

AP - 111

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

2016

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1609601

Date Reported: 10/25/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-21

Project: 2016 3RD QTR (MKTF)

Collection Date: 9/12/2016 8:40:00 AM

Lab ID: 1609601-001

Matrix: AQUEOUS

Received Date: 9/12/2016 3:20:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015M/D: DIESEL RANGE							Analyst: TOM	
Diesel Range Organics (DRO)	3.9	0.69	1.0		mg/L	1	9/14/2016 2:26:28 PM	27491
Motor Oil Range Organics (MRO)	ND	5.0	5.0		mg/L	1	9/14/2016 2:26:28 PM	27491
Surr: DNOP	123	0	77.1-144		%Rec	1	9/14/2016 2:26:28 PM	27491
EPA METHOD 300.0: ANIONS							Analyst: LGT	
Fluoride	ND	0.25	0.50		mg/L	5	9/13/2016 7:52:26 PM	R37171
Chloride	81	0.25	2.5		mg/L	5	9/13/2016 7:52:26 PM	R37171
Bromide	1.4	0.22	0.50		mg/L	5	9/13/2016 7:52:26 PM	R37171
Phosphorus, Orthophosphate (As P _i)	2.6	0.38	2.5		mg/L	5	9/13/2016 7:52:26 PM	R37171
Sulfate	19	0.71	2.5		mg/L	5	9/13/2016 7:52:26 PM	R37171
Nitrate+Nitrite as N	ND	0.46	1.0		mg/L	5	9/18/2016 5:50:54 PM	R37299
EPA METHOD 200.7: DISSOLVED METALS							Analyst: ELS	
Barium	2.5	0.0066	0.010	*	mg/L	5	9/29/2016 3:43:15 PM	F37552
Cadmium	ND	0.00075	0.0020		mg/L	1	9/29/2016 3:41:30 PM	F37552
Calcium	150	2.5	5.0		mg/L	5	9/29/2016 3:43:15 PM	F37552
Chromium	ND	0.0018	0.0060		mg/L	1	9/29/2016 3:41:30 PM	F37552
Copper	ND	0.0040	0.0060		mg/L	1	9/29/2016 3:41:30 PM	F37552
Iron	22	1.0	1.0	*	mg/L	50	10/3/2016 3:23:08 PM	B37643
Magnesium	18	0.50	1.0		mg/L	1	9/29/2016 3:41:30 PM	F37552
Manganese	3.7	0.0016	0.010	*	mg/L	5	9/29/2016 3:43:15 PM	F37552
Potassium	23	0.50	1.0		mg/L	1	9/29/2016 3:41:30 PM	F37552
Silver	ND	0.0028	0.0050		mg/L	1	9/29/2016 3:41:30 PM	F37552
Sodium	110	2.5	5.0		mg/L	5	9/29/2016 3:43:15 PM	F37552
Zinc	0.023	0.0028	0.010		mg/L	1	9/29/2016 3:41:30 PM	F37552
EPA METHOD 200.7: TOTAL METALS							Analyst: ELS	
Barium	2.7	0.0040	0.010	*	mg/L	5	10/3/2016 7:46:59 PM	27665
Cadmium	ND	0.0015	0.0020		mg/L	1	10/3/2016 7:37:32 PM	27665
Chromium	ND	0.0027	0.0060		mg/L	1	10/3/2016 7:37:32 PM	27665
Copper	0.0064	0.0030	0.0060		mg/L	1	10/12/2016 9:03:09 PM	27933
Iron	24	1.0	1.0	*	mg/L	50	10/4/2016 4:13:55 PM	27665
Manganese	4.1	0.0014	0.010	*	mg/L	5	10/3/2016 7:46:59 PM	27665
Silver	ND	0.0015	0.0050		mg/L	1	10/3/2016 7:37:32 PM	27665
Zinc	0.048	0.0027	0.010		mg/L	1	10/3/2016 7:37:32 PM	27665
EPA 200.8: DISSOLVED METALS							Analyst: JLF	
Arsenic	0.020	0.00014	0.0010	*	mg/L	1	9/23/2016 12:12:39 PM	A37462
Lead	0.0018	0.00017	0.00050		mg/L	1	9/23/2016 12:12:39 PM	A37462
Selenium	0.0094	0.0042	0.020	J	mg/L	20	9/23/2016 2:07:22 PM	B37462
Uranium	0.00071	0.000051	0.00050		mg/L	1	9/23/2016 12:12:39 PM	A37462

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

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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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Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
200.8 ICPMS METALS:TOTAL							Analyst: JLF	
Arsenic	0.019	0.0011	0.0050	*	mg/L	5	9/26/2016 5:04:56 PM	27665
Lead	0.0031	0.000081	0.00050		mg/L	1	9/26/2016 1:28:31 PM	27665
Selenium	0.0085	0.0037	0.020	J	mg/L	20	9/26/2016 5:07:56 PM	27665
Uranium	0.0010	0.00017	0.00050		mg/L	1	9/26/2016 5:22:22 PM	27665
EPA METHOD 245.1: MERCURY							Analyst: pmf	
Mercury	ND	0.000053	0.00020		mg/L	1	9/23/2016 11:25:26 AM	27664
EPA METHOD 8270C: SEMIVOLATILES							Analyst: DAM	
Acenaphthene	ND	26	100		µg/L	1	9/17/2016 6:49:07 PM	27514
Acenaphthylene	ND	24	100		µg/L	1	9/17/2016 6:49:07 PM	27514
Aniline	ND	24	100		µg/L	1	9/17/2016 6:49:07 PM	27514
Anthracene	ND	25	100		µg/L	1	9/17/2016 6:49:07 PM	27514
Azobenzene	ND	27	100		µg/L	1	9/17/2016 6:49:07 PM	27514
Benz(a)anthracene	ND	26	100		µg/L	1	9/17/2016 6:49:07 PM	27514
Benzo(a)pyrene	ND	27	100		µg/L	1	9/17/2016 6:49:07 PM	27514
Benzo(b)fluoranthene	ND	29	100		µg/L	1	9/17/2016 6:49:07 PM	27514
Benzo(g,h,i)perylene	ND	26	100		µg/L	1	9/17/2016 6:49:07 PM	27514
Benzo(k)fluoranthene	ND	30	100		µg/L	1	9/17/2016 6:49:07 PM	27514
Benzoic acid	63	26	200	J	µg/L	1	9/17/2016 6:49:07 PM	27514
Benzyl alcohol	ND	30	100		µg/L	1	9/17/2016 6:49:07 PM	27514
Bis(2-chloroethoxy)methane	ND	28	100		µg/L	1	9/17/2016 6:49:07 PM	27514
Bis(2-chloroethyl)ether	ND	27	100		µg/L	1	9/17/2016 6:49:07 PM	27514
Bis(2-chloroisopropyl)ether	ND	19	100		µg/L	1	9/17/2016 6:49:07 PM	27514
Bis(2-ethylhexyl)phthalate	56	26	100	J	µg/L	1	9/17/2016 6:49:07 PM	27514
4-Bromophenyl phenyl ether	ND	26	100		µg/L	1	9/17/2016 6:49:07 PM	27514
Butyl benzyl phthalate	ND	25	100		µg/L	1	9/17/2016 6:49:07 PM	27514
Carbazole	ND	23	100		µg/L	1	9/17/2016 6:49:07 PM	27514
4-Chloro-3-methylphenol	ND	26	100		µg/L	1	9/17/2016 6:49:07 PM	27514
4-Chloroaniline	ND	27	100		µg/L	1	9/17/2016 6:49:07 PM	27514
2-Chloronaphthalene	ND	23	100		µg/L	1	9/17/2016 6:49:07 PM	27514
2-Chlorophenol	ND	22	100		µg/L	1	9/17/2016 6:49:07 PM	27514
4-Chlorophenyl phenyl ether	ND	26	100		µg/L	1	9/17/2016 6:49:07 PM	27514
Chrysene	ND	28	100		µg/L	1	9/17/2016 6:49:07 PM	27514
Di-n-butyl phthalate	ND	24	100		µg/L	1	9/17/2016 6:49:07 PM	27514
Di-n-octyl phthalate	35	20	100	J	µg/L	1	9/17/2016 6:49:07 PM	27514
Dibenz(a,h)anthracene	ND	27	100		µg/L	1	9/17/2016 6:49:07 PM	27514
Dibenzofuran	ND	25	100		µg/L	1	9/17/2016 6:49:07 PM	27514
1,2-Dichlorobenzene	ND	23	100		µg/L	1	9/17/2016 6:49:07 PM	27514
1,3-Dichlorobenzene	ND	23	100		µg/L	1	9/17/2016 6:49:07 PM	27514

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EPA METHOD 8270C: SEMIVOLATILES							Analyst: DAM	
1,4-Dichlorobenzene	ND	24	100		µg/L	1	9/17/2016 6:49:07 PM	27514
3,3'-Dichlorobenzidine	ND	24	100		µg/L	1	9/17/2016 6:49:07 PM	27514
Diethyl phthalate	ND	27	100		µg/L	1	9/17/2016 6:49:07 PM	27514
Dimethyl phthalate	29	24	100	J	µg/L	1	9/17/2016 6:49:07 PM	27514
2,4-Dichlorophenol	ND	23	200		µg/L	1	9/17/2016 6:49:07 PM	27514
2,4-Dimethylphenol	ND	30	100		µg/L	1	9/17/2016 6:49:07 PM	27514
4,6-Dinitro-2-methylphenol	ND	18	200		µg/L	1	9/17/2016 6:49:07 PM	27514
2,4-Dinitrophenol	ND	28	200		µg/L	1	9/17/2016 6:49:07 PM	27514
2,4-Dinitrotoluene	ND	31	100		µg/L	1	9/17/2016 6:49:07 PM	27514
2,6-Dinitrotoluene	ND	27	100		µg/L	1	9/17/2016 6:49:07 PM	27514
Fluoranthene	ND	26	100		µg/L	1	9/17/2016 6:49:07 PM	27514
Fluorene	ND	27	100		µg/L	1	9/17/2016 6:49:07 PM	27514
Hexachlorobenzene	ND	26	100		µg/L	1	9/17/2016 6:49:07 PM	27514
Hexachlorobutadiene	ND	22	100		µg/L	1	9/17/2016 6:49:07 PM	27514
Hexachlorocyclopentadiene	ND	23	100		µg/L	1	9/17/2016 6:49:07 PM	27514
Hexachloroethane	ND	24	100		µg/L	1	9/17/2016 6:49:07 PM	27514
Indeno(1,2,3-cd)pyrene	ND	30	100		µg/L	1	9/17/2016 6:49:07 PM	27514
Isophorone	ND	26	100		µg/L	1	9/17/2016 6:49:07 PM	27514
1-Methylnaphthalene	ND	29	100		µg/L	1	9/17/2016 6:49:07 PM	27514
2-Methylnaphthalene	ND	29	100		µg/L	1	9/17/2016 6:49:07 PM	27514
2-Methylphenol	ND	25	100		µg/L	1	9/17/2016 6:49:07 PM	27514
3+4-Methylphenol	420	23	100		µg/L	1	9/17/2016 6:49:07 PM	27514
N-Nitrosodi-n-propylamine	ND	24	100		µg/L	1	9/17/2016 6:49:07 PM	27514
N-Nitrosodimethylamine	ND	22	100		µg/L	1	9/17/2016 6:49:07 PM	27514
N-Nitrosodiphenylamine	ND	23	100		µg/L	1	9/17/2016 6:49:07 PM	27514
Naphthalene	ND	26	100		µg/L	1	9/17/2016 6:49:07 PM	27514
2-Nitroaniline	ND	28	100		µg/L	1	9/17/2016 6:49:07 PM	27514
3-Nitroaniline	ND	29	100		µg/L	1	9/17/2016 6:49:07 PM	27514
4-Nitroaniline	ND	26	100		µg/L	1	9/17/2016 6:49:07 PM	27514
Nitrobenzene	ND	28	100		µg/L	1	9/17/2016 6:49:07 PM	27514
2-Nitrophenol	ND	24	100		µg/L	1	9/17/2016 6:49:07 PM	27514
4-Nitrophenol	ND	26	100		µg/L	1	9/17/2016 6:49:07 PM	27514
Pentachlorophenol	24	23	200	J	µg/L	1	9/17/2016 6:49:07 PM	27514
Phenanthrene	ND	26	100		µg/L	1	9/17/2016 6:49:07 PM	27514
Phenol	80	20	100	J	µg/L	1	9/17/2016 6:49:07 PM	27514
Pyrene	ND	31	100		µg/L	1	9/17/2016 6:49:07 PM	27514
Pyridine	ND	22	100		µg/L	1	9/17/2016 6:49:07 PM	27514
1,2,4-Trichlorobenzene	ND	26	100		µg/L	1	9/17/2016 6:49:07 PM	27514
2,4,5-Trichlorophenol	ND	22	100		µg/L	1	9/17/2016 6:49:07 PM	27514

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EPA METHOD 8270C: SEMIVOLATILES							Analyst: DAM	
2,4,6-Trichlorophenol	ND	24	100		µg/L	1	9/17/2016 6:49:07 PM	27514
Surr: 2-Fluorophenol	39.7	0	15-123		%Rec	1	9/17/2016 6:49:07 PM	27514
Surr: Phenol-d5	34.4	0	15-124		%Rec	1	9/17/2016 6:49:07 PM	27514
Surr: 2,4,6-Tribromophenol	90.8	0	18.4-134		%Rec	1	9/17/2016 6:49:07 PM	27514
Surr: Nitrobenzene-d5	80.0	0	28.8-134		%Rec	1	9/17/2016 6:49:07 PM	27514
Surr: 2-Fluorobiphenyl	77.4	0	35.9-125		%Rec	1	9/17/2016 6:49:07 PM	27514
Surr: 4-Terphenyl-d14	52.6	0	15-146		%Rec	1	9/17/2016 6:49:07 PM	27514
EPA METHOD 8260B: VOLATILES							Analyst: DJF	
Benzene	9300	48	500		µg/L	500	9/15/2016 7:36:54 PM	W37240
Toluene	59	5.9	50		µg/L	50	9/15/2016 2:20:43 PM	W37240
Ethylbenzene	480	5.6	50		µg/L	50	9/15/2016 2:20:43 PM	W37240
Methyl tert-butyl ether (MTBE)	680	11	50		µg/L	50	9/15/2016 2:20:43 PM	W37240
1,2,4-Trimethylbenzene	240	5.5	50		µg/L	50	9/15/2016 2:20:43 PM	W37240
1,3,5-Trimethylbenzene	110	5.8	50		µg/L	50	9/15/2016 2:20:43 PM	W37240
1,2-Dichloroethane (EDC)	ND	5.8	50		µg/L	50	9/15/2016 2:20:43 PM	W37240
1,2-Dibromoethane (EDB)	ND	5.6	50		µg/L	50	9/15/2016 2:20:43 PM	W37240
Naphthalene	30	4.6	100	J	µg/L	50	9/15/2016 2:20:43 PM	W37240
1-Methylnaphthalene	15	10	200	J	µg/L	50	9/15/2016 2:20:43 PM	W37240
2-Methylnaphthalene	14	7.9	200	J	µg/L	50	9/15/2016 2:20:43 PM	W37240
Acetone	ND	250	500		µg/L	50	9/15/2016 2:20:43 PM	W37240
Bromobenzene	ND	4.9	50		µg/L	50	9/15/2016 2:20:43 PM	W37240
Bromodichloromethane	ND	7.0	50		µg/L	50	9/15/2016 2:20:43 PM	W37240
Bromoform	ND	5.1	50		µg/L	50	9/15/2016 2:20:43 PM	W37240
Bromomethane	ND	39	150		µg/L	50	9/15/2016 2:20:43 PM	W37240
2-Butanone	ND	37	500		µg/L	50	9/15/2016 2:20:43 PM	W37240
Carbon disulfide	ND	30	500		µg/L	50	9/15/2016 2:20:43 PM	W37240
Carbon Tetrachloride	ND	5.4	50		µg/L	50	9/15/2016 2:20:43 PM	W37240
Chlorobenzene	ND	5.7	50		µg/L	50	9/15/2016 2:20:43 PM	W37240
Chloroethane	ND	9.6	100		µg/L	50	9/15/2016 2:20:43 PM	W37240
Chloroform	ND	4.4	50		µg/L	50	9/15/2016 2:20:43 PM	W37240
Chloromethane	ND	11	150		µg/L	50	9/15/2016 2:20:43 PM	W37240
2-Chlorotoluene	ND	20	50		µg/L	50	9/15/2016 2:20:43 PM	W37240
4-Chlorotoluene	ND	6.4	50		µg/L	50	9/15/2016 2:20:43 PM	W37240
cis-1,2-DCE	ND	6.2	50		µg/L	50	9/15/2016 2:20:43 PM	W37240
cis-1,3-Dichloropropene	ND	5.3	50		µg/L	50	9/15/2016 2:20:43 PM	W37240
1,2-Dibromo-3-chloropropane	ND	12	100		µg/L	50	9/15/2016 2:20:43 PM	W37240
Dibromochloromethane	ND	4.3	50		µg/L	50	9/15/2016 2:20:43 PM	W37240
Dibromomethane	ND	6.0	50		µg/L	50	9/15/2016 2:20:43 PM	W37240
1,2-Dichlorobenzene	ND	20	50		µg/L	50	9/15/2016 2:20:43 PM	W37240

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EPA METHOD 8260B: VOLATILES							Analyst: DJF	
1,3-Dichlorobenzene	ND	7.2	50		µg/L	50	9/15/2016 2:20:43 PM	W37240
1,4-Dichlorobenzene	ND	7.1	50		µg/L	50	9/15/2016 2:20:43 PM	W37240
Dichlorodifluoromethane	ND	18	50		µg/L	50	9/15/2016 2:20:43 PM	W37240
1,1-Dichloroethane	ND	5.4	50		µg/L	50	9/15/2016 2:20:43 PM	W37240
1,1-Dichloroethene	ND	5.4	50		µg/L	50	9/15/2016 2:20:43 PM	W37240
1,2-Dichloropropane	ND	5.5	50		µg/L	50	9/15/2016 2:20:43 PM	W37240
1,3-Dichloropropane	ND	7.8	50		µg/L	50	9/15/2016 2:20:43 PM	W37240
2,2-Dichloropropane	ND	8.3	100		µg/L	50	9/15/2016 2:20:43 PM	W37240
1,1-Dichloropropene	ND	6.7	50		µg/L	50	9/15/2016 2:20:43 PM	W37240
Hexachlorobutadiene	ND	9.9	50		µg/L	50	9/15/2016 2:20:43 PM	W37240
2-Hexanone	ND	42	500		µg/L	50	9/15/2016 2:20:43 PM	W37240
Isopropylbenzene	8.2	5.2	50	J	µg/L	50	9/15/2016 2:20:43 PM	W37240
4-Isopropyltoluene	ND	7.0	50		µg/L	50	9/15/2016 2:20:43 PM	W37240
4-Methyl-2-pentanone	48	21	500	J	µg/L	50	9/15/2016 2:20:43 PM	W37240
Methylene Chloride	ND	9.4	150		µg/L	50	9/15/2016 2:20:43 PM	W37240
n-Butylbenzene	ND	8.0	150		µg/L	50	9/15/2016 2:20:43 PM	W37240
n-Propylbenzene	21	6.6	50	J	µg/L	50	9/15/2016 2:20:43 PM	W37240
sec-Butylbenzene	ND	6.2	50		µg/L	50	9/15/2016 2:20:43 PM	W37240
Styrene	ND	5.5	50		µg/L	50	9/15/2016 2:20:43 PM	W37240
tert-Butylbenzene	ND	5.8	50		µg/L	50	9/15/2016 2:20:43 PM	W37240
1,1,1,2-Tetrachloroethane	ND	5.6	50		µg/L	50	9/15/2016 2:20:43 PM	W37240
1,1,2,2-Tetrachloroethane	ND	6.4	100		µg/L	50	9/15/2016 2:20:43 PM	W37240
Tetrachloroethene (PCE)	ND	7.6	50		µg/L	50	9/15/2016 2:20:43 PM	W37240
trans-1,2-DCE	ND	20	50		µg/L	50	9/15/2016 2:20:43 PM	W37240
trans-1,3-Dichloropropene	ND	5.2	50		µg/L	50	9/15/2016 2:20:43 PM	W37240
1,2,3-Trichlorobenzene	ND	5.6	50		µg/L	50	9/15/2016 2:20:43 PM	W37240
1,2,4-Trichlorobenzene	ND	6.6	50		µg/L	50	9/15/2016 2:20:43 PM	W37240
1,1,1-Trichloroethane	ND	4.6	50		µg/L	50	9/15/2016 2:20:43 PM	W37240
1,1,2-Trichloroethane	ND	6.4	50		µg/L	50	9/15/2016 2:20:43 PM	W37240
Trichloroethene (TCE)	ND	8.8	50		µg/L	50	9/15/2016 2:20:43 PM	W37240
Trichlorofluoromethane	ND	10	50		µg/L	50	9/15/2016 2:20:43 PM	W37240
1,2,3-Trichloropropane	ND	10	100		µg/L	50	9/15/2016 2:20:43 PM	W37240
Vinyl chloride	ND	9.8	50		µg/L	50	9/15/2016 2:20:43 PM	W37240
Xylenes, Total	2000	18	75		µg/L	50	9/15/2016 2:20:43 PM	W37240
Surr: 1,2-Dichloroethane-d4	99.4	0	70-130		%Rec	50	9/15/2016 2:20:43 PM	W37240
Surr: 4-Bromofluorobenzene	96.8	0	70-130		%Rec	50	9/15/2016 2:20:43 PM	W37240
Surr: Dibromofluoromethane	105	0	70-130		%Rec	50	9/15/2016 2:20:43 PM	W37240
Surr: Toluene-d8	91.9	0	70-130		%Rec	50	9/15/2016 2:20:43 PM	W37240

EPA METHOD 8015D: GASOLINE RANGE

Analyst: DJF

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 1609601

Date Reported: 10/25/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-21

Project: 2016 3RD QTR (MKTF)

Collection Date: 9/12/2016 8:40:00 AM

Lab ID: 1609601-001

Matrix: AQUEOUS

Received Date: 9/12/2016 3:20:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: GASOLINE RANGE							Analyst: DJF	
Gasoline Range Organics (GRO)	28	0.75	2.5		mg/L	50	9/15/2016 2:20:43 PM	G37240
Surr: BFB	94.6	0	70-130		%Rec	50	9/15/2016 2:20:43 PM	G37240

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 1609601

Date Reported: 10/25/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-20

Project: 2016 3RD QTR (MKTF)

Collection Date: 9/12/2016 9:25:00 AM

Lab ID: 1609601-002

Matrix: AQUEOUS

Received Date: 9/12/2016 3:20:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015M/D: DIESEL RANGE							Analyst: TOM	
Diesel Range Organics (DRO)	8.7	0.69	1.0		mg/L	1	9/14/2016 3:31:51 PM	27491
Motor Oil Range Organics (MRO)	ND	5.0	5.0		mg/L	1	9/14/2016 3:31:51 PM	27491
Surr: DNOP	133	0	77.1-144		%Rec	1	9/14/2016 3:31:51 PM	27491
EPA METHOD 300.0: ANIONS							Analyst: LGT	
Fluoride	2.1	0.25	0.50		mg/L	5	9/13/2016 8:17:15 PM	R37171
Chloride	370	2.5	25		mg/L	50	9/23/2016 5:16:24 PM	R37469
Bromide	0.99	0.22	0.50		mg/L	5	9/13/2016 8:17:15 PM	R37171
Phosphorus, Orthophosphate (As P _i)	3.1	0.38	2.5		mg/L	5	9/13/2016 8:17:15 PM	R37171
Sulfate	1.2	0.71	2.5	J	mg/L	5	9/13/2016 8:17:15 PM	R37171
Nitrate+Nitrite as N	ND	0.46	1.0		mg/L	5	9/18/2016 6:03:19 PM	R37299
EPA METHOD 200.7: DISSOLVED METALS							Analyst: ELS	
Barium	4.7	0.0066	0.010	*	mg/L	5	9/29/2016 3:48:17 PM	F37552
Cadmium	ND	0.00075	0.0020		mg/L	1	9/29/2016 3:46:37 PM	F37552
Calcium	220	2.5	5.0		mg/L	5	9/29/2016 3:48:17 PM	F37552
Chromium	ND	0.0018	0.0060		mg/L	1	9/29/2016 3:46:37 PM	F37552
Copper	0.0046	0.0040	0.0060	J	mg/L	1	9/29/2016 3:46:37 PM	F37552
Iron	14	0.40	0.40	*	mg/L	20	9/29/2016 3:50:02 PM	F37552
Magnesium	45	0.50	1.0		mg/L	1	9/29/2016 3:46:37 PM	F37552
Manganese	3.8	0.0016	0.010	*	mg/L	5	9/29/2016 3:48:17 PM	F37552
Potassium	13	0.50	1.0		mg/L	1	9/29/2016 3:46:37 PM	F37552
Silver	ND	0.0028	0.0050		mg/L	1	9/29/2016 3:46:37 PM	F37552
Sodium	270	2.5	5.0		mg/L	5	9/29/2016 3:48:17 PM	F37552
Zinc	0.012	0.0028	0.010		mg/L	1	9/29/2016 3:46:37 PM	F37552
EPA METHOD 200.7: TOTAL METALS							Analyst: ELS	
Barium	5.2	0.0079	0.020	*	mg/L	10	10/4/2016 4:15:54 PM	27665
Cadmium	ND	0.0015	0.0020		mg/L	1	10/3/2016 7:48:47 PM	27665
Chromium	ND	0.0027	0.0060		mg/L	1	10/3/2016 7:48:47 PM	27665
Copper	0.022	0.0030	0.0060		mg/L	1	10/12/2016 9:04:52 PM	27933
Iron	17	1.0	1.0	*	mg/L	50	10/4/2016 4:17:45 PM	27665
Manganese	4.4	0.0014	0.010	*	mg/L	5	10/3/2016 7:50:29 PM	27665
Silver	ND	0.0015	0.0050		mg/L	1	10/3/2016 7:48:47 PM	27665
Zinc	0.033	0.0027	0.010		mg/L	1	10/3/2016 7:48:47 PM	27665
EPA 200.8: DISSOLVED METALS							Analyst: JLF	
Arsenic	0.027	0.00014	0.0010	*	mg/L	1	9/23/2016 12:21:52 PM	A37462
Lead	0.0040	0.00017	0.00050		mg/L	1	9/23/2016 12:21:52 PM	A37462
Selenium	0.0079	0.0011	0.0050		mg/L	5	9/23/2016 2:10:26 PM	B37462
Uranium	0.0033	0.000051	0.00050		mg/L	1	9/23/2016 12:21:52 PM	A37462

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 1609601

Date Reported: 10/25/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-20

Project: 2016 3RD QTR (MKTF)

Collection Date: 9/12/2016 9:25:00 AM

Lab ID: 1609601-002

Matrix: AQUEOUS

Received Date: 9/12/2016 3:20:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
200.8 ICPMS METALS:TOTAL							Analyst: JLF	
Arsenic	0.025	0.0011	0.0050	*	mg/L	5	9/26/2016 5:37:25 PM	27665
Lead	0.0072	0.000081	0.00050		mg/L	1	9/26/2016 1:54:39 PM	27665
Selenium	0.0092	0.00094	0.0050		mg/L	5	9/26/2016 5:37:25 PM	27665
Uranium	0.0044	0.00017	0.00050		mg/L	1	9/26/2016 5:25:22 PM	27665
EPA METHOD 245.1: MERCURY							Analyst: pmf	
Mercury	ND	0.000053	0.00020		mg/L	1	9/23/2016 11:27:32 AM	27664
EPA METHOD 8270C: SEMIVOLATILES							Analyst: DAM	
Acenaphthene	ND	26	100		µg/L	1	9/17/2016 7:16:47 PM	27514
Acenaphthylene	ND	24	100		µg/L	1	9/17/2016 7:16:47 PM	27514
Aniline	ND	24	100		µg/L	1	9/17/2016 7:16:47 PM	27514
Anthracene	ND	25	100		µg/L	1	9/17/2016 7:16:47 PM	27514
Azobenzene	ND	27	100		µg/L	1	9/17/2016 7:16:47 PM	27514
Benz(a)anthracene	ND	26	100		µg/L	1	9/17/2016 7:16:47 PM	27514
Benzo(a)pyrene	ND	27	100		µg/L	1	9/17/2016 7:16:47 PM	27514
Benzo(b)fluoranthene	ND	29	100		µg/L	1	9/17/2016 7:16:47 PM	27514
Benzo(g,h,i)perylene	ND	26	100		µg/L	1	9/17/2016 7:16:47 PM	27514
Benzo(k)fluoranthene	ND	30	100		µg/L	1	9/17/2016 7:16:47 PM	27514
Benzoic acid	130	26	200	J	µg/L	1	9/17/2016 7:16:47 PM	27514
Benzyl alcohol	ND	30	100		µg/L	1	9/17/2016 7:16:47 PM	27514
Bis(2-chloroethoxy)methane	ND	28	100		µg/L	1	9/17/2016 7:16:47 PM	27514
Bis(2-chloroethyl)ether	ND	27	100		µg/L	1	9/17/2016 7:16:47 PM	27514
Bis(2-chloroisopropyl)ether	ND	19	100		µg/L	1	9/17/2016 7:16:47 PM	27514
Bis(2-ethylhexyl)phthalate	36	26	100	J	µg/L	1	9/17/2016 7:16:47 PM	27514
4-Bromophenyl phenyl ether	ND	26	100		µg/L	1	9/17/2016 7:16:47 PM	27514
Butyl benzyl phthalate	ND	25	100		µg/L	1	9/17/2016 7:16:47 PM	27514
Carbazole	ND	23	100		µg/L	1	9/17/2016 7:16:47 PM	27514
4-Chloro-3-methylphenol	ND	26	100		µg/L	1	9/17/2016 7:16:47 PM	27514
4-Chloroaniline	ND	27	100		µg/L	1	9/17/2016 7:16:47 PM	27514
2-Chloronaphthalene	ND	23	100		µg/L	1	9/17/2016 7:16:47 PM	27514
2-Chlorophenol	ND	22	100		µg/L	1	9/17/2016 7:16:47 PM	27514
4-Chlorophenyl phenyl ether	ND	26	100		µg/L	1	9/17/2016 7:16:47 PM	27514
Chrysene	ND	28	100		µg/L	1	9/17/2016 7:16:47 PM	27514
Di-n-butyl phthalate	ND	24	100		µg/L	1	9/17/2016 7:16:47 PM	27514
Di-n-octyl phthalate	38	20	100	J	µg/L	1	9/17/2016 7:16:47 PM	27514
Dibenz(a,h)anthracene	ND	27	100		µg/L	1	9/17/2016 7:16:47 PM	27514
Dibenzofuran	ND	25	100		µg/L	1	9/17/2016 7:16:47 PM	27514
1,2-Dichlorobenzene	ND	23	100		µg/L	1	9/17/2016 7:16:47 PM	27514
1,3-Dichlorobenzene	ND	23	100		µg/L	1	9/17/2016 7:16:47 PM	27514

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 1609601

Date Reported: 10/25/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-20

Project: 2016 3RD QTR (MKTF)

Collection Date: 9/12/2016 9:25:00 AM

Lab ID: 1609601-002

Matrix: AQUEOUS

Received Date: 9/12/2016 3:20:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: DAM	
1,4-Dichlorobenzene	ND	24	100		µg/L	1	9/17/2016 7:16:47 PM	27514
3,3'-Dichlorobenzidine	ND	24	100		µg/L	1	9/17/2016 7:16:47 PM	27514
Diethyl phthalate	ND	27	100		µg/L	1	9/17/2016 7:16:47 PM	27514
Dimethyl phthalate	29	24	100	J	µg/L	1	9/17/2016 7:16:47 PM	27514
2,4-Dichlorophenol	ND	23	200		µg/L	1	9/17/2016 7:16:47 PM	27514
2,4-Dimethylphenol	390	30	100		µg/L	1	9/17/2016 7:16:47 PM	27514
4,6-Dinitro-2-methylphenol	ND	18	200		µg/L	1	9/17/2016 7:16:47 PM	27514
2,4-Dinitrophenol	ND	28	200		µg/L	1	9/17/2016 7:16:47 PM	27514
2,4-Dinitrotoluene	ND	31	100		µg/L	1	9/17/2016 7:16:47 PM	27514
2,6-Dinitrotoluene	ND	27	100		µg/L	1	9/17/2016 7:16:47 PM	27514
Fluoranthene	ND	26	100		µg/L	1	9/17/2016 7:16:47 PM	27514
Fluorene	ND	27	100		µg/L	1	9/17/2016 7:16:47 PM	27514
Hexachlorobenzene	ND	26	100		µg/L	1	9/17/2016 7:16:47 PM	27514
Hexachlorobutadiene	ND	22	100		µg/L	1	9/17/2016 7:16:47 PM	27514
Hexachlorocyclopentadiene	ND	23	100		µg/L	1	9/17/2016 7:16:47 PM	27514
Hexachloroethane	ND	24	100		µg/L	1	9/17/2016 7:16:47 PM	27514
Indeno(1,2,3-cd)pyrene	ND	30	100		µg/L	1	9/17/2016 7:16:47 PM	27514
Isophorone	ND	26	100		µg/L	1	9/17/2016 7:16:47 PM	27514
1-Methylnaphthalene	48	29	100	J	µg/L	1	9/17/2016 7:16:47 PM	27514
2-Methylnaphthalene	43	29	100	J	µg/L	1	9/17/2016 7:16:47 PM	27514
2-Methylphenol	190	25	100		µg/L	1	9/17/2016 7:16:47 PM	27514
3+4-Methylphenol	61	23	100	J	µg/L	1	9/17/2016 7:16:47 PM	27514
N-Nitrosodi-n-propylamine	ND	24	100		µg/L	1	9/17/2016 7:16:47 PM	27514
N-Nitrosodimethylamine	ND	22	100		µg/L	1	9/17/2016 7:16:47 PM	27514
N-Nitrosodiphenylamine	ND	23	100		µg/L	1	9/17/2016 7:16:47 PM	27514
Naphthalene	110	26	100		µg/L	1	9/17/2016 7:16:47 PM	27514
2-Nitroaniline	ND	28	100		µg/L	1	9/17/2016 7:16:47 PM	27514
3-Nitroaniline	ND	29	100		µg/L	1	9/17/2016 7:16:47 PM	27514
4-Nitroaniline	ND	26	100		µg/L	1	9/17/2016 7:16:47 PM	27514
Nitrobenzene	ND	28	100		µg/L	1	9/17/2016 7:16:47 PM	27514
2-Nitrophenol	ND	24	100		µg/L	1	9/17/2016 7:16:47 PM	27514
4-Nitrophenol	ND	26	100		µg/L	1	9/17/2016 7:16:47 PM	27514
Pentachlorophenol	25	23	200	J	µg/L	1	9/17/2016 7:16:47 PM	27514
Phenanthrene	ND	26	100		µg/L	1	9/17/2016 7:16:47 PM	27514
Phenol	61	20	100	J	µg/L	1	9/17/2016 7:16:47 PM	27514
Pyrene	ND	31	100		µg/L	1	9/17/2016 7:16:47 PM	27514
Pyridine	ND	22	100		µg/L	1	9/17/2016 7:16:47 PM	27514
1,2,4-Trichlorobenzene	ND	26	100		µg/L	1	9/17/2016 7:16:47 PM	27514
2,4,5-Trichlorophenol	ND	22	100		µg/L	1	9/17/2016 7:16:47 PM	27514

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 1609601

Date Reported: 10/25/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-20

Project: 2016 3RD QTR (MKTF)

Collection Date: 9/12/2016 9:25:00 AM

Lab ID: 1609601-002

Matrix: AQUEOUS

Received Date: 9/12/2016 3:20:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: DAM	
2,4,6-Trichlorophenol	ND	24	100		µg/L	1	9/17/2016 7:16:47 PM	27514
Surr: 2-Fluorophenol	27.2	0	15-123		%Rec	1	9/17/2016 7:16:47 PM	27514
Surr: Phenol-d5	30.4	0	15-124		%Rec	1	9/17/2016 7:16:47 PM	27514
Surr: 2,4,6-Tribromophenol	83.1	0	18.4-134		%Rec	1	9/17/2016 7:16:47 PM	27514
Surr: Nitrobenzene-d5	68.9	0	28.8-134		%Rec	1	9/17/2016 7:16:47 PM	27514
Surr: 2-Fluorobiphenyl	67.2	0	35.9-125		%Rec	1	9/17/2016 7:16:47 PM	27514
Surr: 4-Terphenyl-d14	46.6	0	15-146		%Rec	1	9/17/2016 7:16:47 PM	27514
EPA METHOD 8260B: VOLATILES							Analyst: DJF	
Benzene	18000	96	1000		µg/L	1000	9/15/2016 8:05:37 PM	W37240
Toluene	480	12	100		µg/L	100	9/15/2016 2:49:30 PM	W37240
Ethylbenzene	1300	11	100		µg/L	100	9/15/2016 2:49:30 PM	W37240
Methyl tert-butyl ether (MTBE)	160	21	100		µg/L	100	9/15/2016 2:49:30 PM	W37240
1,2,4-Trimethylbenzene	1300	11	100		µg/L	100	9/15/2016 2:49:30 PM	W37240
1,3,5-Trimethylbenzene	410	12	100		µg/L	100	9/15/2016 2:49:30 PM	W37240
1,2-Dichloroethane (EDC)	ND	12	100		µg/L	100	9/15/2016 2:49:30 PM	W37240
1,2-Dibromoethane (EDB)	ND	11	100		µg/L	100	9/15/2016 2:49:30 PM	W37240
Naphthalene	230	9.3	200		µg/L	100	9/15/2016 2:49:30 PM	W37240
1-Methylnaphthalene	53	20	400	J	µg/L	100	9/15/2016 2:49:30 PM	W37240
2-Methylnaphthalene	62	16	400	J	µg/L	100	9/15/2016 2:49:30 PM	W37240
Acetone	ND	490	1000		µg/L	100	9/15/2016 2:49:30 PM	W37240
Bromobenzene	ND	9.8	100		µg/L	100	9/15/2016 2:49:30 PM	W37240
Bromodichloromethane	ND	14	100		µg/L	100	9/15/2016 2:49:30 PM	W37240
Bromoform	ND	10	100		µg/L	100	9/15/2016 2:49:30 PM	W37240
Bromomethane	ND	78	300		µg/L	100	9/15/2016 2:49:30 PM	W37240
2-Butanone	ND	74	1000		µg/L	100	9/15/2016 2:49:30 PM	W37240
Carbon disulfide	ND	60	1000		µg/L	100	9/15/2016 2:49:30 PM	W37240
Carbon Tetrachloride	ND	11	100		µg/L	100	9/15/2016 2:49:30 PM	W37240
Chlorobenzene	ND	11	100		µg/L	100	9/15/2016 2:49:30 PM	W37240
Chloroethane	ND	19	200		µg/L	100	9/15/2016 2:49:30 PM	W37240
Chloroform	ND	8.9	100		µg/L	100	9/15/2016 2:49:30 PM	W37240
Chloromethane	ND	21	300		µg/L	100	9/15/2016 2:49:30 PM	W37240
2-Chlorotoluene	ND	40	100		µg/L	100	9/15/2016 2:49:30 PM	W37240
4-Chlorotoluene	ND	13	100		µg/L	100	9/15/2016 2:49:30 PM	W37240
cis-1,2-DCE	ND	12	100		µg/L	100	9/15/2016 2:49:30 PM	W37240
cis-1,3-Dichloropropene	ND	11	100		µg/L	100	9/15/2016 2:49:30 PM	W37240
1,2-Dibromo-3-chloropropane	ND	23	200		µg/L	100	9/15/2016 2:49:30 PM	W37240
Dibromochloromethane	ND	8.7	100		µg/L	100	9/15/2016 2:49:30 PM	W37240
Dibromomethane	ND	12	100		µg/L	100	9/15/2016 2:49:30 PM	W37240
1,2-Dichlorobenzene	ND	40	100		µg/L	100	9/15/2016 2:49:30 PM	W37240

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 1609601

Date Reported: 10/25/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-20

Project: 2016 3RD QTR (MKTF)

Collection Date: 9/12/2016 9:25:00 AM

Lab ID: 1609601-002

Matrix: AQUEOUS

Received Date: 9/12/2016 3:20:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: DJF	
1,3-Dichlorobenzene	ND	14	100		µg/L	100	9/15/2016 2:49:30 PM	W37240
1,4-Dichlorobenzene	ND	14	100		µg/L	100	9/15/2016 2:49:30 PM	W37240
Dichlorodifluoromethane	ND	36	100		µg/L	100	9/15/2016 2:49:30 PM	W37240
1,1-Dichloroethane	ND	11	100		µg/L	100	9/15/2016 2:49:30 PM	W37240
1,1-Dichloroethene	ND	11	100		µg/L	100	9/15/2016 2:49:30 PM	W37240
1,2-Dichloropropane	ND	11	100		µg/L	100	9/15/2016 2:49:30 PM	W37240
1,3-Dichloropropane	ND	16	100		µg/L	100	9/15/2016 2:49:30 PM	W37240
2,2-Dichloropropane	ND	17	200		µg/L	100	9/15/2016 2:49:30 PM	W37240
1,1-Dichloropropene	ND	13	100		µg/L	100	9/15/2016 2:49:30 PM	W37240
Hexachlorobutadiene	ND	20	100		µg/L	100	9/15/2016 2:49:30 PM	W37240
2-Hexanone	ND	84	1000		µg/L	100	9/15/2016 2:49:30 PM	W37240
Isopropylbenzene	28	10	100	J	µg/L	100	9/15/2016 2:49:30 PM	W37240
4-Isopropyltoluene	ND	14	100		µg/L	100	9/15/2016 2:49:30 PM	W37240
4-Methyl-2-pentanone	ND	43	1000		µg/L	100	9/15/2016 2:49:30 PM	W37240
Methylene Chloride	ND	19	300		µg/L	100	9/15/2016 2:49:30 PM	W37240
n-Butylbenzene	ND	16	300		µg/L	100	9/15/2016 2:49:30 PM	W37240
n-Propylbenzene	110	13	100		µg/L	100	9/15/2016 2:49:30 PM	W37240
sec-Butylbenzene	ND	12	100		µg/L	100	9/15/2016 2:49:30 PM	W37240
Styrene	ND	11	100		µg/L	100	9/15/2016 2:49:30 PM	W37240
tert-Butylbenzene	ND	12	100		µg/L	100	9/15/2016 2:49:30 PM	W37240
1,1,1,2-Tetrachloroethane	ND	11	100		µg/L	100	9/15/2016 2:49:30 PM	W37240
1,1,2,2-Tetrachloroethane	ND	13	200		µg/L	100	9/15/2016 2:49:30 PM	W37240
Tetrachloroethene (PCE)	ND	15	100		µg/L	100	9/15/2016 2:49:30 PM	W37240
trans-1,2-DCE	ND	40	100		µg/L	100	9/15/2016 2:49:30 PM	W37240
trans-1,3-Dichloropropene	ND	10	100		µg/L	100	9/15/2016 2:49:30 PM	W37240
1,2,3-Trichlorobenzene	ND	11	100		µg/L	100	9/15/2016 2:49:30 PM	W37240
1,2,4-Trichlorobenzene	ND	13	100		µg/L	100	9/15/2016 2:49:30 PM	W37240
1,1,1-Trichloroethane	ND	9.1	100		µg/L	100	9/15/2016 2:49:30 PM	W37240
1,1,2-Trichloroethane	ND	13	100		µg/L	100	9/15/2016 2:49:30 PM	W37240
Trichloroethene (TCE)	ND	18	100		µg/L	100	9/15/2016 2:49:30 PM	W37240
Trichlorofluoromethane	ND	20	100		µg/L	100	9/15/2016 2:49:30 PM	W37240
1,2,3-Trichloropropane	ND	20	200		µg/L	100	9/15/2016 2:49:30 PM	W37240
Vinyl chloride	ND	20	100		µg/L	100	9/15/2016 2:49:30 PM	W37240
Xylenes, Total	8800	37	150		µg/L	100	9/15/2016 2:49:30 PM	W37240
Surr: 1,2-Dichloroethane-d4	95.9	0	70-130		%Rec	100	9/15/2016 2:49:30 PM	W37240
Surr: 4-Bromofluorobenzene	95.0	0	70-130		%Rec	100	9/15/2016 2:49:30 PM	W37240
Surr: Dibromofluoromethane	107	0	70-130		%Rec	100	9/15/2016 2:49:30 PM	W37240
Surr: Toluene-d8	90.7	0	70-130		%Rec	100	9/15/2016 2:49:30 PM	W37240

EPA METHOD 8015D: GASOLINE RANGE

Analyst: DJF

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 1609601

Date Reported: 10/25/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-20

Project: 2016 3RD QTR (MKTF)

Collection Date: 9/12/2016 9:25:00 AM

Lab ID: 1609601-002

Matrix: AQUEOUS

Received Date: 9/12/2016 3:20:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: GASOLINE RANGE							Analyst: DJF	
Gasoline Range Organics (GRO)	72	1.5	5.0		mg/L	100	9/15/2016 2:49:30 PM	G37240
Surr: BFB	92.3	0	70-130		%Rec	100	9/15/2016 2:49:30 PM	G37240

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 1609601

Date Reported: 10/25/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-16

Project: 2016 3RD QTR (MKTF)

Collection Date: 9/12/2016 10:10:00 AM

Lab ID: 1609601-003

Matrix: AQUEOUS

Received Date: 9/12/2016 3:20:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015M/D: DIESEL RANGE							Analyst: TOM	
Diesel Range Organics (DRO)	3.5	0.69	1.0		mg/L	1	9/14/2016 3:53:36 PM	27491
Motor Oil Range Organics (MRO)	ND	5.0	5.0		mg/L	1	9/14/2016 3:53:36 PM	27491
Surr: DNOP	133	0	77.1-144		%Rec	1	9/14/2016 3:53:36 PM	27491
EPA METHOD 300.0: ANIONS							Analyst: LGT	
Fluoride	1.3	0.050	0.10		mg/L	1	9/13/2016 8:42:04 PM	R37171
Chloride	390	2.5	25		mg/L	50	9/23/2016 5:28:48 PM	R37469
Bromide	0.80	0.044	0.10		mg/L	1	9/13/2016 8:42:04 PM	R37171
Phosphorus, Orthophosphate (As P')	ND	0.076	0.50		mg/L	1	9/13/2016 8:42:04 PM	R37171
Sulfate	0.36	0.14	0.50	J	mg/L	1	9/13/2016 8:42:04 PM	R37171
Nitrate+Nitrite as N	ND	0.46	1.0		mg/L	5	9/18/2016 6:15:43 PM	R37299
EPA METHOD 200.7: DISSOLVED METALS							Analyst: ELS	
Barium	0.67	0.0013	0.0020		mg/L	1	9/29/2016 3:57:46 PM	F37552
Cadmium	ND	0.00075	0.0020		mg/L	1	9/29/2016 3:57:46 PM	F37552
Calcium	47	0.50	1.0		mg/L	1	9/29/2016 3:57:46 PM	F37552
Chromium	ND	0.0018	0.0060		mg/L	1	9/29/2016 3:57:46 PM	F37552
Copper	ND	0.0040	0.0060		mg/L	1	9/29/2016 3:57:46 PM	F37552
Iron	2.4	0.20	0.20	*	mg/L	10	9/29/2016 3:59:31 PM	F37552
Magnesium	13	0.50	1.0		mg/L	1	9/29/2016 3:57:46 PM	F37552
Manganese	0.94	0.00032	0.0020	*	mg/L	1	9/29/2016 3:57:46 PM	F37552
Potassium	0.68	0.50	1.0	J	mg/L	1	9/29/2016 3:57:46 PM	F37552
Silver	ND	0.0028	0.0050		mg/L	1	9/29/2016 3:57:46 PM	F37552
Sodium	660	5.0	10		mg/L	10	9/29/2016 3:59:31 PM	F37552
Zinc	ND	0.0028	0.010		mg/L	1	9/29/2016 3:57:46 PM	F37552
EPA METHOD 200.7: TOTAL METALS							Analyst: ELS	
Barium	0.72	0.00079	0.0020		mg/L	1	10/3/2016 7:52:23 PM	27665
Cadmium	ND	0.0015	0.0020		mg/L	1	10/3/2016 7:52:23 PM	27665
Chromium	ND	0.0027	0.0060		mg/L	1	10/3/2016 7:52:23 PM	27665
Copper	ND	0.0030	0.0060		mg/L	1	10/12/2016 9:06:36 PM	27933
Iron	4.6	0.10	0.10	*	mg/L	5	10/3/2016 7:54:07 PM	27665
Manganese	0.96	0.00027	0.0020	*	mg/L	1	10/3/2016 7:52:23 PM	27665
Silver	ND	0.0015	0.0050		mg/L	1	10/3/2016 7:52:23 PM	27665
Zinc	0.022	0.0027	0.010		mg/L	1	10/3/2016 7:52:23 PM	27665
EPA 200.8: DISSOLVED METALS							Analyst: JLF	
Arsenic	0.014	0.00014	0.0010	*	mg/L	1	9/23/2016 12:24:56 PM	A37462
Lead	0.00027	0.00017	0.00050	J	mg/L	1	9/23/2016 12:24:56 PM	A37462
Selenium	0.013	0.0011	0.0050		mg/L	5	9/23/2016 2:16:32 PM	B37462
Uranium	0.0040	0.000051	0.00050		mg/L	1	9/23/2016 12:24:56 PM	A37462

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 1609601

Date Reported: 10/25/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-16

Project: 2016 3RD QTR (MKTF)

Collection Date: 9/12/2016 10:10:00 AM

Lab ID: 1609601-003

Matrix: AQUEOUS

Received Date: 9/12/2016 3:20:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
200.8 ICPMS METALS:TOTAL							Analyst: JLF	
Arsenic	0.014	0.0011	0.0050	*	mg/L	5	9/26/2016 5:43:26 PM	27665
Lead	0.0029	0.000081	0.00050		mg/L	1	9/26/2016 1:59:48 PM	27665
Selenium	0.014	0.00094	0.0050		mg/L	5	9/26/2016 5:43:26 PM	27665
Uranium	0.0067	0.00017	0.00050		mg/L	1	9/26/2016 5:28:23 PM	27665
EPA METHOD 245.1: MERCURY							Analyst: pmf	
Mercury	ND	0.000053	0.00020		mg/L	1	9/23/2016 11:29:40 AM	27664
EPA METHOD 8270C: SEMIVOLATILES							Analyst: DAM	
Acenaphthene	ND	2.6	10		µg/L	1	9/17/2016 7:44:32 PM	27514
Acenaphthylene	ND	2.4	10		µg/L	1	9/17/2016 7:44:32 PM	27514
Aniline	5.6	2.4	10	J	µg/L	1	9/17/2016 7:44:32 PM	27514
Anthracene	ND	2.5	10		µg/L	1	9/17/2016 7:44:32 PM	27514
Azobenzene	ND	2.7	10		µg/L	1	9/17/2016 7:44:32 PM	27514
Benz(a)anthracene	ND	2.6	10		µg/L	1	9/17/2016 7:44:32 PM	27514
Benzo(a)pyrene	ND	2.7	10		µg/L	1	9/17/2016 7:44:32 PM	27514
Benzo(b)fluoranthene	ND	2.9	10		µg/L	1	9/17/2016 7:44:32 PM	27514
Benzo(g,h,i)perylene	ND	2.6	10		µg/L	1	9/17/2016 7:44:32 PM	27514
Benzo(k)fluoranthene	ND	3.0	10		µg/L	1	9/17/2016 7:44:32 PM	27514
Benzoic acid	24	2.6	20		µg/L	1	9/17/2016 7:44:32 PM	27514
Benzyl alcohol	ND	3.0	10		µg/L	1	9/17/2016 7:44:32 PM	27514
Bis(2-chloroethoxy)methane	ND	2.8	10		µg/L	1	9/17/2016 7:44:32 PM	27514
Bis(2-chloroethyl)ether	ND	2.7	10		µg/L	1	9/17/2016 7:44:32 PM	27514
Bis(2-chloroisopropyl)ether	ND	1.9	10		µg/L	1	9/17/2016 7:44:32 PM	27514
Bis(2-ethylhexyl)phthalate	4.0	2.6	10	J	µg/L	1	9/17/2016 7:44:32 PM	27514
4-Bromophenyl phenyl ether	ND	2.6	10		µg/L	1	9/17/2016 7:44:32 PM	27514
Butyl benzyl phthalate	ND	2.5	10		µg/L	1	9/17/2016 7:44:32 PM	27514
Carbazole	3.6	2.3	10	J	µg/L	1	9/17/2016 7:44:32 PM	27514
4-Chloro-3-methylphenol	ND	2.6	10		µg/L	1	9/17/2016 7:44:32 PM	27514
4-Chloroaniline	ND	2.7	10		µg/L	1	9/17/2016 7:44:32 PM	27514
2-Chloronaphthalene	ND	2.3	10		µg/L	1	9/17/2016 7:44:32 PM	27514
2-Chlorophenol	ND	2.2	10		µg/L	1	9/17/2016 7:44:32 PM	27514
4-Chlorophenyl phenyl ether	ND	2.6	10		µg/L	1	9/17/2016 7:44:32 PM	27514
Chrysene	ND	2.8	10		µg/L	1	9/17/2016 7:44:32 PM	27514
Di-n-butyl phthalate	ND	2.4	10		µg/L	1	9/17/2016 7:44:32 PM	27514
Di-n-octyl phthalate	3.6	2.0	10	J	µg/L	1	9/17/2016 7:44:32 PM	27514
Dibenz(a,h)anthracene	ND	2.7	10		µg/L	1	9/17/2016 7:44:32 PM	27514
Dibenzofuran	ND	2.5	10		µg/L	1	9/17/2016 7:44:32 PM	27514
1,2-Dichlorobenzene	ND	2.3	10		µg/L	1	9/17/2016 7:44:32 PM	27514
1,3-Dichlorobenzene	ND	2.3	10		µg/L	1	9/17/2016 7:44:32 PM	27514

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 1609601

Date Reported: 10/25/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-16

Project: 2016 3RD QTR (MKTF)

Collection Date: 9/12/2016 10:10:00 AM

Lab ID: 1609601-003

Matrix: AQUEOUS

Received Date: 9/12/2016 3:20:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: DAM	
1,4-Dichlorobenzene	ND	2.4	10		µg/L	1	9/17/2016 7:44:32 PM	27514
3,3'-Dichlorobenzidine	ND	2.4	10		µg/L	1	9/17/2016 7:44:32 PM	27514
Diethyl phthalate	ND	2.7	10		µg/L	1	9/17/2016 7:44:32 PM	27514
Dimethyl phthalate	ND	2.4	10		µg/L	1	9/17/2016 7:44:32 PM	27514
2,4-Dichlorophenol	ND	2.3	20		µg/L	1	9/17/2016 7:44:32 PM	27514
2,4-Dimethylphenol	84	3.0	10		µg/L	1	9/17/2016 7:44:32 PM	27514
4,6-Dinitro-2-methylphenol	ND	1.8	20		µg/L	1	9/17/2016 7:44:32 PM	27514
2,4-Dinitrophenol	ND	2.8	20		µg/L	1	9/17/2016 7:44:32 PM	27514
2,4-Dinitrotoluene	ND	3.1	10		µg/L	1	9/17/2016 7:44:32 PM	27514
2,6-Dinitrotoluene	ND	2.7	10		µg/L	1	9/17/2016 7:44:32 PM	27514
Fluoranthene	ND	2.6	10		µg/L	1	9/17/2016 7:44:32 PM	27514
Fluorene	ND	2.7	10		µg/L	1	9/17/2016 7:44:32 PM	27514
Hexachlorobenzene	ND	2.6	10		µg/L	1	9/17/2016 7:44:32 PM	27514
Hexachlorobutadiene	ND	2.2	10		µg/L	1	9/17/2016 7:44:32 PM	27514
Hexachlorocyclopentadiene	ND	2.3	10		µg/L	1	9/17/2016 7:44:32 PM	27514
Hexachloroethane	ND	2.4	10		µg/L	1	9/17/2016 7:44:32 PM	27514
Indeno(1,2,3-cd)pyrene	ND	3.0	10		µg/L	1	9/17/2016 7:44:32 PM	27514
Isophorone	ND	2.6	10		µg/L	1	9/17/2016 7:44:32 PM	27514
1-Methylnaphthalene	46	2.9	10		µg/L	1	9/17/2016 7:44:32 PM	27514
2-Methylnaphthalene	51	2.9	10		µg/L	1	9/17/2016 7:44:32 PM	27514
2-Methylphenol	71	2.5	10		µg/L	1	9/17/2016 7:44:32 PM	27514
3+4-Methylphenol	ND	2.3	10		µg/L	1	9/17/2016 7:44:32 PM	27514
N-Nitrosodi-n-propylamine	ND	2.4	10		µg/L	1	9/17/2016 7:44:32 PM	27514
N-Nitrosodimethylamine	ND	2.2	10		µg/L	1	9/17/2016 7:44:32 PM	27514
N-Nitrosodiphenylamine	ND	2.3	10		µg/L	1	9/17/2016 7:44:32 PM	27514
Naphthalene	130	2.6	10		µg/L	1	9/17/2016 7:44:32 PM	27514
2-Nitroaniline	ND	2.8	10		µg/L	1	9/17/2016 7:44:32 PM	27514
3-Nitroaniline	ND	2.9	10		µg/L	1	9/17/2016 7:44:32 PM	27514
4-Nitroaniline	ND	2.6	10		µg/L	1	9/17/2016 7:44:32 PM	27514
Nitrobenzene	ND	2.8	10		µg/L	1	9/17/2016 7:44:32 PM	27514
2-Nitrophenol	ND	2.4	10		µg/L	1	9/17/2016 7:44:32 PM	27514
4-Nitrophenol	ND	2.6	10		µg/L	1	9/17/2016 7:44:32 PM	27514
Pentachlorophenol	ND	2.3	20		µg/L	1	9/17/2016 7:44:32 PM	27514
Phenanthrene	ND	2.6	10		µg/L	1	9/17/2016 7:44:32 PM	27514
Phenol	140	2.0	10		µg/L	1	9/17/2016 7:44:32 PM	27514
Pyrene	ND	3.1	10		µg/L	1	9/17/2016 7:44:32 PM	27514
Pyridine	ND	2.2	10		µg/L	1	9/17/2016 7:44:32 PM	27514
1,2,4-Trichlorobenzene	ND	2.6	10		µg/L	1	9/17/2016 7:44:32 PM	27514
2,4,5-Trichlorophenol	ND	2.2	10		µg/L	1	9/17/2016 7:44:32 PM	27514

