/2016 9:45:45 AM	A32557
Surr: BFB	97.9	0	49.5-130		%Rec	5	3/3/2016 9:45:45 AM	A32557
EPA METHOD 300.0: ANIONS							Analyst: JRR	
Fluoride	0.64	0.023	0.10		mg/L	1	3/4/2016 4:44:07 PM	R32615
Chloride	160	0.55	10		mg/L	20	3/4/2016 4:56:31 PM	R32615
Bromide	0.80	0.032	0.10		mg/L	1	3/4/2016 4:44:07 PM	R32615
Phosphorus, Orthophosphate (As P)	ND	0.22	0.50	H	mg/L	1	3/4/2016 4:44:07 PM	R32615
Sulfate	0.26	0.064	0.50	J	mg/L	1	3/4/2016 4:44:07 PM	R32615
Nitrate+Nitrite as N	ND	0.42	1.0		mg/L	5	3/1/2016 2:48:32 PM	R32498
EPA METHOD 200.7: DISSOLVED METALS							Analyst: MED	
Barium	2.1	0.0066	0.010	*	mg/L	5	3/15/2016 1:34:52 PM	A32792
Cadmium	ND	0.00075	0.0020		mg/L	1	3/11/2016 5:03:14 PM	C32754
Calcium	81	0.26	1.0		mg/L	1	3/11/2016 5:03:14 PM	C32754
Chromium	ND	0.0018	0.0060		mg/L	1	3/11/2016 5:03:14 PM	C32754
Copper	ND	0.0040	0.0060		mg/L	1	3/15/2016 1:33:12 PM	A32792
Iron	2.1	0.045	0.10	*	mg/L	5	3/15/2016 1:34:52 PM	A32792
Magnesium	20	0.013	1.0		mg/L	1	3/11/2016 5:03:14 PM	C32754
Manganese	1.9	0.0016	0.010	*	mg/L	5	3/15/2016 1:34:52 PM	A32792
Potassium	0.83	0.18	1.0	J	mg/L	1	3/11/2016 5:03:14 PM	C32754
Silver	ND	0.0028	0.0050		mg/L	1	3/11/2016 5:03:14 PM	C32754
Sodium	270	0.48	5.0		mg/L	5	3/16/2016 2:02:00 PM	D32831
Zinc	0.011	0.0028	0.010		mg/L	1	3/16/2016 2:00:21 PM	D32831
EPA METHOD 200.7: TOTAL METALS							Analyst: ELS	
Barium	2.3	0.011	0.020	*	mg/L	10	3/11/2016 3:55:51 PM	24015
Cadmium	ND	0.00062	0.0020		mg/L	1	3/11/2016 3:54:06 PM	24015
Chromium	0.0043	0.0022	0.0060	J	mg/L	1	3/11/2016 3:54:06 PM	24015
Copper	0.0057	0.0051	0.0060	J	mg/L	1	3/14/2016 2:05:05 PM	24015
Iron	6.4	0.072	0.20	*	mg/L	10	3/11/2016 3:55:51 PM	24015
Manganese	2.1	0.015	0.020	*	mg/L	10	3/11/2016 3:55:51 PM	24015
Silver	ND	0.0021	0.0050		mg/L	1	3/23/2016 12:00:07 PM	24381
Zinc	0.020	0.0039	0.010		mg/L	1	3/14/2016 2:05:05 PM	24015
EPA 200.8: DISSOLVED METALS							Analyst: JLF	
Arsenic	0.0020	0.000065	0.0010		mg/L	1	3/15/2016 6:07:25 PM	C32805

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1602B49

Date Reported: 4/1/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-18

Project: Quarterly GW Sampling

Collection Date: 2/26/2016 1:30:00 PM

Lab ID: 1602B49-017

Matrix: AQUEOUS

Received Date: 2/26/2016 4:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA 200.8: DISSOLVED METALS								
							Analyst: JLF	
Lead	0.00039	0.000026	0.00050	J	mg/L	1	3/15/2016 6:07:25 PM	C32805
Selenium	0.0018	0.00019	0.0010		mg/L	1	3/15/2016 6:07:25 PM	C32805
Uranium	0.0012	0.0000048	0.00050		mg/L	1	3/15/2016 6:07:25 PM	C32805
200.8 ICPMS METALS:TOTAL								
							Analyst: JLF	
Arsenic	0.0022	0.00029	0.0010		mg/L	1	3/11/2016 1:57:39 PM	24015
Lead	0.0064	0.000047	0.00050		mg/L	1	3/11/2016 1:57:39 PM	24015
Selenium	0.0019	0.00062	0.0050	J	mg/L	5	3/11/2016 4:02:15 PM	24015
Uranium	0.0016	0.0000049	0.00050		mg/L	1	3/11/2016 1:57:39 PM	24015
EPA METHOD 245.1: MERCURY								
							Analyst: DBD	
Mercury	ND	0.000053	0.00020		mg/L	1	3/2/2016 1:34:48 PM	24021
EPA METHOD 8270C: SEMIVOLATILES								
							Analyst: DAM	
Acenaphthene	ND	8.0	10		µg/L	1	3/4/2016 1:11:43 PM	24000
Acenaphthylene	ND	7.2	10		µg/L	1	3/4/2016 1:11:43 PM	24000
Aniline	ND	9.8	10		µg/L	1	3/4/2016 1:11:43 PM	24000
Anthracene	ND	6.6	10		µg/L	1	3/4/2016 1:11:43 PM	24000
Azobenzene	ND	9.3	10		µg/L	1	3/4/2016 1:11:43 PM	24000
Benz(a)anthracene	ND	6.1	10		µg/L	1	3/4/2016 1:11:43 PM	24000
Benzo(a)pyrene	ND	6.3	10		µg/L	1	3/4/2016 1:11:43 PM	24000
Benzo(b)fluoranthene	ND	6.6	10		µg/L	1	3/4/2016 1:11:43 PM	24000
Benzo(g,h,i)perylene	ND	6.8	10		µg/L	1	3/4/2016 1:11:43 PM	24000
Benzo(k)fluoranthene	ND	7.2	10		µg/L	1	3/4/2016 1:11:43 PM	24000
Benzoic acid	ND	9.8	20		µg/L	1	3/4/2016 1:11:43 PM	24000
Benzyl alcohol	ND	8.0	10		µg/L	1	3/4/2016 1:11:43 PM	24000
Bis(2-chloroethoxy)methane	ND	7.3	10		µg/L	1	3/4/2016 1:11:43 PM	24000
Bis(2-chloroethyl)ether	ND	8.3	10		µg/L	1	3/4/2016 1:11:43 PM	24000
Bis(2-chloroisopropyl)ether	ND	9.1	10		µg/L	1	3/4/2016 1:11:43 PM	24000
Bis(2-ethylhexyl)phthalate	ND	7.5	10		µg/L	1	3/4/2016 1:11:43 PM	24000
4-Bromophenyl phenyl ether	ND	8.6	10		µg/L	1	3/4/2016 1:11:43 PM	24000
Butyl benzyl phthalate	ND	7.8	10		µg/L	1	3/4/2016 1:11:43 PM	24000
Carbazole	ND	7.2	10		µg/L	1	3/4/2016 1:11:43 PM	24000
4-Chloro-3-methylphenol	ND	8.0	10		µg/L	1	3/4/2016 1:11:43 PM	24000
4-Chloroaniline	ND	7.1	10		µg/L	1	3/4/2016 1:11:43 PM	24000
2-Chloronaphthalene	ND	7.2	10		µg/L	1	3/4/2016 1:11:43 PM	24000
2-Chlorophenol	ND	8.7	10		µg/L	1	3/4/2016 1:11:43 PM	24000
4-Chlorophenyl phenyl ether	ND	8.2	10		µg/L	1	3/4/2016 1:11:43 PM	24000
Chrysene	ND	6.6	10		µg/L	1	3/4/2016 1:11:43 PM	24000
Di-n-butyl phthalate	ND	8.1	10		µg/L	1	3/4/2016 1:11:43 PM	24000
Di-n-octyl phthalate	ND	6.3	10		µg/L	1	3/4/2016 1:11:43 PM	24000

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1602B49

Date Reported: 4/1/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-18

Project: Quarterly GW Sampling

Collection Date: 2/26/2016 1:30:00 PM

Lab ID: 1602B49-017

Matrix: AQUEOUS

Received Date: 2/26/2016 4:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: DAM	
Dibenz(a,h)anthracene	ND	6.8	10		µg/L	1	3/4/2016 1:11:43 PM	24000
Dibenzofuran	ND	8.6	10		µg/L	1	3/4/2016 1:11:43 PM	24000
1,2-Dichlorobenzene	ND	6.4	10		µg/L	1	3/4/2016 1:11:43 PM	24000
1,3-Dichlorobenzene	ND	6.1	10		µg/L	1	3/4/2016 1:11:43 PM	24000
1,4-Dichlorobenzene	ND	6.3	10		µg/L	1	3/4/2016 1:11:43 PM	24000
3,3'-Dichlorobenzidine	ND	4.7	10		µg/L	1	3/4/2016 1:11:43 PM	24000
Diethyl phthalate	ND	8.2	10		µg/L	1	3/4/2016 1:11:43 PM	24000
Dimethyl phthalate	ND	7.5	10		µg/L	1	3/4/2016 1:11:43 PM	24000
2,4-Dichlorophenol	ND	7.6	20		µg/L	1	3/4/2016 1:11:43 PM	24000
2,4-Dimethylphenol	ND	4.7	10		µg/L	1	3/4/2016 1:11:43 PM	24000
4,6-Dinitro-2-methylphenol	ND	7.3	20		µg/L	1	3/4/2016 1:11:43 PM	24000
2,4-Dinitrophenol	ND	9.9	20		µg/L	1	3/4/2016 1:11:43 PM	24000
2,4-Dinitrotoluene	ND	8.5	10		µg/L	1	3/4/2016 1:11:43 PM	24000
2,6-Dinitrotoluene	ND	7.5	10		µg/L	1	3/4/2016 1:11:43 PM	24000
Fluoranthene	ND	6.1	10		µg/L	1	3/4/2016 1:11:43 PM	24000
Fluorene	ND	7.2	10		µg/L	1	3/4/2016 1:11:43 PM	24000
Hexachlorobenzene	ND	7.1	10		µg/L	1	3/4/2016 1:11:43 PM	24000
Hexachlorobutadiene	ND	5.2	10		µg/L	1	3/4/2016 1:11:43 PM	24000
Hexachlorocyclopentadiene	ND	5.2	10		µg/L	1	3/4/2016 1:11:43 PM	24000
Hexachloroethane	ND	5.8	10		µg/L	1	3/4/2016 1:11:43 PM	24000
Indeno(1,2,3-cd)pyrene	ND	5.6	10		µg/L	1	3/4/2016 1:11:43 PM	24000
Isophorone	ND	8.1	10		µg/L	1	3/4/2016 1:11:43 PM	24000
1-Methylnaphthalene	60	6.8	10		µg/L	1	3/4/2016 1:11:43 PM	24000
2-Methylnaphthalene	17	7.0	10		µg/L	1	3/4/2016 1:11:43 PM	24000
2-Methylphenol	ND	8.2	10		µg/L	1	3/4/2016 1:11:43 PM	24000
3+4-Methylphenol	ND	7.1	10		µg/L	1	3/4/2016 1:11:43 PM	24000
N-Nitrosodi-n-propylamine	ND	7.8	10		µg/L	1	3/4/2016 1:11:43 PM	24000
N-Nitrosodimethylamine	ND	9.1	10		µg/L	1	3/4/2016 1:11:43 PM	24000
N-Nitrosodiphenylamine	ND	6.2	10		µg/L	1	3/4/2016 1:11:43 PM	24000
Naphthalene	16	5.9	10		µg/L	1	3/4/2016 1:11:43 PM	24000
2-Nitroaniline	ND	9.0	10		µg/L	1	3/4/2016 1:11:43 PM	24000
3-Nitroaniline	ND	8.8	10		µg/L	1	3/4/2016 1:11:43 PM	24000
4-Nitroaniline	ND	9.1	10		µg/L	1	3/4/2016 1:11:43 PM	24000
Nitrobenzene	ND	7.8	10		µg/L	1	3/4/2016 1:11:43 PM	24000
2-Nitrophenol	ND	7.6	10		µg/L	1	3/4/2016 1:11:43 PM	24000
4-Nitrophenol	ND	6.7	10		µg/L	1	3/4/2016 1:11:43 PM	24000
Pentachlorophenol	ND	7.6	20		µg/L	1	3/4/2016 1:11:43 PM	24000
Phenanthrene	ND	6.8	10		µg/L	1	3/4/2016 1:11:43 PM	24000
Phenol	ND	5.1	10		µg/L	1	3/4/2016 1:11:43 PM	24000

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1602B49

Date Reported: 4/1/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-18

Project: Quarterly GW Sampling

Collection Date: 2/26/2016 1:30:00 PM

Lab ID: 1602B49-017

Matrix: AQUEOUS

Received Date: 2/26/2016 4:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: DAM	
Pyrene	ND	5.5	10		µg/L	1	3/4/2016 1:11:43 PM	24000
Pyridine	ND	6.7	10		µg/L	1	3/4/2016 1:11:43 PM	24000
1,2,4-Trichlorobenzene	ND	6.2	10		µg/L	1	3/4/2016 1:11:43 PM	24000
2,4,5-Trichlorophenol	ND	8.4	10		µg/L	1	3/4/2016 1:11:43 PM	24000
2,4,6-Trichlorophenol	ND	8.8	10		µg/L	1	3/4/2016 1:11:43 PM	24000
Surr: 2-Fluorophenol	40.4	0	4.63-113		%Rec	1	3/4/2016 1:11:43 PM	24000
Surr: Phenol-d5	28.5	0	4.13-124		%Rec	1	3/4/2016 1:11:43 PM	24000
Surr: 2,4,6-Tribromophenol	74.5	0	5.14-132		%Rec	1	3/4/2016 1:11:43 PM	24000
Surr: Nitrobenzene-d5	64.7	0	9.13-140		%Rec	1	3/4/2016 1:11:43 PM	24000
Surr: 2-Fluorobiphenyl	73.3	0	10.8-132		%Rec	1	3/4/2016 1:11:43 PM	24000
Surr: 4-Terphenyl-d14	63.7	0	12.9-107		%Rec	1	3/4/2016 1:11:43 PM	24000
EPA METHOD 8260B: VOLATILES							Analyst: RAA	
Benzene	17	0.096	1.0		µg/L	1	3/3/2016 9:32:09 PM	R32574
Toluene	0.59	0.089	1.0	J	µg/L	1	3/3/2016 9:32:09 PM	R32574
Ethylbenzene	34	0.11	1.0		µg/L	1	3/3/2016 9:32:09 PM	R32574
Methyl tert-butyl ether (MTBE)	71	0.21	1.0		µg/L	1	3/3/2016 9:32:09 PM	R32574
1,2,4-Trimethylbenzene	14	0.10	1.0		µg/L	1	3/3/2016 9:32:09 PM	R32574
1,3,5-Trimethylbenzene	1.2	0.12	1.0		µg/L	1	3/3/2016 9:32:09 PM	R32574
1,2-Dichloroethane (EDC)	ND	0.053	1.0		µg/L	1	3/3/2016 9:32:09 PM	R32574
1,2-Dibromoethane (EDB)	ND	0.11	1.0		µg/L	1	3/3/2016 9:32:09 PM	R32574
Naphthalene	35	0.083	2.0		µg/L	1	3/3/2016 9:32:09 PM	R32574
1-Methylnaphthalene	140	2.0	40		µg/L	10	3/4/2016 5:05:04 PM	R32609
2-Methylnaphthalene	40	0.16	4.0		µg/L	1	3/3/2016 9:32:09 PM	R32574
Acetone	3.2	0.88	10	J	µg/L	1	3/3/2016 9:32:09 PM	R32574
Bromobenzene	ND	0.080	1.0		µg/L	1	3/3/2016 9:32:09 PM	R32574
Bromodichloromethane	ND	0.098	1.0		µg/L	1	3/3/2016 9:32:09 PM	R32574
Bromoform	ND	0.10	1.0		µg/L	1	3/3/2016 9:32:09 PM	R32574
Bromomethane	ND	0.78	3.0		µg/L	1	3/3/2016 9:32:09 PM	R32574
2-Butanone	ND	0.32	10		µg/L	1	3/3/2016 9:32:09 PM	R32574
Carbon disulfide	ND	0.60	10		µg/L	1	3/3/2016 9:32:09 PM	R32574
Carbon Tetrachloride	ND	0.11	1.0		µg/L	1	3/3/2016 9:32:09 PM	R32574
Chlorobenzene	ND	0.10	1.0		µg/L	1	3/3/2016 9:32:09 PM	R32574
Chloroethane	ND	0.15	2.0		µg/L	1	3/3/2016 9:32:09 PM	R32574
Chloroform	ND	0.089	1.0		µg/L	1	3/3/2016 9:32:09 PM	R32574
Chloromethane	ND	0.21	3.0		µg/L	1	3/3/2016 9:32:09 PM	R32574
2-Chlorotoluene	ND	0.40	1.0		µg/L	1	3/3/2016 9:32:09 PM	R32574
4-Chlorotoluene	ND	0.13	1.0		µg/L	1	3/3/2016 9:32:09 PM	R32574
cis-1,2-DCE	4.2	0.12	1.0		µg/L	1	3/3/2016 9:32:09 PM	R32574
cis-1,3-Dichloropropene	ND	0.10	1.0		µg/L	1	3/3/2016 9:32:09 PM	R32574