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 1609601

Date Reported: 10/25/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-16

Project: 2016 3RD QTR (MKTF)

Collection Date: 9/12/2016 10:10:00 AM

Lab ID: 1609601-003

Matrix: AQUEOUS

Received Date: 9/12/2016 3:20:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: DAM	
2,4,6-Trichlorophenol	ND	2.4	10		µg/L	1	9/17/2016 7:44:32 PM	27514
Surr: 2-Fluorophenol	22.8	0	15-123		%Rec	1	9/17/2016 7:44:32 PM	27514
Surr: Phenol-d5	45.7	0	15-124		%Rec	1	9/17/2016 7:44:32 PM	27514
Surr: 2,4,6-Tribromophenol	99.5	0	18.4-134		%Rec	1	9/17/2016 7:44:32 PM	27514
Surr: Nitrobenzene-d5	81.8	0	28.8-134		%Rec	1	9/17/2016 7:44:32 PM	27514
Surr: 2-Fluorobiphenyl	87.6	0	35.9-125		%Rec	1	9/17/2016 7:44:32 PM	27514
Surr: 4-Terphenyl-d14	52.6	0	15-146		%Rec	1	9/17/2016 7:44:32 PM	27514
EPA METHOD 8260B: VOLATILES							Analyst: DJF	
Benzene	23000	96	1000		µg/L	1000	9/15/2016 9:02:55 PM	W37240
Toluene	240	12	100		µg/L	100	9/15/2016 3:18:13 PM	W37240
Ethylbenzene	1300	11	100		µg/L	100	9/15/2016 3:18:13 PM	W37240
Methyl tert-butyl ether (MTBE)	1700	21	100		µg/L	100	9/15/2016 3:18:13 PM	W37240
1,2,4-Trimethylbenzene	780	11	100		µg/L	100	9/15/2016 3:18:13 PM	W37240
1,3,5-Trimethylbenzene	270	12	100		µg/L	100	9/15/2016 3:18:13 PM	W37240
1,2-Dichloroethane (EDC)	ND	12	100		µg/L	100	9/15/2016 3:18:13 PM	W37240
1,2-Dibromoethane (EDB)	ND	11	100		µg/L	100	9/15/2016 3:18:13 PM	W37240
Naphthalene	230	9.3	200		µg/L	100	9/15/2016 3:18:13 PM	W37240
1-Methylnaphthalene	52	20	400	J	µg/L	100	9/15/2016 3:18:13 PM	W37240
2-Methylnaphthalene	60	16	400	J	µg/L	100	9/15/2016 3:18:13 PM	W37240
Acetone	ND	490	1000		µg/L	100	9/15/2016 3:18:13 PM	W37240
Bromobenzene	ND	9.8	100		µg/L	100	9/15/2016 3:18:13 PM	W37240
Bromodichloromethane	ND	14	100		µg/L	100	9/15/2016 3:18:13 PM	W37240
Bromoform	ND	10	100		µg/L	100	9/15/2016 3:18:13 PM	W37240
Bromomethane	ND	78	300		µg/L	100	9/15/2016 3:18:13 PM	W37240
2-Butanone	ND	74	1000		µg/L	100	9/15/2016 3:18:13 PM	W37240
Carbon disulfide	ND	60	1000		µg/L	100	9/15/2016 3:18:13 PM	W37240
Carbon Tetrachloride	ND	11	100		µg/L	100	9/15/2016 3:18:13 PM	W37240
Chlorobenzene	ND	11	100		µg/L	100	9/15/2016 3:18:13 PM	W37240
Chloroethane	ND	19	200		µg/L	100	9/15/2016 3:18:13 PM	W37240
Chloroform	ND	8.9	100		µg/L	100	9/15/2016 3:18:13 PM	W37240
Chloromethane	ND	21	300		µg/L	100	9/15/2016 3:18:13 PM	W37240
2-Chlorotoluene	ND	40	100		µg/L	100	9/15/2016 3:18:13 PM	W37240
4-Chlorotoluene	ND	13	100		µg/L	100	9/15/2016 3:18:13 PM	W37240
cis-1,2-DCE	ND	12	100		µg/L	100	9/15/2016 3:18:13 PM	W37240
cis-1,3-Dichloropropene	ND	11	100		µg/L	100	9/15/2016 3:18:13 PM	W37240
1,2-Dibromo-3-chloropropane	ND	23	200		µg/L	100	9/15/2016 3:18:13 PM	W37240
Dibromochloromethane	ND	8.7	100		µg/L	100	9/15/2016 3:18:13 PM	W37240
Dibromomethane	ND	12	100		µg/L	100	9/15/2016 3:18:13 PM	W37240
1,2-Dichlorobenzene	ND	40	100		µg/L	100	9/15/2016 3:18:13 PM	W37240

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 1609601

Date Reported: 10/25/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-16

Project: 2016 3RD QTR (MKTF)

Collection Date: 9/12/2016 10:10:00 AM

Lab ID: 1609601-003

Matrix: AQUEOUS

Received Date: 9/12/2016 3:20:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: DJF	
1,3-Dichlorobenzene	ND	14	100		µg/L	100	9/15/2016 3:18:13 PM	W37240
1,4-Dichlorobenzene	ND	14	100		µg/L	100	9/15/2016 3:18:13 PM	W37240
Dichlorodifluoromethane	ND	36	100		µg/L	100	9/15/2016 3:18:13 PM	W37240
1,1-Dichloroethane	65	11	100	J	µg/L	100	9/15/2016 3:18:13 PM	W37240
1,1-Dichloroethene	ND	11	100		µg/L	100	9/15/2016 3:18:13 PM	W37240
1,2-Dichloropropane	ND	11	100		µg/L	100	9/15/2016 3:18:13 PM	W37240
1,3-Dichloropropane	ND	16	100		µg/L	100	9/15/2016 3:18:13 PM	W37240
2,2-Dichloropropane	ND	17	200		µg/L	100	9/15/2016 3:18:13 PM	W37240
1,1-Dichloropropene	ND	13	100		µg/L	100	9/15/2016 3:18:13 PM	W37240
Hexachlorobutadiene	ND	20	100		µg/L	100	9/15/2016 3:18:13 PM	W37240
2-Hexanone	ND	84	1000		µg/L	100	9/15/2016 3:18:13 PM	W37240
Isopropylbenzene	19	10	100	J	µg/L	100	9/15/2016 3:18:13 PM	W37240
4-Isopropyltoluene	ND	14	100		µg/L	100	9/15/2016 3:18:13 PM	W37240
4-Methyl-2-pentanone	ND	43	1000		µg/L	100	9/15/2016 3:18:13 PM	W37240
Methylene Chloride	ND	19	300		µg/L	100	9/15/2016 3:18:13 PM	W37240
n-Butylbenzene	ND	16	300		µg/L	100	9/15/2016 3:18:13 PM	W37240
n-Propylbenzene	82	13	100	J	µg/L	100	9/15/2016 3:18:13 PM	W37240
sec-Butylbenzene	ND	12	100		µg/L	100	9/15/2016 3:18:13 PM	W37240
Styrene	ND	11	100		µg/L	100	9/15/2016 3:18:13 PM	W37240
tert-Butylbenzene	ND	12	100		µg/L	100	9/15/2016 3:18:13 PM	W37240
1,1,1,2-Tetrachloroethane	ND	11	100		µg/L	100	9/15/2016 3:18:13 PM	W37240
1,1,2,2-Tetrachloroethane	ND	13	200		µg/L	100	9/15/2016 3:18:13 PM	W37240
Tetrachloroethene (PCE)	ND	15	100		µg/L	100	9/15/2016 3:18:13 PM	W37240
trans-1,2-DCE	ND	40	100		µg/L	100	9/15/2016 3:18:13 PM	W37240
trans-1,3-Dichloropropene	ND	10	100		µg/L	100	9/15/2016 3:18:13 PM	W37240
1,2,3-Trichlorobenzene	ND	11	100		µg/L	100	9/15/2016 3:18:13 PM	W37240
1,2,4-Trichlorobenzene	ND	13	100		µg/L	100	9/15/2016 3:18:13 PM	W37240
1,1,1-Trichloroethane	ND	9.1	100		µg/L	100	9/15/2016 3:18:13 PM	W37240
1,1,2-Trichloroethane	ND	13	100		µg/L	100	9/15/2016 3:18:13 PM	W37240
Trichloroethene (TCE)	ND	18	100		µg/L	100	9/15/2016 3:18:13 PM	W37240
Trichlorofluoromethane	ND	20	100		µg/L	100	9/15/2016 3:18:13 PM	W37240
1,2,3-Trichloropropane	ND	20	200		µg/L	100	9/15/2016 3:18:13 PM	W37240
Vinyl chloride	ND	20	100		µg/L	100	9/15/2016 3:18:13 PM	W37240
Xylenes, Total	4300	37	150		µg/L	100	9/15/2016 3:18:13 PM	W37240
Surr: 1,2-Dichloroethane-d4	100	0	70-130		%Rec	100	9/15/2016 3:18:13 PM	W37240
Surr: 4-Bromofluorobenzene	95.4	0	70-130		%Rec	100	9/15/2016 3:18:13 PM	W37240
Surr: Dibromofluoromethane	105	0	70-130		%Rec	100	9/15/2016 3:18:13 PM	W37240
Surr: Toluene-d8	91.9	0	70-130		%Rec	100	9/15/2016 3:18:13 PM	W37240

EPA METHOD 8015D: GASOLINE RANGE

Analyst: DJF

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 1609601

Date Reported: 10/25/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-16

Project: 2016 3RD QTR (MKTF)

Collection Date: 9/12/2016 10:10:00 AM

Lab ID: 1609601-003

Matrix: AQUEOUS

Received Date: 9/12/2016 3:20:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: GASOLINE RANGE							Analyst: DJF	
Gasoline Range Organics (GRO)	62	1.5	5.0		mg/L	100	9/15/2016 3:18:13 PM	G37240
Surr: BFB	96.1	0	70-130		%Rec	100	9/15/2016 3:18:13 PM	G37240

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 1609601

Date Reported: 10/25/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-11

Project: 2016 3RD QTR (MKTF)

Collection Date: 9/11/2016 1:30:00 PM

Lab ID: 1609601-004

Matrix: AQUEOUS

Received Date: 9/12/2016 3:20:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015M/D: DIESEL RANGE							Analyst: TOM	
Diesel Range Organics (DRO)	1.7	0.69	1.0		mg/L	1	9/14/2016 4:15:24 PM	27491
Motor Oil Range Organics (MRO)	ND	5.0	5.0		mg/L	1	9/14/2016 4:15:24 PM	27491
Surr: DNOP	134	0	77.1-144		%Rec	1	9/14/2016 4:15:24 PM	27491
EPA METHOD 300.0: ANIONS							Analyst: MRA	
Fluoride	ND	1.0	2.0		mg/L	20	9/18/2016 1:05:28 PM	R37299
Chloride	880	5.1	50		mg/L	100	9/23/2016 5:41:13 PM	R37469
Bromide	ND	0.044	0.10		mg/L	1	9/18/2016 12:28:15 PM	R37299
Phosphorus, Orthophosphate (As P _i)	ND	0.076	0.50	H	mg/L	1	9/18/2016 12:28:15 PM	R37299
Sulfate	2.2	0.14	0.50		mg/L	1	9/18/2016 12:28:15 PM	R37299
Nitrate+Nitrite as N	ND	0.46	1.0		mg/L	5	9/18/2016 6:28:07 PM	R37299
EPA METHOD 200.7: DISSOLVED METALS							Analyst: ELS	
Barium	2.5	0.013	0.020	*	mg/L	10	9/29/2016 4:02:59 PM	F37552
Cadmium	ND	0.00075	0.0020		mg/L	1	9/29/2016 4:01:18 PM	F37552
Calcium	160	5.0	10		mg/L	10	9/29/2016 4:02:59 PM	F37552
Chromium	ND	0.0018	0.0060		mg/L	1	9/29/2016 4:01:18 PM	F37552
Copper	ND	0.0040	0.0060		mg/L	1	9/29/2016 4:01:18 PM	F37552
Iron	4.6	0.20	0.20	*	mg/L	10	9/29/2016 4:02:59 PM	F37552
Magnesium	44	0.50	1.0		mg/L	1	9/29/2016 4:01:18 PM	F37552
Manganese	3.8	0.0032	0.020	*	mg/L	10	9/29/2016 4:02:59 PM	F37552
Potassium	0.99	0.50	1.0	J	mg/L	1	9/29/2016 4:01:18 PM	F37552
Silver	ND	0.0028	0.0050		mg/L	1	9/29/2016 4:01:18 PM	F37552
Sodium	740	5.0	10		mg/L	10	9/29/2016 4:02:59 PM	F37552
Zinc	ND	0.0028	0.010		mg/L	1	9/29/2016 4:01:18 PM	F37552
EPA METHOD 200.7: TOTAL METALS							Analyst: ELS	
Barium	2.9	0.0040	0.010	*	mg/L	5	10/3/2016 7:57:52 PM	27665
Cadmium	ND	0.0015	0.0020		mg/L	1	10/3/2016 7:56:09 PM	27665
Chromium	ND	0.0027	0.0060		mg/L	1	10/3/2016 7:56:09 PM	27665
Copper	ND	0.0030	0.0060		mg/L	1	10/3/2016 7:56:09 PM	27665
Iron	7.1	0.20	0.20	*	mg/L	10	10/4/2016 4:21:35 PM	27665
Manganese	4.1	0.0014	0.010	*	mg/L	5	10/3/2016 7:57:52 PM	27665
Silver	ND	0.0015	0.0050		mg/L	1	10/3/2016 7:56:09 PM	27665
Zinc	0.012	0.0027	0.010		mg/L	1	10/3/2016 7:56:09 PM	27665
EPA 200.8: DISSOLVED METALS							Analyst: JLF	
Arsenic	0.014	0.00014	0.0010	*	mg/L	1	9/23/2016 12:27:59 PM	A37462
Lead	ND	0.00017	0.00050		mg/L	1	9/23/2016 12:27:59 PM	A37462
Selenium	0.0062	0.0021	0.010	J	mg/L	10	9/23/2016 2:22:39 PM	B37462
Uranium	0.0044	0.000051	0.00050		mg/L	1	9/23/2016 12:27:59 PM	A37462

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 1609601

Date Reported: 10/25/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-11

Project: 2016 3RD QTR (MKTF)

Collection Date: 9/11/2016 1:30:00 PM

Lab ID: 1609601-004

Matrix: AQUEOUS

Received Date: 9/12/2016 3:20:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
200.8 ICPMS METALS:TOTAL							Analyst: JLF	
Arsenic	0.013	0.00021	0.0010	*	mg/L	1	9/26/2016 2:04:56 PM	27665
Lead	0.0011	0.000081	0.00050		mg/L	1	9/26/2016 2:04:56 PM	27665
Selenium	0.0054	0.0019	0.010	J	mg/L	10	9/26/2016 6:10:33 PM	27665
Uranium	0.0065	0.00017	0.00050		mg/L	1	9/26/2016 5:31:23 PM	27665
EPA METHOD 245.1: MERCURY							Analyst: pmf	
Mercury	ND	0.000053	0.00020		mg/L	1	9/23/2016 11:31:47 AM	27664
EPA METHOD 8270C: SEMIVOLATILES							Analyst: DAM	
Acenaphthene	ND	2.6	10		µg/L	1	9/17/2016 8:12:06 PM	27514
Acenaphthylene	ND	2.4	10		µg/L	1	9/17/2016 8:12:06 PM	27514
Aniline	9.3	2.4	10	J	µg/L	1	9/17/2016 8:12:06 PM	27514
Anthracene	ND	2.5	10		µg/L	1	9/17/2016 8:12:06 PM	27514
Azobenzene	ND	2.7	10		µg/L	1	9/17/2016 8:12:06 PM	27514
Benz(a)anthracene	ND	2.6	10		µg/L	1	9/17/2016 8:12:06 PM	27514
Benzo(a)pyrene	ND	2.7	10		µg/L	1	9/17/2016 8:12:06 PM	27514
Benzo(b)fluoranthene	ND	2.9	10		µg/L	1	9/17/2016 8:12:06 PM	27514
Benzo(g,h,i)perylene	ND	2.6	10		µg/L	1	9/17/2016 8:12:06 PM	27514
Benzo(k)fluoranthene	ND	3.0	10		µg/L	1	9/17/2016 8:12:06 PM	27514
Benzoic acid	ND	2.6	20		µg/L	1	9/17/2016 8:12:06 PM	27514
Benzyl alcohol	ND	3.0	10		µg/L	1	9/17/2016 8:12:06 PM	27514
Bis(2-chloroethoxy)methane	ND	2.8	10		µg/L	1	9/17/2016 8:12:06 PM	27514
Bis(2-chloroethyl)ether	ND	2.7	10		µg/L	1	9/17/2016 8:12:06 PM	27514
Bis(2-chloroisopropyl)ether	ND	1.9	10		µg/L	1	9/17/2016 8:12:06 PM	27514
Bis(2-ethylhexyl)phthalate	3.7	2.6	10	J	µg/L	1	9/17/2016 8:12:06 PM	27514
4-Bromophenyl phenyl ether	ND	2.6	10		µg/L	1	9/17/2016 8:12:06 PM	27514
Butyl benzyl phthalate	ND	2.5	10		µg/L	1	9/17/2016 8:12:06 PM	27514
Carbazole	ND	2.3	10		µg/L	1	9/17/2016 8:12:06 PM	27514
4-Chloro-3-methylphenol	ND	2.6	10		µg/L	1	9/17/2016 8:12:06 PM	27514
4-Chloroaniline	ND	2.7	10		µg/L	1	9/17/2016 8:12:06 PM	27514
2-Chloronaphthalene	ND	2.3	10		µg/L	1	9/17/2016 8:12:06 PM	27514
2-Chlorophenol	ND	2.2	10		µg/L	1	9/17/2016 8:12:06 PM	27514
4-Chlorophenyl phenyl ether	ND	2.6	10		µg/L	1	9/17/2016 8:12:06 PM	27514
Chrysene	ND	2.8	10		µg/L	1	9/17/2016 8:12:06 PM	27514
Di-n-butyl phthalate	ND	2.4	10		µg/L	1	9/17/2016 8:12:06 PM	27514
Di-n-octyl phthalate	3.7	2.0	10	J	µg/L	1	9/17/2016 8:12:06 PM	27514
Dibenz(a,h)anthracene	ND	2.7	10		µg/L	1	9/17/2016 8:12:06 PM	27514
Dibenzofuran	ND	2.5	10		µg/L	1	9/17/2016 8:12:06 PM	27514
1,2-Dichlorobenzene	ND	2.3	10		µg/L	1	9/17/2016 8:12:06 PM	27514
1,3-Dichlorobenzene	ND	2.3	10		µg/L	1	9/17/2016 8:12:06 PM	27514

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 1609601

Date Reported: 10/25/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-11

Project: 2016 3RD QTR (MKTF)

Collection Date: 9/11/2016 1:30:00 PM

Lab ID: 1609601-004

Matrix: AQUEOUS

Received Date: 9/12/2016 3:20:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: DAM	
1,4-Dichlorobenzene	ND	2.4	10		µg/L	1	9/17/2016 8:12:06 PM	27514
3,3'-Dichlorobenzidine	ND	2.4	10		µg/L	1	9/17/2016 8:12:06 PM	27514
Diethyl phthalate	ND	2.7	10		µg/L	1	9/17/2016 8:12:06 PM	27514
Dimethyl phthalate	2.9	2.4	10	J	µg/L	1	9/17/2016 8:12:06 PM	27514
2,4-Dichlorophenol	ND	2.3	20		µg/L	1	9/17/2016 8:12:06 PM	27514
2,4-Dimethylphenol	42	3.0	10		µg/L	1	9/17/2016 8:12:06 PM	27514
4,6-Dinitro-2-methylphenol	ND	1.8	20		µg/L	1	9/17/2016 8:12:06 PM	27514
2,4-Dinitrophenol	ND	2.8	20		µg/L	1	9/17/2016 8:12:06 PM	27514
2,4-Dinitrotoluene	ND	3.1	10		µg/L	1	9/17/2016 8:12:06 PM	27514
2,6-Dinitrotoluene	ND	2.7	10		µg/L	1	9/17/2016 8:12:06 PM	27514
Fluoranthene	ND	2.6	10		µg/L	1	9/17/2016 8:12:06 PM	27514
Fluorene	ND	2.7	10		µg/L	1	9/17/2016 8:12:06 PM	27514
Hexachlorobenzene	ND	2.6	10		µg/L	1	9/17/2016 8:12:06 PM	27514
Hexachlorobutadiene	ND	2.2	10		µg/L	1	9/17/2016 8:12:06 PM	27514
Hexachlorocyclopentadiene	ND	2.3	10		µg/L	1	9/17/2016 8:12:06 PM	27514
Hexachloroethane	ND	2.4	10		µg/L	1	9/17/2016 8:12:06 PM	27514
Indeno(1,2,3-cd)pyrene	ND	3.0	10		µg/L	1	9/17/2016 8:12:06 PM	27514
Isophorone	ND	2.6	10		µg/L	1	9/17/2016 8:12:06 PM	27514
1-Methylnaphthalene	12	2.9	10		µg/L	1	9/17/2016 8:12:06 PM	27514
2-Methylnaphthalene	9.0	2.9	10	J	µg/L	1	9/17/2016 8:12:06 PM	27514
2-Methylphenol	130	2.5	10		µg/L	1	9/17/2016 8:12:06 PM	27514
3+4-Methylphenol	120	2.3	10		µg/L	1	9/17/2016 8:12:06 PM	27514
N-Nitrosodi-n-propylamine	ND	2.4	10		µg/L	1	9/17/2016 8:12:06 PM	27514
N-Nitrosodimethylamine	ND	2.2	10		µg/L	1	9/17/2016 8:12:06 PM	27514
N-Nitrosodiphenylamine	ND	2.3	10		µg/L	1	9/17/2016 8:12:06 PM	27514
Naphthalene	30	2.6	10		µg/L	1	9/17/2016 8:12:06 PM	27514
2-Nitroaniline	ND	2.8	10		µg/L	1	9/17/2016 8:12:06 PM	27514
3-Nitroaniline	ND	2.9	10		µg/L	1	9/17/2016 8:12:06 PM	27514
4-Nitroaniline	ND	2.6	10		µg/L	1	9/17/2016 8:12:06 PM	27514
Nitrobenzene	ND	2.8	10		µg/L	1	9/17/2016 8:12:06 PM	27514
2-Nitrophenol	ND	2.4	10		µg/L	1	9/17/2016 8:12:06 PM	27514
4-Nitrophenol	ND	2.6	10		µg/L	1	9/17/2016 8:12:06 PM	27514
Pentachlorophenol	ND	2.3	20		µg/L	1	9/17/2016 8:12:06 PM	27514
Phenanthrene	ND	2.6	10		µg/L	1	9/17/2016 8:12:06 PM	27514
Phenol	49	2.0	10		µg/L	1	9/17/2016 8:12:06 PM	27514
Pyrene	ND	3.1	10		µg/L	1	9/17/2016 8:12:06 PM	27514
Pyridine	ND	2.2	10		µg/L	1	9/17/2016 8:12:06 PM	27514
1,2,4-Trichlorobenzene	ND	2.6	10		µg/L	1	9/17/2016 8:12:06 PM	27514
2,4,5-Trichlorophenol	ND	2.2	10		µg/L	1	9/17/2016 8:12:06 PM	27514

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 1609601

Date Reported: 10/25/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-11

Project: 2016 3RD QTR (MKTF)

Collection Date: 9/11/2016 1:30:00 PM

Lab ID: 1609601-004

Matrix: AQUEOUS

Received Date: 9/12/2016 3:20:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: DAM	
2,4,6-Trichlorophenol	ND	2.4	10		µg/L	1	9/17/2016 8:12:06 PM	27514
Surr: 2-Fluorophenol	21.5	0	15-123		%Rec	1	9/17/2016 8:12:06 PM	27514
Surr: Phenol-d5	45.8	0	15-124		%Rec	1	9/17/2016 8:12:06 PM	27514
Surr: 2,4,6-Tribromophenol	60.0	0	18.4-134		%Rec	1	9/17/2016 8:12:06 PM	27514
Surr: Nitrobenzene-d5	74.6	0	28.8-134		%Rec	1	9/17/2016 8:12:06 PM	27514
Surr: 2-Fluorobiphenyl	77.1	0	35.9-125		%Rec	1	9/17/2016 8:12:06 PM	27514
Surr: 4-Terphenyl-d14	50.7	0	15-146		%Rec	1	9/17/2016 8:12:06 PM	27514
EPA METHOD 8260B: VOLATILES							Analyst: DJF	
Benzene	4500	4.8	50		µg/L	50	9/15/2016 3:47:02 PM	W37240
Toluene	4800	5.9	50		µg/L	50	9/15/2016 3:47:02 PM	W37240
Ethylbenzene	530	5.6	50		µg/L	50	9/15/2016 3:47:02 PM	W37240
Methyl tert-butyl ether (MTBE)	81	11	50		µg/L	50	9/15/2016 3:47:02 PM	W37240
1,2,4-Trimethylbenzene	250	5.5	50		µg/L	50	9/15/2016 3:47:02 PM	W37240
1,3,5-Trimethylbenzene	45	5.8	50	J	µg/L	50	9/15/2016 3:47:02 PM	W37240
1,2-Dichloroethane (EDC)	ND	5.8	50		µg/L	50	9/15/2016 3:47:02 PM	W37240
1,2-Dibromoethane (EDB)	ND	5.6	50		µg/L	50	9/15/2016 3:47:02 PM	W37240
Naphthalene	50	4.6	100	J	µg/L	50	9/15/2016 3:47:02 PM	W37240
1-Methylnaphthalene	21	10	200	J	µg/L	50	9/15/2016 3:47:02 PM	W37240
2-Methylnaphthalene	14	7.9	200	J	µg/L	50	9/15/2016 3:47:02 PM	W37240
Acetone	ND	250	500		µg/L	50	9/15/2016 3:47:02 PM	W37240
Bromobenzene	ND	4.9	50		µg/L	50	9/15/2016 3:47:02 PM	W37240
Bromodichloromethane	ND	7.0	50		µg/L	50	9/15/2016 3:47:02 PM	W37240
Bromoform	ND	5.1	50		µg/L	50	9/15/2016 3:47:02 PM	W37240
Bromomethane	ND	39	150		µg/L	50	9/15/2016 3:47:02 PM	W37240
2-Butanone	270	37	500	J	µg/L	50	9/15/2016 3:47:02 PM	W37240
Carbon disulfide	ND	30	500		µg/L	50	9/15/2016 3:47:02 PM	W37240
Carbon Tetrachloride	ND	5.4	50		µg/L	50	9/15/2016 3:47:02 PM	W37240
Chlorobenzene	ND	5.7	50		µg/L	50	9/15/2016 3:47:02 PM	W37240
Chloroethane	ND	9.6	100		µg/L	50	9/15/2016 3:47:02 PM	W37240
Chloroform	ND	4.4	50		µg/L	50	9/15/2016 3:47:02 PM	W37240
Chloromethane	ND	11	150		µg/L	50	9/15/2016 3:47:02 PM	W37240
2-Chlorotoluene	ND	20	50		µg/L	50	9/15/2016 3:47:02 PM	W37240
4-Chlorotoluene	ND	6.4	50		µg/L	50	9/15/2016 3:47:02 PM	W37240
cis-1,2-DCE	ND	6.2	50		µg/L	50	9/15/2016 3:47:02 PM	W37240
cis-1,3-Dichloropropene	ND	5.3	50		µg/L	50	9/15/2016 3:47:02 PM	W37240
1,2-Dibromo-3-chloropropane	ND	12	100		µg/L	50	9/15/2016 3:47:02 PM	W37240
Dibromochloromethane	ND	4.3	50		µg/L	50	9/15/2016 3:47:02 PM	W37240
Dibromomethane	ND	6.0	50		µg/L	50	9/15/2016 3:47:02 PM	W37240
1,2-Dichlorobenzene	ND	20	50		µg/L	50	9/15/2016 3:47:02 PM	W37240

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 1609601

Date Reported: 10/25/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-11

Project: 2016 3RD QTR (MKTF)

Collection Date: 9/11/2016 1:30:00 PM

Lab ID: 1609601-004

Matrix: AQUEOUS

Received Date: 9/12/2016 3:20:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: DJF	
1,3-Dichlorobenzene	ND	7.2	50		µg/L	50	9/15/2016 3:47:02 PM	W37240
1,4-Dichlorobenzene	ND	7.1	50		µg/L	50	9/15/2016 3:47:02 PM	W37240
Dichlorodifluoromethane	ND	18	50		µg/L	50	9/15/2016 3:47:02 PM	W37240
1,1-Dichloroethane	53	5.4	50		µg/L	50	9/15/2016 3:47:02 PM	W37240
1,1-Dichloroethene	ND	5.4	50		µg/L	50	9/15/2016 3:47:02 PM	W37240
1,2-Dichloropropane	ND	5.5	50		µg/L	50	9/15/2016 3:47:02 PM	W37240
1,3-Dichloropropane	ND	7.8	50		µg/L	50	9/15/2016 3:47:02 PM	W37240
2,2-Dichloropropane	ND	8.3	100		µg/L	50	9/15/2016 3:47:02 PM	W37240
1,1-Dichloropropene	ND	6.7	50		µg/L	50	9/15/2016 3:47:02 PM	W37240
Hexachlorobutadiene	ND	9.9	50		µg/L	50	9/15/2016 3:47:02 PM	W37240
2-Hexanone	ND	42	500		µg/L	50	9/15/2016 3:47:02 PM	W37240
Isopropylbenzene	19	5.2	50	J	µg/L	50	9/15/2016 3:47:02 PM	W37240
4-Isopropyltoluene	ND	7.0	50		µg/L	50	9/15/2016 3:47:02 PM	W37240
4-Methyl-2-pentanone	ND	21	500		µg/L	50	9/15/2016 3:47:02 PM	W37240
Methylene Chloride	ND	9.4	150		µg/L	50	9/15/2016 3:47:02 PM	W37240
n-Butylbenzene	ND	8.0	150		µg/L	50	9/15/2016 3:47:02 PM	W37240
n-Propylbenzene	58	6.6	50		µg/L	50	9/15/2016 3:47:02 PM	W37240
sec-Butylbenzene	ND	6.2	50		µg/L	50	9/15/2016 3:47:02 PM	W37240
Styrene	ND	5.5	50		µg/L	50	9/15/2016 3:47:02 PM	W37240
tert-Butylbenzene	ND	5.8	50		µg/L	50	9/15/2016 3:47:02 PM	W37240
1,1,1,2-Tetrachloroethane	ND	5.6	50		µg/L	50	9/15/2016 3:47:02 PM	W37240
1,1,2,2-Tetrachloroethane	ND	6.4	100		µg/L	50	9/15/2016 3:47:02 PM	W37240
Tetrachloroethene (PCE)	ND	7.6	50		µg/L	50	9/15/2016 3:47:02 PM	W37240
trans-1,2-DCE	ND	20	50		µg/L	50	9/15/2016 3:47:02 PM	W37240
trans-1,3-Dichloropropene	ND	5.2	50		µg/L	50	9/15/2016 3:47:02 PM	W37240
1,2,3-Trichlorobenzene	ND	5.6	50		µg/L	50	9/15/2016 3:47:02 PM	W37240
1,2,4-Trichlorobenzene	ND	6.6	50		µg/L	50	9/15/2016 3:47:02 PM	W37240
1,1,1-Trichloroethane	ND	4.6	50		µg/L	50	9/15/2016 3:47:02 PM	W37240
1,1,2-Trichloroethane	ND	6.4	50		µg/L	50	9/15/2016 3:47:02 PM	W37240
Trichloroethene (TCE)	ND	8.8	50		µg/L	50	9/15/2016 3:47:02 PM	W37240
Trichlorofluoromethane	ND	10	50		µg/L	50	9/15/2016 3:47:02 PM	W37240
1,2,3-Trichloropropane	ND	10	100		µg/L	50	9/15/2016 3:47:02 PM	W37240
Vinyl chloride	56	9.8	50		µg/L	50	9/15/2016 3:47:02 PM	W37240
Xylenes, Total	1600	18	75		µg/L	50	9/15/2016 3:47:02 PM	W37240
Surr: 1,2-Dichloroethane-d4	101	0	70-130		%Rec	50	9/15/2016 3:47:02 PM	W37240
Surr: 4-Bromofluorobenzene	93.1	0	70-130		%Rec	50	9/15/2016 3:47:02 PM	W37240
Surr: Dibromofluoromethane	111	0	70-130		%Rec	50	9/15/2016 3:47:02 PM	W37240
Surr: Toluene-d8	94.1	0	70-130		%Rec	50	9/15/2016 3:47:02 PM	W37240

EPA METHOD 8015D: GASOLINE RANGE

Analyst: DJF

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 1609601

Date Reported: 10/25/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-11

Project: 2016 3RD QTR (MKTF)

Collection Date: 9/11/2016 1:30:00 PM

Lab ID: 1609601-004

Matrix: AQUEOUS

Received Date: 9/12/2016 3:20:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: GASOLINE RANGE							Analyst: DJF	
Gasoline Range Organics (GRO)	29	0.75	2.5		mg/L	50	9/15/2016 3:47:02 PM	G37240
Surr: BFB	95.3	0	70-130		%Rec	50	9/15/2016 3:47:02 PM	G37240

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 1609601

Date Reported: 10/25/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-04

Project: 2016 3RD QTR (MKTF)

Collection Date: 9/11/2016 2:45:00 PM

Lab ID: 1609601-005

Matrix: AQUEOUS

Received Date: 9/12/2016 3:20:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015M/D: DIESEL RANGE							Analyst: TOM	
Diesel Range Organics (DRO)	5.3	0.69	1.0		mg/L	1	9/14/2016 4:37:04 PM	27491
Motor Oil Range Organics (MRO)	ND	5.0	5.0		mg/L	1	9/14/2016 4:37:04 PM	27491
Surr: DNOP	136	0	77.1-144		%Rec	1	9/14/2016 4:37:04 PM	27491
EPA METHOD 300.0: ANIONS							Analyst: MRA	
Fluoride	0.74	0.050	0.10		mg/L	1	9/18/2016 1:17:53 PM	R37299
Chloride	220	1.0	10		mg/L	20	9/18/2016 1:30:17 PM	R37299
Bromide	2.2	0.044	0.10		mg/L	1	9/18/2016 1:17:53 PM	R37299
Phosphorus, Orthophosphate (As P')	ND	0.076	0.50	H	mg/L	1	9/18/2016 1:17:53 PM	R37299
Sulfate	4.1	0.14	0.50		mg/L	1	9/18/2016 1:17:53 PM	R37299
Nitrate+Nitrite as N	ND	0.46	1.0		mg/L	5	9/18/2016 6:40:32 PM	R37299
EPA METHOD 200.7: DISSOLVED METALS							Analyst: ELS	
Barium	2.6	0.0066	0.010	*	mg/L	5	9/29/2016 4:06:58 PM	F37552
Cadmium	ND	0.00075	0.0020		mg/L	1	9/29/2016 4:04:54 PM	F37552
Calcium	110	2.5	5.0		mg/L	5	9/29/2016 4:06:58 PM	F37552
Chromium	ND	0.0018	0.0060		mg/L	1	9/29/2016 4:04:54 PM	F37552
Copper	ND	0.0040	0.0060		mg/L	1	9/29/2016 4:04:54 PM	F37552
Iron	1.2	0.10	0.10	*	mg/L	5	9/29/2016 4:06:58 PM	F37552
Magnesium	28	0.50	1.0		mg/L	1	9/29/2016 4:04:54 PM	F37552
Manganese	1.4	0.0016	0.010	*	mg/L	5	9/29/2016 4:06:58 PM	F37552
Potassium	0.72	0.50	1.0	J	mg/L	1	9/29/2016 4:04:54 PM	F37552
Silver	ND	0.0028	0.0050		mg/L	1	9/29/2016 4:04:54 PM	F37552
Sodium	340	2.5	5.0		mg/L	5	9/29/2016 4:06:58 PM	F37552
Zinc	0.0030	0.0028	0.010	J	mg/L	1	9/29/2016 4:04:54 PM	F37552
EPA METHOD 200.7: TOTAL METALS							Analyst: ELS	
Barium	3.4	0.0040	0.010	*	mg/L	5	10/3/2016 8:01:29 PM	27665
Cadmium	ND	0.0015	0.0020		mg/L	1	10/3/2016 7:59:48 PM	27665
Chromium	ND	0.0027	0.0060		mg/L	1	10/3/2016 7:59:48 PM	27665
Copper	ND	0.0030	0.0060		mg/L	1	10/3/2016 7:59:48 PM	27665
Iron	6.7	0.20	0.20	*	mg/L	10	10/4/2016 4:23:34 PM	27665
Manganese	1.5	0.0014	0.010	*	mg/L	5	10/3/2016 8:01:29 PM	27665
Silver	ND	0.0015	0.0050		mg/L	1	10/3/2016 7:59:48 PM	27665
Zinc	0.0072	0.0027	0.010	J	mg/L	1	10/3/2016 7:59:48 PM	27665
EPA 200.8: DISSOLVED METALS							Analyst: JLF	
Arsenic	0.011	0.00014	0.0010	*	mg/L	1	9/23/2016 12:31:03 PM	A37462
Lead	0.00033	0.00017	0.00050	J	mg/L	1	9/23/2016 12:31:03 PM	A37462
Selenium	0.014	0.0042	0.020	J	mg/L	20	9/23/2016 2:28:46 PM	B37462
Uranium	0.0037	0.000051	0.00050		mg/L	1	9/23/2016 12:31:03 PM	A37462

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 1609601

Date Reported: 10/25/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-04

Project: 2016 3RD QTR (MKTF)

Collection Date: 9/11/2016 2:45:00 PM

Lab ID: 1609601-005

Matrix: AQUEOUS

Received Date: 9/12/2016 3:20:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
200.8 ICPMS METALS:TOTAL							Analyst: JLF	
Arsenic	0.010	0.0011	0.0050	*	mg/L	5	9/26/2016 6:13:34 PM	27665
Lead	0.0030	0.000081	0.00050		mg/L	1	9/26/2016 2:10:05 PM	27665
Selenium	0.014	0.00094	0.0050		mg/L	5	9/26/2016 6:13:34 PM	27665
Uranium	0.0028	0.00017	0.00050		mg/L	1	9/26/2016 5:34:24 PM	27665
EPA METHOD 245.1: MERCURY							Analyst: pmf	
Mercury	ND	0.000053	0.00020		mg/L	1	9/23/2016 11:33:47 AM	27664
EPA METHOD 8270C: SEMIVOLATILES							Analyst: DAM	
Acenaphthene	4.9	2.6	10	J	µg/L	1	9/17/2016 5:25:43 PM	27514
Acenaphthylene	ND	2.4	10		µg/L	1	9/17/2016 5:25:43 PM	27514
Aniline	ND	2.4	10		µg/L	1	9/17/2016 5:25:43 PM	27514
Anthracene	ND	2.5	10		µg/L	1	9/17/2016 5:25:43 PM	27514
Azobenzene	ND	2.7	10		µg/L	1	9/17/2016 5:25:43 PM	27514
Benz(a)anthracene	ND	2.6	10		µg/L	1	9/17/2016 5:25:43 PM	27514
Benzo(a)pyrene	ND	2.7	10		µg/L	1	9/17/2016 5:25:43 PM	27514
Benzo(b)fluoranthene	ND	2.9	10		µg/L	1	9/17/2016 5:25:43 PM	27514
Benzo(g,h,i)perylene	ND	2.6	10		µg/L	1	9/17/2016 5:25:43 PM	27514
Benzo(k)fluoranthene	ND	3.0	10		µg/L	1	9/17/2016 5:25:43 PM	27514
Benzoic acid	ND	2.6	20		µg/L	1	9/17/2016 5:25:43 PM	27514
Benzyl alcohol	ND	3.0	10		µg/L	1	9/17/2016 5:25:43 PM	27514
Bis(2-chloroethoxy)methane	ND	2.8	10		µg/L	1	9/17/2016 5:25:43 PM	27514
Bis(2-chloroethyl)ether	ND	2.7	10		µg/L	1	9/17/2016 5:25:43 PM	27514
Bis(2-chloroisopropyl)ether	ND	1.9	10		µg/L	1	9/17/2016 5:25:43 PM	27514
Bis(2-ethylhexyl)phthalate	3.6	2.6	10	J	µg/L	1	9/17/2016 5:25:43 PM	27514
4-Bromophenyl phenyl ether	ND	2.6	10		µg/L	1	9/17/2016 5:25:43 PM	27514
Butyl benzyl phthalate	ND	2.5	10		µg/L	1	9/17/2016 5:25:43 PM	27514
Carbazole	17	2.3	10		µg/L	1	9/17/2016 5:25:43 PM	27514
4-Chloro-3-methylphenol	ND	2.6	10		µg/L	1	9/17/2016 5:25:43 PM	27514
4-Chloroaniline	ND	2.7	10		µg/L	1	9/17/2016 5:25:43 PM	27514
2-Chloronaphthalene	ND	2.3	10		µg/L	1	9/17/2016 5:25:43 PM	27514
2-Chlorophenol	ND	2.2	10		µg/L	1	9/17/2016 5:25:43 PM	27514
4-Chlorophenyl phenyl ether	ND	2.6	10		µg/L	1	9/17/2016 5:25:43 PM	27514
Chrysene	ND	2.8	10		µg/L	1	9/17/2016 5:25:43 PM	27514
Di-n-butyl phthalate	ND	2.4	10		µg/L	1	9/17/2016 5:25:43 PM	27514
Di-n-octyl phthalate	4.9	2.0	10	J	µg/L	1	9/17/2016 5:25:43 PM	27514
Dibenz(a,h)anthracene	ND	2.7	10		µg/L	1	9/17/2016 5:25:43 PM	27514
Dibenzofuran	2.5	2.5	10	J	µg/L	1	9/17/2016 5:25:43 PM	27514
1,2-Dichlorobenzene	ND	2.3	10		µg/L	1	9/17/2016 5:25:43 PM	27514
1,3-Dichlorobenzene	ND	2.3	10		µg/L	1	9/17/2016 5:25:43 PM	27514

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 1609601

Date Reported: 10/25/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-04

Project: 2016 3RD QTR (MKTF)

Collection Date: 9/11/2016 2:45:00 PM

Lab ID: 1609601-005

Matrix: AQUEOUS

Received Date: 9/12/2016 3:20:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: DAM	
1,4-Dichlorobenzene	ND	2.4	10		µg/L	1	9/17/2016 5:25:43 PM	27514
3,3'-Dichlorobenzidine	ND	2.4	10		µg/L	1	9/17/2016 5:25:43 PM	27514
Diethyl phthalate	ND	2.7	10		µg/L	1	9/17/2016 5:25:43 PM	27514
Dimethyl phthalate	ND	2.4	10		µg/L	1	9/17/2016 5:25:43 PM	27514
2,4-Dichlorophenol	ND	2.3	20		µg/L	1	9/17/2016 5:25:43 PM	27514
2,4-Dimethylphenol	ND	3.0	10		µg/L	1	9/17/2016 5:25:43 PM	27514
4,6-Dinitro-2-methylphenol	ND	1.8	20		µg/L	1	9/17/2016 5:25:43 PM	27514
2,4-Dinitrophenol	ND	2.8	20		µg/L	1	9/17/2016 5:25:43 PM	27514
2,4-Dinitrotoluene	ND	3.1	10		µg/L	1	9/17/2016 5:25:43 PM	27514
2,6-Dinitrotoluene	ND	2.7	10		µg/L	1	9/17/2016 5:25:43 PM	27514
Fluoranthene	ND	2.6	10		µg/L	1	9/17/2016 5:25:43 PM	27514
Fluorene	5.2	2.7	10	J	µg/L	1	9/17/2016 5:25:43 PM	27514
Hexachlorobenzene	ND	2.6	10		µg/L	1	9/17/2016 5:25:43 PM	27514
Hexachlorobutadiene	ND	2.2	10		µg/L	1	9/17/2016 5:25:43 PM	27514
Hexachlorocyclopentadiene	ND	2.3	10		µg/L	1	9/17/2016 5:25:43 PM	27514
Hexachloroethane	ND	2.4	10		µg/L	1	9/17/2016 5:25:43 PM	27514
Indeno(1,2,3-cd)pyrene	ND	3.0	10		µg/L	1	9/17/2016 5:25:43 PM	27514
Isophorone	ND	2.6	10		µg/L	1	9/17/2016 5:25:43 PM	27514
1-Methylnaphthalene	140	2.9	10		µg/L	1	9/17/2016 5:25:43 PM	27514
2-Methylnaphthalene	160	2.9	10		µg/L	1	9/17/2016 5:25:43 PM	27514
2-Methylphenol	ND	2.5	10		µg/L	1	9/17/2016 5:25:43 PM	27514
3+4-Methylphenol	ND	2.3	10		µg/L	1	9/17/2016 5:25:43 PM	27514
N-Nitrosodi-n-propylamine	ND	2.4	10		µg/L	1	9/17/2016 5:25:43 PM	27514
N-Nitrosodimethylamine	ND	2.2	10		µg/L	1	9/17/2016 5:25:43 PM	27514
N-Nitrosodiphenylamine	ND	2.3	10		µg/L	1	9/17/2016 5:25:43 PM	27514
Naphthalene	220	2.6	10		µg/L	1	9/17/2016 5:25:43 PM	27514
2-Nitroaniline	ND	2.8	10		µg/L	1	9/17/2016 5:25:43 PM	27514
3-Nitroaniline	ND	2.9	10		µg/L	1	9/17/2016 5:25:43 PM	27514
4-Nitroaniline	ND	2.6	10		µg/L	1	9/17/2016 5:25:43 PM	27514
Nitrobenzene	ND	2.8	10		µg/L	1	9/17/2016 5:25:43 PM	27514
2-Nitrophenol	ND	2.4	10		µg/L	1	9/17/2016 5:25:43 PM	27514
4-Nitrophenol	ND	2.6	10		µg/L	1	9/17/2016 5:25:43 PM	27514
Pentachlorophenol	ND	2.3	20		µg/L	1	9/17/2016 5:25:43 PM	27514
Phenanthrene	7.1	2.6	10	J	µg/L	1	9/17/2016 5:25:43 PM	27514
Phenol	3.7	2.0	10	J	µg/L	1	9/17/2016 5:25:43 PM	27514
Pyrene	3.3	3.1	10	J	µg/L	1	9/17/2016 5:25:43 PM	27514
Pyridine	ND	2.2	10		µg/L	1	9/17/2016 5:25:43 PM	27514
1,2,4-Trichlorobenzene	ND	2.6	10		µg/L	1	9/17/2016 5:25:43 PM	27514
2,4,5-Trichlorophenol	ND	2.2	10		µg/L	1	9/17/2016 5:25:43 PM	27514

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 1609601

Date Reported: 10/25/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-04

Project: 2016 3RD QTR (MKTF)

Collection Date: 9/11/2016 2:45:00 PM

Lab ID: 1609601-005

Matrix: AQUEOUS

Received Date: 9/12/2016 3:20:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: DAM	
2,4,6-Trichlorophenol	ND	2.4	10		µg/L	1	9/17/2016 5:25:43 PM	27514
Surr: 2-Fluorophenol	38.0	0	15-123		%Rec	1	9/17/2016 5:25:43 PM	27514
Surr: Phenol-d5	40.4	0	15-124		%Rec	1	9/17/2016 5:25:43 PM	27514
Surr: 2,4,6-Tribromophenol	84.3	0	18.4-134		%Rec	1	9/17/2016 5:25:43 PM	27514
Surr: Nitrobenzene-d5	69.5	0	28.8-134		%Rec	1	9/17/2016 5:25:43 PM	27514
Surr: 2-Fluorobiphenyl	68.7	0	35.9-125		%Rec	1	9/17/2016 5:25:43 PM	27514
Surr: 4-Terphenyl-d14	51.2	0	15-146		%Rec	1	9/17/2016 5:25:43 PM	27514
EPA METHOD 8260B: VOLATILES							Analyst: DJF	
Benzene	880	4.8	50		µg/L	50	9/15/2016 9:31:42 PM	W37240
Toluene	15	0.59	5.0		µg/L	5	9/15/2016 4:15:45 PM	W37240
Ethylbenzene	670	5.6	50		µg/L	50	9/15/2016 9:31:42 PM	W37240
Methyl tert-butyl ether (MTBE)	2400	11	50		µg/L	50	9/15/2016 9:31:42 PM	W37240
1,2,4-Trimethylbenzene	430	0.55	5.0		µg/L	5	9/15/2016 4:15:45 PM	W37240
1,3,5-Trimethylbenzene	69	0.58	5.0		µg/L	5	9/15/2016 4:15:45 PM	W37240
1,2-Dichloroethane (EDC)	2.6	0.58	5.0	J	µg/L	5	9/15/2016 4:15:45 PM	W37240
1,2-Dibromoethane (EDB)	ND	0.56	5.0		µg/L	5	9/15/2016 4:15:45 PM	W37240
Naphthalene	390	0.46	10		µg/L	5	9/15/2016 4:15:45 PM	W37240
1-Methylnaphthalene	220	1.0	20		µg/L	5	9/15/2016 4:15:45 PM	W37240
2-Methylnaphthalene	220	0.79	20		µg/L	5	9/15/2016 4:15:45 PM	W37240
Acetone	ND	25	50		µg/L	5	9/15/2016 4:15:45 PM	W37240
Bromobenzene	ND	0.49	5.0		µg/L	5	9/15/2016 4:15:45 PM	W37240
Bromodichloromethane	ND	0.70	5.0		µg/L	5	9/15/2016 4:15:45 PM	W37240
Bromoform	ND	0.51	5.0		µg/L	5	9/15/2016 4:15:45 PM	W37240
Bromomethane	ND	3.9	15		µg/L	5	9/15/2016 4:15:45 PM	W37240
2-Butanone	ND	3.7	50		µg/L	5	9/15/2016 4:15:45 PM	W37240
Carbon disulfide	ND	3.0	50		µg/L	5	9/15/2016 4:15:45 PM	W37240
Carbon Tetrachloride	ND	0.54	5.0		µg/L	5	9/15/2016 4:15:45 PM	W37240
Chlorobenzene	ND	0.57	5.0		µg/L	5	9/15/2016 4:15:45 PM	W37240
Chloroethane	ND	0.96	10		µg/L	5	9/15/2016 4:15:45 PM	W37240
Chloroform	ND	0.44	5.0		µg/L	5	9/15/2016 4:15:45 PM	W37240
Chloromethane	ND	1.1	15		µg/L	5	9/15/2016 4:15:45 PM	W37240
2-Chlorotoluene	ND	2.0	5.0		µg/L	5	9/15/2016 4:15:45 PM	W37240
4-Chlorotoluene	ND	0.64	5.0		µg/L	5	9/15/2016 4:15:45 PM	W37240
cis-1,2-DCE	10	0.62	5.0		µg/L	5	9/15/2016 4:15:45 PM	W37240
cis-1,3-Dichloropropene	ND	0.53	5.0		µg/L	5	9/15/2016 4:15:45 PM	W37240
1,2-Dibromo-3-chloropropane	ND	1.2	10		µg/L	5	9/15/2016 4:15:45 PM	W37240
Dibromochloromethane	ND	0.43	5.0		µg/L	5	9/15/2016 4:15:45 PM	W37240
Dibromomethane	ND	0.60	5.0		µg/L	5	9/15/2016 4:15:45 PM	W37240
1,2-Dichlorobenzene	ND	2.0	5.0		µg/L	5	9/15/2016 4:15:45 PM	W37240

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 1609601

Date Reported: 10/25/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-04

Project: 2016 3RD QTR (MKTF)

Collection Date: 9/11/2016 2:45:00 PM

Lab ID: 1609601-005

Matrix: AQUEOUS

Received Date: 9/12/2016 3:20:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: DJF	
1,3-Dichlorobenzene	ND	0.72	5.0		µg/L	5	9/15/2016 4:15:45 PM	W37240
1,4-Dichlorobenzene	ND	0.71	5.0		µg/L	5	9/15/2016 4:15:45 PM	W37240
Dichlorodifluoromethane	ND	1.8	5.0		µg/L	5	9/15/2016 4:15:45 PM	W37240
1,1-Dichloroethane	6.2	0.54	5.0		µg/L	5	9/15/2016 4:15:45 PM	W37240
1,1-Dichloroethene	12	0.54	5.0		µg/L	5	9/15/2016 4:15:45 PM	W37240
1,2-Dichloropropane	ND	0.55	5.0		µg/L	5	9/15/2016 4:15:45 PM	W37240
1,3-Dichloropropane	ND	0.78	5.0		µg/L	5	9/15/2016 4:15:45 PM	W37240
2,2-Dichloropropane	ND	0.83	10		µg/L	5	9/15/2016 4:15:45 PM	W37240
1,1-Dichloropropene	ND	0.67	5.0		µg/L	5	9/15/2016 4:15:45 PM	W37240
Hexachlorobutadiene	ND	0.99	5.0		µg/L	5	9/15/2016 4:15:45 PM	W37240
2-Hexanone	ND	4.2	50		µg/L	5	9/15/2016 4:15:45 PM	W37240
Isopropylbenzene	24	0.52	5.0		µg/L	5	9/15/2016 4:15:45 PM	W37240
4-Isopropyltoluene	3.3	0.70	5.0	J	µg/L	5	9/15/2016 4:15:45 PM	W37240
4-Methyl-2-pentanone	ND	2.1	50		µg/L	5	9/15/2016 4:15:45 PM	W37240
Methylene Chloride	ND	0.94	15		µg/L	5	9/15/2016 4:15:45 PM	W37240
n-Butylbenzene	5.5	0.80	15	J	µg/L	5	9/15/2016 4:15:45 PM	W37240
n-Propylbenzene	54	0.66	5.0		µg/L	5	9/15/2016 4:15:45 PM	W37240
sec-Butylbenzene	3.8	0.62	5.0	J	µg/L	5	9/15/2016 4:15:45 PM	W37240
Styrene	0.58	0.55	5.0	J	µg/L	5	9/15/2016 4:15:45 PM	W37240
tert-Butylbenzene	ND	0.58	5.0		µg/L	5	9/15/2016 4:15:45 PM	W37240
1,1,1,2-Tetrachloroethane	ND	0.56	5.0		µg/L	5	9/15/2016 4:15:45 PM	W37240
1,1,2,2-Tetrachloroethane	ND	0.64	10		µg/L	5	9/15/2016 4:15:45 PM	W37240
Tetrachloroethene (PCE)	ND	0.76	5.0		µg/L	5	9/15/2016 4:15:45 PM	W37240
trans-1,2-DCE	ND	2.0	5.0		µg/L	5	9/15/2016 4:15:45 PM	W37240
trans-1,3-Dichloropropene	ND	0.52	5.0		µg/L	5	9/15/2016 4:15:45 PM	W37240
1,2,3-Trichlorobenzene	ND	0.56	5.0		µg/L	5	9/15/2016 4:15:45 PM	W37240
1,2,4-Trichlorobenzene	ND	0.66	5.0		µg/L	5	9/15/2016 4:15:45 PM	W37240
1,1,1-Trichloroethane	ND	0.46	5.0		µg/L	5	9/15/2016 4:15:45 PM	W37240
1,1,2-Trichloroethane	ND	0.64	5.0		µg/L	5	9/15/2016 4:15:45 PM	W37240
Trichloroethene (TCE)	ND	0.88	5.0		µg/L	5	9/15/2016 4:15:45 PM	W37240
Trichlorofluoromethane	ND	1.0	5.0		µg/L	5	9/15/2016 4:15:45 PM	W37240
1,2,3-Trichloropropane	ND	1.0	10		µg/L	5	9/15/2016 4:15:45 PM	W37240
Vinyl chloride	ND	0.98	5.0		µg/L	5	9/15/2016 4:15:45 PM	W37240
Xylenes, Total	760	1.8	7.5		µg/L	5	9/15/2016 4:15:45 PM	W37240
Surr: 1,2-Dichloroethane-d4	95.7	0	70-130		%Rec	5	9/15/2016 4:15:45 PM	W37240
Surr: 4-Bromofluorobenzene	94.0	0	70-130		%Rec	5	9/15/2016 4:15:45 PM	W37240
Surr: Dibromofluoromethane	98.9	0	70-130		%Rec	5	9/15/2016 4:15:45 PM	W37240
Surr: Toluene-d8	94.2	0	70-130		%Rec	5	9/15/2016 4:15:45 PM	W37240

EPA METHOD 8015D: GASOLINE RANGE

Analyst: DJF

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 1609601

Date Reported: 10/25/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-04

Project: 2016 3RD QTR (MKTF)

Collection Date: 9/11/2016 2:45:00 PM

Lab ID: 1609601-005

Matrix: AQUEOUS

Received Date: 9/12/2016 3:20:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: GASOLINE RANGE							Analyst: DJF	
Gasoline Range Organics (GRO)	10	0.075	0.25		mg/L	5	9/15/2016 4:15:45 PM	G37240
Surr: BFB	96.0	0	70-130		%Rec	5	9/15/2016 4:15:45 PM	G37240

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 1609601

Date Reported: 10/25/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-10

Project: 2016 3RD QTR (MKTF)

Collection Date: 9/11/2016 3:00:00 PM

Lab ID: 1609601-006

Matrix: AQUEOUS

Received Date: 9/12/2016 3:20:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015M/D: DIESEL RANGE							Analyst: TOM	
Diesel Range Organics (DRO)	6.0	0.69	1.0		mg/L	1	9/14/2016 4:58:50 PM	27491
Motor Oil Range Organics (MRO)	ND	5.0	5.0		mg/L	1	9/14/2016 4:58:50 PM	27491
Surr: DNOP	135	0	77.1-144		%Rec	1	9/14/2016 4:58:50 PM	27491
EPA METHOD 300.0: ANIONS							Analyst: MRA	
Fluoride	ND	1.0	2.0		mg/L	20	9/18/2016 1:55:06 PM	R37299
Chloride	240	1.0	10		mg/L	20	9/18/2016 1:55:06 PM	R37299
Bromide	0.79	0.22	0.50		mg/L	5	9/18/2016 1:42:42 PM	R37299
Phosphorus, Orthophosphate (As P _i)	ND	0.38	2.5	H	mg/L	5	9/18/2016 1:42:42 PM	R37299
Sulfate	ND	0.71	2.5		mg/L	5	9/18/2016 1:42:42 PM	R37299
Nitrate+Nitrite as N	ND	0.46	1.0		mg/L	5	9/18/2016 7:30:10 PM	R37299
EPA METHOD 200.7: DISSOLVED METALS							Analyst: ELS	
Barium	11	0.066	0.10	*	mg/L	50	9/29/2016 4:12:19 PM	F37552
Cadmium	ND	0.00075	0.0020		mg/L	1	9/29/2016 4:08:50 PM	F37552
Calcium	390	2.5	5.0		mg/L	5	9/29/2016 4:10:31 PM	F37552
Chromium	ND	0.0018	0.0060		mg/L	1	9/29/2016 4:08:50 PM	F37552
Copper	ND	0.0040	0.0060		mg/L	1	9/29/2016 4:08:50 PM	F37552
Iron	26	1.0	1.0	*	mg/L	50	9/29/2016 4:12:19 PM	F37552
Magnesium	95	0.50	1.0		mg/L	1	9/29/2016 4:08:50 PM	F37552
Manganese	12	0.016	0.10	*	mg/L	50	9/29/2016 4:12:19 PM	F37552
Potassium	0.82	0.50	1.0	J	mg/L	1	9/29/2016 4:08:50 PM	F37552
Silver	ND	0.0028	0.0050		mg/L	1	9/29/2016 4:08:50 PM	F37552
Sodium	330	2.5	5.0		mg/L	5	9/29/2016 4:10:31 PM	F37552
Zinc	0.0029	0.0028	0.010	J	mg/L	1	9/29/2016 4:08:50 PM	F37552
EPA METHOD 200.7: TOTAL METALS							Analyst: ELS	
Barium	11	0.016	0.040	*	mg/L	20	10/4/2016 4:25:35 PM	27665
Cadmium	ND	0.0015	0.0020		mg/L	1	10/3/2016 8:03:20 PM	27665
Chromium	ND	0.0027	0.0060		mg/L	1	10/3/2016 8:03:20 PM	27665
Copper	ND	0.0030	0.0060		mg/L	1	10/3/2016 8:03:20 PM	27665
Iron	28	1.0	1.0	*	mg/L	50	10/4/2016 4:27:37 PM	27665
Manganese	12	0.0055	0.040	*	mg/L	20	10/4/2016 4:25:35 PM	27665
Silver	ND	0.0015	0.0050		mg/L	1	10/3/2016 8:03:20 PM	27665
Zinc	0.0027	0.0027	0.010	J	mg/L	1	10/3/2016 8:03:20 PM	27665
EPA 200.8: DISSOLVED METALS							Analyst: JLF	
Arsenic	0.0082	0.00014	0.0010		mg/L	1	9/23/2016 12:34:06 PM	A37462
Lead	0.00086	0.00017	0.00050		mg/L	1	9/23/2016 12:34:06 PM	A37462
Selenium	0.0066	0.00021	0.0010		mg/L	1	9/23/2016 12:34:06 PM	A37462
Uranium	0.00091	0.000051	0.00050		mg/L	1	9/23/2016 12:34:06 PM	A37462

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 1609601

Date Reported: 10/25/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-10

Project: 2016 3RD QTR (MKTF)

Collection Date: 9/11/2016 3:00:00 PM

Lab ID: 1609601-006

Matrix: AQUEOUS

Received Date: 9/12/2016 3:20:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
200.8 ICPMS METALS:TOTAL							Analyst: JLF	
Arsenic	0.0083	0.00021	0.0010		mg/L	1	9/26/2016 2:15:13 PM	27665
Lead	0.0018	0.000081	0.00050		mg/L	1	9/26/2016 2:15:13 PM	27665
Selenium	0.0058	0.0019	0.010	J	mg/L	10	9/26/2016 6:19:35 PM	27665
Uranium	0.0012	0.00017	0.00050		mg/L	1	9/26/2016 5:55:30 PM	27665
EPA METHOD 245.1: MERCURY							Analyst: pmf	
Mercury	ND	0.000053	0.00020		mg/L	1	9/23/2016 11:35:48 AM	27664
EPA METHOD 8270C: SEMIVOLATILES							Analyst: DAM	
Acenaphthene	ND	2.6	10		µg/L	1	9/17/2016 8:39:41 PM	27514
Acenaphthylene	ND	2.4	10		µg/L	1	9/17/2016 8:39:41 PM	27514
Aniline	60	2.4	10		µg/L	1	9/17/2016 8:39:41 PM	27514
Anthracene	ND	2.5	10		µg/L	1	9/17/2016 8:39:41 PM	27514
Azobenzene	ND	2.7	10		µg/L	1	9/17/2016 8:39:41 PM	27514
Benz(a)anthracene	ND	2.6	10		µg/L	1	9/17/2016 8:39:41 PM	27514
Benzo(a)pyrene	ND	2.7	10		µg/L	1	9/17/2016 8:39:41 PM	27514
Benzo(b)fluoranthene	ND	2.9	10		µg/L	1	9/17/2016 8:39:41 PM	27514
Benzo(g,h,i)perylene	ND	2.6	10		µg/L	1	9/17/2016 8:39:41 PM	27514
Benzo(k)fluoranthene	ND	3.0	10		µg/L	1	9/17/2016 8:39:41 PM	27514
Benzoic acid	50	2.6	20		µg/L	1	9/17/2016 8:39:41 PM	27514
Benzyl alcohol	6.2	3.0	10	J	µg/L	1	9/17/2016 8:39:41 PM	27514
Bis(2-chloroethoxy)methane	ND	2.8	10		µg/L	1	9/17/2016 8:39:41 PM	27514
Bis(2-chloroethyl)ether	ND	2.7	10		µg/L	1	9/17/2016 8:39:41 PM	27514
Bis(2-chloroisopropyl)ether	ND	1.9	10		µg/L	1	9/17/2016 8:39:41 PM	27514
Bis(2-ethylhexyl)phthalate	3.7	2.6	10	J	µg/L	1	9/17/2016 8:39:41 PM	27514
4-Bromophenyl phenyl ether	ND	2.6	10		µg/L	1	9/17/2016 8:39:41 PM	27514
Butyl benzyl phthalate	ND	2.5	10		µg/L	1	9/17/2016 8:39:41 PM	27514
Carbazole	4.4	2.3	10	J	µg/L	1	9/17/2016 8:39:41 PM	27514
4-Chloro-3-methylphenol	ND	2.6	10		µg/L	1	9/17/2016 8:39:41 PM	27514
4-Chloroaniline	ND	2.7	10		µg/L	1	9/17/2016 8:39:41 PM	27514
2-Chloronaphthalene	ND	2.3	10		µg/L	1	9/17/2016 8:39:41 PM	27514
2-Chlorophenol	ND	2.2	10		µg/L	1	9/17/2016 8:39:41 PM	27514
4-Chlorophenyl phenyl ether	ND	2.6	10		µg/L	1	9/17/2016 8:39:41 PM	27514
Chrysene	ND	2.8	10		µg/L	1	9/17/2016 8:39:41 PM	27514
Di-n-butyl phthalate	ND	2.4	10		µg/L	1	9/17/2016 8:39:41 PM	27514
Di-n-octyl phthalate	5.0	2.0	10	J	µg/L	1	9/17/2016 8:39:41 PM	27514
Dibenz(a,h)anthracene	ND	2.7	10		µg/L	1	9/17/2016 8:39:41 PM	27514
Dibenzofuran	ND	2.5	10		µg/L	1	9/17/2016 8:39:41 PM	27514
1,2-Dichlorobenzene	ND	2.3	10		µg/L	1	9/17/2016 8:39:41 PM	27514
1,3-Dichlorobenzene	ND	2.3	10		µg/L	1	9/17/2016 8:39:41 PM	27514

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-10

Project: 2016 3RD QTR (MKTF)

Collection Date: 9/11/2016 3:00:00 PM

Lab ID: 1609601-006

Matrix: AQUEOUS

Received Date: 9/12/2016 3:20:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: DAM	
1,4-Dichlorobenzene	ND	2.4	10		µg/L	1	9/17/2016 8:39:41 PM	27514
3,3'-Dichlorobenzidine	ND	2.4	10		µg/L	1	9/17/2016 8:39:41 PM	27514
Diethyl phthalate	ND	2.7	10		µg/L	1	9/17/2016 8:39:41 PM	27514
Dimethyl phthalate	ND	2.4	10		µg/L	1	9/17/2016 8:39:41 PM	27514
2,4-Dichlorophenol	ND	2.3	20		µg/L	1	9/17/2016 8:39:41 PM	27514
2,4-Dimethylphenol	200	3.0	10		µg/L	1	9/17/2016 8:39:41 PM	27514
4,6-Dinitro-2-methylphenol	ND	1.8	20		µg/L	1	9/17/2016 8:39:41 PM	27514
2,4-Dinitrophenol	ND	2.8	20		µg/L	1	9/17/2016 8:39:41 PM	27514
2,4-Dinitrotoluene	ND	3.1	10		µg/L	1	9/17/2016 8:39:41 PM	27514
2,6-Dinitrotoluene	ND	2.7	10		µg/L	1	9/17/2016 8:39:41 PM	27514
Fluoranthene	ND	2.6	10		µg/L	1	9/17/2016 8:39:41 PM	27514
Fluorene	ND	2.7	10		µg/L	1	9/17/2016 8:39:41 PM	27514
Hexachlorobenzene	ND	2.6	10		µg/L	1	9/17/2016 8:39:41 PM	27514
Hexachlorobutadiene	ND	2.2	10		µg/L	1	9/17/2016 8:39:41 PM	27514
Hexachlorocyclopentadiene	ND	2.3	10		µg/L	1	9/17/2016 8:39:41 PM	27514
Hexachloroethane	ND	2.4	10		µg/L	1	9/17/2016 8:39:41 PM	27514
Indeno(1,2,3-cd)pyrene	ND	3.0	10		µg/L	1	9/17/2016 8:39:41 PM	27514
Isophorone	ND	2.6	10		µg/L	1	9/17/2016 8:39:41 PM	27514
1-Methylnaphthalene	51	2.9	10		µg/L	1	9/17/2016 8:39:41 PM	27514
2-Methylnaphthalene	77	2.9	10		µg/L	1	9/17/2016 8:39:41 PM	27514
2-Methylphenol	690	13	50		µg/L	5	9/19/2016 4:46:18 PM	27514
3+4-Methylphenol	1100	11	50		µg/L	5	9/19/2016 4:46:18 PM	27514
N-Nitrosodi-n-propylamine	ND	2.4	10		µg/L	1	9/17/2016 8:39:41 PM	27514
N-Nitrosodimethylamine	ND	2.2	10		µg/L	1	9/17/2016 8:39:41 PM	27514
N-Nitrosodiphenylamine	ND	2.3	10		µg/L	1	9/17/2016 8:39:41 PM	27514
Naphthalene	150	2.6	10		µg/L	1	9/17/2016 8:39:41 PM	27514
2-Nitroaniline	ND	2.8	10		µg/L	1	9/17/2016 8:39:41 PM	27514
3-Nitroaniline	ND	2.9	10		µg/L	1	9/17/2016 8:39:41 PM	27514
4-Nitroaniline	ND	2.6	10		µg/L	1	9/17/2016 8:39:41 PM	27514
Nitrobenzene	ND	2.8	10		µg/L	1	9/17/2016 8:39:41 PM	27514
2-Nitrophenol	ND	2.4	10		µg/L	1	9/17/2016 8:39:41 PM	27514
4-Nitrophenol	ND	2.6	10		µg/L	1	9/17/2016 8:39:41 PM	27514
Pentachlorophenol	ND	2.3	20		µg/L	1	9/17/2016 8:39:41 PM	27514
Phenanthrene	ND	2.6	10		µg/L	1	9/17/2016 8:39:41 PM	27514
Phenol	260	9.9	50		µg/L	5	9/19/2016 4:46:18 PM	27514
Pyrene	ND	3.1	10		µg/L	1	9/17/2016 8:39:41 PM	27514
Pyridine	ND	2.2	10		µg/L	1	9/17/2016 8:39:41 PM	27514
1,2,4-Trichlorobenzene	ND	2.6	10		µg/L	1	9/17/2016 8:39:41 PM	27514
2,4,5-Trichlorophenol	ND	2.2	10		µg/L	1	9/17/2016 8:39:41 PM	27514

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 1609601

Date Reported: 10/25/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-10

Project: 2016 3RD QTR (MKTF)

Collection Date: 9/11/2016 3:00:00 PM

Lab ID: 1609601-006

Matrix: AQUEOUS

Received Date: 9/12/2016 3:20:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: DAM	
2,4,6-Trichlorophenol	ND	2.4	10		µg/L	1	9/17/2016 8:39:41 PM	27514
Surr: 2-Fluorophenol	18.3	0	15-123		%Rec	1	9/17/2016 8:39:41 PM	27514
Surr: Phenol-d5	44.9	0	15-124		%Rec	1	9/17/2016 8:39:41 PM	27514
Surr: 2,4,6-Tribromophenol	100	0	18.4-134		%Rec	1	9/17/2016 8:39:41 PM	27514
Surr: Nitrobenzene-d5	83.5	0	28.8-134		%Rec	1	9/17/2016 8:39:41 PM	27514
Surr: 2-Fluorobiphenyl	84.9	0	35.9-125		%Rec	1	9/17/2016 8:39:41 PM	27514
Surr: 4-Terphenyl-d14	55.9	0	15-146		%Rec	1	9/17/2016 8:39:41 PM	27514
EPA METHOD 8260B: VOLATILES							Analyst: DJF	
Benzene	16000	96	1000		µg/L	1000	9/15/2016 11:55:27 PM	W37240
Toluene	20000	120	1000		µg/L	1000	9/15/2016 11:55:27 PM	W37240
Ethylbenzene	1600	11	100		µg/L	100	9/15/2016 4:44:33 PM	W37240
Methyl tert-butyl ether (MTBE)	ND	21	100		µg/L	100	9/15/2016 4:44:33 PM	W37240
1,2,4-Trimethylbenzene	840	11	100		µg/L	100	9/15/2016 4:44:33 PM	W37240
1,3,5-Trimethylbenzene	200	12	100		µg/L	100	9/15/2016 4:44:33 PM	W37240
1,2-Dichloroethane (EDC)	ND	12	100		µg/L	100	9/15/2016 4:44:33 PM	W37240
1,2-Dibromoethane (EDB)	ND	11	100		µg/L	100	9/15/2016 4:44:33 PM	W37240
Naphthalene	350	9.3	200		µg/L	100	9/15/2016 4:44:33 PM	W37240
1-Methylnaphthalene	150	20	400	J	µg/L	100	9/15/2016 4:44:33 PM	W37240
2-Methylnaphthalene	160	16	400	J	µg/L	100	9/15/2016 4:44:33 PM	W37240
Acetone	ND	490	1000		µg/L	100	9/15/2016 4:44:33 PM	W37240
Bromobenzene	ND	9.8	100		µg/L	100	9/15/2016 4:44:33 PM	W37240
Bromodichloromethane	ND	14	100		µg/L	100	9/15/2016 4:44:33 PM	W37240
Bromoform	ND	10	100		µg/L	100	9/15/2016 4:44:33 PM	W37240
Bromomethane	ND	78	300		µg/L	100	9/15/2016 4:44:33 PM	W37240
2-Butanone	1300	74	1000		µg/L	100	9/15/2016 4:44:33 PM	W37240
Carbon disulfide	ND	60	1000		µg/L	100	9/15/2016 4:44:33 PM	W37240
Carbon Tetrachloride	ND	11	100		µg/L	100	9/15/2016 4:44:33 PM	W37240
Chlorobenzene	ND	11	100		µg/L	100	9/15/2016 4:44:33 PM	W37240
Chloroethane	ND	19	200		µg/L	100	9/15/2016 4:44:33 PM	W37240
Chloroform	ND	8.9	100		µg/L	100	9/15/2016 4:44:33 PM	W37240
Chloromethane	ND	21	300		µg/L	100	9/15/2016 4:44:33 PM	W37240
2-Chlorotoluene	ND	40	100		µg/L	100	9/15/2016 4:44:33 PM	W37240
4-Chlorotoluene	ND	13	100		µg/L	100	9/15/2016 4:44:33 PM	W37240
cis-1,2-DCE	32	12	100	J	µg/L	100	9/15/2016 4:44:33 PM	W37240
cis-1,3-Dichloropropene	ND	11	100		µg/L	100	9/15/2016 4:44:33 PM	W37240
1,2-Dibromo-3-chloropropane	ND	23	200		µg/L	100	9/15/2016 4:44:33 PM	W37240
Dibromochloromethane	ND	8.7	100		µg/L	100	9/15/2016 4:44:33 PM	W37240
Dibromomethane	ND	12	100		µg/L	100	9/15/2016 4:44:33 PM	W37240
1,2-Dichlorobenzene	ND	40	100		µg/L	100	9/15/2016 4:44:33 PM	W37240

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 1609601

Date Reported: 10/25/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-10

Project: 2016 3RD QTR (MKTF)

Collection Date: 9/11/2016 3:00:00 PM

Lab ID: 1609601-006

Matrix: AQUEOUS

Received Date: 9/12/2016 3:20:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: DJF	
1,3-Dichlorobenzene	ND	14	100		µg/L	100	9/15/2016 4:44:33 PM	W37240
1,4-Dichlorobenzene	ND	14	100		µg/L	100	9/15/2016 4:44:33 PM	W37240
Dichlorodifluoromethane	ND	36	100		µg/L	100	9/15/2016 4:44:33 PM	W37240
1,1-Dichloroethane	ND	11	100		µg/L	100	9/15/2016 4:44:33 PM	W37240
1,1-Dichloroethene	ND	11	100		µg/L	100	9/15/2016 4:44:33 PM	W37240
1,2-Dichloropropane	ND	11	100		µg/L	100	9/15/2016 4:44:33 PM	W37240
1,3-Dichloropropane	ND	16	100		µg/L	100	9/15/2016 4:44:33 PM	W37240
2,2-Dichloropropane	ND	17	200		µg/L	100	9/15/2016 4:44:33 PM	W37240
1,1-Dichloropropene	ND	13	100		µg/L	100	9/15/2016 4:44:33 PM	W37240
Hexachlorobutadiene	ND	20	100		µg/L	100	9/15/2016 4:44:33 PM	W37240
2-Hexanone	ND	84	1000		µg/L	100	9/15/2016 4:44:33 PM	W37240
Isopropylbenzene	42	10	100	J	µg/L	100	9/15/2016 4:44:33 PM	W37240
4-Isopropyltoluene	ND	14	100		µg/L	100	9/15/2016 4:44:33 PM	W37240
4-Methyl-2-pentanone	120	43	1000	J	µg/L	100	9/15/2016 4:44:33 PM	W37240
Methylene Chloride	ND	19	300		µg/L	100	9/15/2016 4:44:33 PM	W37240
n-Butylbenzene	ND	16	300		µg/L	100	9/15/2016 4:44:33 PM	W37240
n-Propylbenzene	120	13	100		µg/L	100	9/15/2016 4:44:33 PM	W37240
sec-Butylbenzene	ND	12	100		µg/L	100	9/15/2016 4:44:33 PM	W37240
Styrene	ND	11	100		µg/L	100	9/15/2016 4:44:33 PM	W37240
tert-Butylbenzene	ND	12	100		µg/L	100	9/15/2016 4:44:33 PM	W37240
1,1,1,2-Tetrachloroethane	ND	11	100		µg/L	100	9/15/2016 4:44:33 PM	W37240
1,1,2,2-Tetrachloroethane	ND	13	200		µg/L	100	9/15/2016 4:44:33 PM	W37240
Tetrachloroethene (PCE)	ND	15	100		µg/L	100	9/15/2016 4:44:33 PM	W37240
trans-1,2-DCE	ND	40	100		µg/L	100	9/15/2016 4:44:33 PM	W37240
trans-1,3-Dichloropropene	ND	10	100		µg/L	100	9/15/2016 4:44:33 PM	W37240
1,2,3-Trichlorobenzene	ND	11	100		µg/L	100	9/15/2016 4:44:33 PM	W37240
1,2,4-Trichlorobenzene	ND	13	100		µg/L	100	9/15/2016 4:44:33 PM	W37240
1,1,1-Trichloroethane	ND	9.1	100		µg/L	100	9/15/2016 4:44:33 PM	W37240
1,1,2-Trichloroethane	ND	13	100		µg/L	100	9/15/2016 4:44:33 PM	W37240
Trichloroethene (TCE)	ND	18	100		µg/L	100	9/15/2016 4:44:33 PM	W37240
Trichlorofluoromethane	ND	20	100		µg/L	100	9/15/2016 4:44:33 PM	W37240
1,2,3-Trichloropropane	ND	20	200		µg/L	100	9/15/2016 4:44:33 PM	W37240
Vinyl chloride	ND	20	100		µg/L	100	9/15/2016 4:44:33 PM	W37240
Xylenes, Total	7300	37	150		µg/L	100	9/15/2016 4:44:33 PM	W37240
Surr: 1,2-Dichloroethane-d4	102	0	70-130		%Rec	100	9/15/2016 4:44:33 PM	W37240
Surr: 4-Bromofluorobenzene	95.1	0	70-130		%Rec	100	9/15/2016 4:44:33 PM	W37240
Surr: Dibromofluoromethane	110	0	70-130		%Rec	100	9/15/2016 4:44:33 PM	W37240
Surr: Toluene-d8	94.8	0	70-130		%Rec	100	9/15/2016 4:44:33 PM	W37240

EPA METHOD 8015D: GASOLINE RANGE

Analyst: DJF

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 1609601

Date Reported: 10/25/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-10

Project: 2016 3RD QTR (MKTF)

Collection Date: 9/11/2016 3:00:00 PM

Lab ID: 1609601-006

Matrix: AQUEOUS

Received Date: 9/12/2016 3:20:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: GASOLINE RANGE							Analyst: DJF	
Gasoline Range Organics (GRO)	110	1.5	5.0		mg/L	100	9/15/2016 4:44:33 PM	G37240
Surr: BFB	97.0	0	70-130		%Rec	100	9/15/2016 4:44:33 PM	G37240

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 1609601

Date Reported: 10/25/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-09

Project: 2016 3RD QTR (MKTF)

Collection Date: 9/11/2016 4:20:00 PM

Lab ID: 1609601-007

Matrix: AQUEOUS

Received Date: 9/12/2016 3:20:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015M/D: DIESEL RANGE							Analyst: TOM	
Diesel Range Organics (DRO)	2.3	0.69	1.0		mg/L	1	9/14/2016 5:20:31 PM	27491
Motor Oil Range Organics (MRO)	ND	5.0	5.0		mg/L	1	9/14/2016 5:20:31 PM	27491
Surr: DNOP	141	0	77.1-144		%Rec	1	9/14/2016 5:20:31 PM	27491
EPA METHOD 300.0: ANIONS							Analyst: MRA	
Fluoride	0.26	0.050	0.10		mg/L	1	9/18/2016 2:32:20 PM	R37299
Chloride	160	1.0	10		mg/L	20	9/18/2016 2:44:45 PM	R37299
Bromide	1.2	0.044	0.10		mg/L	1	9/18/2016 2:32:20 PM	R37299
Phosphorus, Orthophosphate (As P')	ND	0.076	0.50	H	mg/L	1	9/18/2016 2:32:20 PM	R37299
Sulfate	57	2.8	10		mg/L	20	9/18/2016 2:44:45 PM	R37299
Nitrate+Nitrite as N	ND	0.46	1.0		mg/L	5	9/18/2016 7:42:35 PM	R37299
EPA METHOD 200.7: DISSOLVED METALS							Analyst: ELS	
Barium	0.52	0.0013	0.0020		mg/L	1	9/29/2016 4:14:06 PM	F37552
Cadmium	ND	0.00075	0.0020		mg/L	1	9/29/2016 4:14:06 PM	F37552
Calcium	140	2.5	5.0		mg/L	5	9/29/2016 4:21:54 PM	F37552
Chromium	ND	0.0018	0.0060		mg/L	1	9/29/2016 4:14:06 PM	F37552
Copper	ND	0.0040	0.0060		mg/L	1	9/29/2016 4:14:06 PM	F37552
Iron	0.81	0.020	0.020	*	mg/L	1	9/29/2016 4:14:06 PM	F37552
Magnesium	30	0.50	1.0		mg/L	1	9/29/2016 4:14:06 PM	F37552
Manganese	3.7	0.0016	0.010	*	mg/L	5	9/29/2016 4:21:54 PM	F37552
Potassium	ND	0.50	1.0		mg/L	1	9/29/2016 4:14:06 PM	F37552
Silver	ND	0.0028	0.0050		mg/L	1	9/29/2016 4:14:06 PM	F37552
Sodium	230	2.5	5.0		mg/L	5	9/29/2016 4:21:54 PM	F37552
Zinc	ND	0.0028	0.010		mg/L	1	9/29/2016 4:14:06 PM	F37552
EPA METHOD 200.7: TOTAL METALS							Analyst: ELS	
Barium	0.52	0.00079	0.0020		mg/L	1	10/3/2016 8:14:35 PM	27665
Cadmium	ND	0.0015	0.0020		mg/L	1	10/3/2016 8:14:35 PM	27665
Chromium	ND	0.0027	0.0060		mg/L	1	10/3/2016 8:14:35 PM	27665
Copper	ND	0.0030	0.0060		mg/L	1	10/3/2016 8:14:35 PM	27665
Iron	2.3	0.10	0.10	*	mg/L	5	10/3/2016 8:16:18 PM	27665
Manganese	3.8	0.0014	0.010	*	mg/L	5	10/3/2016 8:16:18 PM	27665
Silver	ND	0.0015	0.0050		mg/L	1	10/3/2016 8:14:35 PM	27665
Zinc	ND	0.0027	0.010		mg/L	1	10/3/2016 8:14:35 PM	27665
EPA 200.8: DISSOLVED METALS							Analyst: JLF	
Arsenic	0.0032	0.00069	0.0050	J	mg/L	5	9/23/2016 2:56:21 PM	C37462
Lead	0.00023	0.00017	0.00050	J	mg/L	1	9/23/2016 12:37:09 PM	A37462
Selenium	0.0075	0.0021	0.010	J	mg/L	10	9/23/2016 2:59:25 PM	C37462
Uranium	0.0050	0.000051	0.00050		mg/L	1	9/23/2016 12:37:09 PM	A37462

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.

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-09

Project: 2016 3RD QTR (MKTF)

Collection Date: 9/11/2016 4:20:00 PM

Lab ID: 1609601-007

Matrix: AQUEOUS

Received Date: 9/12/2016 3:20:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
200.8 ICPMS METALS:TOTAL							Analyst: JLF	
Arsenic	0.0033	0.0011	0.0050	J	mg/L	5	9/26/2016 6:28:40 PM	27665
Lead	0.0019	0.000081	0.00050		mg/L	1	9/26/2016 2:20:21 PM	27665
Selenium	0.0068	0.0019	0.010	J	mg/L	10	9/26/2016 6:31:40 PM	27665
Uranium	0.0064	0.00017	0.00050		mg/L	1	9/26/2016 5:58:31 PM	27665
EPA METHOD 245.1: MERCURY							Analyst: pmf	
Mercury	ND	0.000053	0.00020		mg/L	1	9/23/2016 11:37:49 AM	27664
EPA METHOD 8270C: SEMIVOLATILES							Analyst: DAM	
Acenaphthene	4.6	2.6	10	J	µg/L	1	9/17/2016 9:07:32 PM	27514
Acenaphthylene	ND	2.4	10		µg/L	1	9/17/2016 9:07:32 PM	27514
Aniline	ND	2.4	10		µg/L	1	9/17/2016 9:07:32 PM	27514
Anthracene	ND	2.5	10		µg/L	1	9/17/2016 9:07:32 PM	27514
Azobenzene	ND	2.7	10		µg/L	1	9/17/2016 9:07:32 PM	27514
Benz(a)anthracene	ND	2.6	10		µg/L	1	9/17/2016 9:07:32 PM	27514
Benzo(a)pyrene	ND	2.7	10		µg/L	1	9/17/2016 9:07:32 PM	27514
Benzo(b)fluoranthene	ND	2.9	10		µg/L	1	9/17/2016 9:07:32 PM	27514
Benzo(g,h,i)perylene	ND	2.6	10		µg/L	1	9/17/2016 9:07:32 PM	27514
Benzo(k)fluoranthene	ND	3.0	10		µg/L	1	9/17/2016 9:07:32 PM	27514
Benzoic acid	ND	2.6	20		µg/L	1	9/17/2016 9:07:32 PM	27514
Benzyl alcohol	ND	3.0	10		µg/L	1	9/17/2016 9:07:32 PM	27514
Bis(2-chloroethoxy)methane	ND	2.8	10		µg/L	1	9/17/2016 9:07:32 PM	27514
Bis(2-chloroethyl)ether	ND	2.7	10		µg/L	1	9/17/2016 9:07:32 PM	27514
Bis(2-chloroisopropyl)ether	ND	1.9	10		µg/L	1	9/17/2016 9:07:32 PM	27514
Bis(2-ethylhexyl)phthalate	3.5	2.6	10	J	µg/L	1	9/17/2016 9:07:32 PM	27514
4-Bromophenyl phenyl ether	ND	2.6	10		µg/L	1	9/17/2016 9:07:32 PM	27514
Butyl benzyl phthalate	ND	2.5	10		µg/L	1	9/17/2016 9:07:32 PM	27514
Carbazole	11	2.3	10		µg/L	1	9/17/2016 9:07:32 PM	27514
4-Chloro-3-methylphenol	ND	2.6	10		µg/L	1	9/17/2016 9:07:32 PM	27514
4-Chloroaniline	ND	2.7	10		µg/L	1	9/17/2016 9:07:32 PM	27514
2-Chloronaphthalene	ND	2.3	10		µg/L	1	9/17/2016 9:07:32 PM	27514
2-Chlorophenol	ND	2.2	10		µg/L	1	9/17/2016 9:07:32 PM	27514
4-Chlorophenyl phenyl ether	ND	2.6	10		µg/L	1	9/17/2016 9:07:32 PM	27514
Chrysene	ND	2.8	10		µg/L	1	9/17/2016 9:07:32 PM	27514
Di-n-butyl phthalate	ND	2.4	10		µg/L	1	9/17/2016 9:07:32 PM	27514
Di-n-octyl phthalate	5.0	2.0	10	J	µg/L	1	9/17/2016 9:07:32 PM	27514
Dibenz(a,h)anthracene	ND	2.7	10		µg/L	1	9/17/2016 9:07:32 PM	27514
Dibenzofuran	ND	2.5	10		µg/L	1	9/17/2016 9:07:32 PM	27514
1,2-Dichlorobenzene	ND	2.3	10		µg/L	1	9/17/2016 9:07:32 PM	27514
1,3-Dichlorobenzene	ND	2.3	10		µg/L	1	9/17/2016 9:07:32 PM	27514

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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 1609601

Date Reported: 10/25/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-09

Project: 2016 3RD QTR (MKTF)

Collection Date: 9/11/2016 4:20:00 PM

Lab ID: 1609601-007

Matrix: AQUEOUS

Received Date: 9/12/2016 3:20:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: DAM	
1,4-Dichlorobenzene	ND	2.4	10		µg/L	1	9/17/2016 9:07:32 PM	27514
3,3'-Dichlorobenzidine	ND	2.4	10		µg/L	1	9/17/2016 9:07:32 PM	27514
Diethyl phthalate	ND	2.7	10		µg/L	1	9/17/2016 9:07:32 PM	27514
Dimethyl phthalate	ND	2.4	10		µg/L	1	9/17/2016 9:07:32 PM	27514
2,4-Dichlorophenol	ND	2.3	20		µg/L	1	9/17/2016 9:07:32 PM	27514
2,4-Dimethylphenol	ND	3.0	10		µg/L	1	9/17/2016 9:07:32 PM	27514
4,6-Dinitro-2-methylphenol	ND	1.8	20		µg/L	1	9/17/2016 9:07:32 PM	27514
2,4-Dinitrophenol	ND	2.8	20		µg/L	1	9/17/2016 9:07:32 PM	27514
2,4-Dinitrotoluene	ND	3.1	10		µg/L	1	9/17/2016 9:07:32 PM	27514
2,6-Dinitrotoluene	ND	2.7	10		µg/L	1	9/17/2016 9:07:32 PM	27514
Fluoranthene	ND	2.6	10		µg/L	1	9/17/2016 9:07:32 PM	27514
Fluorene	4.4	2.7	10	J	µg/L	1	9/17/2016 9:07:32 PM	27514
Hexachlorobenzene	ND	2.6	10		µg/L	1	9/17/2016 9:07:32 PM	27514
Hexachlorobutadiene	ND	2.2	10		µg/L	1	9/17/2016 9:07:32 PM	27514
Hexachlorocyclopentadiene	ND	2.3	10		µg/L	1	9/17/2016 9:07:32 PM	27514
Hexachloroethane	ND	2.4	10		µg/L	1	9/17/2016 9:07:32 PM	27514
Indeno(1,2,3-cd)pyrene	ND	3.0	10		µg/L	1	9/17/2016 9:07:32 PM	27514
Isophorone	ND	2.6	10		µg/L	1	9/17/2016 9:07:32 PM	27514
1-Methylnaphthalene	64	2.9	10		µg/L	1	9/17/2016 9:07:32 PM	27514
2-Methylnaphthalene	5.2	2.9	10	J	µg/L	1	9/17/2016 9:07:32 PM	27514
2-Methylphenol	ND	2.5	10		µg/L	1	9/17/2016 9:07:32 PM	27514
3+4-Methylphenol	ND	2.3	10		µg/L	1	9/17/2016 9:07:32 PM	27514
N-Nitrosodi-n-propylamine	ND	2.4	10		µg/L	1	9/17/2016 9:07:32 PM	27514
N-Nitrosodimethylamine	ND	2.2	10		µg/L	1	9/17/2016 9:07:32 PM	27514
N-Nitrosodiphenylamine	ND	2.3	10		µg/L	1	9/17/2016 9:07:32 PM	27514
Naphthalene	23	2.6	10		µg/L	1	9/17/2016 9:07:32 PM	27514
2-Nitroaniline	ND	2.8	10		µg/L	1	9/17/2016 9:07:32 PM	27514
3-Nitroaniline	ND	2.9	10		µg/L	1	9/17/2016 9:07:32 PM	27514
4-Nitroaniline	ND	2.6	10		µg/L	1	9/17/2016 9:07:32 PM	27514
Nitrobenzene	ND	2.8	10		µg/L	1	9/17/2016 9:07:32 PM	27514
2-Nitrophenol	ND	2.4	10		µg/L	1	9/17/2016 9:07:32 PM	27514
4-Nitrophenol	ND	2.6	10		µg/L	1	9/17/2016 9:07:32 PM	27514
Pentachlorophenol	9.4	2.3	20	J	µg/L	1	9/17/2016 9:07:32 PM	27514
Phenanthrene	6.5	2.6	10	J	µg/L	1	9/17/2016 9:07:32 PM	27514
Phenol	12	2.0	10		µg/L	1	9/17/2016 9:07:32 PM	27514
Pyrene	7.1	3.1	10	J	µg/L	1	9/17/2016 9:07:32 PM	27514
Pyridine	ND	2.2	10		µg/L	1	9/17/2016 9:07:32 PM	27514
1,2,4-Trichlorobenzene	ND	2.6	10		µg/L	1	9/17/2016 9:07:32 PM	27514
2,4,5-Trichlorophenol	ND	2.2	10		µg/L	1	9/17/2016 9:07:32 PM	27514

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 1609601

Date Reported: 10/25/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-09

Project: 2016 3RD QTR (MKTF)

Collection Date: 9/11/2016 4:20:00 PM

Lab ID: 1609601-007

Matrix: AQUEOUS

Received Date: 9/12/2016 3:20:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: DAM	
2,4,6-Trichlorophenol	ND	2.4	10		µg/L	1	9/17/2016 9:07:32 PM	27514
Surr: 2-Fluorophenol	59.3	0	15-123		%Rec	1	9/17/2016 9:07:32 PM	27514
Surr: Phenol-d5	51.4	0	15-124		%Rec	1	9/17/2016 9:07:32 PM	27514
Surr: 2,4,6-Tribromophenol	98.9	0	18.4-134		%Rec	1	9/17/2016 9:07:32 PM	27514
Surr: Nitrobenzene-d5	83.4	0	28.8-134		%Rec	1	9/17/2016 9:07:32 PM	27514
Surr: 2-Fluorobiphenyl	83.9	0	35.9-125		%Rec	1	9/17/2016 9:07:32 PM	27514
Surr: 4-Terphenyl-d14	60.1	0	15-146		%Rec	1	9/17/2016 9:07:32 PM	27514
EPA METHOD 8260B: VOLATILES							Analyst: DJF	
Benzene	2000	9.6	100		µg/L	100	9/16/2016 12:24:24 AM	W37240
Toluene	30	1.2	10		µg/L	10	9/15/2016 5:13:15 PM	W37240
Ethylbenzene	220	1.1	10		µg/L	10	9/15/2016 5:13:15 PM	W37240
Methyl tert-butyl ether (MTBE)	620	2.1	10		µg/L	10	9/15/2016 5:13:15 PM	W37240
1,2,4-Trimethylbenzene	53	1.1	10		µg/L	10	9/15/2016 5:13:15 PM	W37240
1,3,5-Trimethylbenzene	ND	1.2	10		µg/L	10	9/15/2016 5:13:15 PM	W37240
1,2-Dichloroethane (EDC)	ND	1.2	10		µg/L	10	9/15/2016 5:13:15 PM	W37240
1,2-Dibromoethane (EDB)	ND	1.1	10		µg/L	10	9/15/2016 5:13:15 PM	W37240
Naphthalene	39	0.93	20		µg/L	10	9/15/2016 5:13:15 PM	W37240
1-Methylnaphthalene	76	2.0	40		µg/L	10	9/15/2016 5:13:15 PM	W37240
2-Methylnaphthalene	7.5	1.6	40	J	µg/L	10	9/15/2016 5:13:15 PM	W37240
Acetone	ND	49	100		µg/L	10	9/15/2016 5:13:15 PM	W37240
Bromobenzene	ND	0.98	10		µg/L	10	9/15/2016 5:13:15 PM	W37240
Bromodichloromethane	ND	1.4	10		µg/L	10	9/15/2016 5:13:15 PM	W37240
Bromoform	ND	1.0	10		µg/L	10	9/15/2016 5:13:15 PM	W37240
Bromomethane	ND	7.8	30		µg/L	10	9/15/2016 5:13:15 PM	W37240
2-Butanone	ND	7.4	100		µg/L	10	9/15/2016 5:13:15 PM	W37240
Carbon disulfide	ND	6.0	100		µg/L	10	9/15/2016 5:13:15 PM	W37240
Carbon Tetrachloride	ND	1.1	10		µg/L	10	9/15/2016 5:13:15 PM	W37240
Chlorobenzene	ND	1.1	10		µg/L	10	9/15/2016 5:13:15 PM	W37240
Chloroethane	ND	1.9	20		µg/L	10	9/15/2016 5:13:15 PM	W37240
Chloroform	ND	0.89	10		µg/L	10	9/15/2016 5:13:15 PM	W37240
Chloromethane	ND	2.1	30		µg/L	10	9/15/2016 5:13:15 PM	W37240
2-Chlorotoluene	ND	4.0	10		µg/L	10	9/15/2016 5:13:15 PM	W37240
4-Chlorotoluene	ND	1.3	10		µg/L	10	9/15/2016 5:13:15 PM	W37240
cis-1,2-DCE	32	1.2	10		µg/L	10	9/15/2016 5:13:15 PM	W37240
cis-1,3-Dichloropropene	ND	1.1	10		µg/L	10	9/15/2016 5:13:15 PM	W37240
1,2-Dibromo-3-chloropropane	ND	2.3	20		µg/L	10	9/15/2016 5:13:15 PM	W37240
Dibromochloromethane	ND	0.87	10		µg/L	10	9/15/2016 5:13:15 PM	W37240
Dibromomethane	ND	1.2	10		µg/L	10	9/15/2016 5:13:15 PM	W37240
1,2-Dichlorobenzene	ND	4.0	10		µg/L	10	9/15/2016 5:13:15 PM	W37240

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 1609601

Date Reported: 10/25/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-09

Project: 2016 3RD QTR (MKTF)

Collection Date: 9/11/2016 4:20:00 PM

Lab ID: 1609601-007

Matrix: AQUEOUS

Received Date: 9/12/2016 3:20:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: DJF	
1,3-Dichlorobenzene	ND	1.4	10		µg/L	10	9/15/2016 5:13:15 PM	W37240
1,4-Dichlorobenzene	ND	1.4	10		µg/L	10	9/15/2016 5:13:15 PM	W37240
Dichlorodifluoromethane	ND	3.6	10		µg/L	10	9/15/2016 5:13:15 PM	W37240
1,1-Dichloroethane	22	1.1	10		µg/L	10	9/15/2016 5:13:15 PM	W37240
1,1-Dichloroethene	24	1.1	10		µg/L	10	9/15/2016 5:13:15 PM	W37240
1,2-Dichloropropane	ND	1.1	10		µg/L	10	9/15/2016 5:13:15 PM	W37240
1,3-Dichloropropane	ND	1.6	10		µg/L	10	9/15/2016 5:13:15 PM	W37240
2,2-Dichloropropane	ND	1.7	20		µg/L	10	9/15/2016 5:13:15 PM	W37240
1,1-Dichloropropene	ND	1.3	10		µg/L	10	9/15/2016 5:13:15 PM	W37240
Hexachlorobutadiene	ND	2.0	10		µg/L	10	9/15/2016 5:13:15 PM	W37240
2-Hexanone	ND	8.4	100		µg/L	10	9/15/2016 5:13:15 PM	W37240
Isopropylbenzene	16	1.0	10		µg/L	10	9/15/2016 5:13:15 PM	W37240
4-Isopropyltoluene	ND	1.4	10		µg/L	10	9/15/2016 5:13:15 PM	W37240
4-Methyl-2-pentanone	ND	4.3	100		µg/L	10	9/15/2016 5:13:15 PM	W37240
Methylene Chloride	ND	1.9	30		µg/L	10	9/15/2016 5:13:15 PM	W37240
n-Butylbenzene	5.0	1.6	30	J	µg/L	10	9/15/2016 5:13:15 PM	W37240
n-Propylbenzene	27	1.3	10		µg/L	10	9/15/2016 5:13:15 PM	W37240
sec-Butylbenzene	3.1	1.2	10	J	µg/L	10	9/15/2016 5:13:15 PM	W37240
Styrene	ND	1.1	10		µg/L	10	9/15/2016 5:13:15 PM	W37240
tert-Butylbenzene	ND	1.2	10		µg/L	10	9/15/2016 5:13:15 PM	W37240
1,1,1,2-Tetrachloroethane	ND	1.1	10		µg/L	10	9/15/2016 5:13:15 PM	W37240
1,1,2,2-Tetrachloroethane	ND	1.3	20		µg/L	10	9/15/2016 5:13:15 PM	W37240
Tetrachloroethene (PCE)	3.8	1.5	10	J	µg/L	10	9/15/2016 5:13:15 PM	W37240
trans-1,2-DCE	ND	4.0	10		µg/L	10	9/15/2016 5:13:15 PM	W37240
trans-1,3-Dichloropropene	ND	1.0	10		µg/L	10	9/15/2016 5:13:15 PM	W37240
1,2,3-Trichlorobenzene	ND	1.1	10		µg/L	10	9/15/2016 5:13:15 PM	W37240
1,2,4-Trichlorobenzene	ND	1.3	10		µg/L	10	9/15/2016 5:13:15 PM	W37240
1,1,1-Trichloroethane	37	0.91	10		µg/L	10	9/15/2016 5:13:15 PM	W37240
1,1,2-Trichloroethane	ND	1.3	10		µg/L	10	9/15/2016 5:13:15 PM	W37240
Trichloroethene (TCE)	4.5	1.8	10	J	µg/L	10	9/15/2016 5:13:15 PM	W37240
Trichlorofluoromethane	ND	2.0	10		µg/L	10	9/15/2016 5:13:15 PM	W37240
1,2,3-Trichloropropane	ND	2.0	20		µg/L	10	9/15/2016 5:13:15 PM	W37240
Vinyl chloride	ND	2.0	10		µg/L	10	9/15/2016 5:13:15 PM	W37240
Xylenes, Total	59	3.7	15		µg/L	10	9/15/2016 5:13:15 PM	W37240
Surr: 1,2-Dichloroethane-d4	97.9	0	70-130		%Rec	10	9/15/2016 5:13:15 PM	W37240
Surr: 4-Bromofluorobenzene	98.6	0	70-130		%Rec	10	9/15/2016 5:13:15 PM	W37240
Surr: Dibromofluoromethane	99.9	0	70-130		%Rec	10	9/15/2016 5:13:15 PM	W37240
Surr: Toluene-d8	95.0	0	70-130		%Rec	10	9/15/2016 5:13:15 PM	W37240

EPA METHOD 8015D: GASOLINE RANGE

Analyst: DJF

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 1609601

Date Reported: 10/25/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-09

Project: 2016 3RD QTR (MKTF)

Collection Date: 9/11/2016 4:20:00 PM

Lab ID: 1609601-007

Matrix: AQUEOUS

Received Date: 9/12/2016 3:20:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: GASOLINE RANGE							Analyst: DJF	
Gasoline Range Organics (GRO)	6.7	0.15	0.50		mg/L	10	9/15/2016 5:13:15 PM	G37240
Surr: BFB	102	0	70-130		%Rec	10	9/15/2016 5:13:15 PM	G37240

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 1609601

Date Reported: 10/25/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-15

Project: 2016 3RD QTR (MKTF)

Collection Date: 9/11/2016 4:45:00 PM

Lab ID: 1609601-008

Matrix: AQUEOUS

Received Date: 9/12/2016 3:20:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015M/D: DIESEL RANGE							Analyst: TOM	
Diesel Range Organics (DRO)	17	0.69	1.0		mg/L	1	9/14/2016 5:42:23 PM	27491
Motor Oil Range Organics (MRO)	ND	5.0	5.0		mg/L	1	9/14/2016 5:42:23 PM	27491
Surr: DNOP	136	0	77.1-144		%Rec	1	9/14/2016 5:42:23 PM	27491
EPA METHOD 300.0: ANIONS							Analyst: MRA	
Fluoride	ND	1.0	2.0		mg/L	20	9/18/2016 3:09:34 PM	R37299
Chloride	3100	25	250		mg/L	500	9/23/2016 5:53:38 PM	R37469
Bromide	0.84	0.22	0.50		mg/L	5	9/18/2016 2:57:09 PM	R37299
Phosphorus, Orthophosphate (As P')	ND	0.38	2.5	H	mg/L	5	9/18/2016 2:57:09 PM	R37299
Sulfate	ND	0.71	2.5		mg/L	5	9/18/2016 2:57:09 PM	R37299
Nitrate+Nitrite as N	ND	1.8	4.0		mg/L	20	9/23/2016 5:03:59 PM	R37469
EPA METHOD 200.7: DISSOLVED METALS							Analyst: ELS	
Barium	23	0.066	0.10	*	mg/L	50	9/29/2016 4:27:14 PM	F37552
Cadmium	ND	0.00075	0.0020		mg/L	1	9/29/2016 4:23:47 PM	F37552
Calcium	660	25	50		mg/L	50	9/29/2016 4:27:14 PM	F37552
Chromium	ND	0.0018	0.0060		mg/L	1	9/29/2016 4:23:47 PM	F37552
Copper	ND	0.0040	0.0060		mg/L	1	9/29/2016 4:23:47 PM	F37552
Iron	32	1.0	1.0	*	mg/L	50	9/29/2016 4:27:14 PM	F37552
Magnesium	190	2.5	5.0		mg/L	5	9/29/2016 4:25:36 PM	F37552
Manganese	7.6	0.016	0.10	*	mg/L	50	9/29/2016 4:27:14 PM	F37552
Potassium	3.0	0.50	1.0		mg/L	1	9/29/2016 4:23:47 PM	F37552
Silver	ND	0.0028	0.0050		mg/L	1	9/29/2016 4:23:47 PM	F37552
Sodium	1600	25	50		mg/L	50	9/29/2016 4:27:14 PM	F37552
Zinc	0.040	0.0028	0.010		mg/L	1	9/29/2016 4:23:47 PM	F37552
EPA METHOD 200.7: TOTAL METALS							Analyst: ELS	
Barium	23	0.040	0.10	*	mg/L	50	10/4/2016 4:29:38 PM	27665
Cadmium	ND	0.0015	0.0020		mg/L	1	10/3/2016 8:18:19 PM	27665
Chromium	ND	0.0027	0.0060		mg/L	1	10/3/2016 8:18:19 PM	27665
Copper	ND	0.0030	0.0060		mg/L	1	10/3/2016 8:18:19 PM	27665
Iron	35	1.0	1.0	*	mg/L	50	10/4/2016 4:29:38 PM	27665
Manganese	7.7	0.014	0.10	*	mg/L	50	10/4/2016 4:29:38 PM	27665
Silver	ND	0.0015	0.0050		mg/L	1	10/3/2016 8:18:19 PM	27665
Zinc	0.018	0.0027	0.010		mg/L	1	10/3/2016 8:18:19 PM	27665
EPA 200.8: DISSOLVED METALS							Analyst: JLF	
Arsenic	0.0027	0.00069	0.0050	J	mg/L	5	9/23/2016 3:02:28 PM	C37462
Lead	0.00048	0.00017	0.00050	J	mg/L	1	9/23/2016 12:40:13 PM	A37462
Selenium	0.0091	0.0042	0.020	J	mg/L	20	9/23/2016 3:11:43 PM	C37462
Uranium	0.00023	0.000051	0.00050	J	mg/L	1	9/23/2016 12:40:13 PM	A37462

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 1609601

Date Reported: 10/25/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-15

Project: 2016 3RD QTR (MKTF)

Collection Date: 9/11/2016 4:45:00 PM

Lab ID: 1609601-008

Matrix: AQUEOUS

Received Date: 9/12/2016 3:20:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
200.8 ICPMS METALS:TOTAL							Analyst: JLF	
Arsenic	0.0022	0.0011	0.0050	J	mg/L	5	9/26/2016 6:34:40 PM	27665
Lead	0.0059	0.00041	0.0025		mg/L	5	9/26/2016 6:34:40 PM	27665
Selenium	0.0054	0.0019	0.010	J	mg/L	10	9/26/2016 6:37:41 PM	27665
Uranium	ND	0.00087	0.0025		mg/L	5	9/26/2016 6:34:40 PM	27665
EPA METHOD 245.1: MERCURY							Analyst: pmf	
Mercury	ND	0.000053	0.00020		mg/L	1	9/23/2016 11:39:50 AM	27664
EPA METHOD 8270C: SEMIVOLATILES							Analyst: DAM	
Acenaphthene	ND	2.6	10		µg/L	1	9/19/2016 1:31:49 PM	27514
Acenaphthylene	ND	2.4	10		µg/L	1	9/19/2016 1:31:49 PM	27514
Aniline	ND	2.4	10		µg/L	1	9/19/2016 1:31:49 PM	27514
Anthracene	ND	2.5	10		µg/L	1	9/19/2016 1:31:49 PM	27514
Azobenzene	ND	2.7	10		µg/L	1	9/19/2016 1:31:49 PM	27514
Benz(a)anthracene	ND	2.6	10		µg/L	1	9/19/2016 1:31:49 PM	27514
Benzo(a)pyrene	ND	2.7	10		µg/L	1	9/19/2016 1:31:49 PM	27514
Benzo(b)fluoranthene	ND	2.9	10		µg/L	1	9/19/2016 1:31:49 PM	27514
Benzo(g,h,i)perylene	ND	2.6	10		µg/L	1	9/19/2016 1:31:49 PM	27514
Benzo(k)fluoranthene	ND	3.0	10		µg/L	1	9/19/2016 1:31:49 PM	27514
Benzoic acid	11	2.6	20	J	µg/L	1	9/19/2016 1:31:49 PM	27514
Benzyl alcohol	ND	3.0	10		µg/L	1	9/19/2016 1:31:49 PM	27514
Bis(2-chloroethoxy)methane	ND	2.8	10		µg/L	1	9/19/2016 1:31:49 PM	27514
Bis(2-chloroethyl)ether	ND	2.7	10		µg/L	1	9/19/2016 1:31:49 PM	27514
Bis(2-chloroisopropyl)ether	ND	1.9	10		µg/L	1	9/19/2016 1:31:49 PM	27514
Bis(2-ethylhexyl)phthalate	3.1	2.6	10	J	µg/L	1	9/19/2016 1:31:49 PM	27514
4-Bromophenyl phenyl ether	ND	2.6	10		µg/L	1	9/19/2016 1:31:49 PM	27514
Butyl benzyl phthalate	ND	2.5	10		µg/L	1	9/19/2016 1:31:49 PM	27514
Carbazole	4.0	2.3	10	J	µg/L	1	9/19/2016 1:31:49 PM	27514
4-Chloro-3-methylphenol	ND	2.6	10		µg/L	1	9/19/2016 1:31:49 PM	27514
4-Chloroaniline	ND	2.7	10		µg/L	1	9/19/2016 1:31:49 PM	27514
2-Chloronaphthalene	ND	2.3	10		µg/L	1	9/19/2016 1:31:49 PM	27514
2-Chlorophenol	ND	2.2	10		µg/L	1	9/19/2016 1:31:49 PM	27514
4-Chlorophenyl phenyl ether	ND	2.6	10		µg/L	1	9/19/2016 1:31:49 PM	27514
Chrysene	ND	2.8	10		µg/L	1	9/19/2016 1:31:49 PM	27514
Di-n-butyl phthalate	ND	2.4	10		µg/L	1	9/19/2016 1:31:49 PM	27514
Di-n-octyl phthalate	4.5	2.0	10	J	µg/L	1	9/19/2016 1:31:49 PM	27514
Dibenz(a,h)anthracene	ND	2.7	10		µg/L	1	9/19/2016 1:31:49 PM	27514
Dibenzofuran	ND	2.5	10		µg/L	1	9/19/2016 1:31:49 PM	27514
1,2-Dichlorobenzene	ND	2.3	10		µg/L	1	9/19/2016 1:31:49 PM	27514
1,3-Dichlorobenzene	ND	2.3	10		µg/L	1	9/19/2016 1:31:49 PM	27514