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1602B49

Date Reported: 4/1/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-18

Project: Quarterly GW Sampling

Collection Date: 2/26/2016 1:30:00 PM

Lab ID: 1602B49-017

Matrix: AQUEOUS

Received Date: 2/26/2016 4:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: RAA	
1,2-Dibromo-3-chloropropane	ND	0.15	2.0		µg/L	1	3/3/2016 9:32:09 PM	R32574
Dibromochloromethane	ND	0.087	1.0		µg/L	1	3/3/2016 9:32:09 PM	R32574
Dibromomethane	ND	0.12	1.0		µg/L	1	3/3/2016 9:32:09 PM	R32574
1,2-Dichlorobenzene	ND	0.40	1.0		µg/L	1	3/3/2016 9:32:09 PM	R32574
1,3-Dichlorobenzene	ND	0.14	1.0		µg/L	1	3/3/2016 9:32:09 PM	R32574
1,4-Dichlorobenzene	ND	0.14	1.0		µg/L	1	3/3/2016 9:32:09 PM	R32574
Dichlorodifluoromethane	ND	0.32	1.0		µg/L	1	3/3/2016 9:32:09 PM	R32574
1,1-Dichloroethane	0.76	0.11	1.0	J	µg/L	1	3/3/2016 9:32:09 PM	R32574
1,1-Dichloroethene	0.43	0.076	1.0	J	µg/L	1	3/3/2016 9:32:09 PM	R32574
1,2-Dichloropropane	ND	0.047	1.0		µg/L	1	3/3/2016 9:32:09 PM	R32574
1,3-Dichloropropane	ND	0.16	1.0		µg/L	1	3/3/2016 9:32:09 PM	R32574
2,2-Dichloropropane	ND	0.12	2.0		µg/L	1	3/3/2016 9:32:09 PM	R32574
1,1-Dichloropropene	ND	0.13	1.0		µg/L	1	3/3/2016 9:32:09 PM	R32574
Hexachlorobutadiene	ND	0.20	1.0		µg/L	1	3/3/2016 9:32:09 PM	R32574
2-Hexanone	ND	0.36	10		µg/L	1	3/3/2016 9:32:09 PM	R32574
Isopropylbenzene	6.0	0.098	1.0		µg/L	1	3/3/2016 9:32:09 PM	R32574
4-Isopropyltoluene	1.7	0.14	1.0		µg/L	1	3/3/2016 9:32:09 PM	R32574
4-Methyl-2-pentanone	ND	0.15	10		µg/L	1	3/3/2016 9:32:09 PM	R32574
Methylene Chloride	ND	0.063	3.0		µg/L	1	3/3/2016 9:32:09 PM	R32574
n-Butylbenzene	3.0	0.16	3.0		µg/L	1	3/3/2016 9:32:09 PM	R32574
n-Propylbenzene	7.1	0.13	1.0		µg/L	1	3/3/2016 9:32:09 PM	R32574
sec-Butylbenzene	3.2	0.11	1.0		µg/L	1	3/3/2016 9:32:09 PM	R32574
Styrene	ND	0.095	1.0		µg/L	1	3/3/2016 9:32:09 PM	R32574
tert-Butylbenzene	ND	0.096	1.0		µg/L	1	3/3/2016 9:32:09 PM	R32574
1,1,1,2-Tetrachloroethane	ND	0.11	1.0		µg/L	1	3/3/2016 9:32:09 PM	R32574
1,1,2,2-Tetrachloroethane	ND	0.11	2.0		µg/L	1	3/3/2016 9:32:09 PM	R32574
Tetrachloroethene (PCE)	ND	0.15	1.0		µg/L	1	3/3/2016 9:32:09 PM	R32574
trans-1,2-DCE	ND	0.40	1.0		µg/L	1	3/3/2016 9:32:09 PM	R32574
trans-1,3-Dichloropropene	ND	0.085	1.0		µg/L	1	3/3/2016 9:32:09 PM	R32574
1,2,3-Trichlorobenzene	ND	0.11	1.0		µg/L	1	3/3/2016 9:32:09 PM	R32574
1,2,4-Trichlorobenzene	ND	0.13	1.0		µg/L	1	3/3/2016 9:32:09 PM	R32574
1,1,1-Trichloroethane	ND	0.063	1.0		µg/L	1	3/3/2016 9:32:09 PM	R32574
1,1,2-Trichloroethane	ND	0.077	1.0		µg/L	1	3/3/2016 9:32:09 PM	R32574
Trichloroethene (TCE)	ND	0.18	1.0		µg/L	1	3/3/2016 9:32:09 PM	R32574
Trichlorofluoromethane	ND	0.088	1.0		µg/L	1	3/3/2016 9:32:09 PM	R32574
1,2,3-Trichloropropane	ND	0.11	2.0		µg/L	1	3/3/2016 9:32:09 PM	R32574
Vinyl chloride	ND	0.063	1.0		µg/L	1	3/3/2016 9:32:09 PM	R32574
Xylenes, Total	5.6	0.32	1.5		µg/L	1	3/3/2016 9:32:09 PM	R32574
Surr: 1,2-Dichloroethane-d4	88.4	0	70-130		%Rec	1	3/3/2016 9:32:09 PM	R32574

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E 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	P Sample pH Not In Range
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1602B49

Date Reported: 4/1/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-18

Project: Quarterly GW Sampling

Collection Date: 2/26/2016 1:30:00 PM

Lab ID: 1602B49-017

Matrix: AQUEOUS

Received Date: 2/26/2016 4:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: RAA	
Surr: 4-Bromofluorobenzene	81.2	0	70-130		%Rec	1	3/3/2016 9:32:09 PM	R32574
Surr: Dibromofluoromethane	90.9	0	70-130		%Rec	1	3/3/2016 9:32:09 PM	R32574
Surr: Toluene-d8	108	0	70-130		%Rec	1	3/3/2016 9:32:09 PM	R32574

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1602B49

Date Reported: 4/1/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: TRIP BLANK

Project: Quarterly GW Sampling

Collection Date:

Lab ID: 1602B49-018

Matrix: TRIP BLANK

Received Date: 2/26/2016 4:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB	
Gasoline Range Organics (GRO)	ND	0.025	0.050		mg/L	1	3/3/2016 10:34:55 AM	A32557
Surr: BFB	90.2	0	49.5-130		%Rec	1	3/3/2016 10:34:55 AM	A32557
EPA METHOD 8260B: VOLATILES							Analyst: RAA	
Benzene	ND	0.096	1.0		µg/L	1	3/4/2016 3:17:34 AM	B32574
Toluene	ND	0.089	1.0		µg/L	1	3/4/2016 3:17:34 AM	B32574
Ethylbenzene	ND	0.11	1.0		µg/L	1	3/4/2016 3:17:34 AM	B32574
Methyl tert-butyl ether (MTBE)	ND	0.21	1.0		µg/L	1	3/4/2016 3:17:34 AM	B32574
1,2,4-Trimethylbenzene	ND	0.10	1.0		µg/L	1	3/4/2016 3:17:34 AM	B32574
1,3,5-Trimethylbenzene	ND	0.12	1.0		µg/L	1	3/4/2016 3:17:34 AM	B32574
1,2-Dichloroethane (EDC)	ND	0.053	1.0		µg/L	1	3/4/2016 3:17:34 AM	B32574
1,2-Dibromoethane (EDB)	ND	0.11	1.0		µg/L	1	3/4/2016 3:17:34 AM	B32574
Naphthalene	ND	0.083	2.0		µg/L	1	3/4/2016 3:17:34 AM	B32574
1-Methylnaphthalene	ND	0.20	4.0		µg/L	1	3/4/2016 3:17:34 AM	B32574
2-Methylnaphthalene	ND	0.16	4.0		µg/L	1	3/4/2016 3:17:34 AM	B32574
Acetone	ND	0.88	10		µg/L	1	3/4/2016 3:17:34 AM	B32574
Bromobenzene	ND	0.080	1.0		µg/L	1	3/4/2016 3:17:34 AM	B32574
Bromodichloromethane	ND	0.098	1.0		µg/L	1	3/4/2016 3:17:34 AM	B32574
Bromoform	ND	0.10	1.0		µg/L	1	3/4/2016 3:17:34 AM	B32574
Bromomethane	ND	0.78	3.0		µg/L	1	3/4/2016 3:17:34 AM	B32574
2-Butanone	ND	0.32	10		µg/L	1	3/4/2016 3:17:34 AM	B32574
Carbon disulfide	ND	0.60	10		µg/L	1	3/4/2016 3:17:34 AM	B32574
Carbon Tetrachloride	ND	0.11	1.0		µg/L	1	3/4/2016 3:17:34 AM	B32574
Chlorobenzene	ND	0.10	1.0		µg/L	1	3/4/2016 3:17:34 AM	B32574
Chloroethane	ND	0.15	2.0		µg/L	1	3/4/2016 3:17:34 AM	B32574
Chloroform	ND	0.089	1.0		µg/L	1	3/4/2016 3:17:34 AM	B32574
Chloromethane	ND	0.21	3.0		µg/L	1	3/4/2016 3:17:34 AM	B32574
2-Chlorotoluene	ND	0.40	1.0		µg/L	1	3/4/2016 3:17:34 AM	B32574
4-Chlorotoluene	ND	0.13	1.0		µg/L	1	3/4/2016 3:17:34 AM	B32574
cis-1,2-DCE	ND	0.12	1.0		µg/L	1	3/4/2016 3:17:34 AM	B32574
cis-1,3-Dichloropropene	ND	0.10	1.0		µg/L	1	3/4/2016 3:17:34 AM	B32574
1,2-Dibromo-3-chloropropane	ND	0.15	2.0		µg/L	1	3/4/2016 3:17:34 AM	B32574
Dibromochloromethane	ND	0.087	1.0		µg/L	1	3/4/2016 3:17:34 AM	B32574
Dibromomethane	ND	0.12	1.0		µg/L	1	3/4/2016 3:17:34 AM	B32574
1,2-Dichlorobenzene	ND	0.40	1.0		µg/L	1	3/4/2016 3:17:34 AM	B32574
1,3-Dichlorobenzene	ND	0.14	1.0		µg/L	1	3/4/2016 3:17:34 AM	B32574
1,4-Dichlorobenzene	ND	0.14	1.0		µg/L	1	3/4/2016 3:17:34 AM	B32574
Dichlorodifluoromethane	ND	0.32	1.0		µg/L	1	3/4/2016 3:17:34 AM	B32574
1,1-Dichloroethane	ND	0.11	1.0		µg/L	1	3/4/2016 3:17:34 AM	B32574
1,1-Dichloroethene	ND	0.076	1.0		µg/L	1	3/4/2016 3:17:34 AM	B32574

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1602B49

Date Reported: 4/1/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: TRIP BLANK

Project: Quarterly GW Sampling

Collection Date:

Lab ID: 1602B49-018

Matrix: TRIP BLANK

Received Date: 2/26/2016 4:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: RAA	
1,2-Dichloropropane	ND	0.047	1.0		µg/L	1	3/4/2016 3:17:34 AM	B32574
1,3-Dichloropropane	ND	0.16	1.0		µg/L	1	3/4/2016 3:17:34 AM	B32574
2,2-Dichloropropane	ND	0.12	2.0		µg/L	1	3/4/2016 3:17:34 AM	B32574
1,1-Dichloropropene	ND	0.13	1.0		µg/L	1	3/4/2016 3:17:34 AM	B32574
Hexachlorobutadiene	ND	0.20	1.0		µg/L	1	3/4/2016 3:17:34 AM	B32574
2-Hexanone	ND	0.36	10		µg/L	1	3/4/2016 3:17:34 AM	B32574
Isopropylbenzene	ND	0.098	1.0		µg/L	1	3/4/2016 3:17:34 AM	B32574
4-Isopropyltoluene	ND	0.14	1.0		µg/L	1	3/4/2016 3:17:34 AM	B32574
4-Methyl-2-pentanone	ND	0.15	10		µg/L	1	3/4/2016 3:17:34 AM	B32574
Methylene Chloride	ND	0.063	3.0		µg/L	1	3/4/2016 3:17:34 AM	B32574
n-Butylbenzene	ND	0.16	3.0		µg/L	1	3/4/2016 3:17:34 AM	B32574
n-Propylbenzene	ND	0.13	1.0		µg/L	1	3/4/2016 3:17:34 AM	B32574
sec-Butylbenzene	ND	0.11	1.0		µg/L	1	3/4/2016 3:17:34 AM	B32574
Styrene	ND	0.095	1.0		µg/L	1	3/4/2016 3:17:34 AM	B32574
tert-Butylbenzene	ND	0.096	1.0		µg/L	1	3/4/2016 3:17:34 AM	B32574
1,1,1,2-Tetrachloroethane	ND	0.11	1.0		µg/L	1	3/4/2016 3:17:34 AM	B32574
1,1,2,2-Tetrachloroethane	ND	0.11	2.0		µg/L	1	3/4/2016 3:17:34 AM	B32574
Tetrachloroethene (PCE)	ND	0.15	1.0		µg/L	1	3/4/2016 3:17:34 AM	B32574
trans-1,2-DCE	ND	0.40	1.0		µg/L	1	3/4/2016 3:17:34 AM	B32574
trans-1,3-Dichloropropene	ND	0.085	1.0		µg/L	1	3/4/2016 3:17:34 AM	B32574
1,2,3-Trichlorobenzene	ND	0.11	1.0		µg/L	1	3/4/2016 3:17:34 AM	B32574
1,2,4-Trichlorobenzene	ND	0.13	1.0		µg/L	1	3/4/2016 3:17:34 AM	B32574
1,1,1-Trichloroethane	ND	0.063	1.0		µg/L	1	3/4/2016 3:17:34 AM	B32574
1,1,2-Trichloroethane	ND	0.077	1.0		µg/L	1	3/4/2016 3:17:34 AM	B32574
Trichloroethene (TCE)	ND	0.18	1.0		µg/L	1	3/4/2016 3:17:34 AM	B32574
Trichlorofluoromethane	ND	0.088	1.0		µg/L	1	3/4/2016 3:17:34 AM	B32574
1,2,3-Trichloropropane	ND	0.11	2.0		µg/L	1	3/4/2016 3:17:34 AM	B32574
Vinyl chloride	ND	0.063	1.0		µg/L	1	3/4/2016 3:17:34 AM	B32574
Xylenes, Total	ND	0.32	1.5		µg/L	1	3/4/2016 3:17:34 AM	B32574
Surr: 1,2-Dichloroethane-d4	89.5	0	70-130		%Rec	1	3/4/2016 3:17:34 AM	B32574
Surr: 4-Bromofluorobenzene	104	0	70-130		%Rec	1	3/4/2016 3:17:34 AM	B32574
Surr: Dibromofluoromethane	100	0	70-130		%Rec	1	3/4/2016 3:17:34 AM	B32574
Surr: Toluene-d8	104	0	70-130		%Rec	1	3/4/2016 3:17:34 AM	B32574

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1602B49

Date Reported: 4/1/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-43

Project: Quarterly GW Sampling

Collection Date: 2/24/2016 1:40:00 PM

Lab ID: 1602B49-019

Matrix: AQUEOUS

Received Date: 2/26/2016 4:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015M/D: DIESEL RANGE							Analyst: KJH	
Diesel Range Organics (DRO)	ND	0.69	1.0		mg/L	1	3/1/2016 6:55:46 PM	24002
Motor Oil Range Organics (MRO)	ND	5.0	5.0		mg/L	1	3/1/2016 6:55:46 PM	24002
Surr: DNOP	87.8	0	70-141		%Rec	1	3/1/2016 6:55:46 PM	24002
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB	
Gasoline Range Organics (GRO)	ND	0.025	0.050		mg/L	1	3/3/2016 10:59:42 AM	A32557
Surr: BFB	93.1	0	49.5-130		%Rec	1	3/3/2016 10:59:42 AM	A32557
EPA METHOD 300.0: ANIONS							Analyst: JRR	
Fluoride	ND	0.45	2.0		mg/L	20	3/4/2016 5:21:20 PM	R32615
Chloride	15000	27	500		mg/L	1000	3/11/2016 4:46:49 AM	A32739
Bromide	12	0.65	2.0		mg/L	20	3/4/2016 5:21:20 PM	R32615
Phosphorus, Orthophosphate (As P)	ND	4.4	10	H	mg/L	20	3/4/2016 5:21:20 PM	R32615
Sulfate	1200	32	250		mg/L	500	3/9/2016 9:26:32 PM	R32693
Nitrate+Nitrite as N	ND	4.2	10		mg/L	50	3/9/2016 10:28:36 PM	R32693
EPA METHOD 200.7: DISSOLVED METALS							Analyst: ELS	
Barium	0.057	0.0013	0.0020		mg/L	1	3/11/2016 5:13:28 PM	C32754
Cadmium	ND	0.00075	0.0020		mg/L	1	3/11/2016 5:13:28 PM	C32754
Calcium	2500	26	100		mg/L	100	3/16/2016 2:08:06 PM	D32831
Chromium	ND	0.0018	0.0060		mg/L	1	3/11/2016 5:13:28 PM	C32754
Copper	ND	0.0040	0.0060		mg/L	1	3/15/2016 1:36:49 PM	A32792
Iron	0.041	0.0091	0.020		mg/L	1	3/15/2016 1:36:49 PM	A32792
Magnesium	410	0.065	5.0		mg/L	5	3/16/2016 2:06:03 PM	D32831
Manganese	12	0.016	0.10	*	mg/L	50	3/15/2016 1:41:07 PM	A32792
Potassium	11	0.18	1.0		mg/L	1	3/11/2016 5:13:28 PM	C32754
Silver	ND	0.0028	0.0050		mg/L	1	3/11/2016 5:13:28 PM	C32754
Sodium	6000	9.6	100		mg/L	100	3/16/2016 2:08:06 PM	D32831
Zinc	0.017	0.014	0.050	J	mg/L	5	3/16/2016 2:06:03 PM	D32831
EPA METHOD 200.7: TOTAL METALS							Analyst: ELS	
Barium	0.13	0.0053	0.010		mg/L	5	3/11/2016 3:57:50 PM	24015
Cadmium	ND	0.0031	0.010		mg/L	5	3/11/2016 3:57:50 PM	24015
Chromium	ND	0.011	0.030		mg/L	5	3/11/2016 3:57:50 PM	24015
Copper	ND	0.026	0.030		mg/L	5	3/14/2016 2:06:46 PM	24015
Iron	2.4	0.036	0.10	*	mg/L	5	3/11/2016 3:57:50 PM	24015
Manganese	12	0.030	0.040	*	mg/L	20	3/11/2016 3:59:50 PM	24015
Silver	ND	0.0021	0.0050		mg/L	1	3/23/2016 12:03:45 PM	24381
Zinc	0.022	0.019	0.050	J	mg/L	5	3/14/2016 2:06:46 PM	24015
EPA 200.8: DISSOLVED METALS							Analyst: JLF	
Arsenic	0.013	0.0065	0.10	J*	mg/L	100	3/24/2016 5:10:31 PM	B33051