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 1609601

Date Reported: 10/25/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-15

Project: 2016 3RD QTR (MKTF)

Collection Date: 9/11/2016 4:45:00 PM

Lab ID: 1609601-008

Matrix: AQUEOUS

Received Date: 9/12/2016 3:20:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: DAM	
1,4-Dichlorobenzene	ND	2.4	10		µg/L	1	9/19/2016 1:31:49 PM	27514
3,3'-Dichlorobenzidine	ND	2.4	10		µg/L	1	9/19/2016 1:31:49 PM	27514
Diethyl phthalate	ND	2.7	10		µg/L	1	9/19/2016 1:31:49 PM	27514
Dimethyl phthalate	17	2.4	10		µg/L	1	9/19/2016 1:31:49 PM	27514
2,4-Dichlorophenol	ND	2.3	20		µg/L	1	9/19/2016 1:31:49 PM	27514
2,4-Dimethylphenol	230	3.0	10		µg/L	1	9/19/2016 1:31:49 PM	27514
4,6-Dinitro-2-methylphenol	ND	1.8	20		µg/L	1	9/19/2016 1:31:49 PM	27514
2,4-Dinitrophenol	ND	2.8	20		µg/L	1	9/19/2016 1:31:49 PM	27514
2,4-Dinitrotoluene	ND	3.1	10		µg/L	1	9/19/2016 1:31:49 PM	27514
2,6-Dinitrotoluene	ND	2.7	10		µg/L	1	9/19/2016 1:31:49 PM	27514
Fluoranthene	ND	2.6	10		µg/L	1	9/19/2016 1:31:49 PM	27514
Fluorene	ND	2.7	10		µg/L	1	9/19/2016 1:31:49 PM	27514
Hexachlorobenzene	ND	2.6	10		µg/L	1	9/19/2016 1:31:49 PM	27514
Hexachlorobutadiene	ND	2.2	10		µg/L	1	9/19/2016 1:31:49 PM	27514
Hexachlorocyclopentadiene	ND	2.3	10		µg/L	1	9/19/2016 1:31:49 PM	27514
Hexachloroethane	ND	2.4	10		µg/L	1	9/19/2016 1:31:49 PM	27514
Indeno(1,2,3-cd)pyrene	ND	3.0	10		µg/L	1	9/19/2016 1:31:49 PM	27514
Isophorone	ND	2.6	10		µg/L	1	9/19/2016 1:31:49 PM	27514
1-Methylnaphthalene	13	2.9	10		µg/L	1	9/19/2016 1:31:49 PM	27514
2-Methylnaphthalene	14	2.9	10		µg/L	1	9/19/2016 1:31:49 PM	27514
2-Methylphenol	1800	130	500		µg/L	50	9/27/2016 9:19:46 AM	27514
3+4-Methylphenol	2600	110	500		µg/L	50	9/27/2016 9:19:46 AM	27514
N-Nitrosodi-n-propylamine	ND	2.4	10		µg/L	1	9/19/2016 1:31:49 PM	27514
N-Nitrosodimethylamine	ND	2.2	10		µg/L	1	9/19/2016 1:31:49 PM	27514
N-Nitrosodiphenylamine	ND	2.3	10		µg/L	1	9/19/2016 1:31:49 PM	27514
Naphthalene	53	2.6	10		µg/L	1	9/19/2016 1:31:49 PM	27514
2-Nitroaniline	ND	2.8	10		µg/L	1	9/19/2016 1:31:49 PM	27514
3-Nitroaniline	ND	2.9	10		µg/L	1	9/19/2016 1:31:49 PM	27514
4-Nitroaniline	ND	2.6	10		µg/L	1	9/19/2016 1:31:49 PM	27514
Nitrobenzene	ND	2.8	10		µg/L	1	9/19/2016 1:31:49 PM	27514
2-Nitrophenol	ND	2.4	10		µg/L	1	9/19/2016 1:31:49 PM	27514
4-Nitrophenol	ND	2.6	10		µg/L	1	9/19/2016 1:31:49 PM	27514
Pentachlorophenol	ND	2.3	20		µg/L	1	9/19/2016 1:31:49 PM	27514
Phenanthrene	ND	2.6	10		µg/L	1	9/19/2016 1:31:49 PM	27514
Phenol	5800	99	500		µg/L	50	9/27/2016 9:19:46 AM	27514
Pyrene	ND	3.1	10		µg/L	1	9/19/2016 1:31:49 PM	27514
Pyridine	ND	2.2	10		µg/L	1	9/19/2016 1:31:49 PM	27514
1,2,4-Trichlorobenzene	ND	2.6	10		µg/L	1	9/19/2016 1:31:49 PM	27514
2,4,5-Trichlorophenol	ND	2.2	10		µg/L	1	9/19/2016 1:31:49 PM	27514

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 1609601

Date Reported: 10/25/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-15

Project: 2016 3RD QTR (MKTF)

Collection Date: 9/11/2016 4:45:00 PM

Lab ID: 1609601-008

Matrix: AQUEOUS

Received Date: 9/12/2016 3:20:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: DAM	
2,4,6-Trichlorophenol	ND	2.4	10		µg/L	1	9/19/2016 1:31:49 PM	27514
Surr: 2-Fluorophenol	15.9	0	15-123		%Rec	1	9/19/2016 1:31:49 PM	27514
Surr: Phenol-d5	52.6	0	15-124		%Rec	1	9/19/2016 1:31:49 PM	27514
Surr: 2,4,6-Tribromophenol	101	0	18.4-134		%Rec	1	9/19/2016 1:31:49 PM	27514
Surr: Nitrobenzene-d5	88.4	0	28.8-134		%Rec	1	9/19/2016 1:31:49 PM	27514
Surr: 2-Fluorobiphenyl	86.4	0	35.9-125		%Rec	1	9/19/2016 1:31:49 PM	27514
Surr: 4-Terphenyl-d14	55.0	0	15-146		%Rec	1	9/19/2016 1:31:49 PM	27514
EPA METHOD 8260B: VOLATILES							Analyst: DJF	
Benzene	24000	48	500		µg/L	500	9/16/2016 12:53:05 AM	W37240
Toluene	16000	59	500		µg/L	500	9/16/2016 12:53:05 AM	W37240
Ethylbenzene	2000	5.6	50		µg/L	50	9/15/2016 1:23:18 PM	W37240
Methyl tert-butyl ether (MTBE)	93	11	50		µg/L	50	9/15/2016 1:23:18 PM	W37240
1,2,4-Trimethylbenzene	570	5.5	50		µg/L	50	9/15/2016 1:23:18 PM	W37240
1,3,5-Trimethylbenzene	170	5.8	50		µg/L	50	9/15/2016 1:23:18 PM	W37240
1,2-Dichloroethane (EDC)	ND	5.8	50		µg/L	50	9/15/2016 1:23:18 PM	W37240
1,2-Dibromoethane (EDB)	ND	5.6	50		µg/L	50	9/15/2016 1:23:18 PM	W37240
Naphthalene	86	4.6	100	J	µg/L	50	9/15/2016 1:23:18 PM	W37240
1-Methylnaphthalene	15	10	200	J	µg/L	50	9/15/2016 1:23:18 PM	W37240
2-Methylnaphthalene	14	7.9	200	J	µg/L	50	9/15/2016 1:23:18 PM	W37240
Acetone	1200	250	500		µg/L	50	9/15/2016 1:23:18 PM	W37240
Bromobenzene	ND	4.9	50		µg/L	50	9/15/2016 1:23:18 PM	W37240
Bromodichloromethane	ND	7.0	50		µg/L	50	9/15/2016 1:23:18 PM	W37240
Bromoform	ND	5.1	50		µg/L	50	9/15/2016 1:23:18 PM	W37240
Bromomethane	ND	39	150		µg/L	50	9/15/2016 1:23:18 PM	W37240
2-Butanone	1300	37	500		µg/L	50	9/15/2016 1:23:18 PM	W37240
Carbon disulfide	ND	30	500		µg/L	50	9/15/2016 1:23:18 PM	W37240
Carbon Tetrachloride	ND	5.4	50		µg/L	50	9/15/2016 1:23:18 PM	W37240
Chlorobenzene	ND	5.7	50		µg/L	50	9/15/2016 1:23:18 PM	W37240
Chloroethane	ND	9.6	100		µg/L	50	9/15/2016 1:23:18 PM	W37240
Chloroform	ND	4.4	50		µg/L	50	9/15/2016 1:23:18 PM	W37240
Chloromethane	ND	11	150		µg/L	50	9/15/2016 1:23:18 PM	W37240
2-Chlorotoluene	ND	20	50		µg/L	50	9/15/2016 1:23:18 PM	W37240
4-Chlorotoluene	ND	6.4	50		µg/L	50	9/15/2016 1:23:18 PM	W37240
cis-1,2-DCE	ND	6.2	50		µg/L	50	9/15/2016 1:23:18 PM	W37240
cis-1,3-Dichloropropene	ND	5.3	50		µg/L	50	9/15/2016 1:23:18 PM	W37240
1,2-Dibromo-3-chloropropane	ND	12	100		µg/L	50	9/15/2016 1:23:18 PM	W37240
Dibromochloromethane	ND	4.3	50		µg/L	50	9/15/2016 1:23:18 PM	W37240
Dibromomethane	ND	6.0	50		µg/L	50	9/15/2016 1:23:18 PM	W37240
1,2-Dichlorobenzene	ND	20	50		µg/L	50	9/15/2016 1:23:18 PM	W37240

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 1609601

Date Reported: 10/25/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-15

Project: 2016 3RD QTR (MKTF)

Collection Date: 9/11/2016 4:45:00 PM

Lab ID: 1609601-008

Matrix: AQUEOUS

Received Date: 9/12/2016 3:20:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: DJF	
1,3-Dichlorobenzene	ND	7.2	50		µg/L	50	9/15/2016 1:23:18 PM	W37240
1,4-Dichlorobenzene	ND	7.1	50		µg/L	50	9/15/2016 1:23:18 PM	W37240
Dichlorodifluoromethane	ND	18	50		µg/L	50	9/15/2016 1:23:18 PM	W37240
1,1-Dichloroethane	ND	5.4	50		µg/L	50	9/15/2016 1:23:18 PM	W37240
1,1-Dichloroethene	ND	5.4	50		µg/L	50	9/15/2016 1:23:18 PM	W37240
1,2-Dichloropropane	ND	5.5	50		µg/L	50	9/15/2016 1:23:18 PM	W37240
1,3-Dichloropropane	ND	7.8	50		µg/L	50	9/15/2016 1:23:18 PM	W37240
2,2-Dichloropropane	ND	8.3	100		µg/L	50	9/15/2016 1:23:18 PM	W37240
1,1-Dichloropropene	ND	6.7	50		µg/L	50	9/15/2016 1:23:18 PM	W37240
Hexachlorobutadiene	ND	9.9	50		µg/L	50	9/15/2016 1:23:18 PM	W37240
2-Hexanone	ND	42	500		µg/L	50	9/15/2016 1:23:18 PM	W37240
Isopropylbenzene	120	5.2	50		µg/L	50	9/15/2016 1:23:18 PM	W37240
4-Isopropyltoluene	ND	7.0	50		µg/L	50	9/15/2016 1:23:18 PM	W37240
4-Methyl-2-pentanone	83	21	500	J	µg/L	50	9/15/2016 1:23:18 PM	W37240
Methylene Chloride	ND	9.4	150		µg/L	50	9/15/2016 1:23:18 PM	W37240
n-Butylbenzene	ND	8.0	150		µg/L	50	9/15/2016 1:23:18 PM	W37240
n-Propylbenzene	140	6.6	50		µg/L	50	9/15/2016 1:23:18 PM	W37240
sec-Butylbenzene	7.8	6.2	50	J	µg/L	50	9/15/2016 1:23:18 PM	W37240
Styrene	ND	5.5	50		µg/L	50	9/15/2016 1:23:18 PM	W37240
tert-Butylbenzene	ND	5.8	50		µg/L	50	9/15/2016 1:23:18 PM	W37240
1,1,1,2-Tetrachloroethane	ND	5.6	50		µg/L	50	9/15/2016 1:23:18 PM	W37240
1,1,2,2-Tetrachloroethane	ND	6.4	100		µg/L	50	9/15/2016 1:23:18 PM	W37240
Tetrachloroethene (PCE)	ND	7.6	50		µg/L	50	9/15/2016 1:23:18 PM	W37240
trans-1,2-DCE	ND	20	50		µg/L	50	9/15/2016 1:23:18 PM	W37240
trans-1,3-Dichloropropene	ND	5.2	50		µg/L	50	9/15/2016 1:23:18 PM	W37240
1,2,3-Trichlorobenzene	ND	5.6	50		µg/L	50	9/15/2016 1:23:18 PM	W37240
1,2,4-Trichlorobenzene	ND	6.6	50		µg/L	50	9/15/2016 1:23:18 PM	W37240
1,1,1-Trichloroethane	ND	4.6	50		µg/L	50	9/15/2016 1:23:18 PM	W37240
1,1,2-Trichloroethane	ND	6.4	50		µg/L	50	9/15/2016 1:23:18 PM	W37240
Trichloroethene (TCE)	ND	8.8	50		µg/L	50	9/15/2016 1:23:18 PM	W37240
Trichlorofluoromethane	ND	10	50		µg/L	50	9/15/2016 1:23:18 PM	W37240
1,2,3-Trichloropropane	ND	10	100		µg/L	50	9/15/2016 1:23:18 PM	W37240
Vinyl chloride	ND	9.8	50		µg/L	50	9/15/2016 1:23:18 PM	W37240
Xylenes, Total	7300	18	75		µg/L	50	9/15/2016 1:23:18 PM	W37240
Surr: 1,2-Dichloroethane-d4	94.3	0	70-130		%Rec	50	9/15/2016 1:23:18 PM	W37240
Surr: 4-Bromofluorobenzene	99.4	0	70-130		%Rec	50	9/15/2016 1:23:18 PM	W37240
Surr: Dibromofluoromethane	102	0	70-130		%Rec	50	9/15/2016 1:23:18 PM	W37240
Surr: Toluene-d8	94.1	0	70-130		%Rec	50	9/15/2016 1:23:18 PM	W37240

EPA METHOD 8015D: GASOLINE RANGE

Analyst: DJF

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 1609601

Date Reported: 10/25/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-15

Project: 2016 3RD QTR (MKTF)

Collection Date: 9/11/2016 4:45:00 PM

Lab ID: 1609601-008

Matrix: AQUEOUS

Received Date: 9/12/2016 3:20:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: GASOLINE RANGE							Analyst: DJF	
Gasoline Range Organics (GRO)	110	0.75	2.5		mg/L	50	9/15/2016 1:23:18 PM	G37240
Surr: BFB	101	0	70-130		%Rec	50	9/15/2016 1:23:18 PM	G37240

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 1609601

Date Reported: 10/25/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-33

Project: 2016 3RD QTR (MKTF)

Collection Date: 9/10/2016 3:20:00 PM

Lab ID: 1609601-009

Matrix: AQUEOUS

Received Date: 9/12/2016 3:20:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015M/D: DIESEL RANGE							Analyst: TOM	
Diesel Range Organics (DRO)	ND	0.69	1.0		mg/L	1	9/14/2016 6:04:00 PM	27491
Motor Oil Range Organics (MRO)	ND	5.0	5.0		mg/L	1	9/14/2016 6:04:00 PM	27491
Surr: DNOP	138	0	77.1-144		%Rec	1	9/14/2016 6:04:00 PM	27491
EPA METHOD 300.0: ANIONS							Analyst: MRA	
Fluoride	0.13	0.050	0.10		mg/L	1	9/18/2016 3:21:58 PM	R37299
Chloride	94	1.0	10		mg/L	20	9/18/2016 3:34:23 PM	R37299
Bromide	0.49	0.044	0.10		mg/L	1	9/18/2016 3:21:58 PM	R37299
Phosphorus, Orthophosphate (As P')	ND	0.076	0.50	H	mg/L	1	9/18/2016 3:21:58 PM	R37299
Sulfate	340	2.8	10		mg/L	20	9/18/2016 3:34:23 PM	R37299
Nitrate+Nitrite as N	ND	0.46	1.0		mg/L	5	9/18/2016 8:07:24 PM	R37299
EPA METHOD 200.7: DISSOLVED METALS							Analyst: ELS	
Barium	0.043	0.0013	0.0020		mg/L	1	9/29/2016 4:29:11 PM	F37552
Cadmium	ND	0.00075	0.0020		mg/L	1	9/29/2016 4:29:11 PM	F37552
Calcium	90	0.50	1.0		mg/L	1	9/29/2016 4:29:11 PM	F37552
Chromium	ND	0.0018	0.0060		mg/L	1	9/29/2016 4:29:11 PM	F37552
Copper	ND	0.0040	0.0060		mg/L	1	9/29/2016 4:29:11 PM	F37552
Iron	0.020	0.020	0.020		mg/L	1	9/29/2016 4:29:11 PM	F37552
Magnesium	20	0.50	1.0		mg/L	1	9/29/2016 4:29:11 PM	F37552
Manganese	0.13	0.00032	0.0020	*	mg/L	1	9/29/2016 4:29:11 PM	F37552
Potassium	0.74	0.50	1.0	J	mg/L	1	9/29/2016 4:29:11 PM	F37552
Silver	ND	0.0028	0.0050		mg/L	1	9/29/2016 4:29:11 PM	F37552
Sodium	300	2.5	5.0		mg/L	5	9/29/2016 4:31:14 PM	F37552
Zinc	ND	0.0028	0.010		mg/L	1	9/29/2016 4:29:11 PM	F37552
EPA METHOD 200.7: TOTAL METALS							Analyst: ELS	
Barium	0.091	0.00079	0.0020		mg/L	1	10/3/2016 8:21:54 PM	27665
Cadmium	ND	0.0015	0.0020		mg/L	1	10/3/2016 8:21:54 PM	27665
Chromium	ND	0.0027	0.0060		mg/L	1	10/3/2016 8:21:54 PM	27665
Copper	ND	0.0030	0.0060		mg/L	1	10/12/2016 9:08:20 PM	27933
Iron	1.6	0.10	0.10	*	mg/L	5	10/3/2016 8:23:36 PM	27665
Manganese	0.31	0.00027	0.0020	*	mg/L	1	10/3/2016 8:21:54 PM	27665
Silver	ND	0.0015	0.0050		mg/L	1	10/3/2016 8:21:54 PM	27665
Zinc	0.0075	0.0027	0.010	J	mg/L	1	10/3/2016 8:21:54 PM	27665
EPA 200.8: DISSOLVED METALS							Analyst: JLF	
Arsenic	0.0011	0.00069	0.0050	J	mg/L	5	9/23/2016 3:14:46 PM	C37462
Lead	0.00023	0.00017	0.00050	J	mg/L	1	9/23/2016 12:43:16 PM	A37462
Selenium	0.0035	0.00021	0.0010		mg/L	1	9/23/2016 12:43:16 PM	A37462
Uranium	0.037	0.00026	0.0025	*	mg/L	5	9/23/2016 3:14:46 PM	C37462

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 1609601

Date Reported: 10/25/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-33

Project: 2016 3RD QTR (MKTF)

Collection Date: 9/10/2016 3:20:00 PM

Lab ID: 1609601-009

Matrix: AQUEOUS

Received Date: 9/12/2016 3:20:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
200.8 ICPMS METALS:TOTAL							Analyst: JLF	
Arsenic	ND	0.0011	0.0050		mg/L	5	9/26/2016 6:40:41 PM	27665
Lead	0.0027	0.000081	0.00050		mg/L	1	9/26/2016 2:30:38 PM	27665
Selenium	0.0031	0.00094	0.0050	J	mg/L	5	9/26/2016 6:40:41 PM	27665
Uranium	0.036	0.00087	0.0025	*	mg/L	5	9/26/2016 6:40:41 PM	27665
EPA METHOD 245.1: MERCURY							Analyst: pmf	
Mercury	ND	0.000053	0.00020		mg/L	1	9/23/2016 11:46:07 AM	27664
EPA METHOD 8270C: SEMIVOLATILES							Analyst: DAM	
Acenaphthene	ND	2.6	10		µg/L	1	9/17/2016 4:30:02 PM	27489
Acenaphthylene	ND	2.4	10		µg/L	1	9/17/2016 4:30:02 PM	27489
Aniline	ND	2.4	10		µg/L	1	9/17/2016 4:30:02 PM	27489
Anthracene	ND	2.5	10		µg/L	1	9/17/2016 4:30:02 PM	27489
Azobenzene	ND	2.7	10		µg/L	1	9/17/2016 4:30:02 PM	27489
Benz(a)anthracene	ND	2.6	10		µg/L	1	9/17/2016 4:30:02 PM	27489
Benzo(a)pyrene	ND	2.7	10		µg/L	1	9/17/2016 4:30:02 PM	27489
Benzo(b)fluoranthene	ND	2.9	10		µg/L	1	9/17/2016 4:30:02 PM	27489
Benzo(g,h,i)perylene	ND	2.6	10		µg/L	1	9/17/2016 4:30:02 PM	27489
Benzo(k)fluoranthene	ND	3.0	10		µg/L	1	9/17/2016 4:30:02 PM	27489
Benzoic acid	7.1	2.6	20	J	µg/L	1	9/17/2016 4:30:02 PM	27489
Benzyl alcohol	ND	3.0	10		µg/L	1	9/17/2016 4:30:02 PM	27489
Bis(2-chloroethoxy)methane	ND	2.8	10		µg/L	1	9/17/2016 4:30:02 PM	27489
Bis(2-chloroethyl)ether	ND	2.7	10		µg/L	1	9/17/2016 4:30:02 PM	27489
Bis(2-chloroisopropyl)ether	ND	1.9	10		µg/L	1	9/17/2016 4:30:02 PM	27489
Bis(2-ethylhexyl)phthalate	3.6	2.6	10	J	µg/L	1	9/17/2016 4:30:02 PM	27489
4-Bromophenyl phenyl ether	ND	2.6	10		µg/L	1	9/17/2016 4:30:02 PM	27489
Butyl benzyl phthalate	ND	2.5	10		µg/L	1	9/17/2016 4:30:02 PM	27489
Carbazole	ND	2.3	10		µg/L	1	9/17/2016 4:30:02 PM	27489
4-Chloro-3-methylphenol	ND	2.6	10		µg/L	1	9/17/2016 4:30:02 PM	27489
4-Chloroaniline	ND	2.7	10		µg/L	1	9/17/2016 4:30:02 PM	27489
2-Chloronaphthalene	ND	2.3	10		µg/L	1	9/17/2016 4:30:02 PM	27489
2-Chlorophenol	ND	2.2	10		µg/L	1	9/17/2016 4:30:02 PM	27489
4-Chlorophenyl phenyl ether	ND	2.6	10		µg/L	1	9/17/2016 4:30:02 PM	27489
Chrysene	ND	2.8	10		µg/L	1	9/17/2016 4:30:02 PM	27489
Di-n-butyl phthalate	ND	2.4	10		µg/L	1	9/17/2016 4:30:02 PM	27489
Di-n-octyl phthalate	3.5	2.0	10	J	µg/L	1	9/17/2016 4:30:02 PM	27489
Dibenz(a,h)anthracene	ND	2.7	10		µg/L	1	9/17/2016 4:30:02 PM	27489
Dibenzofuran	ND	2.5	10		µg/L	1	9/17/2016 4:30:02 PM	27489
1,2-Dichlorobenzene	ND	2.3	10		µg/L	1	9/17/2016 4:30:02 PM	27489
1,3-Dichlorobenzene	ND	2.3	10		µg/L	1	9/17/2016 4:30:02 PM	27489

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 1609601

Date Reported: 10/25/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-33

Project: 2016 3RD QTR (MKTF)

Collection Date: 9/10/2016 3:20:00 PM

Lab ID: 1609601-009

Matrix: AQUEOUS

Received Date: 9/12/2016 3:20:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: DAM	
1,4-Dichlorobenzene	ND	2.4	10		µg/L	1	9/17/2016 4:30:02 PM	27489
3,3'-Dichlorobenzidine	ND	2.4	10		µg/L	1	9/17/2016 4:30:02 PM	27489
Diethyl phthalate	ND	2.7	10		µg/L	1	9/17/2016 4:30:02 PM	27489
Dimethyl phthalate	2.9	2.4	10	J	µg/L	1	9/17/2016 4:30:02 PM	27489
2,4-Dichlorophenol	ND	2.3	20		µg/L	1	9/17/2016 4:30:02 PM	27489
2,4-Dimethylphenol	ND	3.0	10		µg/L	1	9/17/2016 4:30:02 PM	27489
4,6-Dinitro-2-methylphenol	ND	1.8	20		µg/L	1	9/17/2016 4:30:02 PM	27489
2,4-Dinitrophenol	ND	2.8	20		µg/L	1	9/17/2016 4:30:02 PM	27489
2,4-Dinitrotoluene	ND	3.1	10		µg/L	1	9/17/2016 4:30:02 PM	27489
2,6-Dinitrotoluene	ND	2.7	10		µg/L	1	9/17/2016 4:30:02 PM	27489
Fluoranthene	ND	2.6	10		µg/L	1	9/17/2016 4:30:02 PM	27489
Fluorene	ND	2.7	10		µg/L	1	9/17/2016 4:30:02 PM	27489
Hexachlorobenzene	ND	2.6	10		µg/L	1	9/17/2016 4:30:02 PM	27489
Hexachlorobutadiene	ND	2.2	10		µg/L	1	9/17/2016 4:30:02 PM	27489
Hexachlorocyclopentadiene	ND	2.3	10		µg/L	1	9/17/2016 4:30:02 PM	27489
Hexachloroethane	ND	2.4	10		µg/L	1	9/17/2016 4:30:02 PM	27489
Indeno(1,2,3-cd)pyrene	ND	3.0	10		µg/L	1	9/17/2016 4:30:02 PM	27489
Isophorone	ND	2.6	10		µg/L	1	9/17/2016 4:30:02 PM	27489
1-Methylnaphthalene	ND	2.9	10		µg/L	1	9/17/2016 4:30:02 PM	27489
2-Methylnaphthalene	ND	2.9	10		µg/L	1	9/17/2016 4:30:02 PM	27489
2-Methylphenol	ND	2.5	10		µg/L	1	9/17/2016 4:30:02 PM	27489
3+4-Methylphenol	ND	2.3	10		µg/L	1	9/17/2016 4:30:02 PM	27489
N-Nitrosodi-n-propylamine	ND	2.4	10		µg/L	1	9/17/2016 4:30:02 PM	27489
N-Nitrosodimethylamine	ND	2.2	10		µg/L	1	9/17/2016 4:30:02 PM	27489
N-Nitrosodiphenylamine	ND	2.3	10		µg/L	1	9/17/2016 4:30:02 PM	27489
Naphthalene	ND	2.6	10		µg/L	1	9/17/2016 4:30:02 PM	27489
2-Nitroaniline	ND	2.8	10		µg/L	1	9/17/2016 4:30:02 PM	27489
3-Nitroaniline	ND	2.9	10		µg/L	1	9/17/2016 4:30:02 PM	27489
4-Nitroaniline	ND	2.6	10		µg/L	1	9/17/2016 4:30:02 PM	27489
Nitrobenzene	ND	2.8	10		µg/L	1	9/17/2016 4:30:02 PM	27489
2-Nitrophenol	ND	2.4	10		µg/L	1	9/17/2016 4:30:02 PM	27489
4-Nitrophenol	ND	2.6	10		µg/L	1	9/17/2016 4:30:02 PM	27489
Pentachlorophenol	ND	2.3	20		µg/L	1	9/17/2016 4:30:02 PM	27489
Phenanthrene	ND	2.6	10		µg/L	1	9/17/2016 4:30:02 PM	27489
Phenol	ND	2.0	10		µg/L	1	9/17/2016 4:30:02 PM	27489
Pyrene	ND	3.1	10		µg/L	1	9/17/2016 4:30:02 PM	27489
Pyridine	ND	2.2	10		µg/L	1	9/17/2016 4:30:02 PM	27489
1,2,4-Trichlorobenzene	ND	2.6	10		µg/L	1	9/17/2016 4:30:02 PM	27489
2,4,5-Trichlorophenol	ND	2.2	10		µg/L	1	9/17/2016 4:30:02 PM	27489

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 1609601

Date Reported: 10/25/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-33

Project: 2016 3RD QTR (MKTF)

Collection Date: 9/10/2016 3:20:00 PM

Lab ID: 1609601-009

Matrix: AQUEOUS

Received Date: 9/12/2016 3:20:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: DAM	
2,4,6-Trichlorophenol	ND	2.4	10		µg/L	1	9/17/2016 4:30:02 PM	27489
Surr: 2-Fluorophenol	20.5	0	15-123		%Rec	1	9/17/2016 4:30:02 PM	27489
Surr: Phenol-d5	18.8	0	15-124		%Rec	1	9/17/2016 4:30:02 PM	27489
Surr: 2,4,6-Tribromophenol	41.1	0	18.4-134		%Rec	1	9/17/2016 4:30:02 PM	27489
Surr: Nitrobenzene-d5	55.8	0	28.8-134		%Rec	1	9/17/2016 4:30:02 PM	27489
Surr: 2-Fluorobiphenyl	50.4	0	35.9-125		%Rec	1	9/17/2016 4:30:02 PM	27489
Surr: 4-Terphenyl-d14	17.6	0	15-146		%Rec	1	9/17/2016 4:30:02 PM	27489
EPA METHOD 8260B: VOLATILES							Analyst: DJF	
Benzene	ND	0.096	1.0		µg/L	1	9/15/2016 12:54:29 PM	W37240
Toluene	ND	0.12	1.0		µg/L	1	9/15/2016 12:54:29 PM	W37240
Ethylbenzene	ND	0.11	1.0		µg/L	1	9/15/2016 12:54:29 PM	W37240
Methyl tert-butyl ether (MTBE)	270	2.1	10		µg/L	10	9/16/2016 1:21:42 AM	W37240
1,2,4-Trimethylbenzene	ND	0.11	1.0		µg/L	1	9/15/2016 12:54:29 PM	W37240
1,3,5-Trimethylbenzene	ND	0.12	1.0		µg/L	1	9/15/2016 12:54:29 PM	W37240
1,2-Dichloroethane (EDC)	ND	0.12	1.0		µg/L	1	9/15/2016 12:54:29 PM	W37240
1,2-Dibromoethane (EDB)	ND	0.11	1.0		µg/L	1	9/15/2016 12:54:29 PM	W37240
Naphthalene	ND	0.093	2.0		µg/L	1	9/15/2016 12:54:29 PM	W37240
1-Methylnaphthalene	ND	0.20	4.0		µg/L	1	9/15/2016 12:54:29 PM	W37240
2-Methylnaphthalene	ND	0.16	4.0		µg/L	1	9/15/2016 12:54:29 PM	W37240
Acetone	ND	4.9	10		µg/L	1	9/15/2016 12:54:29 PM	W37240
Bromobenzene	ND	0.098	1.0		µg/L	1	9/15/2016 12:54:29 PM	W37240
Bromodichloromethane	ND	0.14	1.0		µg/L	1	9/15/2016 12:54:29 PM	W37240
Bromoform	ND	0.10	1.0		µg/L	1	9/15/2016 12:54:29 PM	W37240
Bromomethane	ND	0.78	3.0		µg/L	1	9/15/2016 12:54:29 PM	W37240
2-Butanone	ND	0.74	10		µg/L	1	9/15/2016 12:54:29 PM	W37240
Carbon disulfide	ND	0.60	10		µg/L	1	9/15/2016 12:54:29 PM	W37240
Carbon Tetrachloride	ND	0.11	1.0		µg/L	1	9/15/2016 12:54:29 PM	W37240
Chlorobenzene	ND	0.11	1.0		µg/L	1	9/15/2016 12:54:29 PM	W37240
Chloroethane	ND	0.19	2.0		µg/L	1	9/15/2016 12:54:29 PM	W37240
Chloroform	ND	0.089	1.0		µg/L	1	9/15/2016 12:54:29 PM	W37240
Chloromethane	ND	0.21	3.0		µg/L	1	9/15/2016 12:54:29 PM	W37240
2-Chlorotoluene	ND	0.40	1.0		µg/L	1	9/15/2016 12:54:29 PM	W37240
4-Chlorotoluene	ND	0.13	1.0		µg/L	1	9/15/2016 12:54:29 PM	W37240
cis-1,2-DCE	ND	0.12	1.0		µg/L	1	9/15/2016 12:54:29 PM	W37240
cis-1,3-Dichloropropene	ND	0.11	1.0		µg/L	1	9/15/2016 12:54:29 PM	W37240
1,2-Dibromo-3-chloropropane	ND	0.23	2.0		µg/L	1	9/15/2016 12:54:29 PM	W37240
Dibromochloromethane	ND	0.087	1.0		µg/L	1	9/15/2016 12:54:29 PM	W37240
Dibromomethane	ND	0.12	1.0		µg/L	1	9/15/2016 12:54:29 PM	W37240
1,2-Dichlorobenzene	ND	0.40	1.0		µg/L	1	9/15/2016 12:54:29 PM	W37240

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 1609601

Date Reported: 10/25/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-33

Project: 2016 3RD QTR (MKTF)

Collection Date: 9/10/2016 3:20:00 PM

Lab ID: 1609601-009

Matrix: AQUEOUS

Received Date: 9/12/2016 3:20:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: DJF	
1,3-Dichlorobenzene	ND	0.14	1.0		µg/L	1	9/15/2016 12:54:29 PM	W37240
1,4-Dichlorobenzene	ND	0.14	1.0		µg/L	1	9/15/2016 12:54:29 PM	W37240
Dichlorodifluoromethane	ND	0.36	1.0		µg/L	1	9/15/2016 12:54:29 PM	W37240
1,1-Dichloroethane	ND	0.11	1.0		µg/L	1	9/15/2016 12:54:29 PM	W37240
1,1-Dichloroethene	ND	0.11	1.0		µg/L	1	9/15/2016 12:54:29 PM	W37240
1,2-Dichloropropane	ND	0.11	1.0		µg/L	1	9/15/2016 12:54:29 PM	W37240
1,3-Dichloropropane	ND	0.16	1.0		µg/L	1	9/15/2016 12:54:29 PM	W37240
2,2-Dichloropropane	ND	0.17	2.0		µg/L	1	9/15/2016 12:54:29 PM	W37240
1,1-Dichloropropene	ND	0.13	1.0		µg/L	1	9/15/2016 12:54:29 PM	W37240
Hexachlorobutadiene	ND	0.20	1.0		µg/L	1	9/15/2016 12:54:29 PM	W37240
2-Hexanone	ND	0.84	10		µg/L	1	9/15/2016 12:54:29 PM	W37240
Isopropylbenzene	ND	0.10	1.0		µg/L	1	9/15/2016 12:54:29 PM	W37240
4-Isopropyltoluene	ND	0.14	1.0		µg/L	1	9/15/2016 12:54:29 PM	W37240
4-Methyl-2-pentanone	ND	0.43	10		µg/L	1	9/15/2016 12:54:29 PM	W37240
Methylene Chloride	ND	0.19	3.0		µg/L	1	9/15/2016 12:54:29 PM	W37240
n-Butylbenzene	ND	0.16	3.0		µg/L	1	9/15/2016 12:54:29 PM	W37240
n-Propylbenzene	ND	0.13	1.0		µg/L	1	9/15/2016 12:54:29 PM	W37240
sec-Butylbenzene	0.81	0.12	1.0	J	µg/L	1	9/15/2016 12:54:29 PM	W37240
Styrene	ND	0.11	1.0		µg/L	1	9/15/2016 12:54:29 PM	W37240
tert-Butylbenzene	ND	0.12	1.0		µg/L	1	9/15/2016 12:54:29 PM	W37240
1,1,1,2-Tetrachloroethane	ND	0.11	1.0		µg/L	1	9/15/2016 12:54:29 PM	W37240
1,1,2,2-Tetrachloroethane	ND	0.13	2.0		µg/L	1	9/15/2016 12:54:29 PM	W37240
Tetrachloroethene (PCE)	ND	0.15	1.0		µg/L	1	9/15/2016 12:54:29 PM	W37240
trans-1,2-DCE	ND	0.40	1.0		µg/L	1	9/15/2016 12:54:29 PM	W37240
trans-1,3-Dichloropropene	ND	0.10	1.0		µg/L	1	9/15/2016 12:54:29 PM	W37240
1,2,3-Trichlorobenzene	ND	0.11	1.0		µg/L	1	9/15/2016 12:54:29 PM	W37240
1,2,4-Trichlorobenzene	ND	0.13	1.0		µg/L	1	9/15/2016 12:54:29 PM	W37240
1,1,1-Trichloroethane	ND	0.091	1.0		µg/L	1	9/15/2016 12:54:29 PM	W37240
1,1,2-Trichloroethane	ND	0.13	1.0		µg/L	1	9/15/2016 12:54:29 PM	W37240
Trichloroethene (TCE)	ND	0.18	1.0		µg/L	1	9/15/2016 12:54:29 PM	W37240
Trichlorofluoromethane	ND	0.20	1.0		µg/L	1	9/15/2016 12:54:29 PM	W37240
1,2,3-Trichloropropane	ND	0.20	2.0		µg/L	1	9/15/2016 12:54:29 PM	W37240
Vinyl chloride	ND	0.20	1.0		µg/L	1	9/15/2016 12:54:29 PM	W37240
Xylenes, Total	ND	0.37	1.5		µg/L	1	9/15/2016 12:54:29 PM	W37240
Surr: 1,2-Dichloroethane-d4	97.7	0	70-130		%Rec	1	9/15/2016 12:54:29 PM	W37240
Surr: 4-Bromofluorobenzene	95.3	0	70-130		%Rec	1	9/15/2016 12:54:29 PM	W37240
Surr: Dibromofluoromethane	104	0	70-130		%Rec	1	9/15/2016 12:54:29 PM	W37240
Surr: Toluene-d8	92.8	0	70-130		%Rec	1	9/15/2016 12:54:29 PM	W37240

EPA METHOD 8015D: GASOLINE RANGE

Analyst: DJF

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 1609601

Date Reported: 10/25/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-33

Project: 2016 3RD QTR (MKTF)

Collection Date: 9/10/2016 3:20:00 PM

Lab ID: 1609601-009

Matrix: AQUEOUS

Received Date: 9/12/2016 3:20:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: GASOLINE RANGE							Analyst: DJF	
Gasoline Range Organics (GRO)	5.2	0.30	1.0		mg/L	20	9/15/2016 12:54:29 PM	G37240
Surr: BFB	95.2	0	70-130		%Rec	20	9/15/2016 12:54:29 PM	G37240

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 1609601

Date Reported: 10/25/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-22

Project: 2016 3RD QTR (MKTF)

Collection Date: 9/10/2016 4:00:00 PM

Lab ID: 1609601-010

Matrix: AQUEOUS

Received Date: 9/12/2016 3:20:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015M/D: DIESEL RANGE							Analyst: TOM	
Diesel Range Organics (DRO)	2.7	0.69	1.0		mg/L	1	9/14/2016 6:25:55 PM	27491
Motor Oil Range Organics (MRO)	ND	5.0	5.0		mg/L	1	9/14/2016 6:25:55 PM	27491
Surr: DNOP	140	0	77.1-144		%Rec	1	9/14/2016 6:25:55 PM	27491
EPA METHOD 300.0: ANIONS							Analyst: MRA	
Fluoride	0.23	0.050	0.10		mg/L	1	9/18/2016 3:46:48 PM	R37299
Chloride	98	1.0	10		mg/L	20	9/18/2016 3:59:13 PM	R37299
Bromide	0.71	0.044	0.10		mg/L	1	9/18/2016 3:46:48 PM	R37299
Phosphorus, Orthophosphate (As P')	ND	0.076	0.50	H	mg/L	1	9/18/2016 3:46:48 PM	R37299
Sulfate	4.1	0.14	0.50		mg/L	1	9/18/2016 3:46:48 PM	R37299
Nitrate+Nitrite as N	ND	0.46	1.0		mg/L	5	9/18/2016 8:19:49 PM	R37299
EPA METHOD 200.7: DISSOLVED METALS							Analyst: ELS	
Barium	1.1	0.013	0.020		mg/L	10	9/29/2016 4:34:55 PM	F37552
Cadmium	ND	0.00075	0.0020		mg/L	1	9/29/2016 4:33:07 PM	F37552
Calcium	120	5.0	10		mg/L	10	9/29/2016 4:34:55 PM	F37552
Chromium	ND	0.0018	0.0060		mg/L	1	9/29/2016 4:33:07 PM	F37552
Copper	ND	0.0040	0.0060		mg/L	1	9/29/2016 4:33:07 PM	F37552
Iron	2.7	0.20	0.20	*	mg/L	10	9/29/2016 4:34:55 PM	F37552
Magnesium	24	0.50	1.0		mg/L	1	9/29/2016 4:33:07 PM	F37552
Manganese	2.3	0.0032	0.020	*	mg/L	10	9/29/2016 4:34:55 PM	F37552
Potassium	0.71	0.50	1.0	J	mg/L	1	9/29/2016 4:33:07 PM	F37552
Silver	ND	0.0028	0.0050		mg/L	1	9/29/2016 4:33:07 PM	F37552
Sodium	250	5.0	10		mg/L	10	9/29/2016 4:34:55 PM	F37552
Zinc	ND	0.0028	0.010		mg/L	1	9/29/2016 4:33:07 PM	F37552
EPA METHOD 200.7: TOTAL METALS							Analyst: ELS	
Barium	1.3	0.0040	0.010		mg/L	5	10/3/2016 8:27:18 PM	27665
Cadmium	ND	0.0015	0.0020		mg/L	1	10/3/2016 8:25:35 PM	27665
Chromium	0.0051	0.0027	0.0060	J	mg/L	1	10/3/2016 8:25:35 PM	27665
Copper	ND	0.0030	0.0060		mg/L	1	10/12/2016 9:10:03 PM	27933
Iron	8.8	0.20	0.20	*	mg/L	10	10/4/2016 4:39:40 PM	27665
Manganese	2.6	0.0014	0.010	*	mg/L	5	10/3/2016 8:27:18 PM	27665
Silver	ND	0.0015	0.0050		mg/L	1	10/3/2016 8:25:35 PM	27665
Zinc	0.011	0.0027	0.010		mg/L	1	10/3/2016 8:25:35 PM	27665
EPA 200.8: DISSOLVED METALS							Analyst: JLF	
Arsenic	0.0024	0.00014	0.0010		mg/L	1	9/23/2016 1:01:40 PM	B37462
Lead	0.0014	0.00017	0.00050		mg/L	1	9/23/2016 1:01:40 PM	B37462
Selenium	0.0053	0.0021	0.010	J	mg/L	10	9/23/2016 3:17:50 PM	C37462
Uranium	0.0028	0.000051	0.00050		mg/L	1	9/23/2016 1:01:40 PM	B37462

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 1609601

Date Reported: 10/25/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-22

Project: 2016 3RD QTR (MKTF)

Collection Date: 9/10/2016 4:00:00 PM

Lab ID: 1609601-010

Matrix: AQUEOUS

Received Date: 9/12/2016 3:20:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
200.8 ICPMS METALS:TOTAL							Analyst: JLF	
Arsenic	0.0032	0.0011	0.0050	J	mg/L	5	9/26/2016 6:43:42 PM	27665
Lead	0.0072	0.000081	0.00050		mg/L	1	9/26/2016 4:40:49 PM	27665
Selenium	0.0045	0.00094	0.0050	J	mg/L	5	9/26/2016 6:43:42 PM	27665
Uranium	0.0040	0.00017	0.00050		mg/L	1	9/26/2016 6:01:31 PM	27665
EPA METHOD 245.1: MERCURY							Analyst: pmf	
Mercury	ND	0.000053	0.00020		mg/L	1	9/23/2016 11:48:09 AM	27664
EPA METHOD 8270C: SEMIVOLATILES							Analyst: DAM	
Acenaphthene	ND	2.6	10		µg/L	1	9/17/2016 4:57:51 PM	27489
Acenaphthylene	ND	2.4	10		µg/L	1	9/17/2016 4:57:51 PM	27489
Aniline	ND	2.4	10		µg/L	1	9/17/2016 4:57:51 PM	27489
Anthracene	ND	2.5	10		µg/L	1	9/17/2016 4:57:51 PM	27489
Azobenzene	ND	2.7	10		µg/L	1	9/17/2016 4:57:51 PM	27489
Benz(a)anthracene	ND	2.6	10		µg/L	1	9/17/2016 4:57:51 PM	27489
Benzo(a)pyrene	ND	2.7	10		µg/L	1	9/17/2016 4:57:51 PM	27489
Benzo(b)fluoranthene	ND	2.9	10		µg/L	1	9/17/2016 4:57:51 PM	27489
Benzo(g,h,i)perylene	ND	2.6	10		µg/L	1	9/17/2016 4:57:51 PM	27489
Benzo(k)fluoranthene	ND	3.0	10		µg/L	1	9/17/2016 4:57:51 PM	27489
Benzoic acid	11	2.6	20	J	µg/L	1	9/17/2016 4:57:51 PM	27489
Benzyl alcohol	ND	3.0	10		µg/L	1	9/17/2016 4:57:51 PM	27489
Bis(2-chloroethoxy)methane	ND	2.8	10		µg/L	1	9/17/2016 4:57:51 PM	27489
Bis(2-chloroethyl)ether	ND	2.7	10		µg/L	1	9/17/2016 4:57:51 PM	27489
Bis(2-chloroisopropyl)ether	ND	1.9	10		µg/L	1	9/17/2016 4:57:51 PM	27489
Bis(2-ethylhexyl)phthalate	3.0	2.6	10	J	µg/L	1	9/17/2016 4:57:51 PM	27489
4-Bromophenyl phenyl ether	ND	2.6	10		µg/L	1	9/17/2016 4:57:51 PM	27489
Butyl benzyl phthalate	ND	2.5	10		µg/L	1	9/17/2016 4:57:51 PM	27489
Carbazole	2.4	2.3	10	J	µg/L	1	9/17/2016 4:57:51 PM	27489
4-Chloro-3-methylphenol	ND	2.6	10		µg/L	1	9/17/2016 4:57:51 PM	27489
4-Chloroaniline	ND	2.7	10		µg/L	1	9/17/2016 4:57:51 PM	27489
2-Chloronaphthalene	ND	2.3	10		µg/L	1	9/17/2016 4:57:51 PM	27489
2-Chlorophenol	ND	2.2	10		µg/L	1	9/17/2016 4:57:51 PM	27489
4-Chlorophenyl phenyl ether	ND	2.6	10		µg/L	1	9/17/2016 4:57:51 PM	27489
Chrysene	ND	2.8	10		µg/L	1	9/17/2016 4:57:51 PM	27489
Di-n-butyl phthalate	ND	2.4	10		µg/L	1	9/17/2016 4:57:51 PM	27489
Di-n-octyl phthalate	3.4	2.0	10	J	µg/L	1	9/17/2016 4:57:51 PM	27489
Dibenz(a,h)anthracene	ND	2.7	10		µg/L	1	9/17/2016 4:57:51 PM	27489
Dibenzofuran	ND	2.5	10		µg/L	1	9/17/2016 4:57:51 PM	27489
1,2-Dichlorobenzene	ND	2.3	10		µg/L	1	9/17/2016 4:57:51 PM	27489
1,3-Dichlorobenzene	ND	2.3	10		µg/L	1	9/17/2016 4:57:51 PM	27489

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
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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, Inc.