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1602B49

Date Reported: 4/1/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-43

Project: Quarterly GW Sampling

Collection Date: 2/24/2016 1:40:00 PM

Lab ID: 1602B49-019

Matrix: AQUEOUS

Received Date: 2/26/2016 4:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA 200.8: DISSOLVED METALS							Analyst: JLF	
Lead	ND	0.0013	0.025		mg/L	50	3/22/2016 8:01:18 PM	C32978
Selenium	0.043	0.019	0.10	J	mg/L	100	3/24/2016 5:10:31 PM	B33051
Uranium	0.24	0.00024	0.025	*	mg/L	50	3/22/2016 8:01:18 PM	C32978
200.8 ICPMS METALS:TOTAL							Analyst: JLF	
Arsenic	ND	0.015	0.050		mg/L	50	3/11/2016 4:08:16 PM	24015
Lead	0.0038	0.0024	0.025	J	mg/L	50	3/11/2016 4:08:16 PM	24015
Selenium	0.030	0.0062	0.050	J	mg/L	50	3/11/2016 4:08:16 PM	24015
Uranium	0.22	0.00025	0.025	*	mg/L	50	3/11/2016 4:08:16 PM	24015
EPA METHOD 245.1: MERCURY							Analyst: DBD	
Mercury	ND	0.000053	0.00020		mg/L	1	3/2/2016 1:36:50 PM	24021
EPA METHOD 8270C: SEMIVOLATILES							Analyst: DAM	
Acenaphthene	ND	8.0	10		µg/L	1	3/13/2016 3:22:19 PM	24000
Acenaphthylene	ND	7.2	10		µg/L	1	3/13/2016 3:22:19 PM	24000
Aniline	ND	9.8	10		µg/L	1	3/13/2016 3:22:19 PM	24000
Anthracene	ND	6.6	10		µg/L	1	3/13/2016 3:22:19 PM	24000
Azobenzene	ND	9.3	10		µg/L	1	3/13/2016 3:22:19 PM	24000
Benz(a)anthracene	ND	6.1	10		µg/L	1	3/13/2016 3:22:19 PM	24000
Benzo(a)pyrene	ND	6.3	10		µg/L	1	3/13/2016 3:22:19 PM	24000
Benzo(b)fluoranthene	ND	6.6	10		µg/L	1	3/13/2016 3:22:19 PM	24000
Benzo(g,h,i)perylene	ND	6.8	10		µg/L	1	3/13/2016 3:22:19 PM	24000
Benzo(k)fluoranthene	ND	7.2	10		µg/L	1	3/13/2016 3:22:19 PM	24000
Benzoic acid	ND	9.8	20		µg/L	1	3/13/2016 3:22:19 PM	24000
Benzyl alcohol	ND	8.0	10		µg/L	1	3/13/2016 3:22:19 PM	24000
Bis(2-chloroethoxy)methane	ND	7.3	10		µg/L	1	3/13/2016 3:22:19 PM	24000
Bis(2-chloroethyl)ether	ND	8.3	10		µg/L	1	3/13/2016 3:22:19 PM	24000
Bis(2-chloroisopropyl)ether	ND	9.1	10		µg/L	1	3/13/2016 3:22:19 PM	24000
Bis(2-ethylhexyl)phthalate	ND	7.5	10		µg/L	1	3/13/2016 3:22:19 PM	24000
4-Bromophenyl phenyl ether	ND	8.6	10		µg/L	1	3/13/2016 3:22:19 PM	24000
Butyl benzyl phthalate	ND	7.8	10		µg/L	1	3/13/2016 3:22:19 PM	24000
Carbazole	ND	7.2	10		µg/L	1	3/13/2016 3:22:19 PM	24000
4-Chloro-3-methylphenol	ND	8.0	10		µg/L	1	3/13/2016 3:22:19 PM	24000
4-Chloroaniline	ND	7.1	10		µg/L	1	3/13/2016 3:22:19 PM	24000
2-Chloronaphthalene	ND	7.2	10		µg/L	1	3/13/2016 3:22:19 PM	24000
2-Chlorophenol	ND	8.7	10		µg/L	1	3/13/2016 3:22:19 PM	24000
4-Chlorophenyl phenyl ether	ND	8.2	10		µg/L	1	3/13/2016 3:22:19 PM	24000
Chrysene	ND	6.6	10		µg/L	1	3/13/2016 3:22:19 PM	24000
Di-n-butyl phthalate	ND	8.1	10		µg/L	1	3/13/2016 3:22:19 PM	24000
Di-n-octyl phthalate	ND	6.3	10		µg/L	1	3/13/2016 3:22:19 PM	24000

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1602B49

Date Reported: 4/1/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-43

Project: Quarterly GW Sampling

Collection Date: 2/24/2016 1:40:00 PM

Lab ID: 1602B49-019

Matrix: AQUEOUS

Received Date: 2/26/2016 4:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: DAM	
Dibenz(a,h)anthracene	ND	6.8	10		µg/L	1	3/13/2016 3:22:19 PM	24000
Dibenzofuran	ND	8.6	10		µg/L	1	3/13/2016 3:22:19 PM	24000
1,2-Dichlorobenzene	ND	6.4	10		µg/L	1	3/13/2016 3:22:19 PM	24000
1,3-Dichlorobenzene	ND	6.1	10		µg/L	1	3/13/2016 3:22:19 PM	24000
1,4-Dichlorobenzene	ND	6.3	10		µg/L	1	3/13/2016 3:22:19 PM	24000
3,3'-Dichlorobenzidine	ND	4.7	10		µg/L	1	3/13/2016 3:22:19 PM	24000
Diethyl phthalate	ND	8.2	10		µg/L	1	3/13/2016 3:22:19 PM	24000
Dimethyl phthalate	ND	7.5	10		µg/L	1	3/13/2016 3:22:19 PM	24000
2,4-Dichlorophenol	ND	7.6	20		µg/L	1	3/13/2016 3:22:19 PM	24000
2,4-Dimethylphenol	ND	4.7	10		µg/L	1	3/13/2016 3:22:19 PM	24000
4,6-Dinitro-2-methylphenol	ND	7.3	20		µg/L	1	3/13/2016 3:22:19 PM	24000
2,4-Dinitrophenol	ND	9.9	20		µg/L	1	3/13/2016 3:22:19 PM	24000
2,4-Dinitrotoluene	ND	8.5	10		µg/L	1	3/13/2016 3:22:19 PM	24000
2,6-Dinitrotoluene	ND	7.5	10		µg/L	1	3/13/2016 3:22:19 PM	24000
Fluoranthene	ND	6.1	10		µg/L	1	3/13/2016 3:22:19 PM	24000
Fluorene	ND	7.2	10		µg/L	1	3/13/2016 3:22:19 PM	24000
Hexachlorobenzene	ND	7.1	10		µg/L	1	3/13/2016 3:22:19 PM	24000
Hexachlorobutadiene	ND	5.2	10		µg/L	1	3/13/2016 3:22:19 PM	24000
Hexachlorocyclopentadiene	ND	5.2	10		µg/L	1	3/13/2016 3:22:19 PM	24000
Hexachloroethane	ND	5.8	10		µg/L	1	3/13/2016 3:22:19 PM	24000
Indeno(1,2,3-cd)pyrene	ND	5.6	10		µg/L	1	3/13/2016 3:22:19 PM	24000
Isophorone	ND	8.1	10		µg/L	1	3/13/2016 3:22:19 PM	24000
1-Methylnaphthalene	ND	6.8	10		µg/L	1	3/13/2016 3:22:19 PM	24000
2-Methylnaphthalene	ND	7.0	10		µg/L	1	3/13/2016 3:22:19 PM	24000
2-Methylphenol	ND	8.2	10		µg/L	1	3/13/2016 3:22:19 PM	24000
3+4-Methylphenol	ND	7.1	10		µg/L	1	3/13/2016 3:22:19 PM	24000
N-Nitrosodi-n-propylamine	ND	7.8	10		µg/L	1	3/13/2016 3:22:19 PM	24000
N-Nitrosodimethylamine	ND	9.1	10		µg/L	1	3/13/2016 3:22:19 PM	24000
N-Nitrosodiphenylamine	ND	6.2	10		µg/L	1	3/13/2016 3:22:19 PM	24000
Naphthalene	ND	5.9	10		µg/L	1	3/13/2016 3:22:19 PM	24000
2-Nitroaniline	ND	9.0	10		µg/L	1	3/13/2016 3:22:19 PM	24000
3-Nitroaniline	ND	8.8	10		µg/L	1	3/13/2016 3:22:19 PM	24000
4-Nitroaniline	ND	9.1	10		µg/L	1	3/13/2016 3:22:19 PM	24000
Nitrobenzene	ND	7.8	10		µg/L	1	3/13/2016 3:22:19 PM	24000
2-Nitrophenol	ND	7.6	10		µg/L	1	3/13/2016 3:22:19 PM	24000
4-Nitrophenol	ND	6.7	10		µg/L	1	3/13/2016 3:22:19 PM	24000
Pentachlorophenol	ND	7.6	20		µg/L	1	3/13/2016 3:22:19 PM	24000
Phenanthrene	ND	6.8	10		µg/L	1	3/13/2016 3:22:19 PM	24000
Phenol	ND	5.1	10		µg/L	1	3/13/2016 3:22:19 PM	24000

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1602B49

Date Reported: 4/1/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-43

Project: Quarterly GW Sampling

Collection Date: 2/24/2016 1:40:00 PM

Lab ID: 1602B49-019

Matrix: AQUEOUS

Received Date: 2/26/2016 4:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: DAM	
Pyrene	ND	5.5	10		µg/L	1	3/13/2016 3:22:19 PM	24000
Pyridine	ND	6.7	10		µg/L	1	3/13/2016 3:22:19 PM	24000
1,2,4-Trichlorobenzene	ND	6.2	10		µg/L	1	3/13/2016 3:22:19 PM	24000
2,4,5-Trichlorophenol	ND	8.4	10		µg/L	1	3/13/2016 3:22:19 PM	24000
2,4,6-Trichlorophenol	ND	8.8	10		µg/L	1	3/13/2016 3:22:19 PM	24000
Surr: 2-Fluorophenol	10.6	0	4.63-113		%Rec	1	3/13/2016 3:22:19 PM	24000
Surr: Phenol-d5	13.9	0	4.13-124		%Rec	1	3/13/2016 3:22:19 PM	24000
Surr: 2,4,6-Tribromophenol	22.5	0	5.14-132		%Rec	1	3/13/2016 3:22:19 PM	24000
Surr: Nitrobenzene-d5	73.3	0	9.13-140		%Rec	1	3/13/2016 3:22:19 PM	24000
Surr: 2-Fluorobiphenyl	69.0	0	10.8-132		%Rec	1	3/13/2016 3:22:19 PM	24000
Surr: 4-Terphenyl-d14	54.2	0	12.9-107		%Rec	1	3/13/2016 3:22:19 PM	24000
EPA METHOD 8260B: VOLATILES							Analyst: RAA	
Benzene	ND	0.096	1.0		µg/L	1	3/3/2016 10:01:01 PM	R32574
Toluene	ND	0.089	1.0		µg/L	1	3/3/2016 10:01:01 PM	R32574
Ethylbenzene	ND	0.11	1.0		µg/L	1	3/3/2016 10:01:01 PM	R32574
Methyl tert-butyl ether (MTBE)	ND	0.21	1.0		µg/L	1	3/3/2016 10:01:01 PM	R32574
1,2,4-Trimethylbenzene	ND	0.10	1.0		µg/L	1	3/3/2016 10:01:01 PM	R32574
1,3,5-Trimethylbenzene	ND	0.12	1.0		µg/L	1	3/3/2016 10:01:01 PM	R32574
1,2-Dichloroethane (EDC)	ND	0.053	1.0		µg/L	1	3/3/2016 10:01:01 PM	R32574
1,2-Dibromoethane (EDB)	ND	0.11	1.0		µg/L	1	3/3/2016 10:01:01 PM	R32574
Naphthalene	ND	0.083	2.0		µg/L	1	3/4/2016 2:41:19 PM	R32609
1-Methylnaphthalene	ND	0.20	4.0		µg/L	1	3/4/2016 2:41:19 PM	R32609
2-Methylnaphthalene	ND	0.16	4.0		µg/L	1	3/4/2016 2:41:19 PM	R32609
Acetone	2.3	0.88	10	J	µg/L	1	3/3/2016 10:01:01 PM	R32574
Bromobenzene	ND	0.080	1.0		µg/L	1	3/3/2016 10:01:01 PM	R32574
Bromodichloromethane	ND	0.098	1.0		µg/L	1	3/3/2016 10:01:01 PM	R32574
Bromoform	ND	0.10	1.0		µg/L	1	3/3/2016 10:01:01 PM	R32574
Bromomethane	ND	0.78	3.0		µg/L	1	3/3/2016 10:01:01 PM	R32574
2-Butanone	ND	0.32	10		µg/L	1	3/3/2016 10:01:01 PM	R32574
Carbon disulfide	ND	0.60	10		µg/L	1	3/3/2016 10:01:01 PM	R32574
Carbon Tetrachloride	ND	0.11	1.0		µg/L	1	3/3/2016 10:01:01 PM	R32574
Chlorobenzene	ND	0.10	1.0		µg/L	1	3/3/2016 10:01:01 PM	R32574
Chloroethane	ND	0.15	2.0		µg/L	1	3/3/2016 10:01:01 PM	R32574
Chloroform	0.18	0.089	1.0	J	µg/L	1	3/3/2016 10:01:01 PM	R32574
Chloromethane	ND	0.21	3.0		µg/L	1	3/3/2016 10:01:01 PM	R32574
2-Chlorotoluene	ND	0.40	1.0		µg/L	1	3/3/2016 10:01:01 PM	R32574
4-Chlorotoluene	ND	0.13	1.0		µg/L	1	3/3/2016 10:01:01 PM	R32574
cis-1,2-DCE	ND	0.12	1.0		µg/L	1	3/3/2016 10:01:01 PM	R32574
cis-1,3-Dichloropropene	ND	0.10	1.0		µg/L	1	3/3/2016 10:01:01 PM	R32574

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1602B49

Date Reported: 4/1/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-43

Project: Quarterly GW Sampling

Collection Date: 2/24/2016 1:40:00 PM

Lab ID: 1602B49-019

Matrix: AQUEOUS

Received Date: 2/26/2016 4:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: RAA	
1,2-Dibromo-3-chloropropane	ND	0.15	2.0		µg/L	1	3/3/2016 10:01:01 PM	R32574
Dibromochloromethane	ND	0.087	1.0		µg/L	1	3/3/2016 10:01:01 PM	R32574
Dibromomethane	ND	0.12	1.0		µg/L	1	3/3/2016 10:01:01 PM	R32574
1,2-Dichlorobenzene	ND	0.40	1.0		µg/L	1	3/3/2016 10:01:01 PM	R32574
1,3-Dichlorobenzene	ND	0.14	1.0		µg/L	1	3/3/2016 10:01:01 PM	R32574
1,4-Dichlorobenzene	ND	0.14	1.0		µg/L	1	3/3/2016 10:01:01 PM	R32574
Dichlorodifluoromethane	ND	0.32	1.0		µg/L	1	3/3/2016 10:01:01 PM	R32574
1,1-Dichloroethane	ND	0.11	1.0		µg/L	1	3/3/2016 10:01:01 PM	R32574
1,1-Dichloroethene	ND	0.076	1.0		µg/L	1	3/3/2016 10:01:01 PM	R32574
1,2-Dichloropropane	ND	0.047	1.0		µg/L	1	3/3/2016 10:01:01 PM	R32574
1,3-Dichloropropane	ND	0.16	1.0		µg/L	1	3/3/2016 10:01:01 PM	R32574
2,2-Dichloropropane	ND	0.12	2.0		µg/L	1	3/3/2016 10:01:01 PM	R32574
1,1-Dichloropropene	ND	0.13	1.0		µg/L	1	3/3/2016 10:01:01 PM	R32574
Hexachlorobutadiene	ND	0.20	1.0		µg/L	1	3/3/2016 10:01:01 PM	R32574
2-Hexanone	ND	0.36	10		µg/L	1	3/3/2016 10:01:01 PM	R32574
Isopropylbenzene	ND	0.098	1.0		µg/L	1	3/3/2016 10:01:01 PM	R32574
4-Isopropyltoluene	ND	0.14	1.0		µg/L	1	3/3/2016 10:01:01 PM	R32574
4-Methyl-2-pentanone	ND	0.15	10		µg/L	1	3/3/2016 10:01:01 PM	R32574
Methylene Chloride	ND	0.063	3.0		µg/L	1	3/3/2016 10:01:01 PM	R32574
n-Butylbenzene	ND	0.16	3.0		µg/L	1	3/3/2016 10:01:01 PM	R32574
n-Propylbenzene	ND	0.13	1.0		µg/L	1	3/3/2016 10:01:01 PM	R32574
sec-Butylbenzene	ND	0.11	1.0		µg/L	1	3/3/2016 10:01:01 PM	R32574
Styrene	ND	0.095	1.0		µg/L	1	3/3/2016 10:01:01 PM	R32574
tert-Butylbenzene	ND	0.096	1.0		µg/L	1	3/3/2016 10:01:01 PM	R32574
1,1,1,2-Tetrachloroethane	ND	0.11	1.0		µg/L	1	3/3/2016 10:01:01 PM	R32574
1,1,2,2-Tetrachloroethane	ND	0.11	2.0		µg/L	1	3/3/2016 10:01:01 PM	R32574
Tetrachloroethene (PCE)	ND	0.15	1.0		µg/L	1	3/3/2016 10:01:01 PM	R32574
trans-1,2-DCE	ND	0.40	1.0		µg/L	1	3/3/2016 10:01:01 PM	R32574
trans-1,3-Dichloropropene	ND	0.085	1.0		µg/L	1	3/3/2016 10:01:01 PM	R32574
1,2,3-Trichlorobenzene	ND	0.11	1.0		µg/L	1	3/3/2016 10:01:01 PM	R32574
1,2,4-Trichlorobenzene	ND	0.13	1.0		µg/L	1	3/3/2016 10:01:01 PM	R32574
1,1,1-Trichloroethane	ND	0.063	1.0		µg/L	1	3/3/2016 10:01:01 PM	R32574
1,1,2-Trichloroethane	ND	0.077	1.0		µg/L	1	3/3/2016 10:01:01 PM	R32574
Trichloroethene (TCE)	ND	0.18	1.0		µg/L	1	3/3/2016 10:01:01 PM	R32574
Trichlorofluoromethane	ND	0.088	1.0		µg/L	1	3/3/2016 10:01:01 PM	R32574
1,2,3-Trichloropropane	ND	0.11	2.0		µg/L	1	3/3/2016 10:01:01 PM	R32574
Vinyl chloride	ND	0.063	1.0		µg/L	1	3/3/2016 10:01:01 PM	R32574
Xylenes, Total	ND	0.32	1.5		µg/L	1	3/3/2016 10:01:01 PM	R32574
Surr: 1,2-Dichloroethane-d4	99.8	0	70-130		%Rec	1	3/3/2016 10:01:01 PM	R32574

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Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1602B49

Date Reported: 4/1/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-43

Project: Quarterly GW Sampling

Collection Date: 2/24/2016 1:40:00 PM

Lab ID: 1602B49-019

Matrix: AQUEOUS

Received Date: 2/26/2016 4:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: RAA	
Surr: 4-Bromofluorobenzene	97.5	0	70-130		%Rec	1	3/3/2016 10:01:01 PM	R32574
Surr: Dibromofluoromethane	108	0	70-130		%Rec	1	3/3/2016 10:01:01 PM	R32574
Surr: Toluene-d8	105	0	70-130		%Rec	1	3/3/2016 10:01:01 PM	R32574

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
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	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1602B49

Date Reported: 4/1/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-42

Project: Quarterly GW Sampling

Collection Date: 2/24/2016 2:50:00 PM

Lab ID: 1602B49-020

Matrix: AQUEOUS

Received Date: 2/26/2016 4:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015M/D: DIESEL RANGE							Analyst: KJH	
Diesel Range Organics (DRO)	52	0.69	1.0		mg/L	1	3/1/2016 7:17:21 PM	24002
Motor Oil Range Organics (MRO)	ND	5.0	5.0		mg/L	1	3/1/2016 7:17:21 PM	24002
Surr: DNOP	97.7	0	70-141		%Rec	1	3/1/2016 7:17:21 PM	24002
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB	
Gasoline Range Organics (GRO)	0.12	0.025	0.050		mg/L	1	3/3/2016 11:24:28 AM	A32557
Surr: BFB	104	0	49.5-130		%Rec	1	3/3/2016 11:24:28 AM	A32557
EPA METHOD 300.0: ANIONS							Analyst: JRR	
Fluoride	0.69	0.11	0.50		mg/L	5	3/4/2016 5:33:44 PM	R32615
Chloride	860	2.7	50		mg/L	100	3/9/2016 9:38:57 PM	R32693
Bromide	2.0	0.16	0.50		mg/L	5	3/4/2016 5:33:44 PM	R32615
Phosphorus, Orthophosphate (As P)	ND	1.1	2.5	H	mg/L	5	3/4/2016 5:33:44 PM	R32615
Sulfate	120	0.32	2.5		mg/L	5	3/4/2016 5:33:44 PM	R32615
Nitrate+Nitrite as N	ND	0.42	1.0		mg/L	5	3/1/2016 3:13:22 PM	R32498
EPA METHOD 200.7: DISSOLVED METALS							Analyst: ELS	
Barium	0.073	0.0013	0.0020		mg/L	1	3/11/2016 5:15:39 PM	C32754
Cadmium	ND	0.00075	0.0020		mg/L	1	3/11/2016 5:15:39 PM	C32754
Calcium	20	0.26	1.0		mg/L	1	3/11/2016 5:15:39 PM	C32754
Chromium	ND	0.0018	0.0060		mg/L	1	3/11/2016 5:15:39 PM	C32754
Copper	ND	0.0040	0.0060		mg/L	1	3/15/2016 1:44:54 PM	A32792
Iron	0.19	0.0091	0.020		mg/L	1	3/15/2016 1:44:54 PM	A32792
Magnesium	2.5	0.013	1.0		mg/L	1	3/11/2016 5:15:39 PM	C32754
Manganese	0.44	0.00032	0.0020	*	mg/L	1	3/11/2016 5:15:39 PM	C32754
Potassium	2.3	0.18	1.0		mg/L	1	3/11/2016 5:15:39 PM	C32754
Silver	ND	0.0028	0.0050		mg/L	1	3/11/2016 5:15:39 PM	C32754
Sodium	680	0.96	10		mg/L	10	3/16/2016 2:17:27 PM	D32831
Zinc	0.0099	0.0028	0.010	J	mg/L	1	3/16/2016 2:15:32 PM	D32831
EPA METHOD 200.7: TOTAL METALS							Analyst: ELS	
Barium	0.092	0.0011	0.0020		mg/L	1	3/11/2016 4:01:44 PM	24015
Cadmium	ND	0.00062	0.0020		mg/L	1	3/11/2016 4:01:44 PM	24015
Chromium	ND	0.0022	0.0060		mg/L	1	3/11/2016 4:01:44 PM	24015
Copper	0.010	0.0051	0.0060		mg/L	1	3/14/2016 2:08:46 PM	24015
Iron	0.89	0.0072	0.020	*	mg/L	1	3/11/2016 4:01:44 PM	24015
Manganese	0.41	0.0015	0.0020	*	mg/L	1	3/11/2016 4:01:44 PM	24015
Silver	ND	0.0021	0.0050		mg/L	1	3/23/2016 12:07:20 PM	24381
Zinc	0.0061	0.0039	0.010	J	mg/L	1	3/14/2016 2:08:46 PM	24015
EPA 200.8: DISSOLVED METALS							Analyst: JLF	
Arsenic	0.0029	0.000065	0.0010		mg/L	1	3/15/2016 6:13:32 PM	C32805

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Analytical Report

Lab Order 1602B49

Date Reported: 4/1/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-42

Project: Quarterly GW Sampling

Collection Date: 2/24/2016 2:50:00 PM

Lab ID: 1602B49-020

Matrix: AQUEOUS

Received Date: 2/26/2016 4:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA 200.8: DISSOLVED METALS							Analyst: JLF	
Lead	0.00016	0.000026	0.00050	J	mg/L	1	3/15/2016 6:13:32 PM	C32805
Selenium	0.0071	0.00097	0.0050		mg/L	5	3/22/2016 8:04:21 PM	C32978
Uranium	0.025	0.000024	0.0025		mg/L	5	3/22/2016 8:04:21 PM	C32978
200.8 ICPMS METALS:TOTAL							Analyst: JLF	
Arsenic	0.0026	0.00029	0.0010		mg/L	1	3/11/2016 2:03:40 PM	24015
Lead	0.0015	0.000047	0.00050		mg/L	1	3/11/2016 2:03:40 PM	24015
Selenium	0.0035	0.00062	0.0050	J	mg/L	5	3/11/2016 4:11:17 PM	24015
Uranium	0.023	0.000025	0.0025		mg/L	5	3/11/2016 4:11:17 PM	24015
EPA METHOD 245.1: MERCURY							Analyst: DBD	
Mercury	ND	0.000053	0.00020		mg/L	1	3/2/2016 1:38:51 PM	24021
EPA METHOD 8270C: SEMIVOLATILES							Analyst: DAM	
Acenaphthene	ND	80	100	D	µg/L	10	3/4/2016 2:12:19 PM	24000
Acenaphthylene	ND	72	100	D	µg/L	10	3/4/2016 2:12:19 PM	24000
Aniline	ND	98	100	D	µg/L	10	3/4/2016 2:12:19 PM	24000
Anthracene	ND	66	100	D	µg/L	10	3/4/2016 2:12:19 PM	24000
Azobenzene	ND	93	100	D	µg/L	10	3/4/2016 2:12:19 PM	24000
Benz(a)anthracene	ND	61	100	D	µg/L	10	3/4/2016 2:12:19 PM	24000
Benzo(a)pyrene	ND	63	100	D	µg/L	10	3/4/2016 2:12:19 PM	24000
Benzo(b)fluoranthene	ND	66	100	D	µg/L	10	3/4/2016 2:12:19 PM	24000
Benzo(g,h,i)perylene	ND	68	100	D	µg/L	10	3/4/2016 2:12:19 PM	24000
Benzo(k)fluoranthene	ND	72	100	D	µg/L	10	3/4/2016 2:12:19 PM	24000
Benzoic acid	ND	98	200	D	µg/L	10	3/4/2016 2:12:19 PM	24000
Benzyl alcohol	ND	80	100	D	µg/L	10	3/4/2016 2:12:19 PM	24000
Bis(2-chloroethoxy)methane	ND	73	100	D	µg/L	10	3/4/2016 2:12:19 PM	24000
Bis(2-chloroethyl)ether	ND	83	100	D	µg/L	10	3/4/2016 2:12:19 PM	24000
Bis(2-chloroisopropyl)ether	ND	91	100	D	µg/L	10	3/4/2016 2:12:19 PM	24000
Bis(2-ethylhexyl)phthalate	ND	75	100	D	µg/L	10	3/4/2016 2:12:19 PM	24000
4-Bromophenyl phenyl ether	ND	86	100	D	µg/L	10	3/4/2016 2:12:19 PM	24000
Butyl benzyl phthalate	ND	78	100	D	µg/L	10	3/4/2016 2:12:19 PM	24000
Carbazole	ND	72	100	D	µg/L	10	3/4/2016 2:12:19 PM	24000
4-Chloro-3-methylphenol	ND	80	100	D	µg/L	10	3/4/2016 2:12:19 PM	24000
4-Chloroaniline	ND	71	100	D	µg/L	10	3/4/2016 2:12:19 PM	24000
2-Chloronaphthalene	ND	72	100	D	µg/L	10	3/4/2016 2:12:19 PM	24000
2-Chlorophenol	ND	87	100	D	µg/L	10	3/4/2016 2:12:19 PM	24000
4-Chlorophenyl phenyl ether	ND	82	100	D	µg/L	10	3/4/2016 2:12:19 PM	24000
Chrysene	ND	66	100	D	µg/L	10	3/4/2016 2:12:19 PM	24000
Di-n-butyl phthalate	ND	81	100	D	µg/L	10	3/4/2016 2:12:19 PM	24000
Di-n-octyl phthalate	ND	63	100	D	µg/L	10	3/4/2016 2:12:19 PM	24000

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Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1602B49

Date Reported: 4/1/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-42

Project: Quarterly GW Sampling

Collection Date: 2/24/2016 2:50:00 PM

Lab ID: 1602B49-020

Matrix: AQUEOUS

Received Date: 2/26/2016 4:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: DAM	
Dibenz(a,h)anthracene	ND	68	100	D	µg/L	10	3/4/2016 2:12:19 PM	24000
Dibenzofuran	ND	86	100	D	µg/L	10	3/4/2016 2:12:19 PM	24000
1,2-Dichlorobenzene	ND	64	100	D	µg/L	10	3/4/2016 2:12:19 PM	24000
1,3-Dichlorobenzene	ND	61	100	D	µg/L	10	3/4/2016 2:12:19 PM	24000
1,4-Dichlorobenzene	ND	63	100	D	µg/L	10	3/4/2016 2:12:19 PM	24000
3,3'-Dichlorobenzidine	ND	47	100	D	µg/L	10	3/4/2016 2:12:19 PM	24000
Diethyl phthalate	ND	82	100	D	µg/L	10	3/4/2016 2:12:19 PM	24000
Dimethyl phthalate	ND	75	100	D	µg/L	10	3/4/2016 2:12:19 PM	24000
2,4-Dichlorophenol	ND	76	200	D	µg/L	10	3/4/2016 2:12:19 PM	24000
2,4-Dimethylphenol	ND	47	100	D	µg/L	10	3/4/2016 2:12:19 PM	24000
4,6-Dinitro-2-methylphenol	ND	73	200	D	µg/L	10	3/4/2016 2:12:19 PM	24000
2,4-Dinitrophenol	ND	99	200	D	µg/L	10	3/4/2016 2:12:19 PM	24000
2,4-Dinitrotoluene	ND	85	100	D	µg/L	10	3/4/2016 2:12:19 PM	24000
2,6-Dinitrotoluene	ND	75	100	D	µg/L	10	3/4/2016 2:12:19 PM	24000
Fluoranthene	ND	61	100	D	µg/L	10	3/4/2016 2:12:19 PM	24000
Fluorene	ND	72	100	D	µg/L	10	3/4/2016 2:12:19 PM	24000
Hexachlorobenzene	ND	71	100	D	µg/L	10	3/4/2016 2:12:19 PM	24000
Hexachlorobutadiene	ND	52	100	D	µg/L	10	3/4/2016 2:12:19 PM	24000
Hexachlorocyclopentadiene	ND	52	100	D	µg/L	10	3/4/2016 2:12:19 PM	24000
Hexachloroethane	ND	58	100	D	µg/L	10	3/4/2016 2:12:19 PM	24000
Indeno(1,2,3-cd)pyrene	ND	56	100	D	µg/L	10	3/4/2016 2:12:19 PM	24000
Isophorone	ND	81	100	D	µg/L	10	3/4/2016 2:12:19 PM	24000
1-Methylnaphthalene	270	68	100	D	µg/L	10	3/4/2016 2:12:19 PM	24000
2-Methylnaphthalene	ND	70	100	D	µg/L	10	3/4/2016 2:12:19 PM	24000
2-Methylphenol	ND	82	100	D	µg/L	10	3/4/2016 2:12:19 PM	24000
3+4-Methylphenol	ND	71	100	D	µg/L	10	3/4/2016 2:12:19 PM	24000
N-Nitrosodi-n-propylamine	ND	78	100	D	µg/L	10	3/4/2016 2:12:19 PM	24000
N-Nitrosodimethylamine	ND	91	100	D	µg/L	10	3/4/2016 2:12:19 PM	24000
N-Nitrosodiphenylamine	ND	62	100	D	µg/L	10	3/4/2016 2:12:19 PM	24000
Naphthalene	ND	59	100	D	µg/L	10	3/4/2016 2:12:19 PM	24000
2-Nitroaniline	ND	90	100	D	µg/L	10	3/4/2016 2:12:19 PM	24000
3-Nitroaniline	ND	88	100	D	µg/L	10	3/4/2016 2:12:19 PM	24000
4-Nitroaniline	ND	91	100	D	µg/L	10	3/4/2016 2:12:19 PM	24000
Nitrobenzene	ND	78	100	D	µg/L	10	3/4/2016 2:12:19 PM	24000
2-Nitrophenol	ND	76	100	D	µg/L	10	3/4/2016 2:12:19 PM	24000
4-Nitrophenol	ND	67	100	D	µg/L	10	3/4/2016 2:12:19 PM	24000
Pentachlorophenol	ND	76	200	D	µg/L	10	3/4/2016 2:12:19 PM	24000
Phenanthrene	ND	68	100	D	µg/L	10	3/4/2016 2:12:19 PM	24000
Phenol	ND	51	100	D	µg/L	10	3/4/2016 2:12:19 PM	24000

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Analytical Report

Lab Order 1602B49

Date Reported: 4/1/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-42

Project: Quarterly GW Sampling

Collection Date: 2/24/2016 2:50:00 PM

Lab ID: 1602B49-020

Matrix: AQUEOUS

Received Date: 2/26/2016 4:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: DAM	
Pyrene	ND	55	100	D	µg/L	10	3/4/2016 2:12:19 PM	24000
Pyridine	ND	67	100	D	µg/L	10	3/4/2016 2:12:19 PM	24000
1,2,4-Trichlorobenzene	ND	62	100	D	µg/L	10	3/4/2016 2:12:19 PM	24000
2,4,5-Trichlorophenol	ND	84	100	D	µg/L	10	3/4/2016 2:12:19 PM	24000
2,4,6-Trichlorophenol	ND	88	100	D	µg/L	10	3/4/2016 2:12:19 PM	24000
Surr: 2-Fluorophenol	31.7	0	4.63-113	D	%Rec	10	3/4/2016 2:12:19 PM	24000
Surr: Phenol-d5	33.0	0	4.13-124	D	%Rec	10	3/4/2016 2:12:19 PM	24000
Surr: 2,4,6-Tribromophenol	57.0	0	5.14-132	D	%Rec	10	3/4/2016 2:12:19 PM	24000
Surr: Nitrobenzene-d5	95.2	0	9.13-140	D	%Rec	10	3/4/2016 2:12:19 PM	24000
Surr: 2-Fluorobiphenyl	91.4	0	10.8-132	D	%Rec	10	3/4/2016 2:12:19 PM	24000
Surr: 4-Terphenyl-d14	73.8	0	12.9-107	D	%Rec	10	3/4/2016 2:12:19 PM	24000
EPA METHOD 8260B: VOLATILES							Analyst: RAA	
Benzene	4.1	0.096	1.0		µg/L	1	3/3/2016 10:29:49 PM	R32574
Toluene	0.22	0.089	1.0	J	µg/L	1	3/3/2016 10:29:49 PM	R32574
Ethylbenzene	1.1	0.11	1.0		µg/L	1	3/3/2016 10:29:49 PM	R32574
Methyl tert-butyl ether (MTBE)	ND	0.21	1.0		µg/L	1	3/3/2016 10:29:49 PM	R32574
1,2,4-Trimethylbenzene	6.6	0.10	1.0		µg/L	1	3/3/2016 10:29:49 PM	R32574
1,3,5-Trimethylbenzene	3.8	0.12	1.0		µg/L	1	3/3/2016 10:29:49 PM	R32574
1,2-Dichloroethane (EDC)	0.79	0.053	1.0	J	µg/L	1	3/3/2016 10:29:49 PM	R32574
1,2-Dibromoethane (EDB)	ND	0.11	1.0		µg/L	1	3/3/2016 10:29:49 PM	R32574
Naphthalene	28	0.083	2.0		µg/L	1	3/3/2016 10:29:49 PM	R32574
1-Methylnaphthalene	16	0.20	4.0		µg/L	1	3/3/2016 10:29:49 PM	R32574
2-Methylnaphthalene	11	0.16	4.0		µg/L	1	3/3/2016 10:29:49 PM	R32574
Acetone	23	0.88	10		µg/L	1	3/3/2016 10:29:49 PM	R32574
Bromobenzene	ND	0.080	1.0		µg/L	1	3/3/2016 10:29:49 PM	R32574
Bromodichloromethane	ND	0.098	1.0		µg/L	1	3/3/2016 10:29:49 PM	R32574
Bromoform	ND	0.10	1.0		µg/L	1	3/3/2016 10:29:49 PM	R32574
Bromomethane	1.6	0.78	3.0	J	µg/L	1	3/4/2016 3:10:02 PM	R32609
2-Butanone	5.6	0.32	10	J	µg/L	1	3/3/2016 10:29:49 PM	R32574
Carbon disulfide	ND	0.60	10		µg/L	1	3/3/2016 10:29:49 PM	R32574
Carbon Tetrachloride	ND	0.11	1.0		µg/L	1	3/3/2016 10:29:49 PM	R32574
Chlorobenzene	ND	0.10	1.0		µg/L	1	3/3/2016 10:29:49 PM	R32574
Chloroethane	ND	0.15	2.0		µg/L	1	3/3/2016 10:29:49 PM	R32574
Chloroform	ND	0.089	1.0		µg/L	1	3/3/2016 10:29:49 PM	R32574
Chloromethane	ND	0.21	3.0		µg/L	1	3/3/2016 10:29:49 PM	R32574
2-Chlorotoluene	ND	0.40	1.0		µg/L	1	3/3/2016 10:29:49 PM	R32574
4-Chlorotoluene	ND	0.13	1.0		µg/L	1	3/3/2016 10:29:49 PM	R32574
cis-1,2-DCE	ND	0.12	1.0		µg/L	1	3/3/2016 10:29:49 PM	R32574
cis-1,3-Dichloropropene	ND	0.10	1.0		µg/L	1	3/3/2016 10:29:49 PM	R32574