Analytical Report

Lab Order 1609601

Date Reported: 10/25/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-22

Project: 2016 3RD QTR (MKTF)

Collection Date: 9/10/2016 4:00:00 PM

Lab ID: 1609601-010

Matrix: AQUEOUS

Received Date: 9/12/2016 3:20:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: DAM	
1,4-Dichlorobenzene	ND	2.4	10		µg/L	1	9/17/2016 4:57:51 PM	27489
3,3'-Dichlorobenzidine	ND	2.4	10		µg/L	1	9/17/2016 4:57:51 PM	27489
Diethyl phthalate	ND	2.7	10		µg/L	1	9/17/2016 4:57:51 PM	27489
Dimethyl phthalate	3.0	2.4	10	J	µg/L	1	9/17/2016 4:57:51 PM	27489
2,4-Dichlorophenol	ND	2.3	20		µg/L	1	9/17/2016 4:57:51 PM	27489
2,4-Dimethylphenol	ND	3.0	10		µg/L	1	9/17/2016 4:57:51 PM	27489
4,6-Dinitro-2-methylphenol	ND	1.8	20		µg/L	1	9/17/2016 4:57:51 PM	27489
2,4-Dinitrophenol	ND	2.8	20		µg/L	1	9/17/2016 4:57:51 PM	27489
2,4-Dinitrotoluene	ND	3.1	10		µg/L	1	9/17/2016 4:57:51 PM	27489
2,6-Dinitrotoluene	ND	2.7	10		µg/L	1	9/17/2016 4:57:51 PM	27489
Fluoranthene	ND	2.6	10		µg/L	1	9/17/2016 4:57:51 PM	27489
Fluorene	ND	2.7	10		µg/L	1	9/17/2016 4:57:51 PM	27489
Hexachlorobenzene	ND	2.6	10		µg/L	1	9/17/2016 4:57:51 PM	27489
Hexachlorobutadiene	ND	2.2	10		µg/L	1	9/17/2016 4:57:51 PM	27489
Hexachlorocyclopentadiene	ND	2.3	10		µg/L	1	9/17/2016 4:57:51 PM	27489
Hexachloroethane	ND	2.4	10		µg/L	1	9/17/2016 4:57:51 PM	27489
Indeno(1,2,3-cd)pyrene	ND	3.0	10		µg/L	1	9/17/2016 4:57:51 PM	27489
Isophorone	ND	2.6	10		µg/L	1	9/17/2016 4:57:51 PM	27489
1-Methylnaphthalene	39	2.9	10		µg/L	1	9/17/2016 4:57:51 PM	27489
2-Methylnaphthalene	5.0	2.9	10	J	µg/L	1	9/17/2016 4:57:51 PM	27489
2-Methylphenol	ND	2.5	10		µg/L	1	9/17/2016 4:57:51 PM	27489
3+4-Methylphenol	ND	2.3	10		µg/L	1	9/17/2016 4:57:51 PM	27489
N-Nitrosodi-n-propylamine	ND	2.4	10		µg/L	1	9/17/2016 4:57:51 PM	27489
N-Nitrosodimethylamine	ND	2.2	10		µg/L	1	9/17/2016 4:57:51 PM	27489
N-Nitrosodiphenylamine	ND	2.3	10		µg/L	1	9/17/2016 4:57:51 PM	27489
Naphthalene	23	2.6	10		µg/L	1	9/17/2016 4:57:51 PM	27489
2-Nitroaniline	ND	2.8	10		µg/L	1	9/17/2016 4:57:51 PM	27489
3-Nitroaniline	ND	2.9	10		µg/L	1	9/17/2016 4:57:51 PM	27489
4-Nitroaniline	ND	2.6	10		µg/L	1	9/17/2016 4:57:51 PM	27489
Nitrobenzene	ND	2.8	10		µg/L	1	9/17/2016 4:57:51 PM	27489
2-Nitrophenol	ND	2.4	10		µg/L	1	9/17/2016 4:57:51 PM	27489
4-Nitrophenol	ND	2.6	10		µg/L	1	9/17/2016 4:57:51 PM	27489
Pentachlorophenol	ND	2.3	20		µg/L	1	9/17/2016 4:57:51 PM	27489
Phenanthrene	ND	2.6	10		µg/L	1	9/17/2016 4:57:51 PM	27489
Phenol	7.7	2.0	10	J	µg/L	1	9/17/2016 4:57:51 PM	27489
Pyrene	ND	3.1	10		µg/L	1	9/17/2016 4:57:51 PM	27489
Pyridine	ND	2.2	10		µg/L	1	9/17/2016 4:57:51 PM	27489
1,2,4-Trichlorobenzene	ND	2.6	10		µg/L	1	9/17/2016 4:57:51 PM	27489
2,4,5-Trichlorophenol	ND	2.2	10		µg/L	1	9/17/2016 4:57:51 PM	27489

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 1609601

Date Reported: 10/25/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-22

Project: 2016 3RD QTR (MKTF)

Collection Date: 9/10/2016 4:00:00 PM

Lab ID: 1609601-010

Matrix: AQUEOUS

Received Date: 9/12/2016 3:20:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: DAM	
2,4,6-Trichlorophenol	ND	2.4	10		µg/L	1	9/17/2016 4:57:51 PM	27489
Surr: 2-Fluorophenol	16.6	0	15-123		%Rec	1	9/17/2016 4:57:51 PM	27489
Surr: Phenol-d5	14.4	0	15-124	S	%Rec	1	9/17/2016 4:57:51 PM	27489
Surr: 2,4,6-Tribromophenol	32.3	0	18.4-134		%Rec	1	9/17/2016 4:57:51 PM	27489
Surr: Nitrobenzene-d5	38.1	0	28.8-134		%Rec	1	9/17/2016 4:57:51 PM	27489
Surr: 2-Fluorobiphenyl	28.7	0	35.9-125	S	%Rec	1	9/17/2016 4:57:51 PM	27489
Surr: 4-Terphenyl-d14	16.1	0	15-146		%Rec	1	9/17/2016 4:57:51 PM	27489
EPA METHOD 8260B: VOLATILES							Analyst: DJF	
Benzene	4200	19	200		µg/L	200	9/16/2016 1:50:17 AM	W37240
Toluene	30	2.4	20		µg/L	20	9/15/2016 5:42:01 PM	W37240
Ethylbenzene	430	2.2	20		µg/L	20	9/15/2016 5:42:01 PM	W37240
Methyl tert-butyl ether (MTBE)	8800	42	200		µg/L	200	9/16/2016 1:50:17 AM	W37240
1,2,4-Trimethylbenzene	15	2.2	20	J	µg/L	20	9/15/2016 5:42:01 PM	W37240
1,3,5-Trimethylbenzene	ND	2.3	20		µg/L	20	9/15/2016 5:42:01 PM	W37240
1,2-Dichloroethane (EDC)	ND	2.3	20		µg/L	20	9/15/2016 5:42:01 PM	W37240
1,2-Dibromoethane (EDB)	ND	2.2	20		µg/L	20	9/15/2016 5:42:01 PM	W37240
Naphthalene	78	1.9	40		µg/L	20	9/15/2016 5:42:01 PM	W37240
1-Methylnaphthalene	88	4.1	80		µg/L	20	9/15/2016 5:42:01 PM	W37240
2-Methylnaphthalene	14	3.2	80	J	µg/L	20	9/15/2016 5:42:01 PM	W37240
Acetone	ND	98	200		µg/L	20	9/15/2016 5:42:01 PM	W37240
Bromobenzene	ND	2.0	20		µg/L	20	9/15/2016 5:42:01 PM	W37240
Bromodichloromethane	ND	2.8	20		µg/L	20	9/15/2016 5:42:01 PM	W37240
Bromoform	ND	2.0	20		µg/L	20	9/15/2016 5:42:01 PM	W37240
Bromomethane	ND	16	60		µg/L	20	9/15/2016 5:42:01 PM	W37240
2-Butanone	ND	15	200		µg/L	20	9/15/2016 5:42:01 PM	W37240
Carbon disulfide	ND	12	200		µg/L	20	9/15/2016 5:42:01 PM	W37240
Carbon Tetrachloride	ND	2.2	20		µg/L	20	9/15/2016 5:42:01 PM	W37240
Chlorobenzene	ND	2.3	20		µg/L	20	9/15/2016 5:42:01 PM	W37240
Chloroethane	ND	3.8	40		µg/L	20	9/15/2016 5:42:01 PM	W37240
Chloroform	ND	1.8	20		µg/L	20	9/15/2016 5:42:01 PM	W37240
Chloromethane	ND	4.3	60		µg/L	20	9/15/2016 5:42:01 PM	W37240
2-Chlorotoluene	ND	8.0	20		µg/L	20	9/15/2016 5:42:01 PM	W37240
4-Chlorotoluene	ND	2.6	20		µg/L	20	9/15/2016 5:42:01 PM	W37240
cis-1,2-DCE	11	2.5	20	J	µg/L	20	9/15/2016 5:42:01 PM	W37240
cis-1,3-Dichloropropene	ND	2.1	20		µg/L	20	9/15/2016 5:42:01 PM	W37240
1,2-Dibromo-3-chloropropane	ND	4.7	40		µg/L	20	9/15/2016 5:42:01 PM	W37240
Dibromochloromethane	ND	1.7	20		µg/L	20	9/15/2016 5:42:01 PM	W37240
Dibromomethane	ND	2.4	20		µg/L	20	9/15/2016 5:42:01 PM	W37240
1,2-Dichlorobenzene	ND	8.0	20		µg/L	20	9/15/2016 5:42:01 PM	W37240

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 1609601

Date Reported: 10/25/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-22

Project: 2016 3RD QTR (MKTF)

Collection Date: 9/10/2016 4:00:00 PM

Lab ID: 1609601-010

Matrix: AQUEOUS

Received Date: 9/12/2016 3:20:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: DJF	
1,3-Dichlorobenzene	ND	2.9	20		µg/L	20	9/15/2016 5:42:01 PM	W37240
1,4-Dichlorobenzene	ND	2.9	20		µg/L	20	9/15/2016 5:42:01 PM	W37240
Dichlorodifluoromethane	ND	7.1	20		µg/L	20	9/15/2016 5:42:01 PM	W37240
1,1-Dichloroethane	ND	2.2	20		µg/L	20	9/15/2016 5:42:01 PM	W37240
1,1-Dichloroethene	9.4	2.1	20	J	µg/L	20	9/15/2016 5:42:01 PM	W37240
1,2-Dichloropropane	ND	2.2	20		µg/L	20	9/15/2016 5:42:01 PM	W37240
1,3-Dichloropropane	ND	3.1	20		µg/L	20	9/15/2016 5:42:01 PM	W37240
2,2-Dichloropropane	ND	3.3	40		µg/L	20	9/15/2016 5:42:01 PM	W37240
1,1-Dichloropropene	ND	2.7	20		µg/L	20	9/15/2016 5:42:01 PM	W37240
Hexachlorobutadiene	ND	4.0	20		µg/L	20	9/15/2016 5:42:01 PM	W37240
2-Hexanone	ND	17	200		µg/L	20	9/15/2016 5:42:01 PM	W37240
Isopropylbenzene	18	2.1	20	J	µg/L	20	9/15/2016 5:42:01 PM	W37240
4-Isopropyltoluene	ND	2.8	20		µg/L	20	9/15/2016 5:42:01 PM	W37240
4-Methyl-2-pentanone	ND	8.6	200		µg/L	20	9/15/2016 5:42:01 PM	W37240
Methylene Chloride	ND	3.7	60		µg/L	20	9/15/2016 5:42:01 PM	W37240
n-Butylbenzene	8.5	3.2	60	J	µg/L	20	9/15/2016 5:42:01 PM	W37240
n-Propylbenzene	43	2.6	20		µg/L	20	9/15/2016 5:42:01 PM	W37240
sec-Butylbenzene	4.2	2.5	20	J	µg/L	20	9/15/2016 5:42:01 PM	W37240
Styrene	ND	2.2	20		µg/L	20	9/15/2016 5:42:01 PM	W37240
tert-Butylbenzene	ND	2.3	20		µg/L	20	9/15/2016 5:42:01 PM	W37240
1,1,1,2-Tetrachloroethane	ND	2.2	20		µg/L	20	9/15/2016 5:42:01 PM	W37240
1,1,2,2-Tetrachloroethane	ND	2.6	40		µg/L	20	9/15/2016 5:42:01 PM	W37240
Tetrachloroethene (PCE)	ND	3.0	20		µg/L	20	9/15/2016 5:42:01 PM	W37240
trans-1,2-DCE	ND	8.0	20		µg/L	20	9/15/2016 5:42:01 PM	W37240
trans-1,3-Dichloropropene	ND	2.1	20		µg/L	20	9/15/2016 5:42:01 PM	W37240
1,2,3-Trichlorobenzene	ND	2.3	20		µg/L	20	9/15/2016 5:42:01 PM	W37240
1,2,4-Trichlorobenzene	ND	2.7	20		µg/L	20	9/15/2016 5:42:01 PM	W37240
1,1,1-Trichloroethane	ND	1.8	20		µg/L	20	9/15/2016 5:42:01 PM	W37240
1,1,2-Trichloroethane	ND	2.5	20		µg/L	20	9/15/2016 5:42:01 PM	W37240
Trichloroethene (TCE)	ND	3.5	20		µg/L	20	9/15/2016 5:42:01 PM	W37240
Trichlorofluoromethane	ND	4.1	20		µg/L	20	9/15/2016 5:42:01 PM	W37240
1,2,3-Trichloropropane	ND	4.0	40		µg/L	20	9/15/2016 5:42:01 PM	W37240
Vinyl chloride	ND	3.9	20		µg/L	20	9/15/2016 5:42:01 PM	W37240
Xylenes, Total	49	7.3	30		µg/L	20	9/15/2016 5:42:01 PM	W37240
Surr: 1,2-Dichloroethane-d4	93.4	0	70-130		%Rec	20	9/15/2016 5:42:01 PM	W37240
Surr: 4-Bromofluorobenzene	99.1	0	70-130		%Rec	20	9/15/2016 5:42:01 PM	W37240
Surr: Dibromofluoromethane	102	0	70-130		%Rec	20	9/15/2016 5:42:01 PM	W37240
Surr: Toluene-d8	95.5	0	70-130		%Rec	20	9/15/2016 5:42:01 PM	W37240

EPA METHOD 8015D: GASOLINE RANGE

Analyst: DJF

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 1609601

Date Reported: 10/25/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: MKTF-22

Project: 2016 3RD QTR (MKTF)

Collection Date: 9/10/2016 4:00:00 PM

Lab ID: 1609601-010

Matrix: AQUEOUS

Received Date: 9/12/2016 3:20:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: GASOLINE RANGE							Analyst: DJF	
Gasoline Range Organics (GRO)	17	0.30	1.0		mg/L	20	9/15/2016 5:42:01 PM	G37240
Surr: BFB	98.4	0	70-130		%Rec	20	9/15/2016 5:42:01 PM	G37240

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 1609601

Date Reported: 10/25/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: TRIP BLANK

Project: 2016 3RD QTR (MKTF)

Collection Date: 9/10/2016

Lab ID: 1609601-011

Matrix: AQUEOUS

Received Date: 9/12/2016 3:20:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: DJF	
Benzene	ND	0.096	1.0		µg/L	1	9/15/2016 11:57:08 AM	W37240
Toluene	ND	0.12	1.0		µg/L	1	9/15/2016 11:57:08 AM	W37240
Ethylbenzene	ND	0.11	1.0		µg/L	1	9/15/2016 11:57:08 AM	W37240
Methyl tert-butyl ether (MTBE)	ND	0.21	1.0		µg/L	1	9/15/2016 11:57:08 AM	W37240
1,2,4-Trimethylbenzene	ND	0.11	1.0		µg/L	1	9/15/2016 11:57:08 AM	W37240
1,3,5-Trimethylbenzene	ND	0.12	1.0		µg/L	1	9/15/2016 11:57:08 AM	W37240
1,2-Dichloroethane (EDC)	ND	0.12	1.0		µg/L	1	9/15/2016 11:57:08 AM	W37240
1,2-Dibromoethane (EDB)	ND	0.11	1.0		µg/L	1	9/15/2016 11:57:08 AM	W37240
Naphthalene	ND	0.093	2.0		µg/L	1	9/15/2016 11:57:08 AM	W37240
1-Methylnaphthalene	ND	0.20	4.0		µg/L	1	9/15/2016 11:57:08 AM	W37240
2-Methylnaphthalene	ND	0.16	4.0		µg/L	1	9/15/2016 11:57:08 AM	W37240
Acetone	8.8	4.9	10	J	µg/L	1	9/15/2016 11:57:08 AM	W37240
Bromobenzene	ND	0.098	1.0		µg/L	1	9/15/2016 11:57:08 AM	W37240
Bromodichloromethane	ND	0.14	1.0		µg/L	1	9/15/2016 11:57:08 AM	W37240
Bromoform	ND	0.10	1.0		µg/L	1	9/15/2016 11:57:08 AM	W37240
Bromomethane	ND	0.78	3.0		µg/L	1	9/15/2016 11:57:08 AM	W37240
2-Butanone	ND	0.74	10		µg/L	1	9/15/2016 11:57:08 AM	W37240
Carbon disulfide	ND	0.60	10		µg/L	1	9/15/2016 11:57:08 AM	W37240
Carbon Tetrachloride	ND	0.11	1.0		µg/L	1	9/15/2016 11:57:08 AM	W37240
Chlorobenzene	ND	0.11	1.0		µg/L	1	9/15/2016 11:57:08 AM	W37240
Chloroethane	ND	0.19	2.0		µg/L	1	9/15/2016 11:57:08 AM	W37240
Chloroform	ND	0.089	1.0		µg/L	1	9/15/2016 11:57:08 AM	W37240
Chloromethane	ND	0.21	3.0		µg/L	1	9/15/2016 11:57:08 AM	W37240
2-Chlorotoluene	ND	0.40	1.0		µg/L	1	9/15/2016 11:57:08 AM	W37240
4-Chlorotoluene	ND	0.13	1.0		µg/L	1	9/15/2016 11:57:08 AM	W37240
cis-1,2-DCE	ND	0.12	1.0		µg/L	1	9/15/2016 11:57:08 AM	W37240
cis-1,3-Dichloropropene	ND	0.11	1.0		µg/L	1	9/15/2016 11:57:08 AM	W37240
1,2-Dibromo-3-chloropropane	ND	0.23	2.0		µg/L	1	9/15/2016 11:57:08 AM	W37240
Dibromochloromethane	ND	0.087	1.0		µg/L	1	9/15/2016 11:57:08 AM	W37240
Dibromomethane	ND	0.12	1.0		µg/L	1	9/15/2016 11:57:08 AM	W37240
1,2-Dichlorobenzene	ND	0.40	1.0		µg/L	1	9/15/2016 11:57:08 AM	W37240
1,3-Dichlorobenzene	ND	0.14	1.0		µg/L	1	9/15/2016 11:57:08 AM	W37240
1,4-Dichlorobenzene	ND	0.14	1.0		µg/L	1	9/15/2016 11:57:08 AM	W37240
Dichlorodifluoromethane	ND	0.36	1.0		µg/L	1	9/15/2016 11:57:08 AM	W37240
1,1-Dichloroethane	ND	0.11	1.0		µg/L	1	9/15/2016 11:57:08 AM	W37240
1,1-Dichloroethene	ND	0.11	1.0		µg/L	1	9/15/2016 11:57:08 AM	W37240
1,2-Dichloropropane	ND	0.11	1.0		µg/L	1	9/15/2016 11:57:08 AM	W37240
1,3-Dichloropropane	ND	0.16	1.0		µg/L	1	9/15/2016 11:57:08 AM	W37240
2,2-Dichloropropane	ND	0.17	2.0		µg/L	1	9/15/2016 11:57:08 AM	W37240

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 1609601

Date Reported: 10/25/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: TRIP BLANK

Project: 2016 3RD QTR (MKTF)

Collection Date: 9/10/2016

Lab ID: 1609601-011

Matrix: AQUEOUS

Received Date: 9/12/2016 3:20:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: DJF	
1,1-Dichloropropene	ND	0.13	1.0		µg/L	1	9/15/2016 11:57:08 AM	W37240
Hexachlorobutadiene	ND	0.20	1.0		µg/L	1	9/15/2016 11:57:08 AM	W37240
2-Hexanone	ND	0.84	10		µg/L	1	9/15/2016 11:57:08 AM	W37240
Isopropylbenzene	ND	0.10	1.0		µg/L	1	9/15/2016 11:57:08 AM	W37240
4-Isopropyltoluene	ND	0.14	1.0		µg/L	1	9/15/2016 11:57:08 AM	W37240
4-Methyl-2-pentanone	ND	0.43	10		µg/L	1	9/15/2016 11:57:08 AM	W37240
Methylene Chloride	ND	0.19	3.0		µg/L	1	9/15/2016 11:57:08 AM	W37240
n-Butylbenzene	ND	0.16	3.0		µg/L	1	9/15/2016 11:57:08 AM	W37240
n-Propylbenzene	ND	0.13	1.0		µg/L	1	9/15/2016 11:57:08 AM	W37240
sec-Butylbenzene	ND	0.12	1.0		µg/L	1	9/15/2016 11:57:08 AM	W37240
Styrene	ND	0.11	1.0		µg/L	1	9/15/2016 11:57:08 AM	W37240
tert-Butylbenzene	ND	0.12	1.0		µg/L	1	9/15/2016 11:57:08 AM	W37240
1,1,1,2-Tetrachloroethane	ND	0.11	1.0		µg/L	1	9/15/2016 11:57:08 AM	W37240
1,1,2,2-Tetrachloroethane	ND	0.13	2.0		µg/L	1	9/15/2016 11:57:08 AM	W37240
Tetrachloroethene (PCE)	ND	0.15	1.0		µg/L	1	9/15/2016 11:57:08 AM	W37240
trans-1,2-DCE	ND	0.40	1.0		µg/L	1	9/15/2016 11:57:08 AM	W37240
trans-1,3-Dichloropropene	ND	0.10	1.0		µg/L	1	9/15/2016 11:57:08 AM	W37240
1,2,3-Trichlorobenzene	ND	0.11	1.0		µg/L	1	9/15/2016 11:57:08 AM	W37240
1,2,4-Trichlorobenzene	ND	0.13	1.0		µg/L	1	9/15/2016 11:57:08 AM	W37240
1,1,1-Trichloroethane	ND	0.091	1.0		µg/L	1	9/15/2016 11:57:08 AM	W37240
1,1,2-Trichloroethane	ND	0.13	1.0		µg/L	1	9/15/2016 11:57:08 AM	W37240
Trichloroethene (TCE)	ND	0.18	1.0		µg/L	1	9/15/2016 11:57:08 AM	W37240
Trichlorofluoromethane	ND	0.20	1.0		µg/L	1	9/15/2016 11:57:08 AM	W37240
1,2,3-Trichloropropane	ND	0.20	2.0		µg/L	1	9/15/2016 11:57:08 AM	W37240
Vinyl chloride	ND	0.20	1.0		µg/L	1	9/15/2016 11:57:08 AM	W37240
Xylenes, Total	ND	0.37	1.5		µg/L	1	9/15/2016 11:57:08 AM	W37240
Surr: 1,2-Dichloroethane-d4	97.2	0	70-130		%Rec	1	9/15/2016 11:57:08 AM	W37240
Surr: 4-Bromofluorobenzene	92.2	0	70-130		%Rec	1	9/15/2016 11:57:08 AM	W37240
Surr: Dibromofluoromethane	107	0	70-130		%Rec	1	9/15/2016 11:57:08 AM	W37240
Surr: Toluene-d8	94.8	0	70-130		%Rec	1	9/15/2016 11:57:08 AM	W37240
EPA METHOD 8015D: GASOLINE RANGE							Analyst: DJF	
Gasoline Range Organics (GRO)	ND	0.015	0.050		mg/L	1	9/15/2016 11:57:08 AM	G37240
Surr: BFB	95.6	0	70-130		%Rec	1	9/15/2016 11:57:08 AM	G37240

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 1609601

Date Reported: 10/25/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: FB091116

Project: 2016 3RD QTR (MKTF)

Collection Date: 9/11/2016 4:55:00 PM

Lab ID: 1609601-012

Matrix: AQUEOUS

Received Date: 9/12/2016 3:20:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015M/D: DIESEL RANGE							Analyst: TOM	
Diesel Range Organics (DRO)	ND	0.69	1.0		mg/L	1	9/14/2016 6:47:45 PM	27491
Motor Oil Range Organics (MRO)	ND	5.0	5.0		mg/L	1	9/14/2016 6:47:45 PM	27491
Surr: DNOP	143	0	77.1-144		%Rec	1	9/14/2016 6:47:45 PM	27491
EPA METHOD 300.0: ANIONS							Analyst: MRA	
Fluoride	ND	0.050	0.10		mg/L	1	9/18/2016 4:11:37 PM	R37299
Chloride	0.13	0.051	0.50	J	mg/L	1	9/18/2016 4:11:37 PM	R37299
Bromide	ND	0.044	0.10		mg/L	1	9/18/2016 4:11:37 PM	R37299
Phosphorus, Orthophosphate (As P')	ND	0.076	0.50	h	mg/L	1	9/18/2016 4:11:37 PM	R37299
Sulfate	ND	0.14	0.50		mg/L	1	9/18/2016 4:11:37 PM	R37299
Nitrate+Nitrite as N	ND	0.46	1.0		mg/L	5	9/18/2016 8:32:14 PM	R37299
EPA METHOD 200.7: DISSOLVED METALS							Analyst: ELS	
Barium	ND	0.0013	0.0020		mg/L	1	9/29/2016 4:36:41 PM	F37552
Cadmium	ND	0.00075	0.0020		mg/L	1	9/29/2016 4:36:41 PM	F37552
Calcium	ND	0.50	1.0		mg/L	1	9/29/2016 4:36:41 PM	F37552
Chromium	ND	0.0018	0.0060		mg/L	1	9/29/2016 4:36:41 PM	F37552
Copper	ND	0.0040	0.0060		mg/L	1	9/29/2016 4:36:41 PM	F37552
Iron	ND	0.020	0.020		mg/L	1	9/29/2016 4:36:41 PM	F37552
Magnesium	ND	0.50	1.0		mg/L	1	9/29/2016 4:36:41 PM	F37552
Manganese	ND	0.00032	0.0020		mg/L	1	9/29/2016 4:36:41 PM	F37552
Potassium	ND	0.50	1.0		mg/L	1	9/29/2016 4:36:41 PM	F37552
Silver	ND	0.0028	0.0050		mg/L	1	9/29/2016 4:36:41 PM	F37552
Sodium	ND	0.50	1.0		mg/L	1	9/29/2016 4:36:41 PM	F37552
Zinc	ND	0.0028	0.010		mg/L	1	9/29/2016 4:36:41 PM	F37552
EPA METHOD 200.7: TOTAL METALS							Analyst: ELS	
Barium	ND	0.00079	0.0020		mg/L	1	10/3/2016 8:29:07 PM	27665
Cadmium	ND	0.0015	0.0020		mg/L	1	10/3/2016 8:29:07 PM	27665
Chromium	ND	0.0027	0.0060		mg/L	1	10/3/2016 8:29:07 PM	27665
Copper	ND	0.0030	0.0060		mg/L	1	10/3/2016 8:29:07 PM	27665
Iron	ND	0.020	0.020		mg/L	1	10/3/2016 8:29:07 PM	27665
Manganese	0.00045	0.00027	0.0020	J	mg/L	1	10/3/2016 8:29:07 PM	27665
Silver	ND	0.0015	0.0050		mg/L	1	10/3/2016 8:29:07 PM	27665
Zinc	ND	0.0027	0.010		mg/L	1	10/3/2016 8:29:07 PM	27665
EPA 200.8: DISSOLVED METALS							Analyst: JLF	
Arsenic	ND	0.00014	0.0010		mg/L	1	9/23/2016 1:04:44 PM	B37462
Lead	ND	0.00017	0.00050		mg/L	1	9/23/2016 1:04:44 PM	B37462
Selenium	ND	0.00021	0.0010		mg/L	1	9/23/2016 1:04:44 PM	B37462
Uranium	ND	0.000051	0.00050		mg/L	1	9/23/2016 1:04:44 PM	B37462

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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 1609601

Date Reported: 10/25/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: FB091116

Project: 2016 3RD QTR (MKTF)

Collection Date: 9/11/2016 4:55:00 PM

Lab ID: 1609601-012

Matrix: AQUEOUS

Received Date: 9/12/2016 3:20:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
200.8 ICPMS METALS:TOTAL							Analyst: JLF	
Arsenic	ND	0.00021	0.0010		mg/L	1	9/26/2016 4:43:49 PM	27665
Lead	ND	0.000081	0.00050		mg/L	1	9/26/2016 4:43:49 PM	27665
Selenium	ND	0.00019	0.0010		mg/L	1	9/26/2016 4:43:49 PM	27665
Uranium	ND	0.00017	0.00050		mg/L	1	9/26/2016 6:04:31 PM	27665
EPA METHOD 245.1: MERCURY							Analyst: pmf	
Mercury	ND	0.000053	0.00020		mg/L	1	9/23/2016 11:50:12 AM	27664
EPA METHOD 8270C: SEMIVOLATILES							Analyst: DAM	
Acenaphthene	ND	2.6	10		µg/L	1	9/19/2016 1:59:30 PM	27514
Acenaphthylene	ND	2.4	10		µg/L	1	9/19/2016 1:59:30 PM	27514
Aniline	ND	2.4	10		µg/L	1	9/19/2016 1:59:30 PM	27514
Anthracene	ND	2.5	10		µg/L	1	9/19/2016 1:59:30 PM	27514
Azobenzene	ND	2.7	10		µg/L	1	9/19/2016 1:59:30 PM	27514
Benz(a)anthracene	ND	2.6	10		µg/L	1	9/19/2016 1:59:30 PM	27514
Benzo(a)pyrene	ND	2.7	10		µg/L	1	9/19/2016 1:59:30 PM	27514
Benzo(b)fluoranthene	ND	2.9	10		µg/L	1	9/19/2016 1:59:30 PM	27514
Benzo(g,h,i)perylene	ND	2.6	10		µg/L	1	9/19/2016 1:59:30 PM	27514
Benzo(k)fluoranthene	ND	3.0	10		µg/L	1	9/19/2016 1:59:30 PM	27514
Benzoic acid	11	2.6	20	J	µg/L	1	9/19/2016 1:59:30 PM	27514
Benzyl alcohol	ND	3.0	10		µg/L	1	9/19/2016 1:59:30 PM	27514
Bis(2-chloroethoxy)methane	ND	2.8	10		µg/L	1	9/19/2016 1:59:30 PM	27514
Bis(2-chloroethyl)ether	ND	2.7	10		µg/L	1	9/19/2016 1:59:30 PM	27514
Bis(2-chloroisopropyl)ether	ND	1.9	10		µg/L	1	9/19/2016 1:59:30 PM	27514
Bis(2-ethylhexyl)phthalate	3.6	2.6	10	J	µg/L	1	9/19/2016 1:59:30 PM	27514
4-Bromophenyl phenyl ether	ND	2.6	10		µg/L	1	9/19/2016 1:59:30 PM	27514
Butyl benzyl phthalate	ND	2.5	10		µg/L	1	9/19/2016 1:59:30 PM	27514
Carbazole	ND	2.3	10		µg/L	1	9/19/2016 1:59:30 PM	27514
4-Chloro-3-methylphenol	ND	2.6	10		µg/L	1	9/19/2016 1:59:30 PM	27514
4-Chloroaniline	ND	2.7	10		µg/L	1	9/19/2016 1:59:30 PM	27514
2-Chloronaphthalene	ND	2.3	10		µg/L	1	9/19/2016 1:59:30 PM	27514
2-Chlorophenol	ND	2.2	10		µg/L	1	9/19/2016 1:59:30 PM	27514
4-Chlorophenyl phenyl ether	ND	2.6	10		µg/L	1	9/19/2016 1:59:30 PM	27514
Chrysene	ND	2.8	10		µg/L	1	9/19/2016 1:59:30 PM	27514
Di-n-butyl phthalate	ND	2.4	10		µg/L	1	9/19/2016 1:59:30 PM	27514
Di-n-octyl phthalate	3.9	2.0	10	J	µg/L	1	9/19/2016 1:59:30 PM	27514
Dibenz(a,h)anthracene	ND	2.7	10		µg/L	1	9/19/2016 1:59:30 PM	27514
Dibenzofuran	ND	2.5	10		µg/L	1	9/19/2016 1:59:30 PM	27514
1,2-Dichlorobenzene	ND	2.3	10		µg/L	1	9/19/2016 1:59:30 PM	27514
1,3-Dichlorobenzene	ND	2.3	10		µg/L	1	9/19/2016 1:59:30 PM	27514

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Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
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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.

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: FB091116

Project: 2016 3RD QTR (MKTF)

Collection Date: 9/11/2016 4:55:00 PM

Lab ID: 1609601-012

Matrix: AQUEOUS

Received Date: 9/12/2016 3:20:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: DAM	
1,4-Dichlorobenzene	ND	2.4	10		µg/L	1	9/19/2016 1:59:30 PM	27514
3,3'-Dichlorobenzidine	ND	2.4	10		µg/L	1	9/19/2016 1:59:30 PM	27514
Diethyl phthalate	ND	2.7	10		µg/L	1	9/19/2016 1:59:30 PM	27514
Dimethyl phthalate	14	2.4	10		µg/L	1	9/19/2016 1:59:30 PM	27514
2,4-Dichlorophenol	ND	2.3	20		µg/L	1	9/19/2016 1:59:30 PM	27514
2,4-Dimethylphenol	ND	3.0	10		µg/L	1	9/19/2016 1:59:30 PM	27514
4,6-Dinitro-2-methylphenol	ND	1.8	20		µg/L	1	9/19/2016 1:59:30 PM	27514
2,4-Dinitrophenol	ND	2.8	20		µg/L	1	9/19/2016 1:59:30 PM	27514
2,4-Dinitrotoluene	ND	3.1	10		µg/L	1	9/19/2016 1:59:30 PM	27514
2,6-Dinitrotoluene	ND	2.7	10		µg/L	1	9/19/2016 1:59:30 PM	27514
Fluoranthene	ND	2.6	10		µg/L	1	9/19/2016 1:59:30 PM	27514
Fluorene	ND	2.7	10		µg/L	1	9/19/2016 1:59:30 PM	27514
Hexachlorobenzene	ND	2.6	10		µg/L	1	9/19/2016 1:59:30 PM	27514
Hexachlorobutadiene	ND	2.2	10		µg/L	1	9/19/2016 1:59:30 PM	27514
Hexachlorocyclopentadiene	ND	2.3	10		µg/L	1	9/19/2016 1:59:30 PM	27514
Hexachloroethane	ND	2.4	10		µg/L	1	9/19/2016 1:59:30 PM	27514
Indeno(1,2,3-cd)pyrene	ND	3.0	10		µg/L	1	9/19/2016 1:59:30 PM	27514
Isophorone	ND	2.6	10		µg/L	1	9/19/2016 1:59:30 PM	27514
1-Methylnaphthalene	ND	2.9	10		µg/L	1	9/19/2016 1:59:30 PM	27514
2-Methylnaphthalene	ND	2.9	10		µg/L	1	9/19/2016 1:59:30 PM	27514
2-Methylphenol	ND	2.5	10		µg/L	1	9/19/2016 1:59:30 PM	27514
3+4-Methylphenol	ND	2.3	10		µg/L	1	9/19/2016 1:59:30 PM	27514
N-Nitrosodi-n-propylamine	ND	2.4	10		µg/L	1	9/19/2016 1:59:30 PM	27514
N-Nitrosodimethylamine	ND	2.2	10		µg/L	1	9/19/2016 1:59:30 PM	27514
N-Nitrosodiphenylamine	ND	2.3	10		µg/L	1	9/19/2016 1:59:30 PM	27514
Naphthalene	ND	2.6	10		µg/L	1	9/19/2016 1:59:30 PM	27514
2-Nitroaniline	ND	2.8	10		µg/L	1	9/19/2016 1:59:30 PM	27514
3-Nitroaniline	ND	2.9	10		µg/L	1	9/19/2016 1:59:30 PM	27514
4-Nitroaniline	ND	2.6	10		µg/L	1	9/19/2016 1:59:30 PM	27514
Nitrobenzene	ND	2.8	10		µg/L	1	9/19/2016 1:59:30 PM	27514
2-Nitrophenol	ND	2.4	10		µg/L	1	9/19/2016 1:59:30 PM	27514
4-Nitrophenol	ND	2.6	10		µg/L	1	9/19/2016 1:59:30 PM	27514
Pentachlorophenol	2.5	2.3	20	J	µg/L	1	9/19/2016 1:59:30 PM	27514
Phenanthrene	ND	2.6	10		µg/L	1	9/19/2016 1:59:30 PM	27514
Phenol	ND	2.0	10		µg/L	1	9/19/2016 1:59:30 PM	27514
Pyrene	3.2	3.1	10	J	µg/L	1	9/19/2016 1:59:30 PM	27514
Pyridine	ND	2.2	10		µg/L	1	9/19/2016 1:59:30 PM	27514
1,2,4-Trichlorobenzene	ND	2.6	10		µg/L	1	9/19/2016 1:59:30 PM	27514
2,4,5-Trichlorophenol	ND	2.2	10		µg/L	1	9/19/2016 1:59:30 PM	27514

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 1609601

Date Reported: 10/25/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: FB091116

Project: 2016 3RD QTR (MKTF)

Collection Date: 9/11/2016 4:55:00 PM

Lab ID: 1609601-012

Matrix: AQUEOUS

Received Date: 9/12/2016 3:20:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: DAM	
2,4,6-Trichlorophenol	ND	2.4	10		µg/L	1	9/19/2016 1:59:30 PM	27514
Surr: 2-Fluorophenol	51.7	0	15-123		%Rec	1	9/19/2016 1:59:30 PM	27514
Surr: Phenol-d5	41.6	0	15-124		%Rec	1	9/19/2016 1:59:30 PM	27514
Surr: 2,4,6-Tribromophenol	84.1	0	18.4-134		%Rec	1	9/19/2016 1:59:30 PM	27514
Surr: Nitrobenzene-d5	72.7	0	28.8-134		%Rec	1	9/19/2016 1:59:30 PM	27514
Surr: 2-Fluorobiphenyl	64.6	0	35.9-125		%Rec	1	9/19/2016 1:59:30 PM	27514
Surr: 4-Terphenyl-d14	48.2	0	15-146		%Rec	1	9/19/2016 1:59:30 PM	27514
EPA METHOD 8260B: VOLATILES							Analyst: DJF	
Benzene	ND	0.096	1.0		µg/L	1	9/15/2016 12:25:48 PM	W37240
Toluene	ND	0.12	1.0		µg/L	1	9/15/2016 12:25:48 PM	W37240
Ethylbenzene	ND	0.11	1.0		µg/L	1	9/15/2016 12:25:48 PM	W37240
Methyl tert-butyl ether (MTBE)	ND	0.21	1.0		µg/L	1	9/15/2016 12:25:48 PM	W37240
1,2,4-Trimethylbenzene	ND	0.11	1.0		µg/L	1	9/15/2016 12:25:48 PM	W37240
1,3,5-Trimethylbenzene	ND	0.12	1.0		µg/L	1	9/15/2016 12:25:48 PM	W37240
1,2-Dichloroethane (EDC)	ND	0.12	1.0		µg/L	1	9/15/2016 12:25:48 PM	W37240
1,2-Dibromoethane (EDB)	ND	0.11	1.0		µg/L	1	9/15/2016 12:25:48 PM	W37240
Naphthalene	ND	0.093	2.0		µg/L	1	9/15/2016 12:25:48 PM	W37240
1-Methylnaphthalene	ND	0.20	4.0		µg/L	1	9/15/2016 12:25:48 PM	W37240
2-Methylnaphthalene	ND	0.16	4.0		µg/L	1	9/15/2016 12:25:48 PM	W37240
Acetone	ND	4.9	10		µg/L	1	9/15/2016 12:25:48 PM	W37240
Bromobenzene	ND	0.098	1.0		µg/L	1	9/15/2016 12:25:48 PM	W37240
Bromodichloromethane	ND	0.14	1.0		µg/L	1	9/15/2016 12:25:48 PM	W37240
Bromoform	ND	0.10	1.0		µg/L	1	9/15/2016 12:25:48 PM	W37240
Bromomethane	ND	0.78	3.0		µg/L	1	9/15/2016 12:25:48 PM	W37240
2-Butanone	ND	0.74	10		µg/L	1	9/15/2016 12:25:48 PM	W37240
Carbon disulfide	ND	0.60	10		µg/L	1	9/15/2016 12:25:48 PM	W37240
Carbon Tetrachloride	ND	0.11	1.0		µg/L	1	9/15/2016 12:25:48 PM	W37240
Chlorobenzene	ND	0.11	1.0		µg/L	1	9/15/2016 12:25:48 PM	W37240
Chloroethane	ND	0.19	2.0		µg/L	1	9/15/2016 12:25:48 PM	W37240
Chloroform	ND	0.089	1.0		µg/L	1	9/15/2016 12:25:48 PM	W37240
Chloromethane	ND	0.21	3.0		µg/L	1	9/15/2016 12:25:48 PM	W37240
2-Chlorotoluene	ND	0.40	1.0		µg/L	1	9/15/2016 12:25:48 PM	W37240
4-Chlorotoluene	ND	0.13	1.0		µg/L	1	9/15/2016 12:25:48 PM	W37240
cis-1,2-DCE	ND	0.12	1.0		µg/L	1	9/15/2016 12:25:48 PM	W37240
cis-1,3-Dichloropropene	ND	0.11	1.0		µg/L	1	9/15/2016 12:25:48 PM	W37240
1,2-Dibromo-3-chloropropane	ND	0.23	2.0		µg/L	1	9/15/2016 12:25:48 PM	W37240
Dibromochloromethane	ND	0.087	1.0		µg/L	1	9/15/2016 12:25:48 PM	W37240
Dibromomethane	ND	0.12	1.0		µg/L	1	9/15/2016 12:25:48 PM	W37240
1,2-Dichlorobenzene	ND	0.40	1.0		µg/L	1	9/15/2016 12:25:48 PM	W37240

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 1609601

Date Reported: 10/25/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: FB091116

Project: 2016 3RD QTR (MKTF)

Collection Date: 9/11/2016 4:55:00 PM

Lab ID: 1609601-012

Matrix: AQUEOUS

Received Date: 9/12/2016 3:20:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: DJF	
1,3-Dichlorobenzene	ND	0.14	1.0		µg/L	1	9/15/2016 12:25:48 PM	W37240
1,4-Dichlorobenzene	ND	0.14	1.0		µg/L	1	9/15/2016 12:25:48 PM	W37240
Dichlorodifluoromethane	ND	0.36	1.0		µg/L	1	9/15/2016 12:25:48 PM	W37240
1,1-Dichloroethane	ND	0.11	1.0		µg/L	1	9/15/2016 12:25:48 PM	W37240
1,1-Dichloroethene	ND	0.11	1.0		µg/L	1	9/15/2016 12:25:48 PM	W37240
1,2-Dichloropropane	ND	0.11	1.0		µg/L	1	9/15/2016 12:25:48 PM	W37240
1,3-Dichloropropane	ND	0.16	1.0		µg/L	1	9/15/2016 12:25:48 PM	W37240
2,2-Dichloropropane	ND	0.17	2.0		µg/L	1	9/15/2016 12:25:48 PM	W37240
1,1-Dichloropropene	ND	0.13	1.0		µg/L	1	9/15/2016 12:25:48 PM	W37240
Hexachlorobutadiene	ND	0.20	1.0		µg/L	1	9/15/2016 12:25:48 PM	W37240
2-Hexanone	ND	0.84	10		µg/L	1	9/15/2016 12:25:48 PM	W37240
Isopropylbenzene	ND	0.10	1.0		µg/L	1	9/15/2016 12:25:48 PM	W37240
4-Isopropyltoluene	ND	0.14	1.0		µg/L	1	9/15/2016 12:25:48 PM	W37240
4-Methyl-2-pentanone	ND	0.43	10		µg/L	1	9/15/2016 12:25:48 PM	W37240
Methylene Chloride	ND	0.19	3.0		µg/L	1	9/15/2016 12:25:48 PM	W37240
n-Butylbenzene	ND	0.16	3.0		µg/L	1	9/15/2016 12:25:48 PM	W37240
n-Propylbenzene	ND	0.13	1.0		µg/L	1	9/15/2016 12:25:48 PM	W37240
sec-Butylbenzene	ND	0.12	1.0		µg/L	1	9/15/2016 12:25:48 PM	W37240
Styrene	ND	0.11	1.0		µg/L	1	9/15/2016 12:25:48 PM	W37240
tert-Butylbenzene	ND	0.12	1.0		µg/L	1	9/15/2016 12:25:48 PM	W37240
1,1,1,2-Tetrachloroethane	ND	0.11	1.0		µg/L	1	9/15/2016 12:25:48 PM	W37240
1,1,2,2-Tetrachloroethane	ND	0.13	2.0		µg/L	1	9/15/2016 12:25:48 PM	W37240
Tetrachloroethene (PCE)	ND	0.15	1.0		µg/L	1	9/15/2016 12:25:48 PM	W37240
trans-1,2-DCE	ND	0.40	1.0		µg/L	1	9/15/2016 12:25:48 PM	W37240
trans-1,3-Dichloropropene	ND	0.10	1.0		µg/L	1	9/15/2016 12:25:48 PM	W37240
1,2,3-Trichlorobenzene	ND	0.11	1.0		µg/L	1	9/15/2016 12:25:48 PM	W37240
1,2,4-Trichlorobenzene	ND	0.13	1.0		µg/L	1	9/15/2016 12:25:48 PM	W37240
1,1,1-Trichloroethane	ND	0.091	1.0		µg/L	1	9/15/2016 12:25:48 PM	W37240
1,1,2-Trichloroethane	ND	0.13	1.0		µg/L	1	9/15/2016 12:25:48 PM	W37240
Trichloroethene (TCE)	ND	0.18	1.0		µg/L	1	9/15/2016 12:25:48 PM	W37240
Trichlorofluoromethane	ND	0.20	1.0		µg/L	1	9/15/2016 12:25:48 PM	W37240
1,2,3-Trichloropropane	ND	0.20	2.0		µg/L	1	9/15/2016 12:25:48 PM	W37240
Vinyl chloride	ND	0.20	1.0		µg/L	1	9/15/2016 12:25:48 PM	W37240
Xylenes, Total	ND	0.37	1.5		µg/L	1	9/15/2016 12:25:48 PM	W37240
Surr: 1,2-Dichloroethane-d4	101	0	70-130		%Rec	1	9/15/2016 12:25:48 PM	W37240
Surr: 4-Bromofluorobenzene	92.4	0	70-130		%Rec	1	9/15/2016 12:25:48 PM	W37240
Surr: Dibromofluoromethane	109	0	70-130		%Rec	1	9/15/2016 12:25:48 PM	W37240
Surr: Toluene-d8	96.0	0	70-130		%Rec	1	9/15/2016 12:25:48 PM	W37240

EPA METHOD 8015D: GASOLINE RANGE

Analyst: DJF

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 1609601

Date Reported: 10/25/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: FB091116

Project: 2016 3RD QTR (MKTF)

Collection Date: 9/11/2016 4:55:00 PM

Lab ID: 1609601-012

Matrix: AQUEOUS

Received Date: 9/12/2016 3:20:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: GASOLINE RANGE							Analyst: DJF	
Gasoline Range Organics (GRO)	ND	0.015	0.050		mg/L	1	9/15/2016 12:25:48 PM	G37240
Surr: BFB	93.7	0	70-130		%Rec	1	9/15/2016 12:25:48 PM	G37240

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 1609601

Date Reported: 10/25/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: DUP04

Project: 2016 3RD QTR (MKTF)

Collection Date: 9/11/2016

Lab ID: 1609601-013

Matrix: AQUEOUS

Received Date: 9/12/2016 3:20:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015M/D: DIESEL RANGE							Analyst: TOM	
Diesel Range Organics (DRO)	1.7	0.69	1.0	H	mg/L	1	9/20/2016 10:00:36 PM	27563
Motor Oil Range Organics (MRO)	ND	5.0	5.0	H	mg/L	1	9/20/2016 10:00:36 PM	27563
Surr: DNOP	138	0	77.1-144	H	%Rec	1	9/20/2016 10:00:36 PM	27563
EPA METHOD 300.0: ANIONS							Analyst: MRA	
Fluoride	ND	1.0	2.0		mg/L	20	9/18/2016 5:13:41 PM	R37299
Chloride	910	5.1	50		mg/L	100	9/23/2016 6:06:02 PM	R37469
Bromide	ND	0.044	0.10		mg/L	1	9/18/2016 5:01:16 PM	R37299
Phosphorus, Orthophosphate (As P')	ND	0.076	0.50	H	mg/L	1	9/18/2016 5:01:16 PM	R37299
Sulfate	1.9	0.14	0.50		mg/L	1	9/18/2016 5:01:16 PM	R37299
Nitrate+Nitrite as N	ND	0.46	1.0		mg/L	5	9/18/2016 8:44:38 PM	R37299
EPA METHOD 200.7: DISSOLVED METALS							Analyst: ELS	
Barium	2.4	0.013	0.020	*	mg/L	10	9/29/2016 4:48:15 PM	F37552
Cadmium	ND	0.00075	0.0020		mg/L	1	9/29/2016 4:46:32 PM	F37552
Calcium	160	5.0	10		mg/L	10	9/29/2016 4:48:15 PM	F37552
Chromium	ND	0.0018	0.0060		mg/L	1	9/29/2016 4:46:32 PM	F37552
Copper	ND	0.0040	0.0060		mg/L	1	9/29/2016 4:46:32 PM	F37552
Iron	4.7	0.20	0.20	*	mg/L	10	9/29/2016 4:48:15 PM	F37552
Magnesium	45	0.50	1.0		mg/L	1	9/29/2016 4:46:32 PM	F37552
Manganese	3.7	0.0032	0.020	*	mg/L	10	9/29/2016 4:48:15 PM	F37552
Potassium	0.99	0.50	1.0	J	mg/L	1	9/29/2016 4:46:32 PM	F37552
Silver	ND	0.0028	0.0050		mg/L	1	9/29/2016 4:46:32 PM	F37552
Sodium	710	5.0	10		mg/L	10	9/29/2016 4:48:15 PM	F37552
Zinc	0.0030	0.0028	0.010	J	mg/L	1	9/29/2016 4:46:32 PM	F37552
EPA METHOD 200.7: TOTAL METALS							Analyst: ELS	
Barium	2.9	0.0040	0.010	*	mg/L	5	10/3/2016 8:42:48 PM	27665
Cadmium	ND	0.0015	0.0020		mg/L	1	10/3/2016 8:41:03 PM	27665
Chromium	ND	0.0027	0.0060		mg/L	1	10/3/2016 8:41:03 PM	27665
Copper	ND	0.0030	0.0060		mg/L	1	10/3/2016 8:41:03 PM	27665
Iron	7.3	0.20	0.20	*	mg/L	10	10/4/2016 4:41:43 PM	27665
Manganese	4.1	0.0014	0.010	*	mg/L	5	10/3/2016 8:42:48 PM	27665
Silver	ND	0.0015	0.0050		mg/L	1	10/3/2016 8:41:03 PM	27665
Zinc	0.011	0.0027	0.010		mg/L	1	10/3/2016 8:41:03 PM	27665
EPA 200.8: DISSOLVED METALS							Analyst: JLF	
Arsenic	0.014	0.00014	0.0010	*	mg/L	1	9/23/2016 1:07:47 PM	B37462
Lead	0.00018	0.00017	0.00050	J	mg/L	1	9/23/2016 1:07:47 PM	B37462
Selenium	0.0057	0.0021	0.010	J	mg/L	10	9/23/2016 3:20:53 PM	C37462
Uranium	0.0043	0.000051	0.00050		mg/L	1	9/23/2016 1:07:47 PM	B37462

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: DUP04

Project: 2016 3RD QTR (MKTF)

Collection Date: 9/11/2016

Lab ID: 1609601-013

Matrix: AQUEOUS

Received Date: 9/12/2016 3:20:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
200.8 ICPMS METALS:TOTAL							Analyst: JLF	
Arsenic	0.013	0.00021	0.0010	*	mg/L	1	9/26/2016 4:52:54 PM	27665
Lead	0.0011	0.000081	0.00050		mg/L	1	9/26/2016 4:52:54 PM	27665
Selenium	0.0050	0.0019	0.010	J	mg/L	10	9/26/2016 6:49:43 PM	27665
Uranium	0.0064	0.00017	0.00050		mg/L	1	9/26/2016 6:07:32 PM	27665
EPA METHOD 245.1: MERCURY							Analyst: pmf	
Mercury	ND	0.000053	0.00020		mg/L	1	9/23/2016 11:52:15 AM	27664
EPA METHOD 8270C: SEMIVOLATILES							Analyst: DAM	
Acenaphthene	ND	2.6	10		µg/L	1	9/19/2016 2:27:16 PM	27514
Acenaphthylene	ND	2.4	10		µg/L	1	9/19/2016 2:27:16 PM	27514
Aniline	8.6	2.4	10	J	µg/L	1	9/19/2016 2:27:16 PM	27514
Anthracene	ND	2.5	10		µg/L	1	9/19/2016 2:27:16 PM	27514
Azobenzene	ND	2.7	10		µg/L	1	9/19/2016 2:27:16 PM	27514
Benz(a)anthracene	ND	2.6	10		µg/L	1	9/19/2016 2:27:16 PM	27514
Benzo(a)pyrene	ND	2.7	10		µg/L	1	9/19/2016 2:27:16 PM	27514
Benzo(b)fluoranthene	ND	2.9	10		µg/L	1	9/19/2016 2:27:16 PM	27514
Benzo(g,h,i)perylene	ND	2.6	10		µg/L	1	9/19/2016 2:27:16 PM	27514
Benzo(k)fluoranthene	ND	3.0	10		µg/L	1	9/19/2016 2:27:16 PM	27514
Benzoic acid	ND	2.6	20		µg/L	1	9/19/2016 2:27:16 PM	27514
Benzyl alcohol	ND	3.0	10		µg/L	1	9/19/2016 2:27:16 PM	27514
Bis(2-chloroethoxy)methane	ND	2.8	10		µg/L	1	9/19/2016 2:27:16 PM	27514
Bis(2-chloroethyl)ether	ND	2.7	10		µg/L	1	9/19/2016 2:27:16 PM	27514
Bis(2-chloroisopropyl)ether	ND	1.9	10		µg/L	1	9/19/2016 2:27:16 PM	27514
Bis(2-ethylhexyl)phthalate	3.4	2.6	10	J	µg/L	1	9/19/2016 2:27:16 PM	27514
4-Bromophenyl phenyl ether	ND	2.6	10		µg/L	1	9/19/2016 2:27:16 PM	27514
Butyl benzyl phthalate	ND	2.5	10		µg/L	1	9/19/2016 2:27:16 PM	27514
Carbazole	ND	2.3	10		µg/L	1	9/19/2016 2:27:16 PM	27514
4-Chloro-3-methylphenol	ND	2.6	10		µg/L	1	9/19/2016 2:27:16 PM	27514
4-Chloroaniline	ND	2.7	10		µg/L	1	9/19/2016 2:27:16 PM	27514
2-Chloronaphthalene	ND	2.3	10		µg/L	1	9/19/2016 2:27:16 PM	27514
2-Chlorophenol	ND	2.2	10		µg/L	1	9/19/2016 2:27:16 PM	27514
4-Chlorophenyl phenyl ether	ND	2.6	10		µg/L	1	9/19/2016 2:27:16 PM	27514
Chrysene	ND	2.8	10		µg/L	1	9/19/2016 2:27:16 PM	27514
Di-n-butyl phthalate	ND	2.4	10		µg/L	1	9/19/2016 2:27:16 PM	27514
Di-n-octyl phthalate	3.8	2.0	10	J	µg/L	1	9/19/2016 2:27:16 PM	27514
Dibenz(a,h)anthracene	ND	2.7	10		µg/L	1	9/19/2016 2:27:16 PM	27514
Dibenzofuran	ND	2.5	10		µg/L	1	9/19/2016 2:27:16 PM	27514
1,2-Dichlorobenzene	ND	2.3	10		µg/L	1	9/19/2016 2:27:16 PM	27514
1,3-Dichlorobenzene	ND	2.3	10		µg/L	1	9/19/2016 2:27:16 PM	27514

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 1609601

Date Reported: 10/25/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: DUP04

Project: 2016 3RD QTR (MKTF)

Collection Date: 9/11/2016

Lab ID: 1609601-013

Matrix: AQUEOUS

Received Date: 9/12/2016 3:20:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: DAM	
1,4-Dichlorobenzene	ND	2.4	10		µg/L	1	9/19/2016 2:27:16 PM	27514
3,3'-Dichlorobenzidine	ND	2.4	10		µg/L	1	9/19/2016 2:27:16 PM	27514
Diethyl phthalate	ND	2.7	10		µg/L	1	9/19/2016 2:27:16 PM	27514
Dimethyl phthalate	13	2.4	10		µg/L	1	9/19/2016 2:27:16 PM	27514
2,4-Dichlorophenol	ND	2.3	20		µg/L	1	9/19/2016 2:27:16 PM	27514
2,4-Dimethylphenol	44	3.0	10		µg/L	1	9/19/2016 2:27:16 PM	27514
4,6-Dinitro-2-methylphenol	ND	1.8	20		µg/L	1	9/19/2016 2:27:16 PM	27514
2,4-Dinitrophenol	ND	2.8	20		µg/L	1	9/19/2016 2:27:16 PM	27514
2,4-Dinitrotoluene	ND	3.1	10		µg/L	1	9/19/2016 2:27:16 PM	27514
2,6-Dinitrotoluene	ND	2.7	10		µg/L	1	9/19/2016 2:27:16 PM	27514
Fluoranthene	ND	2.6	10		µg/L	1	9/19/2016 2:27:16 PM	27514
Fluorene	ND	2.7	10		µg/L	1	9/19/2016 2:27:16 PM	27514
Hexachlorobenzene	ND	2.6	10		µg/L	1	9/19/2016 2:27:16 PM	27514
Hexachlorobutadiene	ND	2.2	10		µg/L	1	9/19/2016 2:27:16 PM	27514
Hexachlorocyclopentadiene	ND	2.3	10		µg/L	1	9/19/2016 2:27:16 PM	27514
Hexachloroethane	ND	2.4	10		µg/L	1	9/19/2016 2:27:16 PM	27514
Indeno(1,2,3-cd)pyrene	ND	3.0	10		µg/L	1	9/19/2016 2:27:16 PM	27514
Isophorone	ND	2.6	10		µg/L	1	9/19/2016 2:27:16 PM	27514
1-Methylnaphthalene	16	2.9	10		µg/L	1	9/19/2016 2:27:16 PM	27514
2-Methylnaphthalene	9.5	2.9	10	J	µg/L	1	9/19/2016 2:27:16 PM	27514
2-Methylphenol	130	2.5	10		µg/L	1	9/19/2016 2:27:16 PM	27514
3+4-Methylphenol	120	2.3	10		µg/L	1	9/19/2016 2:27:16 PM	27514
N-Nitrosodi-n-propylamine	ND	2.4	10		µg/L	1	9/19/2016 2:27:16 PM	27514
N-Nitrosodimethylamine	ND	2.2	10		µg/L	1	9/19/2016 2:27:16 PM	27514
N-Nitrosodiphenylamine	ND	2.3	10		µg/L	1	9/19/2016 2:27:16 PM	27514
Naphthalene	28	2.6	10		µg/L	1	9/19/2016 2:27:16 PM	27514
2-Nitroaniline	ND	2.8	10		µg/L	1	9/19/2016 2:27:16 PM	27514
3-Nitroaniline	ND	2.9	10		µg/L	1	9/19/2016 2:27:16 PM	27514
4-Nitroaniline	ND	2.6	10		µg/L	1	9/19/2016 2:27:16 PM	27514
Nitrobenzene	ND	2.8	10		µg/L	1	9/19/2016 2:27:16 PM	27514
2-Nitrophenol	ND	2.4	10		µg/L	1	9/19/2016 2:27:16 PM	27514
4-Nitrophenol	ND	2.6	10		µg/L	1	9/19/2016 2:27:16 PM	27514
Pentachlorophenol	2.4	2.3	20	J	µg/L	1	9/19/2016 2:27:16 PM	27514
Phenanthrene	ND	2.6	10		µg/L	1	9/19/2016 2:27:16 PM	27514
Phenol	51	2.0	10		µg/L	1	9/19/2016 2:27:16 PM	27514
Pyrene	3.3	3.1	10	J	µg/L	1	9/19/2016 2:27:16 PM	27514
Pyridine	ND	2.2	10		µg/L	1	9/19/2016 2:27:16 PM	27514
1,2,4-Trichlorobenzene	ND	2.6	10		µg/L	1	9/19/2016 2:27:16 PM	27514
2,4,5-Trichlorophenol	ND	2.2	10		µg/L	1	9/19/2016 2:27:16 PM	27514

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 1609601

Date Reported: 10/25/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: DUP04

Project: 2016 3RD QTR (MKTF)

Collection Date: 9/11/2016

Lab ID: 1609601-013

Matrix: AQUEOUS

Received Date: 9/12/2016 3:20:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: DAM	
2,4,6-Trichlorophenol	ND	2.4	10		µg/L	1	9/19/2016 2:27:16 PM	27514
Surr: 2-Fluorophenol	30.5	0	15-123		%Rec	1	9/19/2016 2:27:16 PM	27514
Surr: Phenol-d5	46.6	0	15-124		%Rec	1	9/19/2016 2:27:16 PM	27514
Surr: 2,4,6-Tribromophenol	79.2	0	18.4-134		%Rec	1	9/19/2016 2:27:16 PM	27514
Surr: Nitrobenzene-d5	73.1	0	28.8-134		%Rec	1	9/19/2016 2:27:16 PM	27514
Surr: 2-Fluorobiphenyl	80.2	0	35.9-125		%Rec	1	9/19/2016 2:27:16 PM	27514
Surr: 4-Terphenyl-d14	50.8	0	15-146		%Rec	1	9/19/2016 2:27:16 PM	27514
EPA METHOD 8260B: VOLATILES							Analyst: DJF	
Benzene	4200	4.8	50		µg/L	50	9/15/2016 1:51:59 PM	W37240
Toluene	4600	5.9	50		µg/L	50	9/15/2016 1:51:59 PM	W37240
Ethylbenzene	500	5.6	50		µg/L	50	9/15/2016 1:51:59 PM	W37240
Methyl tert-butyl ether (MTBE)	73	11	50		µg/L	50	9/15/2016 1:51:59 PM	W37240
1,2,4-Trimethylbenzene	230	5.5	50		µg/L	50	9/15/2016 1:51:59 PM	W37240
1,3,5-Trimethylbenzene	41	5.8	50	J	µg/L	50	9/15/2016 1:51:59 PM	W37240
1,2-Dichloroethane (EDC)	ND	5.8	50		µg/L	50	9/15/2016 1:51:59 PM	W37240
1,2-Dibromoethane (EDB)	ND	5.6	50		µg/L	50	9/15/2016 1:51:59 PM	W37240
Naphthalene	45	4.6	100	J	µg/L	50	9/15/2016 1:51:59 PM	W37240
1-Methylnaphthalene	20	10	200	J	µg/L	50	9/15/2016 1:51:59 PM	W37240
2-Methylnaphthalene	13	7.9	200	J	µg/L	50	9/15/2016 1:51:59 PM	W37240
Acetone	ND	250	500		µg/L	50	9/15/2016 1:51:59 PM	W37240
Bromobenzene	ND	4.9	50		µg/L	50	9/15/2016 1:51:59 PM	W37240
Bromodichloromethane	ND	7.0	50		µg/L	50	9/15/2016 1:51:59 PM	W37240
Bromoform	ND	5.1	50		µg/L	50	9/15/2016 1:51:59 PM	W37240
Bromomethane	ND	39	150		µg/L	50	9/15/2016 1:51:59 PM	W37240
2-Butanone	160	37	500	J	µg/L	50	9/15/2016 1:51:59 PM	W37240
Carbon disulfide	ND	30	500		µg/L	50	9/15/2016 1:51:59 PM	W37240
Carbon Tetrachloride	ND	5.4	50		µg/L	50	9/15/2016 1:51:59 PM	W37240
Chlorobenzene	ND	5.7	50		µg/L	50	9/15/2016 1:51:59 PM	W37240
Chloroethane	ND	9.6	100		µg/L	50	9/15/2016 1:51:59 PM	W37240
Chloroform	ND	4.4	50		µg/L	50	9/15/2016 1:51:59 PM	W37240
Chloromethane	ND	11	150		µg/L	50	9/15/2016 1:51:59 PM	W37240
2-Chlorotoluene	ND	20	50		µg/L	50	9/15/2016 1:51:59 PM	W37240
4-Chlorotoluene	ND	6.4	50		µg/L	50	9/15/2016 1:51:59 PM	W37240
cis-1,2-DCE	ND	6.2	50		µg/L	50	9/15/2016 1:51:59 PM	W37240
cis-1,3-Dichloropropene	ND	5.3	50		µg/L	50	9/15/2016 1:51:59 PM	W37240
1,2-Dibromo-3-chloropropane	ND	12	100		µg/L	50	9/15/2016 1:51:59 PM	W37240
Dibromochloromethane	ND	4.3	50		µg/L	50	9/15/2016 1:51:59 PM	W37240
Dibromomethane	ND	6.0	50		µg/L	50	9/15/2016 1:51:59 PM	W37240
1,2-Dichlorobenzene	ND	20	50		µg/L	50	9/15/2016 1:51:59 PM	W37240

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 1609601

Date Reported: 10/25/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: DUP04

Project: 2016 3RD QTR (MKTF)

Collection Date: 9/11/2016

Lab ID: 1609601-013

Matrix: AQUEOUS

Received Date: 9/12/2016 3:20:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: DJF	
1,3-Dichlorobenzene	ND	7.2	50		µg/L	50	9/15/2016 1:51:59 PM	W37240
1,4-Dichlorobenzene	ND	7.1	50		µg/L	50	9/15/2016 1:51:59 PM	W37240
Dichlorodifluoromethane	ND	18	50		µg/L	50	9/15/2016 1:51:59 PM	W37240
1,1-Dichloroethane	49	5.4	50	J	µg/L	50	9/15/2016 1:51:59 PM	W37240
1,1-Dichloroethene	ND	5.4	50		µg/L	50	9/15/2016 1:51:59 PM	W37240
1,2-Dichloropropane	ND	5.5	50		µg/L	50	9/15/2016 1:51:59 PM	W37240
1,3-Dichloropropane	ND	7.8	50		µg/L	50	9/15/2016 1:51:59 PM	W37240
2,2-Dichloropropane	ND	8.3	100		µg/L	50	9/15/2016 1:51:59 PM	W37240
1,1-Dichloropropene	ND	6.7	50		µg/L	50	9/15/2016 1:51:59 PM	W37240
Hexachlorobutadiene	ND	9.9	50		µg/L	50	9/15/2016 1:51:59 PM	W37240
2-Hexanone	ND	42	500		µg/L	50	9/15/2016 1:51:59 PM	W37240
Isopropylbenzene	17	5.2	50	J	µg/L	50	9/15/2016 1:51:59 PM	W37240
4-Isopropyltoluene	ND	7.0	50		µg/L	50	9/15/2016 1:51:59 PM	W37240
4-Methyl-2-pentanone	34	21	500	J	µg/L	50	9/15/2016 1:51:59 PM	W37240
Methylene Chloride	ND	9.4	150		µg/L	50	9/15/2016 1:51:59 PM	W37240
n-Butylbenzene	ND	8.0	150		µg/L	50	9/15/2016 1:51:59 PM	W37240
n-Propylbenzene	52	6.6	50		µg/L	50	9/15/2016 1:51:59 PM	W37240
sec-Butylbenzene	ND	6.2	50		µg/L	50	9/15/2016 1:51:59 PM	W37240
Styrene	ND	5.5	50		µg/L	50	9/15/2016 1:51:59 PM	W37240
tert-Butylbenzene	ND	5.8	50		µg/L	50	9/15/2016 1:51:59 PM	W37240
1,1,1,2-Tetrachloroethane	ND	5.6	50		µg/L	50	9/15/2016 1:51:59 PM	W37240
1,1,2,2-Tetrachloroethane	ND	6.4	100		µg/L	50	9/15/2016 1:51:59 PM	W37240
Tetrachloroethene (PCE)	ND	7.6	50		µg/L	50	9/15/2016 1:51:59 PM	W37240
trans-1,2-DCE	ND	20	50		µg/L	50	9/15/2016 1:51:59 PM	W37240
trans-1,3-Dichloropropene	ND	5.2	50		µg/L	50	9/15/2016 1:51:59 PM	W37240
1,2,3-Trichlorobenzene	ND	5.6	50		µg/L	50	9/15/2016 1:51:59 PM	W37240
1,2,4-Trichlorobenzene	ND	6.6	50		µg/L	50	9/15/2016 1:51:59 PM	W37240
1,1,1-Trichloroethane	ND	4.6	50		µg/L	50	9/15/2016 1:51:59 PM	W37240
1,1,2-Trichloroethane	ND	6.4	50		µg/L	50	9/15/2016 1:51:59 PM	W37240
Trichloroethene (TCE)	ND	8.8	50		µg/L	50	9/15/2016 1:51:59 PM	W37240
Trichlorofluoromethane	ND	10	50		µg/L	50	9/15/2016 1:51:59 PM	W37240
1,2,3-Trichloropropane	ND	10	100		µg/L	50	9/15/2016 1:51:59 PM	W37240
Vinyl chloride	56	9.8	50		µg/L	50	9/15/2016 1:51:59 PM	W37240
Xylenes, Total	1500	18	75		µg/L	50	9/15/2016 1:51:59 PM	W37240
Surr: 1,2-Dichloroethane-d4	103	0	70-130		%Rec	50	9/15/2016 1:51:59 PM	W37240
Surr: 4-Bromofluorobenzene	93.8	0	70-130		%Rec	50	9/15/2016 1:51:59 PM	W37240
Surr: Dibromofluoromethane	107	0	70-130		%Rec	50	9/15/2016 1:51:59 PM	W37240
Surr: Toluene-d8	94.4	0	70-130		%Rec	50	9/15/2016 1:51:59 PM	W37240

EPA METHOD 8015D: GASOLINE RANGE

Analyst: DJF

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 1609601

Date Reported: 10/25/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: DUP04

Project: 2016 3RD QTR (MKTF)

Collection Date: 9/11/2016

Lab ID: 1609601-013

Matrix: AQUEOUS

Received Date: 9/12/2016 3:20:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: GASOLINE RANGE							Analyst: DJF	
Gasoline Range Organics (GRO)	28	0.75	2.5		mg/L	50	9/15/2016 1:51:59 PM	G37240
Surr: BFB	95.0	0	70-130		%Rec	50	9/15/2016 1:51:59 PM	G37240

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#: 1609601

25-Oct-16

Client: Western Refining Southwest, Gallup

Project: 2016 3RD QTR (MKTF)

Sample ID	MB-F		SampType:	MBLK		TestCode:	EPA Method 200.7: Dissolved Metals			
Client ID:	PBW		Batch ID:	F37552		RunNo:	37552			
Prep Date:			Analysis Date:	9/29/2016		SeqNo:	1169129	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								
Sodium	ND	1.0								
Zinc	ND	0.010								

Sample ID	LCS-F		SampType:	LCS		TestCode:	EPA Method 200.7: Dissolved Metals			
Client ID:	LCSW		Batch ID:	F37552		RunNo:	37552			
Prep Date:			Analysis Date:	9/29/2016		SeqNo:	1169130	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	101	85	115			
Cadmium	0.51	0.0020	0.5000	0	102	85	115			
Calcium	50	1.0	50.00	0	100	85	115			
Chromium	0.49	0.0060	0.5000	0	99.0	85	115			
Copper	0.50	0.0060	0.5000	0	99.9	85	115			
Iron	0.50	0.020	0.5000	0	101	85	115			
Magnesium	50	1.0	50.00	0	100	85	115			
Manganese	0.50	0.0020	0.5000	0	100	85	115			
Potassium	49	1.0	50.00	0	97.1	85	115			
Silver	0.10	0.0050	0.1000	0	103	85	115			
Sodium	49	1.0	50.00	0	98.6	85	115			
Zinc	0.49	0.010	0.5000	0	98.8	85	115			

Sample ID	LLCS-F		SampType:	LCSLL		TestCode:	EPA Method 200.7: Dissolved Metals			
Client ID:	BatchQC		Batch ID:	F37552		RunNo:	37552			
Prep Date:			Analysis Date:	9/29/2016		SeqNo:	1169131	Units:	mg/L	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Cadmium	0.0017	0.0020	0.002000	0	83.5	50	150			J
Calcium	0.51	1.0	0.5000	0	102	50	150			J
Chromium	0.0054	0.0060	0.006000	0	90.8	50	150			J
Copper	0.0061	0.0060	0.006000	0	101	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#: 1609601

25-Oct-16

Client: Western Refining Southwest, Gallup

Project: 2016 3RD QTR (MKTF)

Sample ID	LLLCS-F	SampType: LCSLL			TestCode: EPA Method 200.7: Dissolved Metals					
Client ID:	BatchQC	Batch ID: F37552			RunNo: 37552					
Prep Date:	Analysis Date: 9/29/2016			SeqNo: 1169131		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	114	50	150			
Magnesium	0.52	1.0	0.5000	0	105	50	150			J
Manganese	0.0020	0.0020	0.002000	0	102	50	150			
Silver	0.0051	0.0050	0.005000	0	103	50	150			
Sodium	0.50	1.0	0.5000	0	100	50	150			J
Zinc	0.0055	0.010	0.005000	0	110	50	150			J

Sample ID	LLLCS-F			SampType:	LCSLL			TestCode:	EPA Method 200.7: Dissolved Metals			
Client ID:	BatchQC			Batch ID:	F37552			RunNo:	37552			
Prep Date:				Analysis Date:	9/29/2016			SeqNo:	1169133		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	91.5	50	150			J		
Potassium	0.52	1.0	0.5000	0	103	50	150			J		

Sample ID	MB-B		SampType: MBLK		TestCode: EPA Method 200.7: Dissolved Metals					
Client ID:	PBW		Batch ID: B37643		RunNo: 37643					
Prep Date:			Analysis Date: 10/3/2016		SeqNo: 1171590		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Iron	ND	0.020								

Sample ID	LCS-B		SampType: LCS		TestCode: EPA Method 200.7: Dissolved Metals					
Client ID:	LCSW		Batch ID: B37643		RunNo: 37643					
Prep Date:			Analysis Date: 10/3/2016		SeqNo: 1171591		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	101	85	115			

Sample ID	LLLCS-B		SampType: LCSLL		TestCode: EPA Method 200.7: Dissolved Metals					
Client ID:	BatchQC		Batch ID: B37643		RunNo: 37643					
Prep Date:			Analysis Date: 10/3/2016		SeqNo: 1171592		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Iron	0.022	0.020	0.02000	0	110	50	150			

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#: 1609601

25-Oct-16

Client: Western Refining Southwest, Gallup

Project: 2016 3RD QTR (MKTF)

Sample ID	MB-27665		SampType: MBLK		TestCode: EPA Method 200.7: Total Metals					
Client ID:	PBW		Batch ID: 27665		RunNo: 37552					
Prep Date:	9/22/2016		Analysis Date: 9/29/2016		SeqNo: 1169287		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chromium	ND	0.0060								
Copper	ND	0.0060								
Iron	ND	0.020								
Manganese	0.00046	0.0020								J
Silver	ND	0.0050								
Zinc	ND	0.010								

Sample ID	LCS-27665		SampType: LCS		TestCode: EPA Method 200.7: Total Metals					
Client ID:	LCSW		Batch ID: 27665		RunNo: 37552					
Prep Date:	9/22/2016		Analysis Date: 9/29/2016		SeqNo: 1169288		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chromium	0.49	0.0060	0.5000	0	98.6	85	115			
Copper	0.49	0.0060	0.5000	0	98.9	85	115			
Iron	0.50	0.020	0.5000	0	99.2	85	115			
Manganese	0.50	0.0020	0.5000	0	99.3	85	115			
Silver	0.10	0.0050	0.1000	0	101	85	115			
Zinc	0.49	0.010	0.5000	0	98.0	85	115			

Sample ID	LLCS-27665		SampType: LCSLL		TestCode: EPA Method 200.7: Total Metals						
Client ID:	BatchQC		Batch ID: 27665		RunNo: 37552						
Prep Date:	9/22/2016		Analysis Date: 9/29/2016		SeqNo: 1169289		Units: mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Chromium	0.0053	0.0060	0.006000	0	87.7	50	150			J	
Copper	0.0059	0.0060	0.006000	0	98.3	50	150			J	
Iron	0.023	0.020	0.02000	0	114	50	150				
Manganese	0.0024	0.0020	0.002000	0	122	50	150				
Silver	0.0053	0.0050	0.005000	0	107	50	150				
Zinc	0.0059	0.010	0.005000	0	118	50	150			J	

Sample ID	MB-27665		SampType: MBLK		TestCode: EPA Method 200.7: Total Metals					
Client ID:	PBW		Batch ID: 27665		RunNo: 37609					
Prep Date:	9/22/2016		Analysis Date: 9/30/2016		SeqNo: 1170444		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								

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#: 1609601

25-Oct-16

Client: Western Refining Southwest, Gallup

Project: 2016 3RD QTR (MKTF)

Sample ID	LCS-27665			SampType:	LCS			TestCode:	EPA Method 200.7: Total Metals		
Client ID:	LCSW			Batch ID:	27665			RunNo:	37609		
Prep Date:	9/22/2016			Analysis Date:	9/30/2016			SeqNo:	1170445		
								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	98.6	85	115				
Cadmium	0.50	0.0020	0.5000	0	99.4	85	115				

Sample ID	LLCS-27665			SampType:	LCSLL			TestCode:	EPA Method 200.7: Total Metals		
Client ID:	BatchQC			Batch ID:	27665			RunNo:	37609		
Prep Date:	9/22/2016			Analysis Date:	9/30/2016			SeqNo:	1170446		
								Units:	mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Barium	0.0013	0.0020	0.002000	0	63.5	50	150			J	
Cadmium	0.0022	0.0020	0.002000	0	108	50	150				

Sample ID	MB-27933			SampType:	MBLK			TestCode:	EPA Method 200.7: Total Metals		
Client ID:	PBW			Batch ID:	27933			RunNo:	37917		
Prep Date:	10/6/2016			Analysis Date:	10/12/2016			SeqNo:	1181446		
								Units:	mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Copper	0.0040	0.0060								J	

Sample ID	LLCS-27933			SampType:	LCSLL			TestCode:	EPA Method 200.7: Total Metals		
Client ID:	BatchQC			Batch ID:	27933			RunNo:	37917		
Prep Date:	10/6/2016			Analysis Date:	10/12/2016			SeqNo:	1181447		
								Units:	mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Copper	0.0076	0.0060	0.006000	0	127	50	150				

Sample ID	LCS-27933			SampType:	LCS			TestCode:	EPA Method 200.7: Total Metals		
Client ID:	LCSW			Batch ID:	27933			RunNo:	37917		
Prep Date:	10/6/2016			Analysis Date:	10/12/2016			SeqNo:	1181448		
								Units:	mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Copper	0.56	0.0060	0.5000	0	113	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#: 1609601

25-Oct-16

Client: Western Refining Southwest, Gallup

Project: 2016 3RD QTR (MKTF)

Sample ID LCS	SampType: LCS		TestCode: EPA 200.8: Dissolved Metals							
Client ID: LCSW	Batch ID: A37462		RunNo: 37462							
Prep Date:	Analysis Date: 9/23/2016		SeqNo: 1164727		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	92.9	85	115			
Lead	0.012	0.00050	0.01250	0	96.1	85	115			
Selenium	0.023	0.0010	0.02500	0	91.2	85	115			
Uranium	0.012	0.00050	0.01250	0	93.0	85	115			

Sample ID LCS	SampType: LCS		TestCode: EPA 200.8: Dissolved Metals							
Client ID: LCSW	Batch ID: B37462		RunNo: 37462							
Prep Date:	Analysis Date: 9/23/2016		SeqNo: 1164728		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			
Lead	0.012	0.00050	0.01250	0	97.7	85	115			
Selenium	0.024	0.0010	0.02500	0	95.2	85	115			
Uranium	0.012	0.00050	0.01250	0	94.9	85	115			

Sample ID LCS	SampType: LCS		TestCode: EPA 200.8: Dissolved Metals							
Client ID: LCSW	Batch ID: C37462		RunNo: 37462							
Prep Date:	Analysis Date: 9/23/2016		SeqNo: 1164729		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	95.1	85	115			
Selenium	0.024	0.0010	0.02500	0	94.2	85	115			
Uranium	0.012	0.00050	0.01250	0	96.0	85	115			

Sample ID LLCS	SampType: LCSLL		TestCode: EPA 200.8: Dissolved Metals							
Client ID: BatchQC	Batch ID: A37462		RunNo: 37462							
Prep Date:	Analysis Date: 9/23/2016		SeqNo: 1164730		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.00089	0.0010	0.001000	0	89.2	50	150			J
Lead	0.00050	0.00050	0.0005000	0	99.9	50	150			J
Selenium	0.00087	0.0010	0.001000	0	87.1	50	150			J
Uranium	0.00046	0.00050	0.0005000	0	92.8	50	150			J

Sample ID LLCS	SampType: LCSLL		TestCode: EPA 200.8: Dissolved Metals							
Client ID: BatchQC	Batch ID: B37462		RunNo: 37462							
Prep Date:	Analysis Date: 9/23/2016		SeqNo: 1164731		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			

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#: 1609601

25-Oct-16

Client: Western Refining Southwest, Gallup

Project: 2016 3RD QTR (MKTF)

Sample ID	LLLCS		SampType: LCSLL		TestCode: EPA 200.8: Dissolved Metals					
Client ID:	BatchQC		Batch ID: B37462		RunNo: 37462					
Prep Date:			Analysis Date: 9/23/2016		SeqNo: 1164731		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	0.00051	0.00050	0.0005000	0	101	50	150			
Selenium	0.0011	0.0010	0.001000	0	112	50	150			
Uranium	0.00048	0.00050	0.0005000	0	95.2	50	150			J

Sample ID	LLLCS		SampType: LCSLL		TestCode: EPA 200.8: Dissolved Metals					
Client ID:	BatchQC		Batch ID: C37462		RunNo: 37462					
Prep Date:			Analysis Date: 9/23/2016		SeqNo: 1164732		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.00098	0.0010	0.001000	0	97.6	50	150			J
Selenium	0.0010	0.0010	0.001000	0	103	50	150			
Uranium	0.00049	0.00050	0.0005000	0	97.6	50	150			J

Sample ID	MB		SampType: MBLK		TestCode: EPA 200.8: Dissolved Metals					
Client ID:	PBW		Batch ID: A37462		RunNo: 37462					
Prep Date:			Analysis Date: 9/23/2016		SeqNo: 1164733		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: B37462		RunNo: 37462					
Prep Date:			Analysis Date: 9/23/2016		SeqNo: 1164734		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: C37462		RunNo: 37462					
Prep Date:			Analysis Date: 9/23/2016		SeqNo: 1164735		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#: 1609601

25-Oct-16

Client: Western Refining Southwest, Gallup

Project: 2016 3RD QTR (MKTF)

Sample ID	MB	SampType:	MBLK	TestCode:	EPA 200.8: Dissolved Metals					
Client ID:	PBW	Batch ID:	C37462	RunNo:	37462					
Prep Date:		Analysis Date:	9/23/2016	SeqNo:	1164735	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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#: 1609601

25-Oct-16

Client: Western Refining Southwest, Gallup

Project: 2016 3RD QTR (MKTF)

Sample ID	MB-27665		SampType:	MBLK		TestCode:	200.8 ICPMS Metals:Total			
Client ID:	PBW		Batch ID:	27665		RunNo:	37474			
Prep Date:	9/22/2016		Analysis Date:	9/26/2016		SeqNo:	1165265	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-27665		SampType:	LCS		TestCode:	200.8 ICPMS Metals:Total			
Client ID:	LCSW		Batch ID:	27665		RunNo:	37474			
Prep Date:	9/22/2016		Analysis Date:	9/26/2016		SeqNo:	1165267	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	101	85	115			
Lead	0.013	0.00050	0.01250	0	102	85	115			
Selenium	0.024	0.0010	0.02500	0	97.8	85	115			
Uranium	0.012	0.00050	0.01250	0	99.9	85	115			

Sample ID	MSLLLCS-27665		SampType:	LCSLL		TestCode:	200.8 ICPMS Metals:Total			
Client ID:	BatchQC		Batch ID:	27665		RunNo:	37474			
Prep Date:	9/22/2016		Analysis Date:	9/26/2016		SeqNo:	1165269	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	109	50	150			
Lead	0.00052	0.00050	0.0005000	0	105	50	150			
Selenium	0.00097	0.0010	0.001000	0	97.1	50	150			J
Uranium	0.00051	0.00050	0.0005000	0	103	50	150			

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#: 1609601

25-Oct-16

Client: Western Refining Southwest, Gallup

Project: 2016 3RD QTR (MKTF)

Sample ID	MB-27664		SampType: MBLK		TestCode: EPA Method 245.1: Mercury					
Client ID:	PBW		Batch ID: 27664		RunNo: 37436					
Prep Date:	9/22/2016		Analysis Date: 9/23/2016		SeqNo: 1163804		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercurv	ND	0.00020								

Sample ID	LCS-27664		SampType: LCS		TestCode: EPA Method 245.1: Mercury					
Client ID:	LCSW		Batch ID: 27664		RunNo: 37436					
Prep Date:	9/22/2016		Analysis Date: 9/23/2016		SeqNo: 1163806		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0053	0.00020	0.005000	0	106	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#: 1609601

25-Oct-16

Client: Western Refining Southwest, Gallup

Project: 2016 3RD QTR (MKTF)

Sample ID MB	SampType: MBLK		TestCode: EPA Method 300.0: Anions							
Client ID: PBW	Batch ID: R37171		RunNo: 37171							
Prep Date:	Analysis Date: 9/13/2016		SeqNo: 1153024		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)	0.27	0.50								J
Sulfate	ND	0.50								

Sample ID LCS	SampType: LCS		TestCode: EPA Method 300.0: Anions							
Client ID: LCSW	Batch ID: R37171		RunNo: 37171							
Prep Date:	Analysis Date: 9/13/2016		SeqNo: 1153025		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.51	0.10	0.5000	0	102	90	110			
Chloride	4.7	0.50	5.000	0	94.6	90	110			
Bromide	2.4	0.10	2.500	0	96.0	90	110			
Phosphorus, Orthophosphate (As P)	4.7	0.50	5.000	0	94.2	90	110			
Sulfate	9.8	0.50	10.00	0	97.9	90	110			

Sample ID MB	SampType: mblk		TestCode: EPA Method 300.0: Anions							
Client ID: PBW	Batch ID: R37299		RunNo: 37299							
Prep Date:	Analysis Date: 9/18/2016		SeqNo: 1158227		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								
Nitrate+Nitrite as N	ND	0.20								

Sample ID LCS	SampType: lcs		TestCode: EPA Method 300.0: Anions							
Client ID: LCSW	Batch ID: R37299		RunNo: 37299							
Prep Date:	Analysis Date: 9/18/2016		SeqNo: 1158228		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.54	0.10	0.5000	0	108	90	110			
Chloride	4.8	0.50	5.000	0	95.7	90	110			
Bromide	2.4	0.10	2.500	0	96.2	90	110			
Phosphorus, Orthophosphate (As P)	5.0	0.50	5.000	0	99.4	90	110			
Sulfate	9.7	0.50	10.00	0	97.0	90	110			
Nitrate+Nitrite as N	3.4	0.20	3.500	0	98.4	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#: 1609601

25-Oct-16

Client: Western Refining Southwest, Gallup

Project: 2016 3RD QTR (MKTF)

Sample ID	1609601-004DMS		SampType: ms		TestCode: EPA Method 300.0: Anions					
Client ID:	MKTF-11		Batch ID: R37299		RunNo: 37299					
Prep Date:			Analysis Date: 9/18/2016		SeqNo: 1158230		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sulfate	11	0.50	10.00	2.213	89.5	83	118			

Sample ID	1609601-004DMSD		SampType:	msd		TestCode:	EPA Method 300.0: Anions				
Client ID:	MKTF-11		Batch ID:	R37299		RunNo:	37299				
Prep Date:			Analysis Date:	9/18/2016		SeqNo:	1158231		Units:	mg/L	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Sulfate	11	0.50	10.00	2.213	88.9	83	118	0.566	20		

Sample ID	MB	SampType: mblk		TestCode: EPA Method 300.0: Anions						
Client ID:	PBW	Batch ID: R37469		RunNo: 37469						
Prep Date:		Analysis Date: 9/23/2016		SeqNo: 1165088		Units: mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								
Nitrate+Nitrite as N	ND	0.20								

Sample ID	LCS		SampType: lcs		TestCode: EPA Method 300.0: Anions					
Client ID:	LCSW		Batch ID: R37469		RunNo: 37469					
Prep Date:			Analysis Date: 9/23/2016		SeqNo: 1165089		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.9	0.50	5.000	0	98.6	90	110			
Nitrate+Nitrite as N	3.6	0.20	3.500	0	102	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#: 1609601

25-Oct-16

Client: Western Refining Southwest, Gallup

Project: 2016 3RD QTR (MKTF)

Sample ID LCS-27491	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range						
Client ID: LCSW	Batch ID: 27491			RunNo: 37168						
Prep Date: 9/14/2016	Analysis Date: 9/14/2016			SeqNo: 1153596		Units: mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	6.1	1.0	5.000	0	121	63.2	155			
Surr: DNOP	0.56		0.5000		111	77.1	144			

Sample ID MB-27491	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range						
Client ID: PBW	Batch ID: 27491			RunNo: 37168						
Prep Date: 9/14/2016	Analysis Date: 9/14/2016			SeqNo: 1153597		Units: mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	1.0								
Motor Oil Range Organics (MRO)	ND	5.0								
Surr: DNOP	1.1		1.000		111	77.1	144			

Sample ID 1609601-001BMS	SampType: MS			TestCode: EPA Method 8015M/D: Diesel Range						
Client ID: MKTF-21	Batch ID: 27491			RunNo: 37169						
Prep Date: 9/14/2016	Analysis Date: 9/14/2016			SeqNo: 1153628		Units: mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	9.2	1.0	5.000	3.905	106	79.6	148			
Surr: DNOP	0.62		0.5000		124	77.1	144			

Sample ID 1609601-001BMSD	SampType: MSD			TestCode: EPA Method 8015M/D: Diesel Range						
Client ID: MKTF-21	Batch ID: 27491			RunNo: 37169						
Prep Date: 9/14/2016	Analysis Date: 9/14/2016			SeqNo: 1154006		Units: mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	9.2	1.0	5.000	3.905	105	79.6	148	0.664	20	
Surr: DNOP	0.61		0.5000		121	77.1	144	0	0	

Sample ID LCS-27563	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range						
Client ID: LCSW	Batch ID: 27563			RunNo: 37287						
Prep Date: 9/19/2016	Analysis Date: 9/19/2016			SeqNo: 1158082		Units: mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	6.0	1.0	5.000	0	120	63.2	155			
Surr: DNOP	0.61		0.5000		123	77.1	144			

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#: 1609601

25-Oct-16

Client: Western Refining Southwest, Gallup

Project: 2016 3RD QTR (MKTF)

Sample ID	MB-27563		SampType:	MBLK		TestCode:	EPA Method 8015M/D: Diesel Range			
Client ID:	PBW		Batch ID:	27563		RunNo:	37287			
Prep Date:	9/19/2016		Analysis Date:	9/19/2016		SeqNo:	1158083	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		120	77.1	144			

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#: 1609601

25-Oct-16

Client: Western Refining Southwest, Gallup

Project: 2016 3RD QTR (MKTF)

Sample ID	rb	SampType: MBLK			TestCode: EPA Method 8260B: VOLATILES					
Client ID:	PBW	Batch ID: W37240			RunNo: 37240					
Prep Date:		Analysis Date: 9/15/2016			SeqNo: 1155809	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#: 1609601

25-Oct-16

Client: Western Refining Southwest, Gallup

Project: 2016 3RD QTR (MKTF)

Sample ID rb	SampType: MBLK			TestCode: EPA Method 8260B: VOLATILES						
Client ID: PBW	Batch ID: W37240			RunNo: 37240						
Prep Date:	Analysis Date: 9/15/2016			SeqNo: 1155809		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	9.7		10.00		97.3	70	130			
Surr: 4-Bromofluorobenzene	9.5		10.00		94.9	70	130			
Surr: Dibromofluoromethane	11		10.00		108	70	130			
Surr: Toluene-d8	9.4		10.00		94.5	70	130			

Sample ID 100ng lcs	SampType: LCS			TestCode: EPA Method 8260B: VOLATILES						
Client ID: LCSW	Batch ID: W37240			RunNo: 37240						
Prep Date:	Analysis Date: 9/15/2016			SeqNo: 1155810		Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	22	1.0	20.00	0	108	70	130			
Toluene	20	1.0	20.00	0	98.1	70	130			
Chlorobenzene	19	1.0	20.00	0	95.5	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#: 1609601

25-Oct-16

Client: Western Refining Southwest, Gallup

Project: 2016 3RD QTR (MKTF)

Sample ID	100ng lcs	SampType: LCS			TestCode: EPA Method 8260B: VOLATILES					
Client ID:	LCSW	Batch ID: W37240			RunNo: 37240					
Prep Date:		Analysis Date: 9/15/2016			SeqNo: 1155810		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	96.9	70	130			
Trichloroethene (TCE)	20	1.0	20.00	0	102	70	130			
Surr: 1,2-Dichloroethane-d4	9.9		10.00		99.1	70	130			
Surr: 4-Bromofluorobenzene	9.5		10.00		95.3	70	130			
Surr: Dibromofluoromethane	10		10.00		104	70	130			
Surr: Toluene-d8	9.5		10.00		95.0	70	130			

Sample ID	1609601-002a ms	SampType: MS			TestCode: EPA Method 8260B: VOLATILES					
Client ID:	MKTF-20	Batch ID: W37240			RunNo: 37240					
Prep Date:		Analysis Date: 9/15/2016			SeqNo: 1155815		Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19000	100	2000	17980	56.2	70	130			ES
Toluene	2300	100	2000	481.3	93.4	70	130			
Chlorobenzene	1800	100	2000	0	90.4	70	130			
1,1-Dichloroethene	1900	100	2000	0	93.5	70	130			
Trichloroethene (TCE)	1900	100	2000	0	94.9	70	130			
Surr: 1,2-Dichloroethane-d4	970		1000		97.2	70	130			
Surr: 4-Bromofluorobenzene	940		1000		93.8	70	130			
Surr: Dibromofluoromethane	980		1000		98.4	70	130			
Surr: Toluene-d8	920		1000		91.7	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#: 1609601

25-Oct-16

Client: Western Refining Southwest, Gallup

Project: 2016 3RD QTR (MKTF)

Sample ID	mb-27489		SampType: MBLK		TestCode: EPA Method 8270C: Semivolatiles					
Client ID:	PBW		Batch ID: 27489		RunNo: 37269					
Prep Date:	9/14/2016		Analysis Date: 9/16/2016		SeqNo: 1157087		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	6.6	20								J
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	5.6	10								J
Diethyl phthalate	ND	10								
Dimethyl phthalate	3.0	10								J
2,4-Dichlorophenol	ND	20								
2,4-Dimethylphenol	ND	10								
4,6-Dinitro-2-methylphenol	ND	20								
2,4-Dinitrophenol	7.9	20								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#: 1609601

25-Oct-16

Client: Western Refining Southwest, Gallup

Project: 2016 3RD QTR (MKTF)

Sample ID	mb-27489		SampType: MBLK		TestCode: EPA Method 8270C: Semivolatiles					
Client ID:	PBW		Batch ID: 27489		RunNo: 37269					
Prep Date:	9/14/2016		Analysis Date: 9/16/2016		SeqNo: 1157087		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	2.9	10								J
Pentachlorophenol	ND	20								
Phenanthrene	ND	10								
Phenol	ND	10								
Pyrene	ND	10								
Pyridine	2.5	10								J
1,2,4-Trichlorobenzene	ND	10								
2,4,5-Trichlorophenol	ND	10								
2,4,6-Trichlorophenol	ND	10								
Surr: 2-Fluorophenol	96		200.0		48.1	15	123			
Surr: Phenol-d5	82		200.0		40.8	4.13	124			
Surr: 2,4,6-Tribromophenol	140		200.0		69.0	18.4	134			
Surr: Nitrobenzene-d5	65		100.0		64.9	28.8	134			
Surr: 2-Fluorobiphenyl	57		100.0		57.0	35.9	125			
Surr: 4-Terphenyl-d14	58		100.0		58.2	15	146			

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#: 1609601

25-Oct-16

Client: Western Refining Southwest, Gallup

Project: 2016 3RD QTR (MKTF)

Sample ID	mb-27514		SampType: MBLK		TestCode: EPA Method 8270C: Semivolatiles					
Client ID:	PBW		Batch ID: 27514		RunNo: 37269					
Prep Date:	9/15/2016		Analysis Date: 9/16/2016		SeqNo: 1157088		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	7.8	20								J
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	5.0	10								J
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	3.5	10								J
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	3.1	10								J
2,4-Dichlorophenol	ND	20								
2,4-Dimethylphenol	ND	10								
4,6-Dinitro-2-methylphenol	ND	20								
2,4-Dinitrophenol	7.9	20								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#: 1609601

25-Oct-16

Client: Western Refining Southwest, Gallup

Project: 2016 3RD QTR (MKTF)

Sample ID	mb-27514		SampType: MBLK		TestCode: EPA Method 8270C: Semivolatiles					
Client ID:	PBW		Batch ID: 27514		RunNo: 37269					
Prep Date:	9/15/2016		Analysis Date: 9/16/2016		SeqNo: 1157088		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	2.5	10								J
1,2,4-Trichlorobenzene	ND	10								
2,4,5-Trichlorophenol	ND	10								
2,4,6-Trichlorophenol	ND	10								
Surr: 2-Fluorophenol	130		200.0		64.9	15	123			
Surr: Phenol-d5	100		200.0		52.4	4.13	124			
Surr: 2,4,6-Tribromophenol	220		200.0		108	18.4	134			
Surr: Nitrobenzene-d5	85		100.0		84.6	28.8	134			
Surr: 2-Fluorobiphenyl	88		100.0		88.2	35.9	125			
Surr: 4-Terphenyl-d14	58		100.0		58.3	15	146			

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#: 1609601

25-Oct-16

Client: Western Refining Southwest, Gallup

Project: 2016 3RD QTR (MKTF)

Sample ID	Ics-27489		SampType: LCS		TestCode: EPA Method 8270C: Semivolatiles						
Client ID:	LCSW		Batch ID: 27489		RunNo: 37269						
Prep Date:	9/14/2016		Analysis Date: 9/16/2016		SeqNo: 1157090		Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Acenaphthene	72	10	100.0	0	71.6	35	113				
4-Chloro-3-methylphenol	140	10	200.0	0	71.2	40.7	114				
2-Chlorophenol	140	10	200.0	0	70.9	37.6	113				
1,4-Dichlorobenzene	56	10	100.0	0	56.2	37.7	106				
2,4-Dinitrotoluene	67	10	100.0	0	67.2	37	91				
N-Nitrosodi-n-propylamine	73	10	100.0	0	72.5	45.4	105				
4-Nitrophenol	110	10	200.0	0	52.9	33.4	104				
Pentachlorophenol	120	20	200.0	0	58.0	29.5	94.9				
Phenol	110	10	200.0	0	57.3	30.6	119				
Pyrene	62	10	100.0	0	62.4	26.2	120				
1,2,4-Trichlorobenzene	62	10	100.0	0	62.2	39.9	125				
Surr: 2-Fluorophenol	120		200.0		60.1	15	123				
Surr: Phenol-d5	130		200.0		63.9	4.13	124				
Surr: 2,4,6-Tribromophenol	150		200.0		74.4	18.4	134				
Surr: Nitrobenzene-d5	70		100.0		69.6	28.8	134				
Surr: 2-Fluorobiphenyl	67		100.0		67.2	35.9	125				
Surr: 4-Terphenyl-d14	48		100.0		48.4	15	146				

Sample ID	Ics-27514		SampType: LCS		TestCode: EPA Method 8270C: Semivolatiles					
Client ID:	LCSW		Batch ID: 27514		RunNo: 37269					
Prep Date:	9/15/2016		Analysis Date: 9/16/2016		SeqNo: 1157091		Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	72	10	100.0	0	71.6	35	113			
4-Chloro-3-methylphenol	170	10	200.0	0	85.6	40.7	114			
2-Chlorophenol	160	10	200.0	0	78.1	37.6	113			
1,4-Dichlorobenzene	64	10	100.0	0	63.7	37.7	106			
2,4-Dinitrotoluene	75	10	100.0	0	75.2	37	91			
N-Nitrosodi-n-propylamine	84	10	100.0	0	84.0	45.4	105			
4-Nitrophenol	120	10	200.0	0	58.7	33.4	104			
Pentachlorophenol	140	20	200.0	0	69.0	29.5	94.9			
Phenol	130	10	200.0	0	64.0	30.6	119			
Pyrene	70	10	100.0	0	69.8	26.2	120			
1,2,4-Trichlorobenzene	74	10	100.0	0	73.8	39.9	125			
Surr: 2-Fluorophenol	130		200.0		66.0	15	123			
Surr: Phenol-d5	140		200.0		69.3	4.13	124			
Surr: 2,4,6-Tribromophenol	180		200.0		89.4	18.4	134			
Surr: Nitrobenzene-d5	79		100.0		79.4	28.8	134			
Surr: 2-Fluorobiphenyl	77		100.0		76.8	35.9	125			

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#: 1609601

25-Oct-16

Client: Western Refining Southwest, Gallup

Project: 2016 3RD QTR (MKTF)

Sample ID	Ics-27514		SampType: LCS		TestCode: EPA Method 8270C: Semivolatiles					
Client ID:	LCSW		Batch ID: 27514		RunNo: 37269					
Prep Date:	9/15/2016		Analysis Date: 9/16/2016		SeqNo: 1157091		Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Terphenyl-d14	56		100.0		55.7	15	146			

Sample ID	1609601-005cms		SampType: MS		TestCode: EPA Method 8270C: Semivolatiles					
Client ID:	MKTF-04		Batch ID: 27514		RunNo: 37278					
Prep Date:	9/15/2016		Analysis Date: 9/17/2016		SeqNo: 1157531		Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	67	10	100.0	4.900	61.8	27.6	123			
4-Chloro-3-methylphenol	140	10	200.0	0	71.3	29.3	126			
2-Chlorophenol	130	10	200.0	0	66.0	15	133			
1,4-Dichlorobenzene	55	10	100.0	0	55.4	17.6	127			
2,4-Dinitrotoluene	64	10	100.0	0	64.1	38.9	98.5			
N-Nitrosodi-n-propylamine	69	10	100.0	0	68.9	25.9	131			
4-Nitrophenol	28	10	200.0	0	14.2	15	102			S
Pentachlorophenol	120	20	200.0	0	57.6	15	120			
Phenol	75	10	200.0	3.700	35.7	15	100			
Pyrene	67	10	100.0	3.260	63.9	22.8	126			
1,2,4-Trichlorobenzene	60	10	100.0	0	60.1	15	143			
Surr: 2-Fluorophenol	81		200.0		40.6	15	123			
Surr: Phenol-d5	75		200.0		37.5	4.13	124			
Surr: 2,4,6-Tribromophenol	150		200.0		75.0	18.4	134			
Surr: Nitrobenzene-d5	65		100.0		64.7	28.8	134			
Surr: 2-Fluorobiphenyl	65		100.0		65.0	35.9	125			
Surr: 4-Terphenyl-d14	45		100.0		44.7	15	146			

Sample ID	1609601-005cmsd	SampType: MSD			TestCode: EPA Method 8270C: Semivolatiles					
Client ID:	MKTF-04	Batch ID: 27514			RunNo: 37278					
Prep Date:	9/15/2016	Analysis Date: 9/17/2016			SeqNo: 1157533		Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	95	10	100.0	4.900	89.9	27.6	123	34.8	31.3	R
4-Chloro-3-methylphenol	190	10	200.0	0	96.0	29.3	126	29.6	29	R
2-Chlorophenol	170	10	200.0	0	84.0	15	133	24.0	28.4	
1,4-Dichlorobenzene	73	10	100.0	0	73.0	17.6	127	27.5	28.2	
2,4-Dinitrotoluene	91	10	100.0	0	90.8	38.9	98.5	34.5	22.9	R
N-Nitrosodi-n-propylamine	94	10	100.0	0	94.5	25.9	131	31.3	28.8	R
4-Nitrophenol	33	10	200.0	0	16.4	15	102	14.9	41.5	
Pentachlorophenol	140	20	200.0	0	70.6	15	120	20.4	45.1	
Phenol	100	10	200.0	3.700	48.5	15	100	29.2	33.9	
Pyrene	89	10	100.0	3.260	86.0	22.8	126	28.3	33.6	

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#: 1609601

25-Oct-16

Client: Western Refining Southwest, Gallup

Project: 2016 3RD QTR (MKTF)

Sample ID	1609601-005cmsd	SampType:	MSD	TestCode:	EPA Method 8270C: Semivolatiles						
Client ID:	MKTF-04	Batch ID:	27514	RunNo:	37278						
Prep Date:	9/15/2016	Analysis Date:	9/17/2016	SeqNo:	1157533	Units:	µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
1,2,4-Trichlorobenzene	82	10	100.0	0	82.3	15	143	31.1	28.2	R	
Surr: 2-Fluorophenol	97		200.0		48.6	15	123	0	0		
Surr: Phenol-d5	100		200.0		50.0	4.13	124	0	0		
Surr: 2,4,6-Tribromophenol	200		200.0		99.9	18.4	134	0	0		
Surr: Nitrobenzene-d5	87		100.0		86.6	28.8	134	0	0		
Surr: 2-Fluorobiphenyl	88		100.0		87.9	35.9	125	0	0		
Surr: 4-Terphenyl-d14	58		100.0		58.0	15	146	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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1609601

25-Oct-16

Client: Western Refining Southwest, Gallup

Project: 2016 3RD QTR (MKTF)

Sample ID rb	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBW	Batch ID: G37240			RunNo: 37240						
Prep Date:	Analysis Date: 9/15/2016			SeqNo: 1155943			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	9.6		10.00		95.5	70	130			

Sample ID 2.5ug gro lcs	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSW	Batch ID: G37240			RunNo: 37240						
Prep Date:	Analysis Date: 9/15/2016			SeqNo: 1155944			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	97.2	75.4	118			
Surr: BFB	9.7		10.00		96.7	70	130			

Sample ID 1609601-001a ms	SampType: MS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: MKTF-21	Batch ID: G37240			RunNo: 37240						
Prep Date:	Analysis Date: 9/15/2016			SeqNo: 1157437			Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	48	2.5	25.00	27.55	83.7	53.8	128			
Surr: BFB	480		500.0		96.4	70	130			

Sample ID 1609601-001a msd	SampType: MSD			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: MKTF-21	Batch ID: G37240			RunNo: 37240						
Prep Date:	Analysis Date: 9/15/2016			SeqNo: 1157438			Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	56	2.5	25.00	27.55	112	53.8	128	13.6	20	
Surr: BFB	490		500.0		97.2	70	130	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: 1609601

RcptNo: 1

Received by/date:

Logged By: Ashley Gallegos

9/12/2016 3:20:00 PM

Completed By: Ashley Gallegos

9/13/2016 10:50:57 AM

Reviewed By:

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° 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:

36
<2 or >12 unless noted

Adjusted?

yes

Checked by:

JC

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:

for metals analysis, added 1ML HNO₃ to -004F, -006F, -008F, and -013F

18. Cooler Information

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

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request	
BTEX + MTBE + TMB's (8021)	
BTEX + MTBE + TPH (Gas only)	
TPH 8015B (GRO / DRO / MRO)	☒
TPH (Method 418.1)	
EDB (Method 504.1)	
PAH's (8310 or 8270 SIMS)	
RCRA 8 Metals	
Anions (F, Cl, NO ₃ , PO ₄ , SO ₄)	
8081 Pesticides / 8082 PCB's	
8260B (VOA)	☒
8270 (Semi-VOA)	☒
MAJOR CATIONS / ANIONS	☒
WAC METALS	☒
(TOTAL & DISSOLVED)	
Air Bubbles (Y or N)	

Remarks:

[illegible]

Analysis Request												
BTEX + MTBE + TMB's (8021)												
BTEX + MTBE + TPH (Gas only)												
TPH 8015B (GRO / DRO / MRO)	✓											
TPH (Method 418.1)												
EDB (Method 504.1)												
PAH's (8310 or 8270 SIMS)												
RCRA 8 Metals												
Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)												
8081 Pesticides / 8082 PCB's	✓											
8260B (VOA)												
8270 (Semi-VOA)		✓										
MAJOR CATIONS / ANIONS												
WA GC METALS												
(TOTAL & DISSOLVED)												
Air Bubbles (Y or N)												

Remarks:

Analysis Request																	
BTEX + MTBE + TMB's (8021)																	
BTEX + MTBE + TPH (Gas only)																	
TPH 8015B (GRO / DRO / MRO)	✓	✓															
TPH (Method 418.1)																	
EDB (Method 504.1)																	
PAH's (8310 or 8270 SIMS)																	
RCRA 8 Metals																	
Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)																	
8081 Pesticides / 8082 PCB's																	
8260B (VOA)	✓																
8270 (Semi-VOA)		✓															
MAJOR CATIONS / ANIONS																	
WA CC METALS																	
(TOTAL & DISSOLVED)																	
Air Bubbles (Y or N)																	

Remarks:

Analysis Request						Remarks:
BTEX + MTBE + TMB's (8021)						
BTEX + MTBE + TPH (Gas only)						
TPH 8015B (GRO / DRO / MRO)	✓		✓			
TPH (Method 418.1)						
EDB (Method 504.1)						
PAH's (8310 or 8270 SIMS)						
RCRA 8 Metals						
Anions (F^- , Cl^- , NO_3^- , NO_2^- , PO_4^{3-} , SO_4^{2-})						
8081 Pesticides / 8082 PCB's						
8260B (VOA)	✓					
8270 (Semi-VOA)		✓				
MAJOR CATIONS / ANIONS			✓	✓		
WA GC METALS				✓	✓	
(TOTAL & DISSOLVED)						
Air Bubbles (Y or N)						

[illegible][illegible][illegible][illegible][illegible][illegible][illegible]

Remarks:

✓

✓

✓

✓

✓

✓

Remarks:

Remarks:

[illegible]

✓

✓

Remarks:

Remarks:

[illegible][illegible][illegible][illegible]

Remarks:

20

20

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

A 3x3 grid of squares. The central square is shaded with a stippled pattern. The four squares immediately adjacent to the center (top, bottom, left, and right) are white. The four corner squares (top-left, top-right, bottom-left, and bottom-right) are black.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107
www.hallenvironmental.com

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

Analysis Request

Date		Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No	Project Manager:	
11/16		1415	WATER	DUP04	125 ML PLASTIC-1	H ₂ SO ₄	110096001	CHERYL JOHNSON	
↓		↓	↓	↓	500 ML PLASTIC-1	NEAT	-013	SAMPLER: TRACY PAYNE	
11/16		1520						ON ICE: ☒ YES ☐ NO	
11/16		1520						SAMPLE TEMPERATURE: ☒ 0	
11/16		1520						CREDITATION: ☐ OTHER: ☐	
11/16		1520						VQC PACKAGE: ☒ LEVEL 4 (FULL VALIDATION)	
11/16		1520						STANDARD: ☒ NELAP ☐	
11/16		1520						MAIL OR FAX#: CHERYL L. JOHNSON@WNR.COM	
11/16		1520						VQC PACKAGE: ☒ LEVEL 4 (FULL VALIDATION)	
11/16		1520						STANDARD: ☒ NELAP ☐	
11/16		1520						CREDITATION: ☐ OTHER: ☐	
11/16		1520						VQC PACKAGE: ☒ LEVEL 4 (FULL VALIDATION)	
11/16		1520						STANDARD: ☒ NELAP ☐	
11/16		1520						MAIL OR FAX#: CHERYL L. JOHNSON@WNR.COM	
11/16		1520						VQC PACKAGE: ☒ LEVEL 4 (FULL VALIDATION)	
11/16		1520						STANDARD: ☒ NELAP ☐	
11/16		1520						CREDITATION: ☐ OTHER: ☐	
11/16		1520						VQC PACKAGE: ☒ LEVEL 4 (FULL VALIDATION)	
11/16		1520						STANDARD: ☒ NELAP ☐	
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11/16		1520						STANDARD: ☒ NELAP ☐	
11/16		1520						CREDITATION: ☐ OTHER: ☐	
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11/16		1520						STANDARD: ☒ NELAP ☐	
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11/16		1520						STANDARD: ☒ NELAP ☐	
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11/16		1520						STANDARD: ☒ NELAP ☐	
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11/16		1520						VQC PACKAGE: ☒ LEVEL 4 (FULL VALIDATION)	
11/16		1520						STANDARD: ☒ NELAP ☐	
11/16		1520						CREDITATION: ☐ OTHER: ☐	
11/16		1520						VQC PACKAGE: ☒ LEVEL 4 (FULL VALIDATION)	
11/16		1520						STANDARD: ☒ NELAP ☐	
11/16		1520						MAIL OR FAX#: CHERYL L. JOHNSON@WNR.COM	
11/16		1520						VQC PACKAGE: ☒ LEVEL 4 (FULL VALIDATION)	
11/16		1520						STANDARD: ☒ NELAP ☐	
11/16		1520						CREDITATION: ☐ OTHER: ☐	
11/16		1520						VQC PACKAGE:	

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



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

September 23, 2016

Cheryl Johnson

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

RE: 2016 Annual

OrderNo.: 1609783

Dear Cheryl Johnson:

Hall Environmental Analysis Laboratory received 4 sample(s) on 9/16/2016 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', with a stylized flourish at the end.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1609783

Date Reported: 9/23/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: RW-2

Project: 2016 Annual

Collection Date: 9/13/2016 9:00:00 AM

Lab ID: 1609783-001

Matrix: AQUEOUS

Received Date: 9/16/2016 2:00:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015M/D: DIESEL RANGE							Analyst: TOM	
Diesel Range Organics (DRO)	14	0.69	1.0		mg/L	1	9/20/2016 10:22:28 PM	27563
Motor Oil Range Organics (MRO)	ND	5.0	5.0		mg/L	1	9/20/2016 10:22:28 PM	27563
Surr: DNOP	135	0	77.1-144		%Rec	1	9/20/2016 10:22:28 PM	27563
EPA METHOD 8260B: VOLATILES							Analyst: AG	
Benzene	38000	190	2000		µg/L	2000	9/20/2016 12:30:03 AM	R37308
Toluene	3800	24	200		µg/L	200	9/20/2016 12:58:47 AM	R37308
Ethylbenzene	1200	22	200		µg/L	200	9/20/2016 12:58:47 AM	R37308
Methyl tert-butyl ether (MTBE)	1600	42	200		µg/L	200	9/20/2016 12:58:47 AM	R37308
1,2,4-Trimethylbenzene	210	22	200		µg/L	200	9/20/2016 12:58:47 AM	R37308
1,3,5-Trimethylbenzene	44	23	200	J	µg/L	200	9/20/2016 12:58:47 AM	R37308
1,2-Dichloroethane (EDC)	ND	23	200		µg/L	200	9/20/2016 12:58:47 AM	R37308
1,2-Dibromoethane (EDB)	ND	22	200		µg/L	200	9/20/2016 12:58:47 AM	R37308
Naphthalene	140	19	400	J	µg/L	200	9/20/2016 12:58:47 AM	R37308
1-Methylnaphthalene	88	41	800	J	µg/L	200	9/20/2016 12:58:47 AM	R37308
2-Methylnaphthalene	ND	32	800		µg/L	200	9/20/2016 12:58:47 AM	R37308
Acetone	ND	980	2000		µg/L	200	9/20/2016 12:58:47 AM	R37308
Bromobenzene	ND	20	200		µg/L	200	9/20/2016 12:58:47 AM	R37308
Bromodichloromethane	ND	28	200		µg/L	200	9/20/2016 12:58:47 AM	R37308
Bromoform	ND	20	200		µg/L	200	9/20/2016 12:58:47 AM	R37308
Bromomethane	ND	160	600		µg/L	200	9/20/2016 12:58:47 AM	R37308
2-Butanone	ND	150	2000		µg/L	200	9/20/2016 12:58:47 AM	R37308
Carbon disulfide	ND	120	2000		µg/L	200	9/20/2016 12:58:47 AM	R37308
Carbon Tetrachloride	ND	22	200		µg/L	200	9/20/2016 12:58:47 AM	R37308
Chlorobenzene	ND	23	200		µg/L	200	9/20/2016 12:58:47 AM	R37308
Chloroethane	ND	38	400		µg/L	200	9/20/2016 12:58:47 AM	R37308
Chloroform	ND	18	200		µg/L	200	9/20/2016 12:58:47 AM	R37308
Chloromethane	ND	43	600		µg/L	200	9/20/2016 12:58:47 AM	R37308
2-Chlorotoluene	ND	80	200		µg/L	200	9/20/2016 12:58:47 AM	R37308
4-Chlorotoluene	ND	26	200		µg/L	200	9/20/2016 12:58:47 AM	R37308
cis-1,2-DCE	ND	25	200		µg/L	200	9/20/2016 12:58:47 AM	R37308
cis-1,3-Dichloropropene	ND	21	200		µg/L	200	9/20/2016 12:58:47 AM	R37308
1,2-Dibromo-3-chloropropane	ND	47	400		µg/L	200	9/20/2016 12:58:47 AM	R37308
Dibromochloromethane	ND	17	200		µg/L	200	9/20/2016 12:58:47 AM	R37308
Dibromomethane	ND	24	200		µg/L	200	9/20/2016 12:58:47 AM	R37308
1,2-Dichlorobenzene	ND	80	200		µg/L	200	9/20/2016 12:58:47 AM	R37308
1,3-Dichlorobenzene	ND	29	200		µg/L	200	9/20/2016 12:58:47 AM	R37308
1,4-Dichlorobenzene	ND	29	200		µg/L	200	9/20/2016 12:58:47 AM	R37308
Dichlorodifluoromethane	ND	71	200		µg/L	200	9/20/2016 12:58:47 AM	R37308
1,1-Dichloroethane	ND	22	200		µg/L	200	9/20/2016 12:58:47 AM	R37308

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 1609783

Date Reported: 9/23/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: RW-2

Project: 2016 Annual

Collection Date: 9/13/2016 9:00:00 AM

Lab ID: 1609783-001

Matrix: AQUEOUS

Received Date: 9/16/2016 2:00:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: AG	
1,1-Dichloroethene	ND	21	200		µg/L	200	9/20/2016 12:58:47 AM	R37308
1,2-Dichloropropane	ND	22	200		µg/L	200	9/20/2016 12:58:47 AM	R37308
1,3-Dichloropropane	ND	31	200		µg/L	200	9/20/2016 12:58:47 AM	R37308
2,2-Dichloropropane	ND	33	400		µg/L	200	9/20/2016 12:58:47 AM	R37308
1,1-Dichloropropene	ND	27	200		µg/L	200	9/20/2016 12:58:47 AM	R37308
Hexachlorobutadiene	ND	40	200		µg/L	200	9/20/2016 12:58:47 AM	R37308
2-Hexanone	ND	170	2000		µg/L	200	9/20/2016 12:58:47 AM	R37308
Isopropylbenzene	30	21	200	J	µg/L	200	9/20/2016 12:58:47 AM	R37308
4-Isopropyltoluene	ND	28	200		µg/L	200	9/20/2016 12:58:47 AM	R37308
4-Methyl-2-pentanone	ND	86	2000		µg/L	200	9/20/2016 12:58:47 AM	R37308
Methylene Chloride	ND	37	600		µg/L	200	9/20/2016 12:58:47 AM	R37308
n-Butylbenzene	ND	32	600		µg/L	200	9/20/2016 12:58:47 AM	R37308
n-Propylbenzene	56	26	200	J	µg/L	200	9/20/2016 12:58:47 AM	R37308
sec-Butylbenzene	ND	25	200		µg/L	200	9/20/2016 12:58:47 AM	R37308
Styrene	ND	22	200		µg/L	200	9/20/2016 12:58:47 AM	R37308
tert-Butylbenzene	ND	23	200		µg/L	200	9/20/2016 12:58:47 AM	R37308
1,1,1,2-Tetrachloroethane	ND	22	200		µg/L	200	9/20/2016 12:58:47 AM	R37308
1,1,2,2-Tetrachloroethane	ND	26	400		µg/L	200	9/20/2016 12:58:47 AM	R37308
Tetrachloroethene (PCE)	ND	30	200		µg/L	200	9/20/2016 12:58:47 AM	R37308
trans-1,2-DCE	ND	80	200		µg/L	200	9/20/2016 12:58:47 AM	R37308
trans-1,3-Dichloropropene	ND	21	200		µg/L	200	9/20/2016 12:58:47 AM	R37308
1,2,3-Trichlorobenzene	ND	23	200		µg/L	200	9/20/2016 12:58:47 AM	R37308
1,2,4-Trichlorobenzene	ND	27	200		µg/L	200	9/20/2016 12:58:47 AM	R37308
1,1,1-Trichloroethane	ND	18	200		µg/L	200	9/20/2016 12:58:47 AM	R37308
1,1,2-Trichloroethane	ND	25	200		µg/L	200	9/20/2016 12:58:47 AM	R37308
Trichloroethene (TCE)	ND	35	200		µg/L	200	9/20/2016 12:58:47 AM	R37308
Trichlorofluoromethane	ND	41	200		µg/L	200	9/20/2016 12:58:47 AM	R37308
1,2,3-Trichloropropane	ND	40	400		µg/L	200	9/20/2016 12:58:47 AM	R37308
Vinyl chloride	ND	39	200		µg/L	200	9/20/2016 12:58:47 AM	R37308
Xylenes, Total	3100	73	300		µg/L	200	9/20/2016 12:58:47 AM	R37308
Surr: 1,2-Dichloroethane-d4	95.6	0	70-130		%Rec	200	9/20/2016 12:58:47 AM	R37308
Surr: 4-Bromofluorobenzene	101	0	70-130		%Rec	200	9/20/2016 12:58:47 AM	R37308
Surr: Dibromofluoromethane	97.2	0	70-130		%Rec	200	9/20/2016 12:58:47 AM	R37308
Surr: Toluene-d8	101	0	70-130		%Rec	200	9/20/2016 12:58:47 AM	R37308
EPA METHOD 8015D: GASOLINE RANGE							Analyst: AG	
Gasoline Range Organics (GRO)	140	3.0	10		mg/L	200	9/20/2016 12:58:47 AM	G37308
Surr: BFB	102	0	70-130		%Rec	200	9/20/2016 12:58:47 AM	G37308