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Matrix: AQUEOUS

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Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: RAA	
1,2-Dibromo-3-chloropropane	ND	0.15	2.0		µg/L	1	3/3/2016 10:29:49 PM	R32574
Dibromochloromethane	ND	0.087	1.0		µg/L	1	3/3/2016 10:29:49 PM	R32574
Dibromomethane	ND	0.12	1.0		µg/L	1	3/3/2016 10:29:49 PM	R32574
1,2-Dichlorobenzene	ND	0.40	1.0		µg/L	1	3/3/2016 10:29:49 PM	R32574
1,3-Dichlorobenzene	ND	0.14	1.0		µg/L	1	3/3/2016 10:29:49 PM	R32574
1,4-Dichlorobenzene	ND	0.14	1.0		µg/L	1	3/3/2016 10:29:49 PM	R32574
Dichlorodifluoromethane	ND	0.32	1.0		µg/L	1	3/3/2016 10:29:49 PM	R32574
1,1-Dichloroethane	ND	0.11	1.0		µg/L	1	3/3/2016 10:29:49 PM	R32574
1,1-Dichloroethene	ND	0.076	1.0		µg/L	1	3/3/2016 10:29:49 PM	R32574
1,2-Dichloropropane	ND	0.047	1.0		µg/L	1	3/3/2016 10:29:49 PM	R32574
1,3-Dichloropropane	ND	0.16	1.0		µg/L	1	3/3/2016 10:29:49 PM	R32574
2,2-Dichloropropane	ND	0.12	2.0		µg/L	1	3/3/2016 10:29:49 PM	R32574
1,1-Dichloropropene	ND	0.13	1.0		µg/L	1	3/3/2016 10:29:49 PM	R32574
Hexachlorobutadiene	ND	0.20	1.0		µg/L	1	3/3/2016 10:29:49 PM	R32574
2-Hexanone	1.6	0.36	10	J	µg/L	1	3/3/2016 10:29:49 PM	R32574
Isopropylbenzene	0.31	0.098	1.0	J	µg/L	1	3/3/2016 10:29:49 PM	R32574
4-Isopropyltoluene	1.1	0.14	1.0		µg/L	1	3/3/2016 10:29:49 PM	R32574
4-Methyl-2-pentanone	1.8	0.15	10	J	µg/L	1	3/3/2016 10:29:49 PM	R32574
Methylene Chloride	ND	0.063	3.0		µg/L	1	3/3/2016 10:29:49 PM	R32574
n-Butylbenzene	ND	0.16	3.0		µg/L	1	3/3/2016 10:29:49 PM	R32574
n-Propylbenzene	0.39	0.13	1.0	J	µg/L	1	3/3/2016 10:29:49 PM	R32574
sec-Butylbenzene	0.17	0.11	1.0	J	µg/L	1	3/3/2016 10:29:49 PM	R32574
Styrene	ND	0.095	1.0		µg/L	1	3/3/2016 10:29:49 PM	R32574
tert-Butylbenzene	ND	0.096	1.0		µg/L	1	3/3/2016 10:29:49 PM	R32574
1,1,1,2-Tetrachloroethane	ND	0.11	1.0		µg/L	1	3/3/2016 10:29:49 PM	R32574
1,1,2,2-Tetrachloroethane	ND	0.11	2.0		µg/L	1	3/3/2016 10:29:49 PM	R32574
Tetrachloroethene (PCE)	ND	0.15	1.0		µg/L	1	3/3/2016 10:29:49 PM	R32574
trans-1,2-DCE	ND	0.40	1.0		µg/L	1	3/3/2016 10:29:49 PM	R32574
trans-1,3-Dichloropropene	ND	0.085	1.0		µg/L	1	3/3/2016 10:29:49 PM	R32574
1,2,3-Trichlorobenzene	ND	0.11	1.0		µg/L	1	3/3/2016 10:29:49 PM	R32574
1,2,4-Trichlorobenzene	ND	0.13	1.0		µg/L	1	3/3/2016 10:29:49 PM	R32574
1,1,1-Trichloroethane	ND	0.063	1.0		µg/L	1	3/3/2016 10:29:49 PM	R32574
1,1,2-Trichloroethane	ND	0.077	1.0		µg/L	1	3/3/2016 10:29:49 PM	R32574
Trichloroethene (TCE)	ND	0.18	1.0		µg/L	1	3/3/2016 10:29:49 PM	R32574
Trichlorofluoromethane	ND	0.088	1.0		µg/L	1	3/3/2016 10:29:49 PM	R32574
1,2,3-Trichloropropane	ND	0.11	2.0		µg/L	1	3/3/2016 10:29:49 PM	R32574
Vinyl chloride	ND	0.063	1.0		µg/L	1	3/3/2016 10:29:49 PM	R32574
Xylenes, Total	26	0.32	1.5		µg/L	1	3/3/2016 10:29:49 PM	R32574
Surr: 1,2-Dichloroethane-d4	97.5	0	70-130		%Rec	1	3/3/2016 10:29:49 PM	R32574

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1602B49

Date Reported: 4/1/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-42

Project: Quarterly GW Sampling

Collection Date: 2/24/2016 2:50:00 PM

Lab ID: 1602B49-020

Matrix: AQUEOUS

Received Date: 2/26/2016 4:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: RAA	
Surr: 4-Bromofluorobenzene	114	0	70-130		%Rec	1	3/3/2016 10:29:49 PM	R32574
Surr: Dibromofluoromethane	105	0	70-130		%Rec	1	3/3/2016 10:29:49 PM	R32574
Surr: Toluene-d8	105	0	70-130		%Rec	1	3/3/2016 10:29:49 PM	R32574

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1602B49

Date Reported: 4/1/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: TRIP BLANK

Project: Quarterly GW Sampling

Collection Date:

Lab ID: 1602B49-021

Matrix: TRIP BLANK

Received Date: 2/26/2016 4:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB	
Gasoline Range Organics (GRO)	ND	0.025	0.050		mg/L	1	3/3/2016 11:49:12 AM	A32557
Surr: BFB	82.6	0	49.5-130		%Rec	1	3/3/2016 11:49:12 AM	A32557
EPA METHOD 8260B: VOLATILES							Analyst: RAA	
Benzene	ND	0.096	1.0		µg/L	1	3/4/2016 3:46:18 AM	B32574
Toluene	ND	0.089	1.0		µg/L	1	3/4/2016 3:46:18 AM	B32574
Ethylbenzene	ND	0.11	1.0		µg/L	1	3/4/2016 3:46:18 AM	B32574
Methyl tert-butyl ether (MTBE)	ND	0.21	1.0		µg/L	1	3/4/2016 3:46:18 AM	B32574
1,2,4-Trimethylbenzene	ND	0.10	1.0		µg/L	1	3/4/2016 3:46:18 AM	B32574
1,3,5-Trimethylbenzene	ND	0.12	1.0		µg/L	1	3/4/2016 3:46:18 AM	B32574
1,2-Dichloroethane (EDC)	ND	0.053	1.0		µg/L	1	3/4/2016 3:46:18 AM	B32574
1,2-Dibromoethane (EDB)	ND	0.11	1.0		µg/L	1	3/4/2016 3:46:18 AM	B32574
Naphthalene	ND	0.083	2.0		µg/L	1	3/4/2016 3:46:18 AM	B32574
1-Methylnaphthalene	ND	0.20	4.0		µg/L	1	3/4/2016 3:46:18 AM	B32574
2-Methylnaphthalene	ND	0.16	4.0		µg/L	1	3/4/2016 3:46:18 AM	B32574
Acetone	ND	0.88	10		µg/L	1	3/4/2016 3:46:18 AM	B32574
Bromobenzene	ND	0.080	1.0		µg/L	1	3/4/2016 3:46:18 AM	B32574
Bromodichloromethane	ND	0.098	1.0		µg/L	1	3/4/2016 3:46:18 AM	B32574
Bromoform	ND	0.10	1.0		µg/L	1	3/4/2016 3:46:18 AM	B32574
Bromomethane	ND	0.78	3.0		µg/L	1	3/4/2016 3:46:18 AM	B32574
2-Butanone	ND	0.32	10		µg/L	1	3/4/2016 3:46:18 AM	B32574
Carbon disulfide	ND	0.60	10		µg/L	1	3/4/2016 3:46:18 AM	B32574
Carbon Tetrachloride	ND	0.11	1.0		µg/L	1	3/4/2016 3:46:18 AM	B32574
Chlorobenzene	ND	0.10	1.0		µg/L	1	3/4/2016 3:46:18 AM	B32574
Chloroethane	ND	0.15	2.0		µg/L	1	3/4/2016 3:46:18 AM	B32574
Chloroform	ND	0.089	1.0		µg/L	1	3/4/2016 3:46:18 AM	B32574
Chloromethane	ND	0.21	3.0		µg/L	1	3/4/2016 3:46:18 AM	B32574
2-Chlorotoluene	ND	0.40	1.0		µg/L	1	3/4/2016 3:46:18 AM	B32574
4-Chlorotoluene	ND	0.13	1.0		µg/L	1	3/4/2016 3:46:18 AM	B32574
cis-1,2-DCE	ND	0.12	1.0		µg/L	1	3/4/2016 3:46:18 AM	B32574
cis-1,3-Dichloropropene	ND	0.10	1.0		µg/L	1	3/4/2016 3:46:18 AM	B32574
1,2-Dibromo-3-chloropropane	ND	0.15	2.0		µg/L	1	3/4/2016 3:46:18 AM	B32574
Dibromochloromethane	ND	0.087	1.0		µg/L	1	3/4/2016 3:46:18 AM	B32574
Dibromomethane	ND	0.12	1.0		µg/L	1	3/4/2016 3:46:18 AM	B32574
1,2-Dichlorobenzene	ND	0.40	1.0		µg/L	1	3/4/2016 3:46:18 AM	B32574
1,3-Dichlorobenzene	ND	0.14	1.0		µg/L	1	3/4/2016 3:46:18 AM	B32574
1,4-Dichlorobenzene	ND	0.14	1.0		µg/L	1	3/4/2016 3:46:18 AM	B32574
Dichlorodifluoromethane	ND	0.32	1.0		µg/L	1	3/4/2016 3:46:18 AM	B32574
1,1-Dichloroethane	ND	0.11	1.0		µg/L	1	3/4/2016 3:46:18 AM	B32574
1,1-Dichloroethene	ND	0.076	1.0		µg/L	1	3/4/2016 3:46:18 AM	B32574

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1602B49

Date Reported: 4/1/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: TRIP BLANK

Project: Quarterly GW Sampling

Collection Date:

Lab ID: 1602B49-021

Matrix: TRIP BLANK

Received Date: 2/26/2016 4:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: RAA	
1,2-Dichloropropane	ND	0.047	1.0		µg/L	1	3/4/2016 3:46:18 AM	B32574
1,3-Dichloropropane	ND	0.16	1.0		µg/L	1	3/4/2016 3:46:18 AM	B32574
2,2-Dichloropropane	ND	0.12	2.0		µg/L	1	3/4/2016 3:46:18 AM	B32574
1,1-Dichloropropene	ND	0.13	1.0		µg/L	1	3/4/2016 3:46:18 AM	B32574
Hexachlorobutadiene	ND	0.20	1.0		µg/L	1	3/4/2016 3:46:18 AM	B32574
2-Hexanone	ND	0.36	10		µg/L	1	3/4/2016 3:46:18 AM	B32574
Isopropylbenzene	ND	0.098	1.0		µg/L	1	3/4/2016 3:46:18 AM	B32574
4-Isopropyltoluene	ND	0.14	1.0		µg/L	1	3/4/2016 3:46:18 AM	B32574
4-Methyl-2-pentanone	ND	0.15	10		µg/L	1	3/4/2016 3:46:18 AM	B32574
Methylene Chloride	ND	0.063	3.0		µg/L	1	3/4/2016 3:46:18 AM	B32574
n-Butylbenzene	ND	0.16	3.0		µg/L	1	3/4/2016 3:46:18 AM	B32574
n-Propylbenzene	ND	0.13	1.0		µg/L	1	3/4/2016 3:46:18 AM	B32574
sec-Butylbenzene	ND	0.11	1.0		µg/L	1	3/4/2016 3:46:18 AM	B32574
Styrene	ND	0.095	1.0		µg/L	1	3/4/2016 3:46:18 AM	B32574
tert-Butylbenzene	ND	0.096	1.0		µg/L	1	3/4/2016 3:46:18 AM	B32574
1,1,1,2-Tetrachloroethane	ND	0.11	1.0		µg/L	1	3/4/2016 3:46:18 AM	B32574
1,1,2,2-Tetrachloroethane	ND	0.11	2.0		µg/L	1	3/4/2016 3:46:18 AM	B32574
Tetrachloroethene (PCE)	ND	0.15	1.0		µg/L	1	3/4/2016 3:46:18 AM	B32574
trans-1,2-DCE	ND	0.40	1.0		µg/L	1	3/4/2016 3:46:18 AM	B32574
trans-1,3-Dichloropropene	ND	0.085	1.0		µg/L	1	3/4/2016 3:46:18 AM	B32574
1,2,3-Trichlorobenzene	ND	0.11	1.0		µg/L	1	3/4/2016 3:46:18 AM	B32574
1,2,4-Trichlorobenzene	ND	0.13	1.0		µg/L	1	3/4/2016 3:46:18 AM	B32574
1,1,1-Trichloroethane	ND	0.063	1.0		µg/L	1	3/4/2016 3:46:18 AM	B32574
1,1,2-Trichloroethane	ND	0.077	1.0		µg/L	1	3/4/2016 3:46:18 AM	B32574
Trichloroethene (TCE)	ND	0.18	1.0		µg/L	1	3/4/2016 3:46:18 AM	B32574
Trichlorofluoromethane	ND	0.088	1.0		µg/L	1	3/4/2016 3:46:18 AM	B32574
1,2,3-Trichloropropane	ND	0.11	2.0		µg/L	1	3/4/2016 3:46:18 AM	B32574
Vinyl chloride	ND	0.063	1.0		µg/L	1	3/4/2016 3:46:18 AM	B32574
Xylenes, Total	ND	0.32	1.5		µg/L	1	3/4/2016 3:46:18 AM	B32574
Surr: 1,2-Dichloroethane-d4	98.3	0	70-130		%Rec	1	3/4/2016 3:46:18 AM	B32574
Surr: 4-Bromofluorobenzene	98.6	0	70-130		%Rec	1	3/4/2016 3:46:18 AM	B32574
Surr: Dibromofluoromethane	104	0	70-130		%Rec	1	3/4/2016 3:46:18 AM	B32574
Surr: Toluene-d8	111	0	70-130		%Rec	1	3/4/2016 3:46:18 AM	B32574

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	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	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1602B49

01-Apr-16

Client: Western Refining Southwest, Gallup

Project: Quarterly GW Sampling

Sample ID MB-C	SampType: MBLK			TestCode: EPA Method 200.7: Dissolved Metals						
Client ID: PBW	Batch ID: C32754			RunNo: 32754						
Prep Date:	Analysis Date: 3/11/2016			SeqNo: 1002498			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								
Iron	ND	0.020								
Magnesium	ND	1.0								
Manganese	ND	0.0020								
Potassium	ND	1.0								
Silver	ND	0.0050								

Sample ID LCS-C	SampType: LCS			TestCode: EPA Method 200.7: Dissolved Metals						
Client ID: LCSW	Batch ID: C32754			RunNo: 32754						
Prep Date:	Analysis Date: 3/11/2016			SeqNo: 1002499			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	99.2	85	115			
Cadmium	0.51	0.0020	0.5000	0	102	85	115			
Calcium	51	1.0	50.00	0	102	85	115			
Chromium	0.50	0.0060	0.5000	0	99.2	85	115			
Iron	0.50	0.020	0.5000	0	99.5	85	115			
Magnesium	51	1.0	50.00	0	101	85	115			
Manganese	0.49	0.0020	0.5000	0	97.7	85	115			
Potassium	49	1.0	50.00	0	98.3	85	115			
Silver	0.10	0.0050	0.1000	0	101	85	115			

Sample ID LLCS-C	SampType: LCSLL			TestCode: EPA Method 200.7: Dissolved Metals						
Client ID: BatchQC	Batch ID: C32754			RunNo: 32754						
Prep Date:	Analysis Date: 3/11/2016			SeqNo: 1002500			Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.0018	0.0020	0.002000	0	90.0	50	150			J
Cadmium	0.0022	0.0020	0.002000	0	108	50	150			
Calcium	0.51	1.0	0.5000	0	102	50	150			J
Chromium	0.0058	0.0060	0.006000	0	97.3	50	150			J
Iron	0.016	0.020	0.02000	0	81.3	50	150			J
Magnesium	0.53	1.0	0.5000	0	105	50	150			J
Manganese	0.0018	0.0020	0.002000	0	92.5	50	150			J
Potassium	0.54	1.0	0.5000	0	108	50	150			J
Silver	0.0048	0.0050	0.005000	0	96.8	50	150			J

Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E 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	P Sample pH Not In Range
R RPD outside accepted recovery limits	RL Reporting Detection Limit
S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1602B49

01-Apr-16

Client: Western Refining Southwest, Gallup

Project: Quarterly GW Sampling

Sample ID MB-A	SampType: MBLK		TestCode: EPA Method 200.7: Dissolved Metals							
Client ID: PBW	Batch ID: A32792		RunNo: 32792							
Prep Date:	Analysis Date: 3/15/2016		SeqNo: 1004789		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								
Manganese	ND	0.0020								

Sample ID LCS-A	SampType: LCS		TestCode: EPA Method 200.7: Dissolved Metals							
Client ID: LCSW	Batch ID: A32792		RunNo: 32792							
Prep Date:	Analysis Date: 3/15/2016		SeqNo: 1004790		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	95.0	85	115			
Copper	0.47	0.0060	0.5000	0	94.0	85	115			
Iron	0.49	0.020	0.5000	0	97.7	85	115			
Manganese	0.47	0.0020	0.5000	0	93.5	85	115			

Sample ID LLLCS-A	SampType: LCSLL		TestCode: EPA Method 200.7: Dissolved Metals							
Client ID: BatchQC	Batch ID: A32792		RunNo: 32792							
Prep Date:	Analysis Date: 3/15/2016		SeqNo: 1004791		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.0019	0.0020	0.002000	0	93.0	50	150			J
Copper	0.0065	0.0060	0.006000	0	108	50	150			
Iron	0.023	0.020	0.02000	0	114	50	150			
Manganese	0.0021	0.0020	0.002000	0	103	50	150			

Sample ID MB-D	SampType: MBLK		TestCode: EPA Method 200.7: Dissolved Metals							
Client ID: PBW	Batch ID: D32831		RunNo: 32831							
Prep Date:	Analysis Date: 3/16/2016		SeqNo: 1006183		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	ND	0.0020								
Calcium	ND	1.0								
Iron	ND	0.020								
Magnesium	ND	1.0								
Manganese	ND	0.0020								
Sodium	ND	1.0								
Zinc	ND	0.010								

Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E 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	P Sample pH Not In Range
R RPD outside accepted recovery limits	RL Reporting Detection Limit
S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1602B49