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 1609783

Date Reported: 9/23/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: RW-5

Project: 2016 Annual

Collection Date: 9/13/2016 9:40:00 AM

Lab ID: 1609783-002

Matrix: AQUEOUS

Received Date: 9/16/2016 2:00:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015M/D: DIESEL RANGE							Analyst: TOM	
Diesel Range Organics (DRO)	5.4	0.69	1.0		mg/L	1	9/20/2016 10:44:00 PM	27563
Motor Oil Range Organics (MRO)	ND	5.0	5.0		mg/L	1	9/20/2016 10:44:00 PM	27563
Surr: DNOP	128	0	77.1-144		%Rec	1	9/20/2016 10:44:00 PM	27563
EPA METHOD 8260B: VOLATILES							Analyst: AG	
Benzene	570	4.8	50		µg/L	50	9/20/2016 4:02:59 PM	R37339
Toluene	3.5	0.59	5.0	J	µg/L	5	9/20/2016 3:51:21 AM	R37308
Ethylbenzene	260	0.56	5.0		µg/L	5	9/20/2016 3:51:21 AM	R37308
Methyl tert-butyl ether (MTBE)	ND	1.1	5.0		µg/L	5	9/20/2016 3:51:21 AM	R37308
1,2,4-Trimethylbenzene	49	0.55	5.0		µg/L	5	9/20/2016 3:51:21 AM	R37308
1,3,5-Trimethylbenzene	13	0.58	5.0		µg/L	5	9/20/2016 3:51:21 AM	R37308
1,2-Dichloroethane (EDC)	ND	0.58	5.0		µg/L	5	9/20/2016 3:51:21 AM	R37308
1,2-Dibromoethane (EDB)	ND	0.56	5.0		µg/L	5	9/20/2016 3:51:21 AM	R37308
Naphthalene	130	0.46	10		µg/L	5	9/20/2016 3:51:21 AM	R37308
1-Methylnaphthalene	97	1.0	20		µg/L	5	9/20/2016 3:51:21 AM	R37308
2-Methylnaphthalene	120	0.79	20		µg/L	5	9/20/2016 3:51:21 AM	R37308
Acetone	ND	25	50		µg/L	5	9/20/2016 3:51:21 AM	R37308
Bromobenzene	ND	0.49	5.0		µg/L	5	9/20/2016 3:51:21 AM	R37308
Bromodichloromethane	ND	0.70	5.0		µg/L	5	9/20/2016 3:51:21 AM	R37308
Bromoform	ND	0.51	5.0		µg/L	5	9/20/2016 3:51:21 AM	R37308
Bromomethane	ND	3.9	15		µg/L	5	9/20/2016 3:51:21 AM	R37308
2-Butanone	5.3	3.7	50	J	µg/L	5	9/20/2016 3:51:21 AM	R37308
Carbon disulfide	ND	3.0	50		µg/L	5	9/20/2016 3:51:21 AM	R37308
Carbon Tetrachloride	ND	0.54	5.0		µg/L	5	9/20/2016 3:51:21 AM	R37308
Chlorobenzene	ND	0.57	5.0		µg/L	5	9/20/2016 3:51:21 AM	R37308
Chloroethane	ND	0.96	10		µg/L	5	9/20/2016 3:51:21 AM	R37308
Chloroform	ND	0.44	5.0		µg/L	5	9/20/2016 3:51:21 AM	R37308
Chloromethane	ND	1.1	15		µg/L	5	9/20/2016 3:51:21 AM	R37308
2-Chlorotoluene	ND	2.0	5.0		µg/L	5	9/20/2016 3:51:21 AM	R37308
4-Chlorotoluene	ND	0.64	5.0		µg/L	5	9/20/2016 3:51:21 AM	R37308
cis-1,2-DCE	ND	0.62	5.0		µg/L	5	9/20/2016 3:51:21 AM	R37308
cis-1,3-Dichloropropene	ND	0.53	5.0		µg/L	5	9/20/2016 3:51:21 AM	R37308
1,2-Dibromo-3-chloropropane	ND	1.2	10		µg/L	5	9/20/2016 3:51:21 AM	R37308
Dibromochloromethane	ND	0.43	5.0		µg/L	5	9/20/2016 3:51:21 AM	R37308
Dibromomethane	ND	0.60	5.0		µg/L	5	9/20/2016 3:51:21 AM	R37308
1,2-Dichlorobenzene	ND	2.0	5.0		µg/L	5	9/20/2016 3:51:21 AM	R37308
1,3-Dichlorobenzene	ND	0.72	5.0		µg/L	5	9/20/2016 3:51:21 AM	R37308
1,4-Dichlorobenzene	ND	0.71	5.0		µg/L	5	9/20/2016 3:51:21 AM	R37308
Dichlorodifluoromethane	ND	1.8	5.0		µg/L	5	9/20/2016 3:51:21 AM	R37308
1,1-Dichloroethane	ND	0.54	5.0		µg/L	5	9/20/2016 3:51:21 AM	R37308

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 1609783

Date Reported: 9/23/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: RW-5

Project: 2016 Annual

Collection Date: 9/13/2016 9:40:00 AM

Lab ID: 1609783-002

Matrix: AQUEOUS

Received Date: 9/16/2016 2:00:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: AG	
1,1-Dichloroethene	ND	0.54	5.0		µg/L	5	9/20/2016 3:51:21 AM	R37308
1,2-Dichloropropane	ND	0.55	5.0		µg/L	5	9/20/2016 3:51:21 AM	R37308
1,3-Dichloropropane	ND	0.78	5.0		µg/L	5	9/20/2016 3:51:21 AM	R37308
2,2-Dichloropropane	ND	0.83	10		µg/L	5	9/20/2016 3:51:21 AM	R37308
1,1-Dichloropropene	ND	0.67	5.0		µg/L	5	9/20/2016 3:51:21 AM	R37308
Hexachlorobutadiene	ND	0.99	5.0		µg/L	5	9/20/2016 3:51:21 AM	R37308
2-Hexanone	ND	4.2	50		µg/L	5	9/20/2016 3:51:21 AM	R37308
Isopropylbenzene	16	0.52	5.0		µg/L	5	9/20/2016 3:51:21 AM	R37308
4-Isopropyltoluene	5.5	0.70	5.0		µg/L	5	9/20/2016 3:51:21 AM	R37308
4-Methyl-2-pentanone	ND	2.1	50		µg/L	5	9/20/2016 3:51:21 AM	R37308
Methylene Chloride	ND	0.94	15		µg/L	5	9/20/2016 3:51:21 AM	R37308
n-Butylbenzene	12	0.80	15	J	µg/L	5	9/20/2016 3:51:21 AM	R37308
n-Propylbenzene	37	0.66	5.0		µg/L	5	9/20/2016 3:51:21 AM	R37308
sec-Butylbenzene	7.5	0.62	5.0		µg/L	5	9/20/2016 3:51:21 AM	R37308
Styrene	ND	0.55	5.0		µg/L	5	9/20/2016 3:51:21 AM	R37308
tert-Butylbenzene	ND	0.58	5.0		µg/L	5	9/20/2016 3:51:21 AM	R37308
1,1,1,2-Tetrachloroethane	ND	0.56	5.0		µg/L	5	9/20/2016 3:51:21 AM	R37308
1,1,2,2-Tetrachloroethane	ND	0.64	10		µg/L	5	9/20/2016 3:51:21 AM	R37308
Tetrachloroethene (PCE)	ND	0.76	5.0		µg/L	5	9/20/2016 3:51:21 AM	R37308
trans-1,2-DCE	ND	2.0	5.0		µg/L	5	9/20/2016 3:51:21 AM	R37308
trans-1,3-Dichloropropene	ND	0.52	5.0		µg/L	5	9/20/2016 3:51:21 AM	R37308
1,2,3-Trichlorobenzene	ND	0.56	5.0		µg/L	5	9/20/2016 3:51:21 AM	R37308
1,2,4-Trichlorobenzene	ND	0.66	5.0		µg/L	5	9/20/2016 3:51:21 AM	R37308
1,1,1-Trichloroethane	ND	0.46	5.0		µg/L	5	9/20/2016 3:51:21 AM	R37308
1,1,2-Trichloroethane	ND	0.64	5.0		µg/L	5	9/20/2016 3:51:21 AM	R37308
Trichloroethene (TCE)	ND	0.88	5.0		µg/L	5	9/20/2016 3:51:21 AM	R37308
Trichlorofluoromethane	ND	1.0	5.0		µg/L	5	9/20/2016 3:51:21 AM	R37308
1,2,3-Trichloropropane	ND	1.0	10		µg/L	5	9/20/2016 3:51:21 AM	R37308
Vinyl chloride	ND	0.98	5.0		µg/L	5	9/20/2016 3:51:21 AM	R37308
Xylenes, Total	120	1.8	7.5		µg/L	5	9/20/2016 3:51:21 AM	R37308
Surr: 1,2-Dichloroethane-d4	87.5	0	70-130		%Rec	5	9/20/2016 3:51:21 AM	R37308
Surr: 4-Bromofluorobenzene	83.7	0	70-130		%Rec	5	9/20/2016 3:51:21 AM	R37308
Surr: Dibromofluoromethane	93.5	0	70-130		%Rec	5	9/20/2016 3:51:21 AM	R37308
Surr: Toluene-d8	99.3	0	70-130		%Rec	5	9/20/2016 3:51:21 AM	R37308
EPA METHOD 8015D: GASOLINE RANGE							Analyst: AG	
Gasoline Range Organics (GRO)	6.4	0.075	0.25		mg/L	5	9/20/2016 3:51:21 AM	G37308
Surr: BFB	98.4	0	70-130		%Rec	5	9/20/2016 3:51:21 AM	G37308

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 1609783

Date Reported: 9/23/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: RW-6

Project: 2016 Annual

Collection Date: 9/13/2016 10:25:00 AM

Lab ID: 1609783-003

Matrix: AQUEOUS

Received Date: 9/16/2016 2:00:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015M/D: DIESEL RANGE							Analyst: TOM	
Diesel Range Organics (DRO)	1200	69	100		mg/L	100	9/20/2016 11:05:43 PM	27563
Motor Oil Range Organics (MRO)	ND	500	500		mg/L	100	9/20/2016 11:05:43 PM	27563
Surr: DNOP	0	0	77.1-144	S	%Rec	100	9/20/2016 11:05:43 PM	27563
EPA METHOD 8260B: VOLATILES							Analyst: AG	
Benzene	280	0.96	10		µg/L	10	9/20/2016 4:20:11 AM	R37308
Toluene	110	1.2	10		µg/L	10	9/20/2016 4:20:11 AM	R37308
Ethylbenzene	290	1.1	10		µg/L	10	9/20/2016 4:20:11 AM	R37308
Methyl tert-butyl ether (MTBE)	17	2.1	10		µg/L	10	9/20/2016 4:20:11 AM	R37308
1,2,4-Trimethylbenzene	64	1.1	10		µg/L	10	9/20/2016 4:20:11 AM	R37308
1,3,5-Trimethylbenzene	120	1.2	10		µg/L	10	9/20/2016 4:20:11 AM	R37308
1,2-Dichloroethane (EDC)	ND	1.2	10		µg/L	10	9/20/2016 4:20:11 AM	R37308
1,2-Dibromoethane (EDB)	ND	1.1	10		µg/L	10	9/20/2016 4:20:11 AM	R37308
Naphthalene	550	0.93	20		µg/L	10	9/20/2016 4:20:11 AM	R37308
1-Methylnaphthalene	280	2.0	40		µg/L	10	9/20/2016 4:20:11 AM	R37308
2-Methylnaphthalene	370	1.6	40		µg/L	10	9/20/2016 4:20:11 AM	R37308
Acetone	ND	49	100		µg/L	10	9/20/2016 4:20:11 AM	R37308
Bromobenzene	ND	0.98	10		µg/L	10	9/20/2016 4:20:11 AM	R37308
Bromodichloromethane	ND	1.4	10		µg/L	10	9/20/2016 4:20:11 AM	R37308
Bromoform	ND	1.0	10		µg/L	10	9/20/2016 4:20:11 AM	R37308
Bromomethane	ND	7.8	30		µg/L	10	9/20/2016 4:20:11 AM	R37308
2-Butanone	9.3	7.4	100	J	µg/L	10	9/20/2016 4:20:11 AM	R37308
Carbon disulfide	ND	6.0	100		µg/L	10	9/20/2016 4:20:11 AM	R37308
Carbon Tetrachloride	ND	1.1	10		µg/L	10	9/20/2016 4:20:11 AM	R37308
Chlorobenzene	ND	1.1	10		µg/L	10	9/20/2016 4:20:11 AM	R37308
Chloroethane	ND	1.9	20		µg/L	10	9/20/2016 4:20:11 AM	R37308
Chloroform	ND	0.89	10		µg/L	10	9/20/2016 4:20:11 AM	R37308
Chloromethane	ND	2.1	30		µg/L	10	9/20/2016 4:20:11 AM	R37308
2-Chlorotoluene	ND	4.0	10		µg/L	10	9/20/2016 4:20:11 AM	R37308
4-Chlorotoluene	ND	1.3	10		µg/L	10	9/20/2016 4:20:11 AM	R37308
cis-1,2-DCE	ND	1.2	10		µg/L	10	9/20/2016 4:20:11 AM	R37308
cis-1,3-Dichloropropene	ND	1.1	10		µg/L	10	9/20/2016 4:20:11 AM	R37308
1,2-Dibromo-3-chloropropane	ND	2.3	20		µg/L	10	9/20/2016 4:20:11 AM	R37308
Dibromochloromethane	ND	0.87	10		µg/L	10	9/20/2016 4:20:11 AM	R37308
Dibromomethane	ND	1.2	10		µg/L	10	9/20/2016 4:20:11 AM	R37308
1,2-Dichlorobenzene	ND	4.0	10		µg/L	10	9/20/2016 4:20:11 AM	R37308
1,3-Dichlorobenzene	ND	1.4	10		µg/L	10	9/20/2016 4:20:11 AM	R37308
1,4-Dichlorobenzene	ND	1.4	10		µg/L	10	9/20/2016 4:20:11 AM	R37308
Dichlorodifluoromethane	ND	3.6	10		µg/L	10	9/20/2016 4:20:11 AM	R37308
1,1-Dichloroethane	ND	1.1	10		µg/L	10	9/20/2016 4:20:11 AM	R37308

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 1609783

Date Reported: 9/23/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: RW-6

Project: 2016 Annual

Collection Date: 9/13/2016 10:25:00 AM

Lab ID: 1609783-003

Matrix: AQUEOUS

Received Date: 9/16/2016 2:00:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: AG	
1,1-Dichloroethene	ND	1.1	10		µg/L	10	9/20/2016 4:20:11 AM	R37308
1,2-Dichloropropane	ND	1.1	10		µg/L	10	9/20/2016 4:20:11 AM	R37308
1,3-Dichloropropane	ND	1.6	10		µg/L	10	9/20/2016 4:20:11 AM	R37308
2,2-Dichloropropane	ND	1.7	20		µg/L	10	9/20/2016 4:20:11 AM	R37308
1,1-Dichloropropene	ND	1.3	10		µg/L	10	9/20/2016 4:20:11 AM	R37308
Hexachlorobutadiene	ND	2.0	10		µg/L	10	9/20/2016 4:20:11 AM	R37308
2-Hexanone	ND	8.4	100		µg/L	10	9/20/2016 4:20:11 AM	R37308
Isopropylbenzene	28	1.0	10		µg/L	10	9/20/2016 4:20:11 AM	R37308
4-Isopropyltoluene	14	1.4	10		µg/L	10	9/20/2016 4:20:11 AM	R37308
4-Methyl-2-pentanone	ND	4.3	100		µg/L	10	9/20/2016 4:20:11 AM	R37308
Methylene Chloride	ND	1.9	30		µg/L	10	9/20/2016 4:20:11 AM	R37308
n-Butylbenzene	20	1.6	30	J	µg/L	10	9/20/2016 4:20:11 AM	R37308
n-Propylbenzene	55	1.3	10		µg/L	10	9/20/2016 4:20:11 AM	R37308
sec-Butylbenzene	11	1.2	10		µg/L	10	9/20/2016 4:20:11 AM	R37308
Styrene	ND	1.1	10		µg/L	10	9/20/2016 4:20:11 AM	R37308
tert-Butylbenzene	ND	1.2	10		µg/L	10	9/20/2016 4:20:11 AM	R37308
1,1,1,2-Tetrachloroethane	ND	1.1	10		µg/L	10	9/20/2016 4:20:11 AM	R37308
1,1,2,2-Tetrachloroethane	ND	1.3	20		µg/L	10	9/20/2016 4:20:11 AM	R37308
Tetrachloroethene (PCE)	ND	1.5	10		µg/L	10	9/20/2016 4:20:11 AM	R37308
trans-1,2-DCE	ND	4.0	10		µg/L	10	9/20/2016 4:20:11 AM	R37308
trans-1,3-Dichloropropene	ND	1.0	10		µg/L	10	9/20/2016 4:20:11 AM	R37308
1,2,3-Trichlorobenzene	ND	1.1	10		µg/L	10	9/20/2016 4:20:11 AM	R37308
1,2,4-Trichlorobenzene	ND	1.3	10		µg/L	10	9/20/2016 4:20:11 AM	R37308
1,1,1-Trichloroethane	ND	0.91	10		µg/L	10	9/20/2016 4:20:11 AM	R37308
1,1,2-Trichloroethane	ND	1.3	10		µg/L	10	9/20/2016 4:20:11 AM	R37308
Trichloroethene (TCE)	ND	1.8	10		µg/L	10	9/20/2016 4:20:11 AM	R37308
Trichlorofluoromethane	ND	2.0	10		µg/L	10	9/20/2016 4:20:11 AM	R37308
1,2,3-Trichloropropane	ND	2.0	20		µg/L	10	9/20/2016 4:20:11 AM	R37308
Vinyl chloride	ND	2.0	10		µg/L	10	9/20/2016 4:20:11 AM	R37308
Xylenes, Total	810	3.7	15		µg/L	10	9/20/2016 4:20:11 AM	R37308
Surr: 1,2-Dichloroethane-d4	93.9	0	70-130		%Rec	10	9/20/2016 4:20:11 AM	R37308
Surr: 4-Bromofluorobenzene	86.4	0	70-130		%Rec	10	9/20/2016 4:20:11 AM	R37308
Surr: Dibromofluoromethane	97.1	0	70-130		%Rec	10	9/20/2016 4:20:11 AM	R37308
Surr: Toluene-d8	99.2	0	70-130		%Rec	10	9/20/2016 4:20:11 AM	R37308
EPA METHOD 8015D: GASOLINE RANGE							Analyst: AG	
Gasoline Range Organics (GRO)	11	0.15	0.50		mg/L	10	9/20/2016 4:20:11 AM	G37308
Surr: BFB	104	0	70-130		%Rec	10	9/20/2016 4:20:11 AM	G37308

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 1609783

Date Reported: 9/23/2016

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: RW-1

Project: 2016 Annual

Collection Date: 9/13/2016 1:11:00 PM

Lab ID: 1609783-004

Matrix: PRODUCT

Received Date: 9/16/2016 2:00:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
DRO BY 8015D							Analyst: TOM	
Diesel Range Organics (DRO)	8.2	0.82	0.82		wt%	10	9/22/2016 10:38:31 AM	27643
Motor Oil Range Organics (MRO)	ND	4.1	4.1		wt%	10	9/22/2016 10:38:31 AM	27643
Surr: DNOP	0	0	55.7-125	S	%Rec	10	9/22/2016 10:38:31 AM	27643

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#: 1609783

23-Sep-16

Client: Western Refining Southwest, Gallup

Project: 2016 Annual

Sample ID LCS-27643	SampType: LCS			TestCode: DRO by 8015D						
Client ID: LCSW	Batch ID: 27643			RunNo: 37357						
Prep Date: 9/21/2016	Analysis Date: 9/21/2016			SeqNo: 1161366		Units: wt%				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	0.48	0.10	0.5000	0	96.4	70.8	122			
Surr: DNOP	0.046		0.05000		91.9	55.7	125			

Sample ID LCSD-27643	SampType: LCSD			TestCode: DRO by 8015D						
Client ID: LCSS02	Batch ID: 27643			RunNo: 37357						
Prep Date: 9/21/2016	Analysis Date: 9/21/2016			SeqNo: 1161367		Units: wt%				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	0.49	0.10	0.5000	0	98.8	70.8	122	2.47	20	
Surr: DNOP	0.047		0.05000		94.8	55.7	125	0	0	

Sample ID MB-27643	SampType: MBLK			TestCode: DRO by 8015D						
Client ID: PBW	Batch ID: 27643			RunNo: 37357						
Prep Date: 9/21/2016	Analysis Date: 9/21/2016			SeqNo: 1161368		Units: wt%				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	0.10								
Motor Oil Range Organics (MRO)	ND	0.50								
Surr: DNOP	0.099		0.1000		98.8	55.7	125			

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#: 1609783

23-Sep-16

Client: Western Refining Southwest, Gallup

Project: 2016 Annual

Sample ID	LCS-27563		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range					
Client ID:	LCSW		Batch ID: 27563		RunNo: 37287					
Prep Date:	9/19/2016		Analysis Date: 9/19/2016		SeqNo: 1158082		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	6.0	1.0	5.000	0	120	63.2	155			
Surr: DNOP	0.61		0.5000		123	77.1	144			

Sample ID	MB-27563		SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range					
Client ID:	PBW		Batch ID: 27563		RunNo: 37287					
Prep Date:	9/19/2016		Analysis Date: 9/19/2016		SeqNo: 1158083		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		120	77.1	144			

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#: 1609783

23-Sep-16

Client: Western Refining Southwest, Gallup

Project: 2016 Annual

Sample ID	100ng lcs	SampType: LCS			TestCode: EPA Method 8260B: VOLATILES					
Client ID:	LCSW	Batch ID: R37308			RunNo: 37308					
Prep Date:		Analysis Date: 9/19/2016			SeqNo: 1158590		Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	96.6	70	130			
Toluene	19	1.0	20.00	0	96.8	70	130			
Chlorobenzene	18	1.0	20.00	0	92.5	70	130			
1,1-Dichloroethene	18	1.0	20.00	0	90.9	70	130			
Trichloroethene (TCE)	16	1.0	20.00	0	80.8	70	130			
Surr: 1,2-Dichloroethane-d4	9.9		10.00		99.1	70	130			
Surr: 4-Bromofluorobenzene	9.4		10.00		94.1	70	130			
Surr: Dibromofluoromethane	9.4		10.00		93.5	70	130			
Surr: Toluene-d8	9.9		10.00		99.4	70	130			

Sample ID	rb	SampType: MBLK			TestCode: EPA Method 8260B: VOLATILES					
Client ID:	PBW	Batch ID: R37308			RunNo: 37308					
Prep Date:		Analysis Date: 9/19/2016			SeqNo: 1158591		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								

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#: 1609783

23-Sep-16

Client: Western Refining Southwest, Gallup

Project: 2016 Annual

Sample ID	rb	SampType: MBLK			TestCode: EPA Method 8260B: VOLATILES					
Client ID:	PBW	Batch ID: R37308			RunNo: 37308					
Prep Date:		Analysis Date: 9/19/2016			SeqNo: 1158591	Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
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								

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#: 1609783

23-Sep-16

Client: Western Refining Southwest, Gallup

Project: 2016 Annual

Sample ID rb	SampType: MBLK			TestCode: EPA Method 8260B: VOLATILES						
Client ID: PBW	Batch ID: R37308			RunNo: 37308						
Prep Date:	Analysis Date: 9/19/2016			SeqNo: 1158591		Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	9.9		10.00		99.2	70	130			
Surr: 4-Bromofluorobenzene	9.6		10.00		96.5	70	130			
Surr: Dibromofluoromethane	9.8		10.00		97.9	70	130			
Surr: Toluene-d8	10		10.00		100	70	130			

Sample ID 100ng lcs	SampType: LCS			TestCode: EPA Method 8260B: VOLATILES						
Client ID: LCSW	Batch ID: R37339			RunNo: 37339						
Prep Date:	Analysis Date: 9/20/2016			SeqNo: 1159861		Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	21	1.0	20.00	0	103	70	130			
Surr: 1,2-Dichloroethane-d4	10		10.00		101	70	130			
Surr: 4-Bromofluorobenzene	9.9		10.00		99.2	70	130			
Surr: Dibromofluoromethane	10		10.00		99.6	70	130			
Surr: Toluene-d8	10		10.00		99.7	70	130			

Sample ID rb	SampType: MBLK			TestCode: EPA Method 8260B: VOLATILES						
Client ID: PBW	Batch ID: R37339			RunNo: 37339						
Prep Date:	Analysis Date: 9/20/2016			SeqNo: 1159862		Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Surr: 1,2-Dichloroethane-d4	10		10.00		101	70	130			
Surr: 4-Bromofluorobenzene	9.6		10.00		95.6	70	130			
Surr: Dibromofluoromethane	9.8		10.00		98.4	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#: 1609783

23-Sep-16

Client: Western Refining Southwest, Gallup

Project: 2016 Annual

Sample ID	2.5ug gro lcs	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSW	Batch ID:	G37308	RunNo:	37308					
Prep Date:		Analysis Date:	9/19/2016	SeqNo:	1159428	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	97.7	75.4	118			
Surr: BFB	9.7		10.00		97.3	70	130			

Sample ID	rb	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBW	Batch ID:	G37308	RunNo:	37308					
Prep Date:		Analysis Date:	9/19/2016	SeqNo:	1159429	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.019	0.050								J
Surr: BFB	10		10.00		103	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

Sample Log-In Check List

Client Name: Western Refining Gallup

Work Order Number: 1609783

RcptNo: 1

Received by/date:

Logged By: Ashley Gallegos

9/14/2016 5:00:00 PM

Completed By: Ashley Gallegos

9/14/2016 5:49:26 PM

Reviewed By:

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:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

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			



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

January 19, 2017

Cheryl Johnson

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

RE: 2016 4th QTR Ground Water

OrderNo.: 1611792

Dear Cheryl Johnson:

Hall Environmental Analysis Laboratory received 10 sample(s) on 11/15/2016 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued December 19, 2016.

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

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

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', with a stylized flourish at the end.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1611792

Date Reported: 1/19/2017

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: Field Blank

Project: 2016 4th QTR Ground Water

Collection Date: 11/14/2016 7:00:00 AM

Lab ID: 1611792-001

Matrix: AQUEOUS

Received Date: 11/15/2016 5:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: DJF	
Benzene	ND	0.096	1.0		µg/L	1	11/17/2016 6:03:57 PM	R38783
Toluene	ND	0.12	1.0		µg/L	1	11/17/2016 6:03:57 PM	R38783
Ethylbenzene	ND	0.11	1.0		µg/L	1	11/17/2016 6:03:57 PM	R38783
Methyl tert-butyl ether (MTBE)	ND	0.21	1.0		µg/L	1	11/17/2016 6:03:57 PM	R38783
1,2,4-Trimethylbenzene	ND	0.11	1.0		µg/L	1	11/17/2016 6:03:57 PM	R38783
1,3,5-Trimethylbenzene	ND	0.12	1.0		µg/L	1	11/17/2016 6:03:57 PM	R38783
1,2-Dichloroethane (EDC)	ND	0.12	1.0		µg/L	1	11/17/2016 6:03:57 PM	R38783
1,2-Dibromoethane (EDB)	ND	0.11	1.0		µg/L	1	11/17/2016 6:03:57 PM	R38783
Naphthalene	ND	0.093	2.0		µg/L	1	11/17/2016 6:03:57 PM	R38783
1-Methylnaphthalene	ND	0.20	4.0		µg/L	1	11/17/2016 6:03:57 PM	R38783
2-Methylnaphthalene	ND	0.16	4.0		µg/L	1	11/17/2016 6:03:57 PM	R38783
Acetone	ND	4.9	10		µg/L	1	11/17/2016 6:03:57 PM	R38783
Bromobenzene	ND	0.098	1.0		µg/L	1	11/17/2016 6:03:57 PM	R38783
Bromodichloromethane	ND	0.14	1.0		µg/L	1	11/17/2016 6:03:57 PM	R38783
Bromoform	ND	0.10	1.0		µg/L	1	11/17/2016 6:03:57 PM	R38783
Bromomethane	ND	0.78	3.0		µg/L	1	11/17/2016 6:03:57 PM	R38783
2-Butanone	ND	0.74	10		µg/L	1	11/17/2016 6:03:57 PM	R38783
Carbon disulfide	ND	0.60	10		µg/L	1	11/17/2016 6:03:57 PM	R38783
Carbon Tetrachloride	ND	0.11	1.0		µg/L	1	11/17/2016 6:03:57 PM	R38783
Chlorobenzene	ND	0.11	1.0		µg/L	1	11/17/2016 6:03:57 PM	R38783
Chloroethane	ND	0.19	2.0		µg/L	1	11/17/2016 6:03:57 PM	R38783
Chloroform	ND	0.089	1.0		µg/L	1	11/17/2016 6:03:57 PM	R38783
Chloromethane	ND	0.21	3.0		µg/L	1	11/17/2016 6:03:57 PM	R38783
2-Chlorotoluene	ND	0.40	1.0		µg/L	1	11/17/2016 6:03:57 PM	R38783
4-Chlorotoluene	ND	0.13	1.0		µg/L	1	11/17/2016 6:03:57 PM	R38783
cis-1,2-DCE	ND	0.12	1.0		µg/L	1	11/17/2016 6:03:57 PM	R38783
cis-1,3-Dichloropropene	ND	0.11	1.0		µg/L	1	11/17/2016 6:03:57 PM	R38783
1,2-Dibromo-3-chloropropane	ND	0.23	2.0		µg/L	1	11/17/2016 6:03:57 PM	R38783
Dibromochloromethane	ND	0.087	1.0		µg/L	1	11/17/2016 6:03:57 PM	R38783
Dibromomethane	ND	0.12	1.0		µg/L	1	11/17/2016 6:03:57 PM	R38783
1,2-Dichlorobenzene	ND	0.40	1.0		µg/L	1	11/17/2016 6:03:57 PM	R38783
1,3-Dichlorobenzene	ND	0.14	1.0		µg/L	1	11/17/2016 6:03:57 PM	R38783
1,4-Dichlorobenzene	ND	0.14	1.0		µg/L	1	11/17/2016 6:03:57 PM	R38783
Dichlorodifluoromethane	ND	0.36	1.0		µg/L	1	11/17/2016 6:03:57 PM	R38783
1,1-Dichloroethane	ND	0.11	1.0		µg/L	1	11/17/2016 6:03:57 PM	R38783
1,1-Dichloroethene	ND	0.11	1.0		µg/L	1	11/17/2016 6:03:57 PM	R38783
1,2-Dichloropropane	ND	0.11	1.0		µg/L	1	11/17/2016 6:03:57 PM	R38783
1,3-Dichloropropane	ND	0.16	1.0		µg/L	1	11/17/2016 6:03:57 PM	R38783
2,2-Dichloropropane	ND	0.17	2.0		µg/L	1	11/17/2016 6:03:57 PM	R38783

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 1611792

Date Reported: 1/19/2017

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: Field Blank

Project: 2016 4th QTR Ground Water

Collection Date: 11/14/2016 7:00:00 AM

Lab ID: 1611792-001

Matrix: AQUEOUS

Received Date: 11/15/2016 5:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: DJF	
1,1-Dichloropropene	ND	0.13	1.0		µg/L	1	11/17/2016 6:03:57 PM	R38783
Hexachlorobutadiene	ND	0.20	1.0		µg/L	1	11/17/2016 6:03:57 PM	R38783
2-Hexanone	ND	0.84	10		µg/L	1	11/17/2016 6:03:57 PM	R38783
Isopropylbenzene	ND	0.10	1.0		µg/L	1	11/17/2016 6:03:57 PM	R38783
4-Isopropyltoluene	ND	0.14	1.0		µg/L	1	11/17/2016 6:03:57 PM	R38783
4-Methyl-2-pentanone	ND	0.43	10		µg/L	1	11/17/2016 6:03:57 PM	R38783
Methylene Chloride	ND	0.19	3.0		µg/L	1	11/17/2016 6:03:57 PM	R38783
n-Butylbenzene	ND	0.16	3.0		µg/L	1	11/17/2016 6:03:57 PM	R38783
n-Propylbenzene	ND	0.13	1.0		µg/L	1	11/17/2016 6:03:57 PM	R38783
sec-Butylbenzene	ND	0.12	1.0		µg/L	1	11/17/2016 6:03:57 PM	R38783
Styrene	ND	0.11	1.0		µg/L	1	11/17/2016 6:03:57 PM	R38783
tert-Butylbenzene	ND	0.12	1.0		µg/L	1	11/17/2016 6:03:57 PM	R38783
1,1,1,2-Tetrachloroethane	ND	0.11	1.0		µg/L	1	11/17/2016 6:03:57 PM	R38783
1,1,2,2-Tetrachloroethane	ND	0.13	2.0		µg/L	1	11/17/2016 6:03:57 PM	R38783
Tetrachloroethene (PCE)	ND	0.15	1.0		µg/L	1	11/17/2016 6:03:57 PM	R38783
trans-1,2-DCE	ND	0.40	1.0		µg/L	1	11/17/2016 6:03:57 PM	R38783
trans-1,3-Dichloropropene	ND	0.10	1.0		µg/L	1	11/17/2016 6:03:57 PM	R38783
1,2,3-Trichlorobenzene	ND	0.11	1.0		µg/L	1	11/17/2016 6:03:57 PM	R38783
1,2,4-Trichlorobenzene	ND	0.13	1.0		µg/L	1	11/17/2016 6:03:57 PM	R38783
1,1,1-Trichloroethane	ND	0.091	1.0		µg/L	1	11/17/2016 6:03:57 PM	R38783
1,1,2-Trichloroethane	ND	0.13	1.0		µg/L	1	11/17/2016 6:03:57 PM	R38783
Trichloroethene (TCE)	ND	0.18	1.0		µg/L	1	11/17/2016 6:03:57 PM	R38783
Trichlorofluoromethane	ND	0.20	1.0		µg/L	1	11/17/2016 6:03:57 PM	R38783
1,2,3-Trichloropropane	ND	0.20	2.0		µg/L	1	11/17/2016 6:03:57 PM	R38783
Vinyl chloride	ND	0.20	1.0		µg/L	1	11/17/2016 6:03:57 PM	R38783
Xylenes, Total	ND	0.37	1.5		µg/L	1	11/17/2016 6:03:57 PM	R38783
Surr: 1,2-Dichloroethane-d4	103	0	70-130		%Rec	1	11/17/2016 6:03:57 PM	R38783
Surr: 4-Bromofluorobenzene	99.4	0	70-130		%Rec	1	11/17/2016 6:03:57 PM	R38783
Surr: Dibromofluoromethane	107	0	70-130		%Rec	1	11/17/2016 6:03:57 PM	R38783
Surr: Toluene-d8	101	0	70-130		%Rec	1	11/17/2016 6:03:57 PM	R38783

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 1611792

Date Reported: 1/19/2017

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: OW-30

Project: 2016 4th QTR Ground Water

Collection Date: 11/14/2016 8:20:00 AM

Lab ID: 1611792-002

Matrix: AQUEOUS

Received Date: 11/15/2016 5:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8011/504.1: EDB								
Analyst: JME								
1,2-Dibromoethane	ND	0.0033	0.010		µg/L	1	11/21/2016 7:07:50 PM	28776
EPA METHOD 8015M/D: DIESEL RANGE								
Analyst: JME								
Diesel Range Organics (DRO)	ND	0.69	1.0		mg/L	1	11/17/2016 11:03:20 PM	28698
Motor Oil Range Organics (MRO)	ND	5.0	5.0		mg/L	1	11/17/2016 11:03:20 PM	28698
Surr: DNOP	106	0	77.1-144		%Rec	1	11/17/2016 11:03:20 PM	28698
EPA METHOD 8015D: GASOLINE RANGE								
Analyst: NSB								
Gasoline Range Organics (GRO)	5.2	0.25	0.50		mg/L	10	11/16/2016 4:09:11 PM	G38747
Surr: BFB	92.6	0	66.4-120		%Rec	10	11/16/2016 4:09:11 PM	G38747
EPA METHOD 200.7: DISSOLVED METALS								
Analyst: MED								
Barium	0.10	0.0013	0.0020		mg/L	1	12/9/2016 1:26:51 PM	A39280
Cadmium	ND	0.00075	0.0020		mg/L	1	12/9/2016 1:26:51 PM	A39280
Chromium	ND	0.0018	0.0060		mg/L	1	12/9/2016 1:26:51 PM	A39280
Copper	ND	0.0040	0.0060		mg/L	1	12/9/2016 1:26:51 PM	A39280
Iron	0.087	0.020	0.020		mg/L	1	12/9/2016 1:26:51 PM	A39280
Manganese	0.031	0.00032	0.0020		mg/L	1	12/9/2016 1:26:51 PM	A39280
Silver	ND	0.0028	0.0050		mg/L	1	12/9/2016 1:26:51 PM	A39280
Zinc	ND	0.0028	0.010		mg/L	1	12/9/2016 1:26:51 PM	A39280
EPA METHOD 200.7: TOTAL METALS								
Analyst: MED								
Barium	0.11	0.00079	0.0020		mg/L	1	12/8/2016 3:12:34 PM	29034
Cadmium	ND	0.0015	0.0020		mg/L	1	12/8/2016 3:12:34 PM	29034
Chromium	ND	0.0027	0.0060		mg/L	1	12/8/2016 3:12:34 PM	29034
Copper	ND	0.0030	0.0060		mg/L	1	12/8/2016 3:12:34 PM	29034
Iron	0.095	0.020	0.020		mg/L	1	12/8/2016 3:12:34 PM	29034
Manganese	0.038	0.00027	0.0020		mg/L	1	12/8/2016 3:12:34 PM	29034
Silver	ND	0.0015	0.0050		mg/L	1	12/9/2016 11:28:38 AM	29034
Zinc	ND	0.0027	0.010		mg/L	1	12/8/2016 3:12:34 PM	29034
EPA 200.8: DISSOLVED METALS								
Analyst: JLF								
Arsenic	0.0032	0.00069	0.0050	J	mg/L	5	11/30/2016 4:51:50 PM	R39071
Lead	0.00028	0.00017	0.00050	J	mg/L	1	11/28/2016 5:20:05 PM	C39007
Selenium	0.0094	0.0042	0.020	J	mg/L	20	11/30/2016 5:07:17 PM	R39071
Uranium	0.044	0.00026	0.0025	*	mg/L	5	11/30/2016 4:51:50 PM	R39071
200.8 ICPMS METALS:TOTAL								
Analyst: JLF								
Arsenic	0.0038	0.0011	0.0050	J	mg/L	5	12/8/2016 3:13:43 PM	29034
Lead	0.00028	0.000081	0.00050	J	mg/L	1	12/7/2016 4:21:15 PM	29034
Selenium	0.0061	0.0037	0.020	J	mg/L	20	12/8/2016 3:18:51 PM	29034
Uranium	0.046	0.00087	0.0025	*	mg/L	5	12/8/2016 3:13:43 PM	29034

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 1611792

Date Reported: 1/19/2017

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: OW-30

Project: 2016 4th QTR Ground Water

Collection Date: 11/14/2016 8:20:00 AM

Lab ID: 1611792-002

Matrix: AQUEOUS

Received Date: 11/15/2016 5:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 245.1: MERCURY							Analyst: DBD	
Mercury	0.000088	0.000053	0.00020	J	mg/L	1	12/1/2016 9:50:37 AM	28920
EPA METHOD 8260B: VOLATILES							Analyst: DJF	
Benzene	ND	0.48	5.0		µg/L	5	11/17/2016 7:30:24 PM	R38783
Toluene	ND	0.59	5.0		µg/L	5	11/17/2016 7:30:24 PM	R38783
Ethylbenzene	ND	0.56	5.0		µg/L	5	11/17/2016 7:30:24 PM	R38783
Methyl tert-butyl ether (MTBE)	3500	11	50		µg/L	50	11/17/2016 7:01:36 PM	R38783
1,2,4-Trimethylbenzene	ND	0.55	5.0		µg/L	5	11/17/2016 7:30:24 PM	R38783
1,3,5-Trimethylbenzene	ND	0.58	5.0		µg/L	5	11/17/2016 7:30:24 PM	R38783
1,2-Dichloroethane (EDC)	1.6	0.58	5.0	J	µg/L	5	11/17/2016 7:30:24 PM	R38783
1,2-Dibromoethane (EDB)	ND	0.56	5.0		µg/L	5	11/17/2016 7:30:24 PM	R38783
Naphthalene	ND	0.46	10		µg/L	5	11/17/2016 7:30:24 PM	R38783
1-Methylnaphthalene	ND	1.0	20		µg/L	5	11/17/2016 7:30:24 PM	R38783
2-Methylnaphthalene	ND	0.79	20		µg/L	5	11/17/2016 7:30:24 PM	R38783
Acetone	ND	25	50		µg/L	5	11/17/2016 7:30:24 PM	R38783
Bromobenzene	ND	0.49	5.0		µg/L	5	11/17/2016 7:30:24 PM	R38783
Bromodichloromethane	ND	0.70	5.0		µg/L	5	11/17/2016 7:30:24 PM	R38783
Bromoform	ND	0.51	5.0		µg/L	5	11/17/2016 7:30:24 PM	R38783
Bromomethane	ND	3.9	15		µg/L	5	11/17/2016 7:30:24 PM	R38783
2-Butanone	ND	3.7	50		µg/L	5	11/17/2016 7:30:24 PM	R38783
Carbon disulfide	ND	3.0	50		µg/L	5	11/17/2016 7:30:24 PM	R38783
Carbon Tetrachloride	ND	0.54	5.0		µg/L	5	11/17/2016 7:30:24 PM	R38783
Chlorobenzene	ND	0.57	5.0		µg/L	5	11/17/2016 7:30:24 PM	R38783
Chloroethane	ND	0.96	10		µg/L	5	11/17/2016 7:30:24 PM	R38783
Chloroform	ND	0.44	5.0		µg/L	5	11/17/2016 7:30:24 PM	R38783
Chloromethane	ND	1.1	15		µg/L	5	11/17/2016 7:30:24 PM	R38783
2-Chlorotoluene	ND	2.0	5.0		µg/L	5	11/17/2016 7:30:24 PM	R38783
4-Chlorotoluene	ND	0.64	5.0		µg/L	5	11/17/2016 7:30:24 PM	R38783
cis-1,2-DCE	ND	0.62	5.0		µg/L	5	11/17/2016 7:30:24 PM	R38783
cis-1,3-Dichloropropene	ND	0.53	5.0		µg/L	5	11/17/2016 7:30:24 PM	R38783
1,2-Dibromo-3-chloropropane	ND	1.2	10		µg/L	5	11/17/2016 7:30:24 PM	R38783
Dibromochloromethane	ND	0.43	5.0		µg/L	5	11/17/2016 7:30:24 PM	R38783
Dibromomethane	ND	0.60	5.0		µg/L	5	11/17/2016 7:30:24 PM	R38783
1,2-Dichlorobenzene	ND	2.0	5.0		µg/L	5	11/17/2016 7:30:24 PM	R38783
1,3-Dichlorobenzene	ND	0.72	5.0		µg/L	5	11/17/2016 7:30:24 PM	R38783
1,4-Dichlorobenzene	ND	0.71	5.0		µg/L	5	11/17/2016 7:30:24 PM	R38783
Dichlorodifluoromethane	ND	1.8	5.0		µg/L	5	11/17/2016 7:30:24 PM	R38783
1,1-Dichloroethane	ND	0.54	5.0		µg/L	5	11/17/2016 7:30:24 PM	R38783
1,1-Dichloroethene	ND	0.54	5.0		µg/L	5	11/17/2016 7:30:24 PM	R38783
1,2-Dichloropropane	ND	0.55	5.0		µg/L	5	11/17/2016 7:30:24 PM	R38783

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 1611792

Date Reported: 1/19/2017

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: OW-30

Project: 2016 4th QTR Ground Water

Collection Date: 11/14/2016 8:20:00 AM

Lab ID: 1611792-002

Matrix: AQUEOUS

Received Date: 11/15/2016 5:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: DJF	
1,3-Dichloropropane	ND	0.78	5.0		µg/L	5	11/17/2016 7:30:24 PM	R38783
2,2-Dichloropropane	ND	0.83	10		µg/L	5	11/17/2016 7:30:24 PM	R38783
1,1-Dichloropropene	ND	0.67	5.0		µg/L	5	11/17/2016 7:30:24 PM	R38783
Hexachlorobutadiene	ND	0.99	5.0		µg/L	5	11/17/2016 7:30:24 PM	R38783
2-Hexanone	ND	4.2	50		µg/L	5	11/17/2016 7:30:24 PM	R38783
Isopropylbenzene	ND	0.52	5.0		µg/L	5	11/17/2016 7:30:24 PM	R38783
4-Isopropyltoluene	ND	0.70	5.0		µg/L	5	11/17/2016 7:30:24 PM	R38783
4-Methyl-2-pentanone	ND	2.1	50		µg/L	5	11/17/2016 7:30:24 PM	R38783
Methylene Chloride	ND	0.94	15		µg/L	5	11/17/2016 7:30:24 PM	R38783
n-Butylbenzene	ND	0.80	15		µg/L	5	11/17/2016 7:30:24 PM	R38783
n-Propylbenzene	ND	0.66	5.0		µg/L	5	11/17/2016 7:30:24 PM	R38783
sec-Butylbenzene	ND	0.62	5.0		µg/L	5	11/17/2016 7:30:24 PM	R38783
Styrene	ND	0.55	5.0		µg/L	5	11/17/2016 7:30:24 PM	R38783
tert-Butylbenzene	ND	0.58	5.0		µg/L	5	11/17/2016 7:30:24 PM	R38783
1,1,1,2-Tetrachloroethane	ND	0.56	5.0		µg/L	5	11/17/2016 7:30:24 PM	R38783
1,1,2,2-Tetrachloroethane	ND	0.64	10		µg/L	5	11/17/2016 7:30:24 PM	R38783
Tetrachloroethene (PCE)	ND	0.76	5.0		µg/L	5	11/17/2016 7:30:24 PM	R38783
trans-1,2-DCE	ND	2.0	5.0		µg/L	5	11/17/2016 7:30:24 PM	R38783
trans-1,3-Dichloropropene	ND	0.52	5.0		µg/L	5	11/17/2016 7:30:24 PM	R38783
1,2,3-Trichlorobenzene	ND	0.56	5.0		µg/L	5	11/17/2016 7:30:24 PM	R38783
1,2,4-Trichlorobenzene	ND	0.66	5.0		µg/L	5	11/17/2016 7:30:24 PM	R38783
1,1,1-Trichloroethane	ND	0.46	5.0		µg/L	5	11/17/2016 7:30:24 PM	R38783
1,1,2-Trichloroethane	ND	0.64	5.0		µg/L	5	11/17/2016 7:30:24 PM	R38783
Trichloroethene (TCE)	ND	0.88	5.0		µg/L	5	11/17/2016 7:30:24 PM	R38783
Trichlorofluoromethane	ND	1.0	5.0		µg/L	5	11/17/2016 7:30:24 PM	R38783
1,2,3-Trichloropropane	ND	1.0	10		µg/L	5	11/17/2016 7:30:24 PM	R38783
Vinyl chloride	ND	0.98	5.0		µg/L	5	11/17/2016 7:30:24 PM	R38783
Xylenes, Total	ND	1.8	7.5		µg/L	5	11/17/2016 7:30:24 PM	R38783
Surr: 1,2-Dichloroethane-d4	101	0	70-130		%Rec	5	11/17/2016 7:30:24 PM	R38783
Surr: 4-Bromofluorobenzene	96.3	0	70-130		%Rec	5	11/17/2016 7:30:24 PM	R38783
Surr: Dibromofluoromethane	106	0	70-130		%Rec	5	11/17/2016 7:30:24 PM	R38783
Surr: Toluene-d8	102	0	70-130		%Rec	5	11/17/2016 7:30:24 PM	R38783

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 1611792

Date Reported: 1/19/2017

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: NAPIS-2

Project: 2016 4th QTR Ground Water

Collection Date: 11/14/2016 11:35:00 AM

Lab ID: 1611792-003

Matrix: AQUEOUS

Received Date: 11/15/2016 5:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015M/D: DIESEL RANGE							Analyst: JME	
Diesel Range Organics (DRO)	1.0	0.69	1.0		mg/L	1	11/17/2016 11:25:04 PM	28698
Motor Oil Range Organics (MRO)	ND	5.0	5.0		mg/L	1	11/17/2016 11:25:04 PM	28698
Surr: DNOP	110	0	77.1-144		%Rec	1	11/17/2016 11:25:04 PM	28698
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB	
Gasoline Range Organics (GRO)	0.56	0.051	0.10		mg/L	2	11/16/2016 4:33:26 PM	G38747
Surr: BFB	111	0	66.4-120		%Rec	2	11/16/2016 4:33:26 PM	G38747
EPA METHOD 300.0: ANIONS							Analyst: LGT	
Fluoride	1.7	0.050	0.10		mg/L	1	11/24/2016 12:32:55 AM	R38979
Chloride	310	1.0	10		mg/L	20	11/16/2016 3:24:36 PM	R38771
Bromide	0.97	0.044	0.10		mg/L	1	11/16/2016 3:12:11 PM	R38771
Phosphorus, Orthophosphate (As P)	ND	0.076	0.50	H	mg/L	1	11/16/2016 3:12:11 PM	R38771
Sulfate	11	0.14	0.50		mg/L	1	11/16/2016 3:12:11 PM	R38771
Nitrate+Nitrite as N	ND	0.46	1.0		mg/L	5	11/16/2016 4:51:30 PM	R38771
EPA METHOD 200.7: DISSOLVED METALS							Analyst: MED	
Barium	1.5	0.0066	0.010		mg/L	5	12/12/2016 1:13:52 PM	A39337
Cadmium	ND	0.00075	0.0020		mg/L	1	12/9/2016 1:28:46 PM	A39280
Calcium	77	0.50	1.0		mg/L	1	12/9/2016 1:28:46 PM	A39280
Chromium	ND	0.0018	0.0060		mg/L	1	12/9/2016 1:28:46 PM	A39280
Copper	ND	0.0040	0.0060		mg/L	1	12/9/2016 1:28:46 PM	A39280
Iron	1.5	0.10	0.10	*	mg/L	5	12/12/2016 1:13:52 PM	A39337
Magnesium	16	0.50	1.0		mg/L	1	12/9/2016 1:28:46 PM	A39280
Manganese	1.1	0.0016	0.010	*	mg/L	5	12/12/2016 1:13:52 PM	A39337
Potassium	0.62	0.50	1.0	J	mg/L	1	12/9/2016 1:28:46 PM	A39280
Silver	ND	0.0028	0.0050		mg/L	1	12/9/2016 1:28:46 PM	A39280
Sodium	380	2.5	5.0		mg/L	5	12/12/2016 1:13:52 PM	A39337
Zinc	ND	0.0028	0.010		mg/L	1	12/9/2016 1:28:46 PM	A39280
EPA METHOD 200.7: TOTAL METALS							Analyst: MED	
Barium	1.9	0.0079	0.020		mg/L	10	12/9/2016 11:36:49 AM	29034
Cadmium	ND	0.0015	0.0020		mg/L	1	12/8/2016 3:24:32 PM	29034
Chromium	0.0069	0.0027	0.0060		mg/L	1	12/8/2016 3:24:32 PM	29034
Copper	0.0071	0.0030	0.0060		mg/L	1	12/8/2016 3:24:32 PM	29034
Iron	5.5	0.20	0.20	*	mg/L	10	12/9/2016 11:36:49 AM	29034
Manganese	1.3	0.0027	0.020	*	mg/L	10	12/9/2016 11:36:49 AM	29034
Silver	0.0017	0.0015	0.0050	J	mg/L	1	12/8/2016 3:24:32 PM	29034
Zinc	0.030	0.0027	0.010		mg/L	1	12/8/2016 3:24:32 PM	29034
EPA 200.8: DISSOLVED METALS							Analyst: JLF	
Arsenic	0.0085	0.00069	0.0050		mg/L	5	11/30/2016 5:27:52 PM	R39071

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 1611792

Date Reported: 1/19/2017

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: NAPIS-2

Project: 2016 4th QTR Ground Water

Collection Date: 11/14/2016 11:35:00 AM

Lab ID: 1611792-003

Matrix: AQUEOUS

Received Date: 11/15/2016 5:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA 200.8: DISSOLVED METALS							Analyst: JLF	
Lead	0.00029	0.00017	0.00050	J	mg/L	1	11/28/2016 5:23:09 PM	C39007
Selenium	0.0078	0.0042	0.020	J	mg/L	20	11/30/2016 5:33:00 PM	R39071
Uranium	0.00051	0.000051	0.00050		mg/L	1	11/28/2016 5:23:09 PM	C39007
200.8 ICPMS METALS:TOTAL							Analyst: JLF	
Arsenic	0.0084	0.0011	0.0050		mg/L	5	12/8/2016 3:23:59 PM	29034
Lead	0.0070	0.000081	0.00050		mg/L	1	12/7/2016 4:26:23 PM	29034
Selenium	0.0050	0.0037	0.020	J	mg/L	20	12/8/2016 3:34:16 PM	29034
Uranium	0.00085	0.00017	0.00050		mg/L	1	12/7/2016 4:26:23 PM	29034
EPA METHOD 245.1: MERCURY							Analyst: DBD	
Mercury	0.00011	0.000053	0.00020	J	mg/L	1	12/1/2016 9:58:38 AM	28920
EPA METHOD 8260B: VOLATILES							Analyst: DJF	
Benzene	4.1	0.096	1.0		µg/L	1	11/17/2016 7:59:10 PM	R38783
Toluene	0.13	0.12	1.0	J	µg/L	1	11/17/2016 7:59:10 PM	R38783
Ethylbenzene	1.4	0.11	1.0		µg/L	1	11/17/2016 7:59:10 PM	R38783
Methyl tert-butyl ether (MTBE)	160	0.21	1.0		µg/L	1	11/17/2016 7:59:10 PM	R38783
1,2,4-Trimethylbenzene	0.18	0.11	1.0	J	µg/L	1	11/17/2016 7:59:10 PM	R38783
1,3,5-Trimethylbenzene	ND	0.12	1.0		µg/L	1	11/17/2016 7:59:10 PM	R38783
1,2-Dichloroethane (EDC)	ND	0.12	1.0		µg/L	1	11/17/2016 7:59:10 PM	R38783
1,2-Dibromoethane (EDB)	ND	0.11	1.0		µg/L	1	11/17/2016 7:59:10 PM	R38783
Naphthalene	1.4	0.093	2.0	J	µg/L	1	11/17/2016 7:59:10 PM	R38783
1-Methylnaphthalene	1.7	0.20	4.0	J	µg/L	1	11/17/2016 7:59:10 PM	R38783
2-Methylnaphthalene	ND	0.16	4.0		µg/L	1	11/17/2016 7:59:10 PM	R38783
Acetone	7.1	4.9	10	J	µg/L	1	11/17/2016 7:59:10 PM	R38783
Bromobenzene	ND	0.098	1.0		µg/L	1	11/17/2016 7:59:10 PM	R38783
Bromodichloromethane	0.23	0.14	1.0	J	µg/L	1	11/17/2016 7:59:10 PM	R38783
Bromoform	ND	0.10	1.0		µg/L	1	11/17/2016 7:59:10 PM	R38783
Bromomethane	ND	0.78	3.0		µg/L	1	11/17/2016 7:59:10 PM	R38783
2-Butanone	ND	0.74	10		µg/L	1	11/17/2016 7:59:10 PM	R38783
Carbon disulfide	ND	0.60	10		µg/L	1	11/17/2016 7:59:10 PM	R38783
Carbon Tetrachloride	ND	0.11	1.0		µg/L	1	11/17/2016 7:59:10 PM	R38783
Chlorobenzene	ND	0.11	1.0		µg/L	1	11/17/2016 7:59:10 PM	R38783
Chloroethane	ND	0.19	2.0		µg/L	1	11/17/2016 7:59:10 PM	R38783
Chloroform	ND	0.089	1.0		µg/L	1	11/17/2016 7:59:10 PM	R38783
Chloromethane	ND	0.21	3.0		µg/L	1	11/17/2016 7:59:10 PM	R38783
2-Chlorotoluene	ND	0.40	1.0		µg/L	1	11/17/2016 7:59:10 PM	R38783
4-Chlorotoluene	0.50	0.13	1.0	J	µg/L	1	11/17/2016 7:59:10 PM	R38783
cis-1,2-DCE	ND	0.12	1.0		µg/L	1	11/17/2016 7:59:10 PM	R38783
cis-1,3-Dichloropropene	ND	0.11	1.0		µg/L	1	11/17/2016 7:59:10 PM	R38783