01-Apr-16

Client: Western Refining Southwest, Gallup

Project: Quarterly GW Sampling

Sample ID LCS-D	SampType: LCS			TestCode: EPA Method 200.7: Dissolved Metals						
Client ID: LCSW	Batch ID: D32831			RunNo: 32831						
Prep Date:	Analysis Date: 3/16/2016			SeqNo: 1006187		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	99.0	85	115			
Calcium	50	1.0	50.00	0	100	85	115			
Iron	0.50	0.020	0.5000	0	101	85	115			
Magnesium	51	1.0	50.00	0	101	85	115			
Manganese	0.49	0.0020	0.5000	0	97.7	85	115			
Sodium	50	1.0	50.00	0	100	85	115			
Zinc	0.50	0.010	0.5000	0	99.5	85	115			

Sample ID LLCS-D	SampType: LCSLL			TestCode: EPA Method 200.7: Dissolved Metals						
Client ID: BatchQC	Batch ID: D32831			RunNo: 32831						
Prep Date:	Analysis Date: 3/16/2016			SeqNo: 1006188		Units: mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.0024	0.0020	0.002000	0	119	50	150			
Calcium	0.54	1.0	0.5000	0	108	50	150			J
Iron	0.021	0.020	0.02000	0	106	50	150			
Magnesium	0.53	1.0	0.5000	0	106	50	150			J
Manganese	0.0022	0.0020	0.002000	0	109	50	150			
Sodium	0.46	1.0	0.5000	0	91.5	50	150			J
Zinc	0.0056	0.010	0.005000	0	112	50	150			J

Sample ID MB-B	SampType: MBLK			TestCode: EPA Method 200.7: Dissolved Metals						
Client ID: PBW	Batch ID: B32831			RunNo: 32831						
Prep Date:	Analysis Date: 3/16/2016			SeqNo: 1006651		Units: mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Iron	ND	0.020								
Sodium	ND	1.0								
Zinc	ND	0.010								

Sample ID LCS-B	SampType: LCS			TestCode: EPA Method 200.7: Dissolved Metals						
Client ID: LCSW	Batch ID: B32831			RunNo: 32831						
Prep Date:	Analysis Date: 3/16/2016			SeqNo: 1006655		Units: mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Iron	0.51	0.020	0.5000	0	102	85	115			
Sodium	49	1.0	50.00	0	97.6	85	115			
Zinc	0.52	0.010	0.5000	0	103	85	115			

Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E 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	P Sample pH Not In Range
R RPD outside accepted recovery limits	RL Reporting Detection Limit
S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1602B49

01-Apr-16

Client: Western Refining Southwest, Gallup

Project: Quarterly GW Sampling

Sample ID	LLLCS-B	SampType:	LCSLL	TestCode:	EPA Method 200.7: Dissolved Metals					
Client ID:	BatchQC	Batch ID:	B32831	RunNo:	32831					
Prep Date:		Analysis Date:	3/16/2016	SeqNo:	1006656	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Iron	0.023	0.020	0.02000	0	115	50	150			
Sodium	0.48	1.0	0.5000	0	96.5	50	150			J
Zinc	0.0061	0.010	0.005000	0	122	50	150			J

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	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	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1602B49

01-Apr-16

Client: Western Refining Southwest, Gallup

Project: Quarterly GW Sampling

Sample ID	MB-24015		SampType:	MBLK		TestCode:	EPA Method 200.7: Total Metals			
Client ID:	PBW		Batch ID:	24015		RunNo:	32754			
Prep Date:	3/1/2016		Analysis Date:	3/11/2016		SeqNo:	1002480		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								
Manganese	ND	0.0020								
Zinc	ND	0.010								

Sample ID	LCS-24015		SampType:	LCS		TestCode:	EPA Method 200.7: Total Metals			
Client ID:	LCSW		Batch ID:	24015		RunNo:	32754			
Prep Date:	3/1/2016		Analysis Date:	3/11/2016		SeqNo:	1002481		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	98.2	85	115			
Cadmium	0.50	0.0020	0.5000	0	101	85	115			
Chromium	0.49	0.0060	0.5000	0	97.4	85	115			
Copper	0.49	0.0060	0.5000	0	98.9	85	115			
Iron	0.49	0.020	0.5000	0	98.0	85	115			
Manganese	0.48	0.0020	0.5000	0	96.9	85	115			
Zinc	0.49	0.010	0.5000	0	99.0	85	115			

Sample ID	LLLCS-24015		SampType:	LCSLL		TestCode:	EPA Method 200.7: Total Metals			
Client ID:	BatchQC		Batch ID:	24015		RunNo:	32754			
Prep Date:	3/1/2016		Analysis Date:	3/11/2016		SeqNo:	1002482		Units: mg/L	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.0020	0.0020	0.002000	0	99.5	50	150			J
Cadmium	0.0018	0.0020	0.002000	0	89.0	50	150			J
Chromium	0.0053	0.0060	0.006000	0	89.0	50	150			J
Copper	0.0062	0.0060	0.006000	0	104	50	150			J
Iron	0.014	0.020	0.02000	0	71.0	50	150			J
Manganese	0.0018	0.0020	0.002000	0	89.0	50	150			J
Zinc	0.0062	0.010	0.005000	0	125	50	150			J

Sample ID	1602B49-001FMS		SampType:	MS		TestCode:	EPA Method 200.7: Total Metals			
Client ID:	MKTF-19		Batch ID:	24015		RunNo:	32754			
Prep Date:	3/1/2016		Analysis Date:	3/11/2016		SeqNo:	1002539		Units: mg/L	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Cadmium	0.49	0.0020	0.5000	0	97.5	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E 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	P Sample pH Not In Range
R RPD outside accepted recovery limits	RL Reporting Detection Limit
S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1602B49

01-Apr-16

Client: Western Refining Southwest, Gallup

Project: Quarterly GW Sampling

Sample ID	1602B49-001FMS		SampType:	MS		TestCode:	EPA Method 200.7: Total Metals			
Client ID:	MKTF-19		Batch ID:	24015		RunNo:	32754			
Prep Date:	3/1/2016		Analysis Date:	3/11/2016		SeqNo:	1002539	Units:	mg/L	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chromium	0.47	0.0060	0.5000	0.01205	91.7	70	130			
Copper	0.51	0.0060	0.5000	0.01788	97.5	70	130			
Zinc	0.54	0.010	0.5000	0.07960	91.2	70	130			

Sample ID	1602B49-001FMSD		SampType:	MSD		TestCode:	EPA Method 200.7: Total Metals			
Client ID:	MKTF-19		Batch ID:	24015		RunNo:	32754			
Prep Date:	3/1/2016		Analysis Date:	3/11/2016		SeqNo:	1002540	Units:	mg/L	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Cadmium	0.49	0.0020	0.5000	0	98.2	70	130	0.705	20	
Chromium	0.47	0.0060	0.5000	0.01205	92.3	70	130	0.591	20	
Copper	0.51	0.0060	0.5000	0.01788	98.3	70	130	0.779	20	
Zinc	0.54	0.010	0.5000	0.07960	92.1	70	130	0.907	20	

Sample ID	1602B49-002FMS		SampType:	MS		TestCode:	EPA Method 200.7: Total Metals			
Client ID:	MKTF-34		Batch ID:	24015		RunNo:	32754			
Prep Date:	3/1/2016		Analysis Date:	3/11/2016		SeqNo:	1002549	Units:	mg/L	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.64	0.0020	0.5000	0.1468	98.4	70	130			
Cadmium	0.51	0.0020	0.5000	0	103	70	130			
Chromium	0.49	0.0060	0.5000	0	98.6	70	130			
Copper	0.52	0.0060	0.5000	0	104	70	130			
Manganese	0.53	0.0020	0.5000	0.04422	97.9	70	130			
Zinc	0.52	0.010	0.5000	0.02346	99.8	70	130			

Sample ID	1602B49-002FMSD		SampType:	MSD		TestCode:	EPA Method 200.7: Total Metals			
Client ID:	MKTF-34		Batch ID:	24015		RunNo:	32754			
Prep Date:	3/1/2016		Analysis Date:	3/11/2016		SeqNo:	1002550	Units:	mg/L	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.65	0.0020	0.5000	0.1468	101	70	130	1.87	20	
Cadmium	0.53	0.0020	0.5000	0	105	70	130	2.23	20	
Chromium	0.50	0.0060	0.5000	0	101	70	130	2.34	20	
Copper	0.53	0.0060	0.5000	0	107	70	130	1.99	20	
Manganese	0.54	0.0020	0.5000	0.04422	100	70	130	1.87	20	
Zinc	0.53	0.010	0.5000	0.02346	102	70	130	2.08	20	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Detection Limit
W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1602B49

01-Apr-16

Client: Western Refining Southwest, Gallup

Project: Quarterly GW Sampling

Sample ID	1602B49-002FMS	SampType:	MS	TestCode:	EPA Method 200.7: Total Metals					
Client ID:	MKTF-34	Batch ID:	24015	RunNo:	32754					
Prep Date:	3/1/2016	Analysis Date:	3/11/2016	SeqNo:	1002552	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Iron	2.1	0.10	0.5000	1.623	90.6	70	130			

Sample ID	1602B49-002FMSD	SampType:	MSD	TestCode:	EPA Method 200.7: Total Metals					
Client ID:	MKTF-34	Batch ID:	24015	RunNo:	32754					
Prep Date:	3/1/2016	Analysis Date:	3/11/2016	SeqNo:	1002553	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Iron	2.1	0.10	0.5000	1.623	103	70	130	2.85	20	

Sample ID	MB-24381	SampType:	MBLK	TestCode:	EPA Method 200.7: Total Metals					
Client ID:	PBW	Batch ID:	24381	RunNo:	33001					
Prep Date:	3/22/2016	Analysis Date:	3/23/2016	SeqNo:	1012275	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Silver	ND	0.0050								

Sample ID	LCS-24381	SampType:	LCS	TestCode:	EPA Method 200.7: Total Metals					
Client ID:	LCSW	Batch ID:	24381	RunNo:	33001					
Prep Date:	3/22/2016	Analysis Date:	3/23/2016	SeqNo:	1012276	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	104	85	115			

Sample ID	LLLCS-24381	SampType:	LCSLL	TestCode:	EPA Method 200.7: Total Metals					
Client ID:	BatchQC	Batch ID:	24381	RunNo:	33001					
Prep Date:	3/22/2016	Analysis Date:	3/23/2016	SeqNo:	1012277	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Silver	0.0050	0.0050	0.005000	0	99.4	50	150			J

Sample ID	1602B49-001FMS	SampType:	MS	TestCode:	EPA Method 200.7: Total Metals					
Client ID:	MKTF-19	Batch ID:	24381	RunNo:	33001					
Prep Date:	3/22/2016	Analysis Date:	3/23/2016	SeqNo:	1012301	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Silver	0.093	0.0050	0.1000	0	93.1	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Detection Limit
W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1602B49

01-Apr-16

Client: Western Refining Southwest, Gallup

Project: Quarterly GW Sampling

Sample ID	1602B49-001FMSD	SampType:	MSD	TestCode:	EPA Method 200.7: Total Metals						
Client ID:	MKTF-19	Batch ID:	24381	RunNo:	33001						
Prep Date:	3/22/2016	Analysis Date:	3/23/2016	SeqNo:	1012302	Units:	mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Silver	0.089	0.0050	0.1000	0	88.6	70	130	4.95	20		

Sample ID	1602B49-002FMS	SampType:	MS	TestCode:	EPA Method 200.7: Total Metals						
Client ID:	MKTF-34	Batch ID:	24381	RunNo:	33001						
Prep Date:	3/22/2016	Analysis Date:	3/23/2016	SeqNo:	1012307	Units:	mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Silver	0.096	0.0050	0.1000	0	96.5	70	130				

Sample ID	1602B49-002FMSD	SampType:	MSD	TestCode:	EPA Method 200.7: Total Metals						
Client ID:	MKTF-34	Batch ID:	24381	RunNo:	33001						
Prep Date:	3/22/2016	Analysis Date:	3/23/2016	SeqNo:	1012308	Units:	mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Silver	0.085	0.0050	0.1000	0	85.5	70	130	12.1	20		

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Detection Limit
W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1602B49

01-Apr-16

Client: Western Refining Southwest, Gallup

Project: Quarterly GW Sampling

Sample ID	1602B49-001EMSDL				SampType:	MSD		TestCode:	EPA 200.8: Dissolved Metals		
Client ID:	MKTF-19				Batch ID:	C32805		RunNo:	32805		
Prep Date:					Analysis Date:	3/15/2016		SeqNo:	1005530	Units:	mg/L
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Arsenic	0.040	0.0010	0.02500	0.01520	101	70	130	2.01	20		
Lead	0.016	0.00050	0.01250	0.003383	101	70	130	0.717	20		
Uranium	0.016	0.00050	0.01250	0.0006018	120	70	130	0.0122	20		

Sample ID	1602B49-001EMSL				SampType:	MS		TestCode:	EPA 200.8: Dissolved Metals		
Client ID:	MKTF-19				Batch ID:	C32805		RunNo:	32805		
Prep Date:					Analysis Date:	3/15/2016		SeqNo:	1005531	Units:	mg/L
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Arsenic	0.040	0.0010	0.02500	0.01520	97.7	70	130				
Lead	0.016	0.00050	0.01250	0.003383	100	70	130				
Uranium	0.016	0.00050	0.01250	0.0006018	120	70	130				

Sample ID	LCS				SampType:	LCS		TestCode:	EPA 200.8: Dissolved Metals		
Client ID:	LCSW				Batch ID:	C32805		RunNo:	32805		
Prep Date:					Analysis Date:	3/15/2016		SeqNo:	1005551	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	99.3	85	115				
Lead	0.012	0.00050	0.01250	0	94.7	85	115				
Selenium	0.026	0.0010	0.02500	0	102	85	115				
Uranium	0.012	0.00050	0.01250	0	95.7	85	115				

Sample ID	LLLCS				SampType:	LCSLL		TestCode:	EPA 200.8: Dissolved Metals		
Client ID:	BatchQC				Batch ID:	C32805		RunNo:	32805		
Prep Date:					Analysis Date:	3/15/2016		SeqNo:	1005552	Units:	mg/L
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Arsenic	0.0011	0.0010	0.001000	0	105	50	150				
Lead	0.00049	0.00050	0.0005000	0	98.4	50	150				J
Selenium	0.0011	0.0010	0.001000	0	107	50	150				
Uranium	0.00047	0.00050	0.0005000	0	94.8	50	150				J

Sample ID	MB				SampType:	MBLK		TestCode:	EPA 200.8: Dissolved Metals		
Client ID:	PBW				Batch ID:	C32805		RunNo:	32805		
Prep Date:					Analysis Date:	3/15/2016		SeqNo:	1005553	Units:	mg/L
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Arsenic	ND	0.0010									
Lead	ND	0.00050									

Qualifiers:

- | | |
|---|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E 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 | P Sample pH Not In Range |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1602B49

01-Apr-16

Client: Western Refining Southwest, Gallup

Project: Quarterly GW Sampling

Sample ID MB	SampType: MBLK				TestCode: EPA 200.8: Dissolved Metals					
Client ID: PBW	Batch ID: C32805				RunNo: 32805					
Prep Date:	Analysis Date: 3/15/2016				SeqNo: 1005553	Units: mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Selenium	ND	0.0010								
Uranium	ND	0.00050								

Sample ID LCS	SampType: LCS				TestCode: EPA 200.8: Dissolved Metals					
Client ID: LCSW	Batch ID: B32978				RunNo: 32978					
Prep Date:	Analysis Date: 3/22/2016				SeqNo: 1011964	Units: mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.024	0.0010	0.02500	0	96.8	85	115			
Lead	0.012	0.00050	0.01250	0	98.2	85	115			
Selenium	0.025	0.0010	0.02500	0	98.1	85	115			
Uranium	0.012	0.00050	0.01250	0	98.8	85	115			

Sample ID LCS	SampType: LCS				TestCode: EPA 200.8: Dissolved Metals					
Client ID: LCSW	Batch ID: C32978				RunNo: 32978					
Prep Date:	Analysis Date: 3/22/2016				SeqNo: 1011965	Units: mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	0.012	0.00050	0.01250	0	97.3	85	115			
Selenium	0.024	0.0010	0.02500	0	97.5	85	115			
Uranium	0.012	0.00050	0.01250	0	96.7	85	115			

Sample ID LLLCS	SampType: LCSLL				TestCode: EPA 200.8: Dissolved Metals					
Client ID: BatchQC	Batch ID: B32978				RunNo: 32978					
Prep Date:	Analysis Date: 3/22/2016				SeqNo: 1011966	Units: mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.0010	0.0010	0.001000	0	101	50	150			
Lead	0.00050	0.00050	0.0005000	0	100	50	150			
Selenium	0.0010	0.0010	0.001000	0	102	50	150			
Uranium	0.00050	0.00050	0.0005000	0	100	50	150			

Sample ID LLLCS	SampType: LCSLL				TestCode: EPA 200.8: Dissolved Metals					
Client ID: BatchQC	Batch ID: C32978				RunNo: 32978					
Prep Date:	Analysis Date: 3/22/2016				SeqNo: 1011967	Units: mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	0.00050	0.00050	0.0005000	0	100	50	150			
Selenium	0.00095	0.0010	0.001000	0	94.8	50	150			J
Uranium	0.00050	0.00050	0.0005000	0	99.8	50	150			J

Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E 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	P Sample pH Not In Range
R RPD outside accepted recovery limits	RL Reporting Detection Limit
S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1602B49

01-Apr-16

Client: Western Refining Southwest, Gallup

Project: Quarterly GW Sampling

Sample ID MB	SampType: MBLK			TestCode: EPA 200.8: Dissolved Metals						
Client ID: PBW	Batch ID: B32978			RunNo: 32978						
Prep Date:	Analysis Date: 3/22/2016			SeqNo: 1011968			Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.0010								
Lead	ND	0.00050								
Selenium	ND	0.0010								
Uranium	ND	0.00050								

Sample ID MB	SampType: MBLK			TestCode: EPA 200.8: Dissolved Metals						
Client ID: PBW	Batch ID: C32978			RunNo: 32978						
Prep Date:	Analysis Date: 3/22/2016			SeqNo: 1011969			Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	ND	0.00050								
Selenium	ND	0.0010								
Uranium	ND	0.00050								

Sample ID LCS	SampType: LCS			TestCode: EPA 200.8: Dissolved Metals						
Client ID: LCSW	Batch ID: B33051			RunNo: 33051						
Prep Date:	Analysis Date: 3/24/2016			SeqNo: 1014293			Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.024	0.0010	0.02500	0	95.5	85	115			
Selenium	0.024	0.0010	0.02500	0	96.4	85	115			

Sample ID LLLCS	SampType: LCSLL			TestCode: EPA 200.8: Dissolved Metals						
Client ID: BatchQC	Batch ID: B33051			RunNo: 33051						
Prep Date:	Analysis Date: 3/24/2016			SeqNo: 1014294			Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.0010	0.0010	0.001000	0	100	50	150			
Selenium	0.00099	0.0010	0.001000	0	98.8	50	150			J

Sample ID MB	SampType: MBLK			TestCode: EPA 200.8: Dissolved Metals						
Client ID: PBW	Batch ID: B33051			RunNo: 33051						
Prep Date:	Analysis Date: 3/24/2016			SeqNo: 1014295			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								

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Detection Limit
W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1602B49

01-Apr-16

Client: Western Refining Southwest, Gallup

Project: Quarterly GW Sampling

Sample ID	MB-24015		SampType:	MBLK		TestCode:	200.8 ICPMS Metals:Total			
Client ID:	PBW		Batch ID:	24015		RunNo:	32687			
Prep Date:	3/1/2016		Analysis Date:	3/9/2016		SeqNo:	1000379	Units:	mg/L	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.0010								
Lead	ND	0.00050								
Selenium	ND	0.0010								
Uranium	ND	0.00050								

Sample ID	MSLCS-24015		SampType:	LCS		TestCode:	200.8 ICPMS Metals:Total			
Client ID:	LCSW		Batch ID:	24015		RunNo:	32687			
Prep Date:	3/1/2016		Analysis Date:	3/9/2016		SeqNo:	1000382	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	103	85	115			
Lead	0.013	0.00050	0.01250	0	102	85	115			
Selenium	0.026	0.0010	0.02500	0	102	85	115			
Uranium	0.013	0.00050	0.01250	0	100	85	115			

Sample ID	MSLLCS-24015		SampType:	LCSLL		TestCode:	200.8 ICPMS Metals:Total			
Client ID:	BatchQC		Batch ID:	24015		RunNo:	32687			
Prep Date:	3/1/2016		Analysis Date:	3/9/2016		SeqNo:	1000385	Units:	mg/L	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.00082	0.0010	0.001000	0	82.5	50	150			J
Lead	0.00038	0.00050	0.0005000	0	76.2	50	150			J
Selenium	0.00075	0.0010	0.001000	0	75.0	50	150			J
Uranium	0.00042	0.00050	0.0005000	0	83.7	50	150			J

Sample ID	1602B49-004FMSLL		SampType:	MSLL		TestCode:	200.8 ICPMS Metals:Total			
Client ID:	MKTF-32		Batch ID:	24015		RunNo:	32737			
Prep Date:	3/1/2016		Analysis Date:	3/11/2016		SeqNo:	1003032	Units:	mg/L	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Selenium	0.028	0.0050	0.02500	0.003140	100	70	130			
Uranium	0.075	0.0025	0.01250	0.06161	104	70	130			

Sample ID	1602B49-004FMSLL		SampType:	MSLL		TestCode:	200.8 ICPMS Metals:Total			
Client ID:	MKTF-32		Batch ID:	24015		RunNo:	32737			
Prep Date:	3/1/2016		Analysis Date:	3/11/2016		SeqNo:	1003034	Units:	mg/L	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.028	0.0010	0.02500	0.003392	97.6	70	130			
Lead	0.017	0.00050	0.01250	0.002795	112	70	130			

Qualifiers:

- | | |
|---|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E 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 | P Sample pH Not In Range |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1602B49

01-Apr-16

Client: Western Refining Southwest, Gallup

Project: Quarterly GW Sampling

Sample ID	1602B49-005FMSDL		SampType:	MSDLL		TestCode:	200.8 ICPMS Metals:Total			
Client ID:	MKTf-41		Batch ID:	24015		RunNo:	32737			
Prep Date:	3/1/2016		Analysis Date:	3/11/2016		SeqNo:	1003041		Units: mg/L	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.031	0.0050	0.02500	0.004878	105	70	130	3.43	20	
Lead	0.017	0.0025	0.01250	0.003535	107	70	130	1.96	20	
Selenium	0.068	0.0050	0.02500	0.04372	97.8	70	130	2.44	20	
Uranium	0.036	0.0025	0.01250	0.02176	116	70	130	2.81	20	

Sample ID	1602B49-005FMSLL		SampType:	MSLL		TestCode:	200.8 ICPMS Metals:Total			
Client ID:	MKTf-41		Batch ID:	24015		RunNo:	32737			
Prep Date:	3/1/2016		Analysis Date:	3/11/2016		SeqNo:	1003044		Units: mg/L	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.030	0.0050	0.02500	0.004878	101	70	130			
Lead	0.017	0.0025	0.01250	0.003535	104	70	130			
Selenium	0.067	0.0050	0.02500	0.04372	91.3	70	130			
Uranium	0.035	0.0025	0.01250	0.02176	108	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Detection Limit
W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1602B49

01-Apr-16

Client: Western Refining Southwest, Gallup

Project: Quarterly GW Sampling

Sample ID	MB-24021		SampType: MBLK		TestCode: EPA Method 245.1: Mercury					
Client ID:	PBW		Batch ID: 24021		RunNo: 32516					
Prep Date:	3/2/2016		Analysis Date: 3/2/2016		SeqNo: 994818		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercurv	ND	0.00020								

Sample ID	LCS-24021		SampType: LCS		TestCode: EPA Method 245.1: Mercury					
Client ID:	LCSW		Batch ID: 24021		RunNo: 32516					
Prep Date:	3/2/2016		Analysis Date: 3/2/2016		SeqNo: 994819		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	103	80	120			

Sample ID	1602B49-001FMS		SampType: MS		TestCode: EPA Method 245.1: Mercury					
Client ID:	MKTF-19		Batch ID: 24021		RunNo: 32516					
Prep Date:	3/2/2016		Analysis Date: 3/2/2016		SeqNo: 994901		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0048	0.0010	0.005000	0	95.6	75	125			

Sample ID	1602B49-001FMSD		SampType:	MSD		TestCode:	EPA Method 245.1: Mercury				
Client ID:	MKTF-19		Batch ID:	24021		RunNo:	32516				
Prep Date:	3/2/2016		Analysis Date:	3/2/2016		SeqNo:	994902		Units: mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Mercury	0.0048	0.0010	0.005000	0	95.4	75	125	0.217	20		

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Detection Limit
W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1602B49

01-Apr-16

Client: Western Refining Southwest, Gallup

Project: Quarterly GW Sampling

Sample ID MB	SampType: MBLK			TestCode: EPA Method 300.0: Anions						
Client ID: PBW	Batch ID: A32480			RunNo: 32480						
Prep Date:	Analysis Date: 2/29/2016			SeqNo: 993533			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: A32480			RunNo: 32480						
Prep Date:	Analysis Date: 2/29/2016			SeqNo: 993534			Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrate+Nitrite as N	3.5	0.20	3.500	0	99.1	90	110			

Sample ID MB	SampType: MBLK			TestCode: EPA Method 300.0: Anions						
Client ID: PBW	Batch ID: R32483			RunNo: 32483						
Prep Date:	Analysis Date: 2/29/2016			SeqNo: 993638			Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								
Bromide	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: R32483			RunNo: 32483						
Prep Date:	Analysis Date: 2/29/2016			SeqNo: 993639			Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	5.0	0.50	5.000	0	100	90	110			
Bromide	2.5	0.10	2.500	0	101	90	110			
Phosphorus, Orthophosphate (As P	5.4	0.50	5.000	0	107	90	110			
Sulfate	10	0.50	10.00	0	103	90	110			

Sample ID 1602B49-002DMS	SampType: MS			TestCode: EPA Method 300.0: Anions						
Client ID: MKTF-34	Batch ID: R32483			RunNo: 32483						
Prep Date:	Analysis Date: 3/1/2016			SeqNo: 993685			Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Bromide	4.5	0.10	2.500	2.637	73.9	74.9	117			S

Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E 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	P Sample pH Not In Range
R RPD outside accepted recovery limits	RL Reporting Detection Limit
S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1602B49

01-Apr-16

Client: Western Refining Southwest, Gallup

Project: Quarterly GW Sampling

Sample ID	1602B49-002DMSD				SampType:	MSD			TestCode:	EPA Method 300.0: Anions	
Client ID:	MKTF-34				Batch ID:	R32483			RunNo:	32483	
Prep Date:					Analysis Date:	3/1/2016			SeqNo:	993686	Units: mg/L
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Bromide	4.5	0.10	2.500	2.637	73.5	74.9	117	0.199	20	S	

Sample ID	MB				SampType:	MBLK			TestCode:	EPA Method 300.0: Anions	
Client ID:	PBW				Batch ID:	R32498			RunNo:	32498	
Prep Date:					Analysis Date:	3/1/2016			SeqNo:	994128	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:	R32498			RunNo:	32498	
Prep Date:					Analysis Date:	3/1/2016			SeqNo:	994129	Units: mg/L
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Nitrate+Nitrite as N	3.7	0.20	3.500	0	104	90	110				

Sample ID	MB				SampType:	MBLK			TestCode:	EPA Method 300.0: Anions	
Client ID:	PBW				Batch ID:	R32517			RunNo:	32517	
Prep Date:					Analysis Date:	3/2/2016			SeqNo:	994839	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:	R32517			RunNo:	32517	
Prep Date:					Analysis Date:	3/2/2016			SeqNo:	994842	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	103	90	110				

Sample ID	MB				SampType:	MBLK			TestCode:	EPA Method 300.0: Anions	
Client ID:	PBW				Batch ID:	R32541			RunNo:	32541	
Prep Date:					Analysis Date:	3/2/2016			SeqNo:	995627	Units: mg/L
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Fluoride	ND	0.10									
Bromide	ND	0.10									
Phosphorus, Orthophosphate (As P	ND	0.50									
Sulfate	ND	0.50									

Qualifiers:

- | | |
|---|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E 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 | P Sample pH Not In Range |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1602B49

01-Apr-16

Client: Western Refining Southwest, Gallup

Project: Quarterly GW Sampling

Sample ID LCS	SampType: LCS		TestCode: EPA Method 300.0: Anions							
Client ID: LCSW	Batch ID: R32541		RunNo: 32541							
Prep Date:	Analysis Date: 3/2/2016		SeqNo: 995628		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			
Bromide	2.4	0.10	2.500	0	96.6	90	110			
Phosphorus, Orthophosphate (As P	4.9	0.50	5.000	0	97.0	90	110			
Sulfate	9.9	0.50	10.00	0	98.7	90	110			

Sample ID MB	SampType: MBLK		TestCode: EPA Method 300.0: Anions							
Client ID: PBW	Batch ID: A32541		RunNo: 32541							
Prep Date:	Analysis Date: 3/2/2016		SeqNo: 995675		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.10								
Chloride	0.097	0.50								J
Bromide	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: A32541		RunNo: 32541							
Prep Date:	Analysis Date: 3/2/2016		SeqNo: 995676		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.53	0.10	0.5000	0	105	90	110			
Chloride	4.9	0.50	5.000	0	97.5	90	110			
Bromide	2.5	0.10	2.500	0	102	90	110			
Phosphorus, Orthophosphate (As P	5.0	0.50	5.000	0	99.6	90	110			
Sulfate	10	0.50	10.00	0	99.7	90	110			

Sample ID MB	SampType: mblik		TestCode: EPA Method 300.0: Anions							
Client ID: PBW	Batch ID: R32615		RunNo: 32615							
Prep Date:	Analysis Date: 3/4/2016		SeqNo: 997836		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								
Bromide	ND	0.10								
Phosphorus, Orthophosphate (As P	ND	0.50								
Sulfate	ND	0.50								

Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E 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	P Sample pH Not In Range
R RPD outside accepted recovery limits	RL Reporting Detection Limit
S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1602B49

01-Apr-16

Client: Western Refining Southwest, Gallup

Project: Quarterly GW Sampling

Sample ID LCS	SampType: lcs			TestCode: EPA Method 300.0: Anions						
Client ID: LCSW	Batch ID: R32615			RunNo: 32615						
Prep Date:	Analysis Date: 3/4/2016			SeqNo: 997837		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	4.9	0.50	5.000	0	98.0	90	110			
Bromide	2.5	0.10	2.500	0	100	90	110			
Phosphorus, Orthophosphate (As P	4.9	0.50	5.000	0	97.8	90	110			
Sulfate	9.9	0.50	10.00	0	98.8	90	110			

Sample ID MB	SampType: MBLK			TestCode: EPA Method 300.0: Anions						
Client ID: PBW	Batch ID: R32693			RunNo: 32693						
Prep Date:	Analysis Date: 3/9/2016			SeqNo: 1000623		Units: mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.10								
Chloride	0.097	0.50								J
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: R32693			RunNo: 32693						
Prep Date:	Analysis Date: 3/9/2016			SeqNo: 1000624		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	103	90	110			
Chloride	4.7	0.50	5.000	0	94.1	90	110			
Bromide	2.4	0.10	2.500	0	97.9	90	110			
Phosphorus, Orthophosphate (As P	4.8	0.50	5.000	0	95.5	90	110			
Sulfate	9.6	0.50	10.00	0	96.3	90	110			
Nitrate+Nitrite as N	3.4	0.20	3.500	0	98.3	90	110			

Sample ID MB	SampType: MBLK			TestCode: EPA Method 300.0: Anions						
Client ID: PBW	Batch ID: A32739			RunNo: 32739						
Prep Date:	Analysis Date: 3/10/2016			SeqNo: 1002187		Units: mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								

Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E 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	P Sample pH Not In Range
R RPD outside accepted recovery limits	RL Reporting Detection Limit
S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1602B49

01-Apr-16

Client: Western Refining Southwest, Gallup

Project: Quarterly GW Sampling

Sample ID	LCS		SampType: LCS			TestCode: EPA Method 300.0: Anions					
Client ID:	LCSW		Batch ID: A32739			RunNo: 32739					
Prep Date:			Analysis Date: 3/10/2016			SeqNo: 1002188		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	93.5	90	110				

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Detection Limit
W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1602B49

01-Apr-16

Client: Western Refining Southwest, Gallup

Project: Quarterly GW Sampling

Sample ID	LCS-24002		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range					
Client ID:	LCSW		Batch ID: 24002		RunNo: 32487					
Prep Date:	3/1/2016		Analysis Date: 3/1/2016		SeqNo: 993944		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	4.6	1.0	5.000	0	92.8	71.3	139			
Surr: DNOP	0.45		0.5000		89.7	70	141			

Sample ID	MB-24002	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range						
Client ID:	PBW	Batch ID: 24002		RunNo: 32487						
Prep Date:	3/1/2016	Analysis Date: 3/1/2016		SeqNo: 993945		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	0.91		1.000		91.4	70	141			

Sample ID	1602B49-001BMS		SampType: MS		TestCode: EPA Method 8015M/D: Diesel Range					
Client ID:	MKTF-19		Batch ID: 24002		RunNo: 32487					
Prep Date:	3/1/2016		Analysis Date: 3/1/2016		SeqNo: 993988		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	13	1.0	5.000	7.788	104	59.4	160			
Surr: DNOP	0.47		0.5000		94.9	70	141			

Sample ID	1602B49-001BMSD		SampType:	MSD		TestCode:	EPA Method 8015M/D: Diesel Range				
Client ID:	MKTF-19		Batch ID:	24002		RunNo:	32487				
Prep Date:	3/1/2016		Analysis Date:	3/1/2016		SeqNo:	993989		Units: mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	13	1.0	5.000	7.788	114	59.4	160	3.77	20		
Surr: DNOP	0.49		0.5000		97.4	70	141	0	0		

Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E 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	P Sample pH Not In Range
R RPD outside accepted recovery limits	RL Reporting Detection Limit
S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1602B49

01-Apr-16

Client: Western Refining Southwest, Gallup

Project: Quarterly GW Sampling

Sample ID 5ML RB	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBW	Batch ID: A32486		RunNo: 32486							
Prep Date:	Analysis Date: 3/1/2016		SeqNo: 993897		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		87.8	49.5	130			

Sample ID 2.5UG GRO LCS	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSW	Batch ID: A32486		RunNo: 32486							
Prep Date:	Analysis Date: 3/1/2016		SeqNo: 993898		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.47	0.050	0.5000	0	94.8	80	120			
Surr: BFB	21		20.00		107	49.5	130			

Sample ID 1602B49-001AMS	SampType: MS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: MKTF-19	Batch ID: A32486		RunNo: 32486							
Prep Date:	Analysis Date: 3/1/2016		SeqNo: 993901		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	32	1.0	10.00	21.55	107	70	130			
Surr: BFB	450		400.0		113	49.5	130			

Sample ID 1602B49-001AMSD	SampType: MSD		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: MKTF-19	Batch ID: A32486		RunNo: 32486							
Prep Date:	Analysis Date: 3/1/2016		SeqNo: 993902		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	32	1.0	10.00	21.55	106	70	130	0.261	20	
Surr: BFB	460		400.0		115	49.5	130	0	0	

Sample ID 5ML RB	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBW	Batch ID: A32557		RunNo: 32557							
Prep Date:	Analysis Date: 3/3/2016		SeqNo: 996055		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		90.1	49.5	130			

Sample ID 2.5UG GRO LCS	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSW	Batch ID: A32557		RunNo: 32557							
Prep Date:	Analysis Date: 3/3/2016		SeqNo: 996056		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 |
| D Sample Diluted Due to Matrix | E 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 | P Sample pH Not In Range |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1602B49

01-Apr-16

Client: Western Refining Southwest, Gallup

Project: Quarterly GW Sampling

Sample ID	2.5UG GRO LCS	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	LCSW	Batch ID: A32557			RunNo: 32557					
Prep Date:		Analysis Date: 3/3/2016			SeqNo: 996056		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.49	0.050	0.5000	0	98.8	80	120			
Surr: BFB	20		20.00		102	49.5	130			

Sample ID	1602B49-017AMS		SampType: MS		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	MKTF-18		Batch ID: A32557		RunNo: 32557					
Prep Date:			Analysis Date: 3/3/2016		SeqNo: 996058		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	3.5	0.25	2.500	0.7930	109	70	130			
Surr: BFB	110		100.0		110	49.5	130			

Sample ID	1602B49-017AMSD		SampType: MSD		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	MKTF-18		Batch ID: A32557		RunNo: 32557					
Prep Date:			Analysis Date: 3/3/2016		SeqNo: 996059		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	3.5	0.25	2.500	0.7930	107	70	130	0.773	20	
Surr: BFB	110		100.0		111	49.5	130	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E 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	P Sample pH Not In Range
R RPD outside accepted recovery limits	RL Reporting Detection Limit
S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1602B49

01-Apr-16

Client: Western Refining Southwest, Gallup

Project: Quarterly GW Sampling

Sample ID 100ng lcs	SampType: LCS			TestCode: EPA Method 8260B: VOLATILES						
Client ID: LCSW	Batch ID: R32574			RunNo: 32574						
Prep Date:	Analysis Date: 3/3/2016			SeqNo: 996625		Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	21	1.0	20.00	0	106	70	130			
Toluene	20	1.0	20.00	0	101	70	130			
Chlorobenzene	21	1.0	20.00	0	107	70	130			
1,1-Dichloroethene	21	1.0	20.00	0	107	70	130			
Trichloroethene (TCE)	21	1.0	20.00	0	106	70	130			
Surr: 1,2-Dichloroethane-d4	10		10.00		103	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		99.8	70	130			
Surr: Dibromofluoromethane	12		10.00		116	70	130			
Surr: Toluene-d8	10		10.00		103	70	130			

Sample ID 1602b49-001a ms	SampType: MS			TestCode: EPA Method 8260B: VOLATILES						
Client ID: MKTF-19	Batch ID: R32574			RunNo: 32574						
Prep Date:	Analysis Date: 3/4/2016			SeqNo: 996629		Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	2000	20	400.0	1536	106	70	130			
Toluene	430	20	400.0	5.008	106	70	130			
Chlorobenzene	440	20	400.0	0	110	70	130			
1,1-Dichloroethene	420	20	400.0	0	105	70	130			
Trichloroethene (TCE)	380	20	400.0	0	93.9	70	130			
Surr: 1,2-Dichloroethane-d4	190		200.0		92.8	70	130			
Surr: 4-Bromofluorobenzene	180		200.0		91.5	70	130			
Surr: Dibromofluoromethane	190		200.0		96.1	70	130			
Surr: Toluene-d8	200		200.0		101	70	130			

Sample ID 1602b49-001a msd	SampType: MSD			TestCode: EPA Method 8260B: VOLATILES						
Client ID: MKTF-19	Batch ID: R32574			RunNo: 32574						
Prep Date:	Analysis Date: 3/4/2016			SeqNo: 996630		Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	2000	20	400.0	1536	110	70	130	0.862	20	
Toluene	400	20	400.0	5.008	99.3	70	130	6.87	20	
Chlorobenzene	420	20	400.0	0	105	70	130	4.78	20	
1,1-Dichloroethene	390	20	400.0	0	98.1	70	130	6.73	20	
Trichloroethene (TCE)	380	20	400.0	0	94.5	70	130	0.666	20	
Surr: 1,2-Dichloroethane-d4	190		200.0		97.5	70	130	0	0	
Surr: 4-Bromofluorobenzene	170		200.0		85.2	70	130	0	0	
Surr: Dibromofluoromethane	200		200.0		99.8	70	130	0	0	
Surr: Toluene-d8	190		200.0		94.5	70	130	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E 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	P Sample pH Not In Range
R RPD outside accepted recovery limits	RL Reporting Detection Limit
S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1602B49

01-Apr-16

Client: Western Refining Southwest, Gallup

Project: Quarterly GW Sampling

Sample ID	rb	SampType: MBLK			TestCode: EPA Method 8260B: VOLATILES					
Client ID:	PBW	Batch ID: R32574			RunNo: 32574					
Prep Date:		Analysis Date: 3/3/2016			SeqNo: 996651		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								

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Detection Limit
W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1602B49

01-Apr-16

Client: Western Refining Southwest, Gallup

Project: Quarterly GW Sampling

Sample ID	rb	SampType: MBLK				TestCode: EPA Method 8260B: VOLATILES				
Client ID:	PBW	Batch ID: R32574				RunNo: 32574				
Prep Date:		Analysis Date: 3/3/2016				SeqNo: 996651	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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	3.0								
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	9.5		10.00		94.9	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		102	70	130			
Surr: Dibromofluoromethane	10		10.00		105	70	130			
Surr: Toluene-d8	9.9		10.00		99.3	70	130			

Sample ID	100ng lcs2	SampType: LCS				TestCode: EPA Method 8260B: VOLATILES				
Client ID:	LCSW	Batch ID: B32574				RunNo: 32574				
Prep Date:		Analysis Date: 3/4/2016				SeqNo: 996658	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	22	1.0	20.00	0	111	70	130			
Toluene	22	1.0	20.00	0	108	70	130			
Chlorobenzene	21	1.0	20.00	0	107	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1602B49

01-Apr-16

Client: Western Refining Southwest, Gallup

Project: Quarterly GW Sampling

Sample ID 100ng lcs2	SampType: LCS			TestCode: EPA Method 8260B: VOLATILES							
Client ID: LCSW	Batch ID: B32574			RunNo: 32574							
Prep Date:	Analysis Date: 3/4/2016			SeqNo: 996658		Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
1,1-Dichloroethene	23	1.0	20.00	0	114	70	130				
Trichloroethene (TCE)	21	1.0	20.00	0	103	70	130				
Surr: 1,2-Dichloroethane-d4	10		10.00		101	70	130				
Surr: 4-Bromofluorobenzene	11		10.00		106	70	130				
Surr: Dibromofluoromethane	11		10.00		113	70	130				
Surr: Toluene-d8	11		10.00		106	70	130				

Sample ID rb4	SampType: MBLK			TestCode: EPA Method 8260B: VOLATILES							
Client ID: PBW	Batch ID: B32574			RunNo: 32574							
Prep Date:	Analysis Date: 3/4/2016			SeqNo: 996675		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									

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Detection Limit
W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1602B49

01-Apr-16

Client: Western Refining Southwest, Gallup

Project: Quarterly GW Sampling

Sample ID: rb4	SampType: MBLK			TestCode: EPA Method 8260B: VOLATILES						
Client ID: PBW	Batch ID: B32574			RunNo: 32574						
Prep Date:	Analysis Date: 3/4/2016			SeqNo: 996675		Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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	3.0								
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	9.1		10.00		90.6	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	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	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1602B49

01-Apr-16

Client: Western Refining Southwest, Gallup

Project: Quarterly GW Sampling

Sample ID	rb4		SampType: MBLK		TestCode: EPA Method 8260B: VOLATILES					
Client ID:	PBW		Batch ID: B32574		RunNo: 32574					
Prep Date:			Analysis Date: 3/4/2016		SeqNo: 996675		Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	9.9		10.00		98.6	70	130			
Surr: Dibromofluoromethane	10		10.00		100	70	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: R32609			RunNo: 32609					
Prep Date:		Analysis Date: 3/4/2016			SeqNo: 997685		Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	10		10.00		101	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		102	70	130			
Surr: Dibromofluoromethane	10		10.00		103	70	130			
Surr: Toluene-d8	10		10.00		100	70	130			

Sample ID	rb	SampType: MBLK			TestCode: EPA Method 8260B: VOLATILES					
Client ID:	PBW	Batch ID: R32609			RunNo: 32609					
Prep Date:		Analysis Date: 3/4/2016			SeqNo: 997709		Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Bromomethane	ND	3.0								
Surr: 1,2-Dichloroethane-d4	9.7		10.00		96.7	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		104	70	130			
Surr: Dibromofluoromethane	11		10.00		112	70	130			
Surr: Toluene-d8	10		10.00		104	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Detection Limit
W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1602B49

01-Apr-16

Client: Western Refining Southwest, Gallup

Project: Quarterly GW Sampling

Sample ID	mb-23981		SampType: MBLK		TestCode: EPA Method 8270C: Semivolatiles					
Client ID:	PBW		Batch ID: 23981		RunNo: 32524					
Prep Date:	2/29/2016		Analysis Date: 3/2/2016		SeqNo: 995048		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								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	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	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1602B49

01-Apr-16

Client: Western Refining Southwest, Gallup

Project: Quarterly GW Sampling

Sample ID	mb-23981		SampType: MBLK			TestCode: EPA Method 8270C: Semivolatiles				
Client ID:	PBW		Batch ID: 23981			RunNo: 32524				
Prep Date:	2/29/2016		Analysis Date: 3/2/2016			SeqNo: 995048		Units: µg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2,4-Dinitrotoluene	ND	10								
2,6-Dinitrotoluene	ND	10								
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	10								
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-Fluorophenol	190		200.0		92.6	4.63	113			
Surr: Phenol-d5	190		200.0		94.1	4.13	124			
Surr: 2,4,6-Tribromophenol	94		200.0		47.2	5.14	132			
Surr: Nitrobenzene-d5	87		100.0		87.4	9.13	140			
Surr: 2-Fluorobiphenyl	87		100.0		86.9	10.8	132			
Surr: 4-Terphenyl-d14	110		100.0		110	12.9	107			S

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	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	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1602B49

01-Apr-16

Client: Western Refining Southwest, Gallup

Project: Quarterly GW Sampling

Sample ID	lcs-23981		SampType: LCS		TestCode: EPA Method 8270C: Semivolatiles					
Client ID:	LCSW		Batch ID: 23981		RunNo: 32524					
Prep Date:	2/29/2016		Analysis Date: 3/2/2016		SeqNo: 995049		Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	91	10	100.0	0	91.0	40.2	107			
4-Chloro-3-methylphenol	160	10	200.0	0	77.5	48.2	107			
2-Chlorophenol	160	10	200.0	0	81.6	42.5	106			
1,4-Dichlorobenzene	83	10	100.0	0	83.3	31.6	111			
2,4-Dinitrotoluene	68	10	100.0	0	67.8	33.6	86.5			
N-Nitrosodi-n-propylamine	85	10	100.0	0	84.8	44	106			
4-Nitrophenol	130	10	200.0	0	63.3	25.5	109			
Pentachlorophenol	97	20	200.0	0	48.6	38.8	97.8			
Phenol	170	10	200.0	0	84.5	22.7	116			
Pyrene	77	10	100.0	0	76.8	29.3	138			
1,2,4-Trichlorobenzene	84	10	100.0	0	83.6	35.3	123			
Surr: 2-Fluorophenol	160		200.0		80.0	4.63	113			
Surr: Phenol-d5	170		200.0		84.9	4.13	124			
Surr: 2,4,6-Tribromophenol	100		200.0		51.0	5.14	132			
Surr: Nitrobenzene-d5	84		100.0		84.1	9.13	140			
Surr: 2-Fluorobiphenyl	91		100.0		91.2	10.8	132			
Surr: 4-Terphenyl-d14	100		100.0		99.8	12.9	107			

Sample ID	mb-24000		SampType: MBLK		TestCode: EPA Method 8270C: Semivolatiles					
Client ID:	PBW		Batch ID: 24000		RunNo: 32558					
Prep Date:	3/1/2016		Analysis Date: 3/3/2016		SeqNo: 996116		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								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	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	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1602B49

01-Apr-16

Client: Western Refining Southwest, Gallup

Project: Quarterly GW Sampling

Sample ID	mb-24000		SampType: MBLK		TestCode: EPA Method 8270C: Semivolatiles					
Client ID:	PBW		Batch ID: 24000		RunNo: 32558					
Prep Date:	3/1/2016		Analysis Date: 3/3/2016		SeqNo: 996116		Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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								
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								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	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	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1602B49

01-Apr-16

Client: Western Refining Southwest, Gallup

Project: Quarterly GW Sampling

Sample ID	mb-24000		SampType:	MBLK		TestCode:	EPA Method 8270C: Semivolatiles			
Client ID:	PBW		Batch ID:	24000		RunNo:	32558			
Prep Date:	3/1/2016		Analysis Date:	3/3/2016		SeqNo:	996116		Units: µg/L	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
N-Nitrosodiphenylamine	ND	10								
Naphthalene	ND	10								
2-Nitroaniline	ND	10								
3-Nitroaniline	ND	10								
4-Nitroaniline	ND	10								
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-Fluorophenol	220		200.0		109	4.63	113			
Surr: Phenol-d5	210		200.0		105	4.13	124			
Surr: 2,4,6-Tribromophenol	130		200.0		64.6	5.14	132			
Surr: Nitrobenzene-d5	110		100.0		107	9.13	140			
Surr: 2-Fluorobiphenyl	110		100.0		114	10.8	132			
Surr: 4-Terphenyl-d14	100		100.0		101	12.9	107			

Sample ID	lcs-24000		SampType:	LCS		TestCode:	EPA Method 8270C: Semivolatiles			
Client ID:	LCSW		Batch ID:	24000		RunNo:	32558			
Prep Date:	3/1/2016		Analysis Date:	3/3/2016		SeqNo:	996117		Units: µg/L	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	91	10	100.0	0	91.0	40.2	107			
4-Chloro-3-methylphenol	180	10	200.0	0	88.4	48.2	107			
2-Chlorophenol	180	10	200.0	0	88.7	42.5	106			
1,4-Dichlorobenzene	90	10	100.0	0	89.5	31.6	111			
2,4-Dinitrotoluene	79	10	100.0	0	78.7	33.6	86.5			
N-Nitrosodi-n-propylamine	89	10	100.0	0	88.9	44	106			
4-Nitrophenol	140	10	200.0	0	69.4	25.5	109			
Pentachlorophenol	110	20	200.0	0	55.8	38.8	97.8			
Phenol	190	10	200.0	0	93.2	22.7	116			
Pyrene	81	10	100.0	0	81.0	29.3	138			
1,2,4-Trichlorobenzene	98	10	100.0	0	97.7	35.3	123			

Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E 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	P Sample pH Not In Range
R RPD outside accepted recovery limits	RL Reporting Detection Limit
S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1602B49

01-Apr-16

Client: Western Refining Southwest, Gallup

Project: Quarterly GW Sampling

Sample ID	Ics-24000		SampType: LCS		TestCode: EPA Method 8270C: Semivolatiles					
Client ID:	LCSW		Batch ID: 24000		RunNo: 32558					
Prep Date:	3/1/2016		Analysis Date: 3/3/2016		SeqNo: 996117		Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 2-Fluorophenol	170		200.0		86.6	4.63	113			
Surr: Phenol-d5	190		200.0		93.2	4.13	124			
Surr: 2,4,6-Tribromophenol	140		200.0		67.8	5.14	132			
Surr: Nitrobenzene-d5	91		100.0		91.0	9.13	140			
Surr: 2-Fluorobiphenyl	92		100.0		92.2	10.8	132			
Surr: 4-Terphenyl-d14	80		100.0		79.9	12.9	107			

Sample ID	1602b49-007cms		SampType: MS		TestCode: EPA Method 8270C: Semivolatiles					
Client ID:	MKTF-1		Batch ID: 24000		RunNo: 32558					
Prep Date:	3/1/2016		Analysis Date: 3/3/2016		SeqNo: 996125		Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	94	10	100.0	0	93.5	46.4	121			
4-Chloro-3-methylphenol	160	10	200.0	0	79.5	45.3	135			
2-Chlorophenol	160	10	200.0	0	82.2	23.9	133			
1,4-Dichlorobenzene	91	10	100.0	0	91.0	42.6	104			
2,4-Dinitrotoluene	84	10	100.0	0	83.8	28.9	126			
N-Nitrosodi-n-propylamine	91	10	100.0	0	91.1	49.2	117			
4-Nitrophenol	13	10	200.0	0	6.53	18.1	97.2			S
Pentachlorophenol	52	20	200.0	0	26.0	24.8	127			
Phenol	100	10	200.0	12.42	46.0	17.9	93.6			
Pyrene	82	10	100.0	0	81.5	29.6	142			
1,2,4-Trichlorobenzene	94	10	100.0	0	93.8	39.5	109			
Surr: 2-Fluorophenol	85		200.0		42.4	4.63	113			
Surr: Phenol-d5	84		200.0		42.0	4.13	124			
Surr: 2,4,6-Tribromophenol	140		200.0		69.0	5.14	132			
Surr: Nitrobenzene-d5	78		100.0		77.8	9.13	140			
Surr: 2-Fluorobiphenyl	93		100.0		92.5	10.8	132			
Surr: 4-Terphenyl-d14	62		100.0		62.1	12.9	107			

Sample ID	1602b49-007cmsd		SampType: MSD		TestCode: EPA Method 8270C: Semivolatiles					
Client ID:	MKTF-1		Batch ID: 24000		RunNo: 32558					
Prep Date:	3/1/2016		Analysis Date: 3/3/2016		SeqNo: 996126		Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	74	10	100.0	0	74.2	25.5	126	23.1	31.3	
4-Chloro-3-methylphenol	130	10	200.0	0	64.4	26.6	138	20.9	29	
2-Chlorophenol	120	10	200.0	0	61.1	23.9	133	29.5	28.4	R
1,4-Dichlorobenzene	67	10	100.0	0	66.6	20.3	122	30.9	28.2	R
2,4-Dinitrotoluene	69	10	100.0	0	68.7	40	94.5	19.8	22.9	

Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E 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	P Sample pH Not In Range
R RPD outside accepted recovery limits	RL Reporting Detection Limit
S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1602B49

01-Apr-16

Client: Western Refining Southwest, Gallup

Project: Quarterly GW Sampling

Sample ID	1602b49-007cmsd	SampType: MSD			TestCode: EPA Method 8270C: Semivolatiles					
Client ID:	MKTF-1	Batch ID: 24000			RunNo: 32558					
Prep Date:	3/1/2016	Analysis Date: 3/3/2016			SeqNo: 996126		Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
N-Nitrosodi-n-propylamine	72	10	100.0	0	72.1	25.9	131	23.3	28.8	
4-Nitrophenol	18	10	200.0	0	8.84	17.2	88.9	30.1	41.5	S
Pentachlorophenol	63	20	200.0	0	31.4	13.6	123	18.7	45.1	
Phenol	77	10	200.0	12.42	32.2	20.7	100	30.5	33.9	
Pyrene	70	10	100.0	0	69.6	21.8	129	15.8	33.6	
1,2,4-Trichlorobenzene	65	10	100.0	0	64.5	22	130	37.0	28.2	R
Surr: 2-Fluorophenol	71		200.0		35.6	4.63	113	0	0	
Surr: Phenol-d5	61		200.0		30.5	4.13	124	0	0	
Surr: 2,4,6-Tribromophenol	120		200.0		62.0	5.14	132	0	0	
Surr: Nitrobenzene-d5	60		100.0		60.3	9.13	140	0	0	
Surr: 2-Fluorobiphenyl	70		100.0		70.2	10.8	132	0	0	
Surr: 4-Terphenyl-d14	54		100.0		53.6	12.9	107	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Detection Limit
W Sample container temperature is out of limit as specified

Sample Log-In Check List

Client Name: Western Refining Gallup

Work Order Number: 1602B49

RcptNo: 1

Received by/date:

JA 02/26/16

Logged By: Ashley Gallegos

2/26/2016 4:15:00 PM

AS

Completed By: Ashley Gallegos

2/29/2016 9:38:15 AM

AS

Reviewed By:

JA 02/29/16

Chain of Custody

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

Log In

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

of preserved bottles checked for pH: 4/5
(<2 or >12 unless noted)
Adjusted? NO
Checked by: AS

Special Handling (if applicable)

16. 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:			

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			