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 1611792

Date Reported: 1/19/2017

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: NAPIS-2

Project: 2016 4th QTR Ground Water

Collection Date: 11/14/2016 11:35:00 AM

Lab ID: 1611792-003

Matrix: AQUEOUS

Received Date: 11/15/2016 5:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: DJF	
1,2-Dibromo-3-chloropropane	ND	0.23	2.0		µg/L	1	11/17/2016 7:59:10 PM	R38783
Dibromochloromethane	ND	0.087	1.0		µg/L	1	11/17/2016 7:59:10 PM	R38783
Dibromomethane	ND	0.12	1.0		µg/L	1	11/17/2016 7:59:10 PM	R38783
1,2-Dichlorobenzene	ND	0.40	1.0		µg/L	1	11/17/2016 7:59:10 PM	R38783
1,3-Dichlorobenzene	ND	0.14	1.0		µg/L	1	11/17/2016 7:59:10 PM	R38783
1,4-Dichlorobenzene	ND	0.14	1.0		µg/L	1	11/17/2016 7:59:10 PM	R38783
Dichlorodifluoromethane	ND	0.36	1.0		µg/L	1	11/17/2016 7:59:10 PM	R38783
1,1-Dichloroethane	ND	0.11	1.0		µg/L	1	11/17/2016 7:59:10 PM	R38783
1,1-Dichloroethene	ND	0.11	1.0		µg/L	1	11/17/2016 7:59:10 PM	R38783
1,2-Dichloropropane	ND	0.11	1.0		µg/L	1	11/17/2016 7:59:10 PM	R38783
1,3-Dichloropropane	ND	0.16	1.0		µg/L	1	11/17/2016 7:59:10 PM	R38783
2,2-Dichloropropane	ND	0.17	2.0		µg/L	1	11/17/2016 7:59:10 PM	R38783
1,1-Dichloropropene	ND	0.13	1.0		µg/L	1	11/17/2016 7:59:10 PM	R38783
Hexachlorobutadiene	ND	0.20	1.0		µg/L	1	11/17/2016 7:59:10 PM	R38783
2-Hexanone	ND	0.84	10		µg/L	1	11/17/2016 7:59:10 PM	R38783
Isopropylbenzene	0.33	0.10	1.0	J	µg/L	1	11/17/2016 7:59:10 PM	R38783
4-Isopropyltoluene	ND	0.14	1.0		µg/L	1	11/17/2016 7:59:10 PM	R38783
4-Methyl-2-pentanone	ND	0.43	10		µg/L	1	11/17/2016 7:59:10 PM	R38783
Methylene Chloride	ND	0.19	3.0		µg/L	1	11/17/2016 7:59:10 PM	R38783
n-Butylbenzene	0.48	0.16	3.0	J	µg/L	1	11/17/2016 7:59:10 PM	R38783
n-Propylbenzene	0.60	0.13	1.0	J	µg/L	1	11/17/2016 7:59:10 PM	R38783
sec-Butylbenzene	0.55	0.12	1.0	J	µg/L	1	11/17/2016 7:59:10 PM	R38783
Styrene	ND	0.11	1.0		µg/L	1	11/17/2016 7:59:10 PM	R38783
tert-Butylbenzene	0.31	0.12	1.0	J	µg/L	1	11/17/2016 7:59:10 PM	R38783
1,1,1,2-Tetrachloroethane	ND	0.11	1.0		µg/L	1	11/17/2016 7:59:10 PM	R38783
1,1,2,2-Tetrachloroethane	ND	0.13	2.0		µg/L	1	11/17/2016 7:59:10 PM	R38783
Tetrachloroethene (PCE)	ND	0.15	1.0		µg/L	1	11/17/2016 7:59:10 PM	R38783
trans-1,2-DCE	ND	0.40	1.0		µg/L	1	11/17/2016 7:59:10 PM	R38783
trans-1,3-Dichloropropene	ND	0.10	1.0		µg/L	1	11/17/2016 7:59:10 PM	R38783
1,2,3-Trichlorobenzene	ND	0.11	1.0		µg/L	1	11/17/2016 7:59:10 PM	R38783
1,2,4-Trichlorobenzene	ND	0.13	1.0		µg/L	1	11/17/2016 7:59:10 PM	R38783
1,1,1-Trichloroethane	ND	0.091	1.0		µg/L	1	11/17/2016 7:59:10 PM	R38783
1,1,2-Trichloroethane	ND	0.13	1.0		µg/L	1	11/17/2016 7:59:10 PM	R38783
Trichloroethene (TCE)	ND	0.18	1.0		µg/L	1	11/17/2016 7:59:10 PM	R38783
Trichlorofluoromethane	ND	0.20	1.0		µg/L	1	11/17/2016 7:59:10 PM	R38783
1,2,3-Trichloropropane	ND	0.20	2.0		µg/L	1	11/17/2016 7:59:10 PM	R38783
Vinyl chloride	ND	0.20	1.0		µg/L	1	11/17/2016 7:59:10 PM	R38783
Xylenes, Total	ND	0.37	1.5		µg/L	1	11/17/2016 7:59:10 PM	R38783
Surr: 1,2-Dichloroethane-d4	87.9	0	70-130		%Rec	1	11/17/2016 7:59:10 PM	R38783

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 1611792

Date Reported: 1/19/2017

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: NAPIS-2

Project: 2016 4th QTR Ground Water

Collection Date: 11/14/2016 11:35:00 AM

Lab ID: 1611792-003

Matrix: AQUEOUS

Received Date: 11/15/2016 5:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: DJF	
Surr: 4-Bromofluorobenzene	96.8	0	70-130		%Rec	1	11/17/2016 7:59:10 PM	R38783
Surr: Dibromofluoromethane	89.9	0	70-130		%Rec	1	11/17/2016 7:59:10 PM	R38783
Surr: Toluene-d8	101	0	70-130		%Rec	1	11/17/2016 7:59:10 PM	R38783

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 1611792

Date Reported: 1/19/2017

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: KA-3

Project: 2016 4th QTR Ground Water

Collection Date: 11/14/2016 11:45:00 AM

Lab ID: 1611792-004

Matrix: AQUEOUS

Received Date: 11/15/2016 5:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015M/D: DIESEL RANGE								
							Analyst: JME	
Diesel Range Organics (DRO)	ND	0.69	1.0		mg/L	1	11/17/2016 11:46:47 PM	28698
Motor Oil Range Organics (MRO)	ND	5.0	5.0		mg/L	1	11/17/2016 11:46:47 PM	28698
Surr: DNOP	107	0	77.1-144		%Rec	1	11/17/2016 11:46:47 PM	28698
EPA METHOD 8015D: GASOLINE RANGE								
							Analyst: NSB	
Gasoline Range Organics (GRO)	0.13	0.025	0.050		mg/L	1	11/16/2016 4:57:44 PM	G38747
Surr: BFB	107	0	66.4-120		%Rec	1	11/16/2016 4:57:44 PM	G38747
EPA METHOD 300.0: ANIONS								
							Analyst: LGT	
Fluoride	0.93	0.050	0.10		mg/L	1	11/24/2016 12:45:20 AM	R38979
Chloride	190	1.0	10		mg/L	20	11/16/2016 3:49:26 PM	R38771
Bromide	0.60	0.044	0.10		mg/L	1	11/16/2016 3:37:01 PM	R38771
Phosphorus, Orthophosphate (As P)	ND	0.076	0.50	H	mg/L	1	11/16/2016 3:37:01 PM	R38771
Sulfate	35	0.14	0.50		mg/L	1	11/16/2016 3:37:01 PM	R38771
Nitrate+Nitrite as N	ND	0.46	1.0		mg/L	5	11/16/2016 5:41:07 PM	R38771
EPA METHOD 200.7: DISSOLVED METALS								
							Analyst: MED	
Barium	1.2	0.0066	0.010		mg/L	5	12/12/2016 1:15:49 PM	A39337
Cadmium	ND	0.00075	0.0020		mg/L	1	12/9/2016 1:30:48 PM	A39280
Calcium	81	0.50	1.0		mg/L	1	12/9/2016 1:30:48 PM	A39280
Chromium	ND	0.0018	0.0060		mg/L	1	12/9/2016 1:30:48 PM	A39280
Copper	ND	0.0040	0.0060		mg/L	1	12/9/2016 1:30:48 PM	A39280
Iron	0.12	0.020	0.020		mg/L	1	12/9/2016 1:30:48 PM	A39280
Magnesium	14	0.50	1.0		mg/L	1	12/9/2016 1:30:48 PM	A39280
Manganese	1.3	0.0016	0.010	*	mg/L	5	12/12/2016 1:15:49 PM	A39337
Potassium	0.91	0.50	1.0	J	mg/L	1	12/9/2016 1:30:48 PM	A39280
Silver	ND	0.0028	0.0050		mg/L	1	12/9/2016 1:30:48 PM	A39280
Sodium	290	2.5	5.0		mg/L	5	12/12/2016 1:15:49 PM	A39337
Zinc	0.0031	0.0028	0.010	J	mg/L	1	12/9/2016 1:30:48 PM	A39280
EPA METHOD 200.7: TOTAL METALS								
							Analyst: MED	
Barium	1.2	0.0040	0.010		mg/L	5	12/9/2016 11:38:46 AM	29034
Cadmium	ND	0.0015	0.0020		mg/L	1	12/8/2016 3:26:14 PM	29034
Chromium	ND	0.0027	0.0060		mg/L	1	12/8/2016 3:26:14 PM	29034
Copper	ND	0.0030	0.0060		mg/L	1	12/8/2016 3:26:14 PM	29034
Iron	1.8	0.10	0.10	*	mg/L	5	12/9/2016 11:38:46 AM	29034
Manganese	1.3	0.0014	0.010	*	mg/L	5	12/9/2016 11:38:46 AM	29034
Silver	0.0030	0.0015	0.0050	J	mg/L	1	12/8/2016 3:26:14 PM	29034
Zinc	0.0042	0.0027	0.010	J	mg/L	1	12/8/2016 3:26:14 PM	29034
EPA 200.8: DISSOLVED METALS								
							Analyst: JLF	
Arsenic	0.0036	0.00069	0.0050	J	mg/L	5	11/30/2016 5:38:08 PM	R39071

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 1611792

Date Reported: 1/19/2017

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: KA-3

Project: 2016 4th QTR Ground Water

Collection Date: 11/14/2016 11:45:00 AM

Lab ID: 1611792-004

Matrix: AQUEOUS

Received Date: 11/15/2016 5:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA 200.8: DISSOLVED METALS							Analyst: JLF	
Lead	ND	0.00017	0.00050		mg/L	1	11/28/2016 5:26:12 PM	C39007
Selenium	0.0071	0.0042	0.020	J	mg/L	20	11/30/2016 5:43:16 PM	R39071
Uranium	0.0099	0.000051	0.00050		mg/L	1	11/28/2016 5:26:12 PM	C39007
200.8 ICPMS METALS:TOTAL							Analyst: JLF	
Arsenic	0.0068	0.0011	0.0050		mg/L	5	12/8/2016 3:39:24 PM	29034
Lead	0.00025	0.000081	0.00050	J	mg/L	1	12/7/2016 4:46:59 PM	29034
Selenium	0.0049	0.0037	0.020	J	mg/L	20	12/8/2016 4:05:09 PM	29034
Uranium	0.0089	0.00087	0.0025		mg/L	5	12/8/2016 3:39:24 PM	29034
EPA METHOD 245.1: MERCURY							Analyst: DBD	
Mercury	0.000084	0.000053	0.00020	J	mg/L	1	12/1/2016 9:54:37 AM	28920
EPA METHOD 8260B: VOLATILES							Analyst: DJF	
Benzene	4.4	0.096	1.0		µg/L	1	11/17/2016 8:27:56 PM	R38783
Toluene	ND	0.12	1.0		µg/L	1	11/17/2016 8:27:56 PM	R38783
Ethylbenzene	1.3	0.11	1.0		µg/L	1	11/17/2016 8:27:56 PM	R38783
Methyl tert-butyl ether (MTBE)	37	0.21	1.0		µg/L	1	11/17/2016 8:27:56 PM	R38783
1,2,4-Trimethylbenzene	ND	0.11	1.0		µg/L	1	11/17/2016 8:27:56 PM	R38783
1,3,5-Trimethylbenzene	ND	0.12	1.0		µg/L	1	11/17/2016 8:27:56 PM	R38783
1,2-Dichloroethane (EDC)	ND	0.12	1.0		µg/L	1	11/17/2016 8:27:56 PM	R38783
1,2-Dibromoethane (EDB)	ND	0.11	1.0		µg/L	1	11/17/2016 8:27:56 PM	R38783
Naphthalene	1.5	0.093	2.0	J	µg/L	1	11/17/2016 8:27:56 PM	R38783
1-Methylnaphthalene	1.1	0.20	4.0	J	µg/L	1	11/17/2016 8:27:56 PM	R38783
2-Methylnaphthalene	0.62	0.16	4.0	J	µg/L	1	11/17/2016 8:27:56 PM	R38783
Acetone	5.4	4.9	10	J	µg/L	1	11/17/2016 8:27:56 PM	R38783
Bromobenzene	ND	0.098	1.0		µg/L	1	11/17/2016 8:27:56 PM	R38783
Bromodichloromethane	ND	0.14	1.0		µg/L	1	11/17/2016 8:27:56 PM	R38783
Bromoform	ND	0.10	1.0		µg/L	1	11/17/2016 8:27:56 PM	R38783
Bromomethane	ND	0.78	3.0		µg/L	1	11/17/2016 8:27:56 PM	R38783
2-Butanone	ND	0.74	10		µg/L	1	11/17/2016 8:27:56 PM	R38783
Carbon disulfide	ND	0.60	10		µg/L	1	11/17/2016 8:27:56 PM	R38783
Carbon Tetrachloride	ND	0.11	1.0		µg/L	1	11/17/2016 8:27:56 PM	R38783
Chlorobenzene	ND	0.11	1.0		µg/L	1	11/17/2016 8:27:56 PM	R38783
Chloroethane	ND	0.19	2.0		µg/L	1	11/17/2016 8:27:56 PM	R38783
Chloroform	ND	0.089	1.0		µg/L	1	11/17/2016 8:27:56 PM	R38783
Chloromethane	ND	0.21	3.0		µg/L	1	11/17/2016 8:27:56 PM	R38783
2-Chlorotoluene	ND	0.40	1.0		µg/L	1	11/17/2016 8:27:56 PM	R38783
4-Chlorotoluene	ND	0.13	1.0		µg/L	1	11/17/2016 8:27:56 PM	R38783
cis-1,2-DCE	0.18	0.12	1.0	J	µg/L	1	11/17/2016 8:27:56 PM	R38783
cis-1,3-Dichloropropene	ND	0.11	1.0		µg/L	1	11/17/2016 8:27:56 PM	R38783

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 1611792

Date Reported: 1/19/2017

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: KA-3

Project: 2016 4th QTR Ground Water

Collection Date: 11/14/2016 11:45:00 AM

Lab ID: 1611792-004

Matrix: AQUEOUS

Received Date: 11/15/2016 5:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: DJF	
1,2-Dibromo-3-chloropropane	ND	0.23	2.0		µg/L	1	11/17/2016 8:27:56 PM	R38783
Dibromochloromethane	ND	0.087	1.0		µg/L	1	11/17/2016 8:27:56 PM	R38783
Dibromomethane	ND	0.12	1.0		µg/L	1	11/17/2016 8:27:56 PM	R38783
1,2-Dichlorobenzene	ND	0.40	1.0		µg/L	1	11/17/2016 8:27:56 PM	R38783
1,3-Dichlorobenzene	ND	0.14	1.0		µg/L	1	11/17/2016 8:27:56 PM	R38783
1,4-Dichlorobenzene	ND	0.14	1.0		µg/L	1	11/17/2016 8:27:56 PM	R38783
Dichlorodifluoromethane	ND	0.36	1.0		µg/L	1	11/17/2016 8:27:56 PM	R38783
1,1-Dichloroethane	ND	0.11	1.0		µg/L	1	11/17/2016 8:27:56 PM	R38783
1,1-Dichloroethene	ND	0.11	1.0		µg/L	1	11/17/2016 8:27:56 PM	R38783
1,2-Dichloropropane	ND	0.11	1.0		µg/L	1	11/17/2016 8:27:56 PM	R38783
1,3-Dichloropropane	ND	0.16	1.0		µg/L	1	11/17/2016 8:27:56 PM	R38783
2,2-Dichloropropane	ND	0.17	2.0		µg/L	1	11/17/2016 8:27:56 PM	R38783
1,1-Dichloropropene	ND	0.13	1.0		µg/L	1	11/17/2016 8:27:56 PM	R38783
Hexachlorobutadiene	ND	0.20	1.0		µg/L	1	11/17/2016 8:27:56 PM	R38783
2-Hexanone	ND	0.84	10		µg/L	1	11/17/2016 8:27:56 PM	R38783
Isopropylbenzene	0.11	0.10	1.0	J	µg/L	1	11/17/2016 8:27:56 PM	R38783
4-Isopropyltoluene	ND	0.14	1.0		µg/L	1	11/17/2016 8:27:56 PM	R38783
4-Methyl-2-pentanone	ND	0.43	10		µg/L	1	11/17/2016 8:27:56 PM	R38783
Methylene Chloride	ND	0.19	3.0		µg/L	1	11/17/2016 8:27:56 PM	R38783
n-Butylbenzene	ND	0.16	3.0		µg/L	1	11/17/2016 8:27:56 PM	R38783
n-Propylbenzene	0.25	0.13	1.0	J	µg/L	1	11/17/2016 8:27:56 PM	R38783
sec-Butylbenzene	0.36	0.12	1.0	J	µg/L	1	11/17/2016 8:27:56 PM	R38783
Styrene	ND	0.11	1.0		µg/L	1	11/17/2016 8:27:56 PM	R38783
tert-Butylbenzene	0.26	0.12	1.0	J	µg/L	1	11/17/2016 8:27:56 PM	R38783
1,1,1,2-Tetrachloroethane	ND	0.11	1.0		µg/L	1	11/17/2016 8:27:56 PM	R38783
1,1,2,2-Tetrachloroethane	ND	0.13	2.0		µg/L	1	11/17/2016 8:27:56 PM	R38783
Tetrachloroethene (PCE)	ND	0.15	1.0		µg/L	1	11/17/2016 8:27:56 PM	R38783
trans-1,2-DCE	ND	0.40	1.0		µg/L	1	11/17/2016 8:27:56 PM	R38783
trans-1,3-Dichloropropene	ND	0.10	1.0		µg/L	1	11/17/2016 8:27:56 PM	R38783
1,2,3-Trichlorobenzene	ND	0.11	1.0		µg/L	1	11/17/2016 8:27:56 PM	R38783
1,2,4-Trichlorobenzene	ND	0.13	1.0		µg/L	1	11/17/2016 8:27:56 PM	R38783
1,1,1-Trichloroethane	ND	0.091	1.0		µg/L	1	11/17/2016 8:27:56 PM	R38783
1,1,2-Trichloroethane	ND	0.13	1.0		µg/L	1	11/17/2016 8:27:56 PM	R38783
Trichloroethene (TCE)	ND	0.18	1.0		µg/L	1	11/17/2016 8:27:56 PM	R38783
Trichlorofluoromethane	ND	0.20	1.0		µg/L	1	11/17/2016 8:27:56 PM	R38783
1,2,3-Trichloropropane	ND	0.20	2.0		µg/L	1	11/17/2016 8:27:56 PM	R38783
Vinyl chloride	ND	0.20	1.0		µg/L	1	11/17/2016 8:27:56 PM	R38783
Xylenes, Total	ND	0.37	1.5		µg/L	1	11/17/2016 8:27:56 PM	R38783
Surr: 1,2-Dichloroethane-d4	92.3	0	70-130		%Rec	1	11/17/2016 8:27:56 PM	R38783

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 1611792

Date Reported: 1/19/2017

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: KA-3

Project: 2016 4th QTR Ground Water

Collection Date: 11/14/2016 11:45:00 AM

Lab ID: 1611792-004

Matrix: AQUEOUS

Received Date: 11/15/2016 5:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: DJF	
Surr: 4-Bromofluorobenzene	94.9	0	70-130		%Rec	1	11/17/2016 8:27:56 PM	R38783
Surr: Dibromofluoromethane	96.0	0	70-130		%Rec	1	11/17/2016 8:27:56 PM	R38783
Surr: Toluene-d8	105	0	70-130		%Rec	1	11/17/2016 8:27:56 PM	R38783

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 1611792

Date Reported: 1/19/2017

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: NAPIS-3

Project: 2016 4th QTR Ground Water

Collection Date: 11/14/2016 1:40:00 PM

Lab ID: 1611792-005

Matrix: AQUEOUS

Received Date: 11/15/2016 5:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015M/D: DIESEL RANGE							Analyst: JME	
Diesel Range Organics (DRO)	0.89	0.69	1.0	J	mg/L	1	11/18/2016 12:08:42 AM	28698
Motor Oil Range Organics (MRO)	ND	5.0	5.0		mg/L	1	11/18/2016 12:08:42 AM	28698
Surr: DNOP	108	0	77.1-144		%Rec	1	11/18/2016 12:08:42 AM	28698
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB	
Gasoline Range Organics (GRO)	ND	0.051	0.10	D	mg/L	2	11/16/2016 5:22:01 PM	G38747
Surr: BFB	92.0	0	66.4-120	D	%Rec	2	11/16/2016 5:22:01 PM	G38747
EPA METHOD 300.0: ANIONS							Analyst: LGT	
Fluoride	1.7	0.25	0.50		mg/L	5	11/24/2016 12:57:44 AM	R38979
Chloride	320	2.5	25		mg/L	50	11/24/2016 1:10:08 AM	R38979
Nitrogen, Nitrite (As N)	ND	0.26	0.50		mg/L	5	11/16/2016 1:32:53 PM	R38771
Bromide	4.1	0.22	0.50		mg/L	5	11/16/2016 1:32:53 PM	R38771
Nitrogen, Nitrate (As N)	3.5	0.20	0.50		mg/L	5	11/16/2016 1:32:53 PM	R38771
Phosphorus, Orthophosphate (As P)	0.90	0.38	2.5	J	mg/L	5	11/16/2016 1:32:53 PM	R38771
Sulfate	230	0.71	2.5		mg/L	5	11/16/2016 1:32:53 PM	R38771
EPA METHOD 200.7: DISSOLVED METALS							Analyst: MED	
Barium	0.16	0.0013	0.0020		mg/L	1	12/9/2016 1:32:45 PM	A39280
Cadmium	ND	0.00075	0.0020		mg/L	1	12/9/2016 1:32:45 PM	A39280
Calcium	45	0.50	1.0		mg/L	1	12/9/2016 1:32:45 PM	A39280
Chromium	0.0031	0.0018	0.0060	J	mg/L	1	12/9/2016 1:32:45 PM	A39280
Copper	0.0080	0.0040	0.0060		mg/L	1	12/9/2016 1:32:45 PM	A39280
Iron	1.4	0.10	0.10	*	mg/L	5	12/12/2016 1:17:44 PM	A39337
Magnesium	4.5	0.50	1.0		mg/L	1	12/9/2016 1:32:45 PM	A39280
Manganese	0.36	0.00032	0.0020	*	mg/L	1	12/9/2016 1:32:45 PM	A39280
Potassium	3.1	0.50	1.0		mg/L	1	12/9/2016 1:32:45 PM	A39280
Silver	ND	0.0028	0.0050		mg/L	1	12/9/2016 1:32:45 PM	A39280
Sodium	570	5.0	10		mg/L	10	12/12/2016 1:19:40 PM	A39337
Zinc	0.047	0.0028	0.010		mg/L	1	12/9/2016 1:32:45 PM	A39280
EPA METHOD 200.7: TOTAL METALS							Analyst: MED	
Barium	3.0	0.0040	0.010	*	mg/L	5	12/9/2016 2:52:04 PM	29034
Cadmium	ND	0.0015	0.0020		mg/L	1	12/8/2016 3:28:08 PM	29034
Chromium	0.078	0.0027	0.0060		mg/L	1	12/8/2016 3:28:08 PM	29034
Copper	0.11	0.0030	0.0060		mg/L	1	12/8/2016 3:28:08 PM	29034
Iron	29	1.0	1.0	*	mg/L	50	12/9/2016 2:59:47 PM	29034
Manganese	2.9	0.0014	0.010	*	mg/L	5	12/9/2016 2:52:04 PM	29034
Silver	ND	0.0015	0.0050		mg/L	1	12/8/2016 3:28:08 PM	29034
Zinc	0.56	0.0027	0.010		mg/L	1	12/8/2016 3:28:08 PM	29034

EPA 200.8: DISSOLVED METALS

Analyst: **JLF**

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 1611792

Date Reported: 1/19/2017

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: NAPIS-3

Project: 2016 4th QTR Ground Water

Collection Date: 11/14/2016 1:40:00 PM

Lab ID: 1611792-005

Matrix: AQUEOUS

Received Date: 11/15/2016 5:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA 200.8: DISSOLVED METALS							Analyst: JLF	
Arsenic	0.0070	0.0028	0.020	J	mg/L	20	11/30/2016 6:03:53 PM	R39071
Lead	0.0063	0.00017	0.00050		mg/L	1	11/28/2016 5:29:15 PM	C39007
Selenium	0.016	0.0011	0.0050		mg/L	5	11/30/2016 5:48:25 PM	R39071
Uranium	0.034	0.00026	0.0025	*	mg/L	5	11/30/2016 5:48:25 PM	R39071
200.8 ICPMS METALS:TOTAL							Analyst: JLF	
Arsenic	0.011	0.0011	0.0050	*	mg/L	5	12/8/2016 4:10:17 PM	29034
Lead	0.079	0.00041	0.0025	*	mg/L	5	12/8/2016 4:10:17 PM	29034
Selenium	0.012	0.0037	0.020	J	mg/L	20	12/8/2016 4:15:26 PM	29034
Uranium	0.041	0.00087	0.0025	*	mg/L	5	12/8/2016 4:10:17 PM	29034
EPA METHOD 245.1: MERCURY							Analyst: DBD	
Mercury	0.00077	0.000053	0.00020		mg/L	1	12/1/2016 9:56:37 AM	28920
EPA METHOD 8260B: VOLATILES							Analyst: DJF	
Benzene	ND	0.096	1.0		µg/L	1	11/17/2016 10:23:02 PM	R38783
Toluene	0.21	0.12	1.0	J	µg/L	1	11/17/2016 10:23:02 PM	R38783
Ethylbenzene	ND	0.11	1.0		µg/L	1	11/17/2016 10:23:02 PM	R38783
Methyl tert-butyl ether (MTBE)	15	0.21	1.0		µg/L	1	11/17/2016 10:23:02 PM	R38783
1,2,4-Trimethylbenzene	0.25	0.11	1.0	J	µg/L	1	11/17/2016 10:23:02 PM	R38783
1,3,5-Trimethylbenzene	ND	0.12	1.0		µg/L	1	11/17/2016 10:23:02 PM	R38783
1,2-Dichloroethane (EDC)	0.34	0.12	1.0	J	µg/L	1	11/17/2016 10:23:02 PM	R38783
1,2-Dibromoethane (EDB)	ND	0.11	1.0		µg/L	1	11/17/2016 10:23:02 PM	R38783
Naphthalene	ND	0.093	2.0		µg/L	1	11/17/2016 10:23:02 PM	R38783
1-Methylnaphthalene	ND	0.20	4.0		µg/L	1	11/17/2016 10:23:02 PM	R38783
2-Methylnaphthalene	ND	0.16	4.0		µg/L	1	11/17/2016 10:23:02 PM	R38783
Acetone	ND	4.9	10		µg/L	1	11/17/2016 10:23:02 PM	R38783
Bromobenzene	ND	0.098	1.0		µg/L	1	11/17/2016 10:23:02 PM	R38783
Bromodichloromethane	ND	0.14	1.0		µg/L	1	11/17/2016 10:23:02 PM	R38783
Bromoform	ND	0.10	1.0		µg/L	1	11/17/2016 10:23:02 PM	R38783
Bromomethane	ND	0.78	3.0		µg/L	1	11/17/2016 10:23:02 PM	R38783
2-Butanone	ND	0.74	10		µg/L	1	11/17/2016 10:23:02 PM	R38783
Carbon disulfide	ND	0.60	10		µg/L	1	11/17/2016 10:23:02 PM	R38783
Carbon Tetrachloride	ND	0.11	1.0		µg/L	1	11/17/2016 10:23:02 PM	R38783
Chlorobenzene	ND	0.11	1.0		µg/L	1	11/17/2016 10:23:02 PM	R38783
Chloroethane	ND	0.19	2.0		µg/L	1	11/17/2016 10:23:02 PM	R38783
Chloroform	ND	0.089	1.0		µg/L	1	11/17/2016 10:23:02 PM	R38783
Chloromethane	ND	0.21	3.0		µg/L	1	11/17/2016 10:23:02 PM	R38783
2-Chlorotoluene	ND	0.40	1.0		µg/L	1	11/17/2016 10:23:02 PM	R38783
4-Chlorotoluene	ND	0.13	1.0		µg/L	1	11/17/2016 10:23:02 PM	R38783
cis-1,2-DCE	ND	0.12	1.0		µg/L	1	11/17/2016 10:23:02 PM	R38783

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: NAPIS-3

Project: 2016 4th QTR Ground Water

Collection Date: 11/14/2016 1:40:00 PM

Lab ID: 1611792-005

Matrix: AQUEOUS

Received Date: 11/15/2016 5:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: DJF	
cis-1,3-Dichloropropene	ND	0.11	1.0		µg/L	1	11/17/2016 10:23:02 PM	R38783
1,2-Dibromo-3-chloropropane	ND	0.23	2.0		µg/L	1	11/17/2016 10:23:02 PM	R38783
Dibromochloromethane	ND	0.087	1.0		µg/L	1	11/17/2016 10:23:02 PM	R38783
Dibromomethane	ND	0.12	1.0		µg/L	1	11/17/2016 10:23:02 PM	R38783
1,2-Dichlorobenzene	ND	0.40	1.0		µg/L	1	11/17/2016 10:23:02 PM	R38783
1,3-Dichlorobenzene	ND	0.14	1.0		µg/L	1	11/17/2016 10:23:02 PM	R38783
1,4-Dichlorobenzene	ND	0.14	1.0		µg/L	1	11/17/2016 10:23:02 PM	R38783
Dichlorodifluoromethane	ND	0.36	1.0		µg/L	1	11/17/2016 10:23:02 PM	R38783
1,1-Dichloroethane	ND	0.11	1.0		µg/L	1	11/17/2016 10:23:02 PM	R38783
1,1-Dichloroethene	ND	0.11	1.0		µg/L	1	11/17/2016 10:23:02 PM	R38783
1,2-Dichloropropane	ND	0.11	1.0		µg/L	1	11/17/2016 10:23:02 PM	R38783
1,3-Dichloropropane	ND	0.16	1.0		µg/L	1	11/17/2016 10:23:02 PM	R38783
2,2-Dichloropropane	ND	0.17	2.0		µg/L	1	11/17/2016 10:23:02 PM	R38783
1,1-Dichloropropene	ND	0.13	1.0		µg/L	1	11/17/2016 10:23:02 PM	R38783
Hexachlorobutadiene	ND	0.20	1.0		µg/L	1	11/17/2016 10:23:02 PM	R38783
2-Hexanone	ND	0.84	10		µg/L	1	11/17/2016 10:23:02 PM	R38783
Isopropylbenzene	ND	0.10	1.0		µg/L	1	11/17/2016 10:23:02 PM	R38783
4-Isopropyltoluene	ND	0.14	1.0		µg/L	1	11/17/2016 10:23:02 PM	R38783
4-Methyl-2-pentanone	ND	0.43	10		µg/L	1	11/17/2016 10:23:02 PM	R38783
Methylene Chloride	ND	0.19	3.0		µg/L	1	11/17/2016 10:23:02 PM	R38783
n-Butylbenzene	ND	0.16	3.0		µg/L	1	11/17/2016 10:23:02 PM	R38783
n-Propylbenzene	ND	0.13	1.0		µg/L	1	11/17/2016 10:23:02 PM	R38783
sec-Butylbenzene	ND	0.12	1.0		µg/L	1	11/17/2016 10:23:02 PM	R38783
Styrene	ND	0.11	1.0		µg/L	1	11/17/2016 10:23:02 PM	R38783
tert-Butylbenzene	ND	0.12	1.0		µg/L	1	11/17/2016 10:23:02 PM	R38783
1,1,1,2-Tetrachloroethane	ND	0.11	1.0		µg/L	1	11/17/2016 10:23:02 PM	R38783
1,1,2,2-Tetrachloroethane	ND	0.13	2.0		µg/L	1	11/17/2016 10:23:02 PM	R38783
Tetrachloroethene (PCE)	ND	0.15	1.0		µg/L	1	11/17/2016 10:23:02 PM	R38783
trans-1,2-DCE	ND	0.40	1.0		µg/L	1	11/17/2016 10:23:02 PM	R38783
trans-1,3-Dichloropropene	ND	0.10	1.0		µg/L	1	11/17/2016 10:23:02 PM	R38783
1,2,3-Trichlorobenzene	ND	0.11	1.0		µg/L	1	11/17/2016 10:23:02 PM	R38783
1,2,4-Trichlorobenzene	ND	0.13	1.0		µg/L	1	11/17/2016 10:23:02 PM	R38783
1,1,1-Trichloroethane	ND	0.091	1.0		µg/L	1	11/17/2016 10:23:02 PM	R38783
1,1,2-Trichloroethane	ND	0.13	1.0		µg/L	1	11/17/2016 10:23:02 PM	R38783
Trichloroethene (TCE)	ND	0.18	1.0		µg/L	1	11/17/2016 10:23:02 PM	R38783
Trichlorofluoromethane	ND	0.20	1.0		µg/L	1	11/17/2016 10:23:02 PM	R38783
1,2,3-Trichloropropane	ND	0.20	2.0		µg/L	1	11/17/2016 10:23:02 PM	R38783
Vinyl chloride	ND	0.20	1.0		µg/L	1	11/17/2016 10:23:02 PM	R38783
Xylenes, Total	ND	0.37	1.5		µg/L	1	11/17/2016 10:23:02 PM	R38783

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 1611792

Date Reported: 1/19/2017

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: NAPIS-3

Project: 2016 4th QTR Ground Water

Collection Date: 11/14/2016 1:40:00 PM

Lab ID: 1611792-005

Matrix: AQUEOUS

Received Date: 11/15/2016 5:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: DJF	
Surr: 1,2-Dichloroethane-d4	103	0	70-130		%Rec	1	11/17/2016 10:23:02 PM	R38783
Surr: 4-Bromofluorobenzene	99.2	0	70-130		%Rec	1	11/17/2016 10:23:02 PM	R38783
Surr: Dibromofluoromethane	107	0	70-130		%Rec	1	11/17/2016 10:23:02 PM	R38783
Surr: Toluene-d8	101	0	70-130		%Rec	1	11/17/2016 10:23:02 PM	R38783

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 1611792

Date Reported: 1/19/2017

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: NAPIS-1

Project: 2016 4th QTR Ground Water

Collection Date: 11/14/2016 12:31:00 PM

Lab ID: 1611792-006

Matrix: AQUEOUS

Received Date: 11/15/2016 5:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015M/D: DIESEL RANGE								Analyst: JME
Diesel Range Organics (DRO)	ND	0.69	1.0		mg/L	1	11/18/2016 12:52:24 AM	28698
Motor Oil Range Organics (MRO)	ND	5.0	5.0		mg/L	1	11/18/2016 12:52:24 AM	28698
Surr: DNOP	109	0	77.1-144		%Rec	1	11/18/2016 12:52:24 AM	28698
EPA METHOD 8015D: GASOLINE RANGE								Analyst: NSB
Gasoline Range Organics (GRO)	ND	0.025	0.050		mg/L	1	11/16/2016 5:46:21 PM	G38747
Surr: BFB	92.2	0	66.4-120		%Rec	1	11/16/2016 5:46:21 PM	G38747
EPA METHOD 300.0: ANIONS								Analyst: LGT
Fluoride	0.56	0.050	0.10		mg/L	1	11/24/2016 1:22:33 AM	R38979
Chloride	110	1.0	10		mg/L	20	11/16/2016 4:14:15 PM	R38771
Bromide	0.36	0.044	0.10		mg/L	1	11/16/2016 4:01:51 PM	R38771
Phosphorus, Orthophosphate (As P)	ND	0.076	0.50	H	mg/L	1	11/16/2016 4:01:51 PM	R38771
Sulfate	99	2.8	10		mg/L	20	11/16/2016 4:14:15 PM	R38771
Nitrate+Nitrite as N	12	0.46	1.0	*	mg/L	5	11/16/2016 5:53:31 PM	R38771
EPA METHOD 200.7: DISSOLVED METALS								Analyst: MED
Barium	0.10	0.0013	0.0020		mg/L	1	12/9/2016 1:41:01 PM	A39280
Cadmium	ND	0.00075	0.0020		mg/L	1	12/9/2016 1:41:01 PM	A39280
Calcium	75	0.50	1.0		mg/L	1	12/9/2016 1:41:01 PM	A39280
Chromium	ND	0.0018	0.0060		mg/L	1	12/9/2016 1:41:01 PM	A39280
Copper	ND	0.0040	0.0060		mg/L	1	12/9/2016 1:41:01 PM	A39280
Iron	ND	0.020	0.020		mg/L	1	12/9/2016 1:41:01 PM	A39280
Magnesium	15	0.50	1.0		mg/L	1	12/9/2016 1:41:01 PM	A39280
Manganese	0.093	0.00032	0.0020	*	mg/L	1	12/9/2016 1:41:01 PM	A39280
Potassium	0.85	0.50	1.0	J	mg/L	1	12/9/2016 1:41:01 PM	A39280
Silver	ND	0.0028	0.0050		mg/L	1	12/9/2016 1:41:01 PM	A39280
Sodium	420	2.5	5.0		mg/L	5	12/12/2016 1:27:27 PM	A39337
Zinc	0.0039	0.0028	0.010	J	mg/L	1	12/9/2016 1:41:01 PM	A39280
EPA METHOD 200.7: TOTAL METALS								Analyst: MED
Barium	0.13	0.00079	0.0020		mg/L	1	12/8/2016 3:29:57 PM	29034
Cadmium	ND	0.0015	0.0020		mg/L	1	12/8/2016 3:29:57 PM	29034
Chromium	ND	0.0027	0.0060		mg/L	1	12/8/2016 3:29:57 PM	29034
Copper	ND	0.0030	0.0060		mg/L	1	12/8/2016 3:29:57 PM	29034
Iron	0.55	0.020	0.020	*	mg/L	1	12/8/2016 3:29:57 PM	29034
Manganese	0.25	0.00027	0.0020	*	mg/L	1	12/8/2016 3:29:57 PM	29034
Silver	ND	0.0015	0.0050		mg/L	1	12/8/2016 3:29:57 PM	29034
Zinc	0.0053	0.0027	0.010	J	mg/L	1	12/8/2016 3:29:57 PM	29034
EPA 200.8: DISSOLVED METALS								Analyst: JLF
Arsenic	0.0040	0.00069	0.0050	J	mg/L	5	11/30/2016 6:09:01 PM	R39071

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 1611792

Date Reported: 1/19/2017

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: NAPIS-1

Project: 2016 4th QTR Ground Water

Collection Date: 11/14/2016 12:31:00 PM

Lab ID: 1611792-006

Matrix: AQUEOUS

Received Date: 11/15/2016 5:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA 200.8: DISSOLVED METALS							Analyst: JLF	
Lead	ND	0.00017	0.00050		mg/L	1	11/28/2016 5:38:28 PM	C39007
Selenium	0.012	0.0042	0.020	J	mg/L	20	11/30/2016 6:14:09 PM	R39071
Uranium	0.036	0.00026	0.0025	*	mg/L	5	11/30/2016 6:09:01 PM	R39071
200.8 ICPMS METALS:TOTAL							Analyst: JLF	
Arsenic	0.0036	0.0011	0.0050	J	mg/L	5	12/8/2016 4:20:34 PM	29034
Lead	0.00078	0.000081	0.00050		mg/L	1	12/7/2016 5:07:33 PM	29034
Selenium	0.0072	0.0037	0.020	J	mg/L	20	12/8/2016 4:25:42 PM	29034
Uranium	0.034	0.00087	0.0025	*	mg/L	5	12/8/2016 4:20:34 PM	29034
EPA METHOD 245.1: MERCURY							Analyst: DBD	
Mercury	0.000085	0.000053	0.00020	J	mg/L	1	12/1/2016 10:00:38 AM	28920
EPA METHOD 8260B: VOLATILES							Analyst: DJF	
Benzene	ND	0.096	1.0		µg/L	1	11/17/2016 10:51:45 PM	R38783
Toluene	ND	0.12	1.0		µg/L	1	11/17/2016 10:51:45 PM	R38783
Ethylbenzene	ND	0.11	1.0		µg/L	1	11/17/2016 10:51:45 PM	R38783
Methyl tert-butyl ether (MTBE)	0.87	0.21	1.0	J	µg/L	1	11/17/2016 10:51:45 PM	R38783
1,2,4-Trimethylbenzene	ND	0.11	1.0		µg/L	1	11/17/2016 10:51:45 PM	R38783
1,3,5-Trimethylbenzene	ND	0.12	1.0		µg/L	1	11/17/2016 10:51:45 PM	R38783
1,2-Dichloroethane (EDC)	ND	0.12	1.0		µg/L	1	11/17/2016 10:51:45 PM	R38783
1,2-Dibromoethane (EDB)	ND	0.11	1.0		µg/L	1	11/17/2016 10:51:45 PM	R38783
Naphthalene	ND	0.093	2.0		µg/L	1	11/17/2016 10:51:45 PM	R38783
1-Methylnaphthalene	ND	0.20	4.0		µg/L	1	11/17/2016 10:51:45 PM	R38783
2-Methylnaphthalene	ND	0.16	4.0		µg/L	1	11/17/2016 10:51:45 PM	R38783
Acetone	ND	4.9	10		µg/L	1	11/17/2016 10:51:45 PM	R38783
Bromobenzene	ND	0.098	1.0		µg/L	1	11/17/2016 10:51:45 PM	R38783
Bromodichloromethane	ND	0.14	1.0		µg/L	1	11/17/2016 10:51:45 PM	R38783
Bromoform	ND	0.10	1.0		µg/L	1	11/17/2016 10:51:45 PM	R38783
Bromomethane	ND	0.78	3.0		µg/L	1	11/17/2016 10:51:45 PM	R38783
2-Butanone	ND	0.74	10		µg/L	1	11/17/2016 10:51:45 PM	R38783
Carbon disulfide	ND	0.60	10		µg/L	1	11/17/2016 10:51:45 PM	R38783
Carbon Tetrachloride	ND	0.11	1.0		µg/L	1	11/17/2016 10:51:45 PM	R38783
Chlorobenzene	ND	0.11	1.0		µg/L	1	11/17/2016 10:51:45 PM	R38783
Chloroethane	ND	0.19	2.0		µg/L	1	11/17/2016 10:51:45 PM	R38783
Chloroform	ND	0.089	1.0		µg/L	1	11/17/2016 10:51:45 PM	R38783
Chloromethane	ND	0.21	3.0		µg/L	1	11/17/2016 10:51:45 PM	R38783
2-Chlorotoluene	ND	0.40	1.0		µg/L	1	11/17/2016 10:51:45 PM	R38783
4-Chlorotoluene	ND	0.13	1.0		µg/L	1	11/17/2016 10:51:45 PM	R38783
cis-1,2-DCE	ND	0.12	1.0		µg/L	1	11/17/2016 10:51:45 PM	R38783
cis-1,3-Dichloropropene	ND	0.11	1.0		µg/L	1	11/17/2016 10:51:45 PM	R38783

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 1611792

Date Reported: 1/19/2017

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: NAPIS-1

Project: 2016 4th QTR Ground Water

Collection Date: 11/14/2016 12:31:00 PM

Lab ID: 1611792-006

Matrix: AQUEOUS

Received Date: 11/15/2016 5:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: DJF	
1,2-Dibromo-3-chloropropane	ND	0.23	2.0		µg/L	1	11/17/2016 10:51:45 PM	R38783
Dibromochloromethane	ND	0.087	1.0		µg/L	1	11/17/2016 10:51:45 PM	R38783
Dibromomethane	ND	0.12	1.0		µg/L	1	11/17/2016 10:51:45 PM	R38783
1,2-Dichlorobenzene	ND	0.40	1.0		µg/L	1	11/17/2016 10:51:45 PM	R38783
1,3-Dichlorobenzene	ND	0.14	1.0		µg/L	1	11/17/2016 10:51:45 PM	R38783
1,4-Dichlorobenzene	ND	0.14	1.0		µg/L	1	11/17/2016 10:51:45 PM	R38783
Dichlorodifluoromethane	ND	0.36	1.0		µg/L	1	11/17/2016 10:51:45 PM	R38783
1,1-Dichloroethane	ND	0.11	1.0		µg/L	1	11/17/2016 10:51:45 PM	R38783
1,1-Dichloroethene	ND	0.11	1.0		µg/L	1	11/17/2016 10:51:45 PM	R38783
1,2-Dichloropropane	ND	0.11	1.0		µg/L	1	11/17/2016 10:51:45 PM	R38783
1,3-Dichloropropane	ND	0.16	1.0		µg/L	1	11/17/2016 10:51:45 PM	R38783
2,2-Dichloropropane	ND	0.17	2.0		µg/L	1	11/17/2016 10:51:45 PM	R38783
1,1-Dichloropropene	ND	0.13	1.0		µg/L	1	11/17/2016 10:51:45 PM	R38783
Hexachlorobutadiene	ND	0.20	1.0		µg/L	1	11/17/2016 10:51:45 PM	R38783
2-Hexanone	ND	0.84	10		µg/L	1	11/17/2016 10:51:45 PM	R38783
Isopropylbenzene	ND	0.10	1.0		µg/L	1	11/17/2016 10:51:45 PM	R38783
4-Isopropyltoluene	ND	0.14	1.0		µg/L	1	11/17/2016 10:51:45 PM	R38783
4-Methyl-2-pentanone	ND	0.43	10		µg/L	1	11/17/2016 10:51:45 PM	R38783
Methylene Chloride	ND	0.19	3.0		µg/L	1	11/17/2016 10:51:45 PM	R38783
n-Butylbenzene	ND	0.16	3.0		µg/L	1	11/17/2016 10:51:45 PM	R38783
n-Propylbenzene	ND	0.13	1.0		µg/L	1	11/17/2016 10:51:45 PM	R38783
sec-Butylbenzene	ND	0.12	1.0		µg/L	1	11/17/2016 10:51:45 PM	R38783
Styrene	ND	0.11	1.0		µg/L	1	11/17/2016 10:51:45 PM	R38783
tert-Butylbenzene	ND	0.12	1.0		µg/L	1	11/17/2016 10:51:45 PM	R38783
1,1,1,2-Tetrachloroethane	ND	0.11	1.0		µg/L	1	11/17/2016 10:51:45 PM	R38783
1,1,2,2-Tetrachloroethane	ND	0.13	2.0		µg/L	1	11/17/2016 10:51:45 PM	R38783
Tetrachloroethene (PCE)	ND	0.15	1.0		µg/L	1	11/17/2016 10:51:45 PM	R38783
trans-1,2-DCE	ND	0.40	1.0		µg/L	1	11/17/2016 10:51:45 PM	R38783
trans-1,3-Dichloropropene	ND	0.10	1.0		µg/L	1	11/17/2016 10:51:45 PM	R38783
1,2,3-Trichlorobenzene	ND	0.11	1.0		µg/L	1	11/17/2016 10:51:45 PM	R38783
1,2,4-Trichlorobenzene	ND	0.13	1.0		µg/L	1	11/17/2016 10:51:45 PM	R38783
1,1,1-Trichloroethane	ND	0.091	1.0		µg/L	1	11/17/2016 10:51:45 PM	R38783
1,1,2-Trichloroethane	ND	0.13	1.0		µg/L	1	11/17/2016 10:51:45 PM	R38783
Trichloroethene (TCE)	ND	0.18	1.0		µg/L	1	11/17/2016 10:51:45 PM	R38783
Trichlorofluoromethane	ND	0.20	1.0		µg/L	1	11/17/2016 10:51:45 PM	R38783
1,2,3-Trichloropropane	ND	0.20	2.0		µg/L	1	11/17/2016 10:51:45 PM	R38783
Vinyl chloride	ND	0.20	1.0		µg/L	1	11/17/2016 10:51:45 PM	R38783
Xylenes, Total	ND	0.37	1.5		µg/L	1	11/17/2016 10:51:45 PM	R38783
Surr: 1,2-Dichloroethane-d4	99.7	0	70-130		%Rec	1	11/17/2016 10:51:45 PM	R38783

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 1611792

Date Reported: 1/19/2017

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: NAPIS-1

Project: 2016 4th QTR Ground Water

Collection Date: 11/14/2016 12:31:00 PM

Lab ID: 1611792-006

Matrix: AQUEOUS

Received Date: 11/15/2016 5:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: DJF	
Surr: 4-Bromofluorobenzene	101	0	70-130		%Rec	1	11/17/2016 10:51:45 PM	R38783
Surr: Dibromofluoromethane	105	0	70-130		%Rec	1	11/17/2016 10:51:45 PM	R38783
Surr: Toluene-d8	100	0	70-130		%Rec	1	11/17/2016 10:51:45 PM	R38783

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 1611792

Date Reported: 1/19/2017

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: OAPIS-1

Project: 2016 4th QTR Ground Water

Collection Date: 11/14/2016 1:05:00 PM

Lab ID: 1611792-007

Matrix: AQUEOUS

Received Date: 11/15/2016 5:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015M/D: DIESEL RANGE							Analyst: JME	
Diesel Range Organics (DRO)	8.6	0.69	1.0		mg/L	1	11/18/2016 1:14:01 AM	28698
Motor Oil Range Organics (MRO)	ND	5.0	5.0		mg/L	1	11/18/2016 1:14:01 AM	28698
Surr: DNOP	110	0	77.1-144		%Rec	1	11/18/2016 1:14:01 AM	28698
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB	
Gasoline Range Organics (GRO)	1.4	0.13	0.25		mg/L	5	11/16/2016 6:10:45 PM	G38747
Surr: BFB	118	0	66.4-120		%Rec	5	11/16/2016 6:10:45 PM	G38747
EPA METHOD 300.0: ANIONS							Analyst: LGT	
Fluoride	1.3	0.25	0.50		mg/L	5	11/24/2016 1:34:58 AM	R38979
Chloride	1600	10	100		mg/L	200	11/30/2016 9:45:26 PM	R39076
Bromide	11	0.22	0.50		mg/L	5	11/16/2016 1:08:04 PM	R38771
Phosphorus, Orthophosphate (As P)	ND	0.38	2.5	H	mg/L	5	11/16/2016 1:08:04 PM	R38771
Sulfate	13	0.71	2.5		mg/L	5	11/16/2016 1:08:04 PM	R38771
Nitrate+Nitrite as N	ND	0.92	2.0		mg/L	10	12/1/2016 8:57:20 PM	A39105
EPA METHOD 200.7: DISSOLVED METALS							Analyst: MED	
Barium	0.87	0.0013	0.0020		mg/L	1	12/9/2016 1:42:55 PM	A39280
Cadmium	ND	0.00075	0.0020		mg/L	1	12/9/2016 1:42:55 PM	A39280
Calcium	170	2.5	5.0		mg/L	5	12/12/2016 1:29:22 PM	A39337
Chromium	ND	0.0018	0.0060		mg/L	1	12/9/2016 1:42:55 PM	A39280
Copper	ND	0.0040	0.0060		mg/L	1	12/9/2016 1:42:55 PM	A39280
Iron	7.4	1.0	1.0	*	mg/L	50	12/12/2016 1:31:02 PM	A39337
Magnesium	33	0.50	1.0		mg/L	1	12/9/2016 1:42:55 PM	A39280
Manganese	1.8	0.0016	0.010	*	mg/L	5	12/12/2016 1:29:22 PM	A39337
Potassium	4.2	0.50	1.0		mg/L	1	12/9/2016 1:42:55 PM	A39280
Silver	ND	0.0028	0.0050		mg/L	1	12/9/2016 1:42:55 PM	A39280
Sodium	1400	25	50		mg/L	50	12/12/2016 1:31:02 PM	A39337
Zinc	0.0071	0.0028	0.010	J	mg/L	1	12/9/2016 1:42:55 PM	A39280
EPA METHOD 200.7: TOTAL METALS							Analyst: MED	
Barium	0.96	0.00079	0.0020		mg/L	1	12/8/2016 3:31:53 PM	29034
Cadmium	ND	0.0015	0.0020		mg/L	1	12/8/2016 3:31:53 PM	29034
Chromium	0.0028	0.0027	0.0060	J	mg/L	1	12/8/2016 3:31:53 PM	29034
Copper	0.0035	0.0030	0.0060	J	mg/L	1	12/8/2016 3:31:53 PM	29034
Iron	8.3	0.20	0.20	*	mg/L	10	12/9/2016 11:42:28 AM	29034
Manganese	1.8	0.0014	0.010	*	mg/L	5	12/9/2016 11:40:41 AM	29034
Silver	0.011	0.0015	0.0050		mg/L	1	12/8/2016 3:31:53 PM	29034
Zinc	0.028	0.0027	0.010		mg/L	1	12/8/2016 3:31:53 PM	29034
EPA 200.8: DISSOLVED METALS							Analyst: JLF	
Arsenic	0.017	0.00069	0.0050	*	mg/L	5	11/30/2016 6:19:18 PM	R39071

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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 1611792

Date Reported: 1/19/2017

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: OAPIS-1

Project: 2016 4th QTR Ground Water

Collection Date: 11/14/2016 1:05:00 PM

Lab ID: 1611792-007

Matrix: AQUEOUS

Received Date: 11/15/2016 5:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA 200.8: DISSOLVED METALS								
							Analyst: JLF	
Lead	0.00081	0.00017	0.00050		mg/L	1	11/28/2016 5:41:31 PM	C39007
Selenium	0.033	0.0011	0.0050		mg/L	5	11/30/2016 6:19:18 PM	R39071
Uranium	0.014	0.000051	0.00050		mg/L	1	11/28/2016 5:41:31 PM	C39007
200.8 ICPMS METALS:TOTAL								
							Analyst: JLF	
Arsenic	0.014	0.011	0.050	J*	mg/L	50	12/8/2016 4:35:59 PM	29034
Lead	0.011	0.00041	0.0025		mg/L	5	12/8/2016 4:30:51 PM	29034
Selenium	0.020	0.0094	0.050	J	mg/L	50	12/8/2016 4:35:59 PM	29034
Uranium	0.012	0.00087	0.0025		mg/L	5	12/8/2016 4:30:51 PM	29034
EPA METHOD 245.1: MERCURY								
							Analyst: DBD	
Mercury	0.000089	0.000053	0.00020	J	mg/L	1	12/1/2016 10:02:41 AM	28920
EPA METHOD 8270C: SEMIVOLATILES								
							Analyst: DAM	
Acenaphthene	ND	2.6	10		µg/L	1	11/18/2016 3:28:50 PM	28753
Acenaphthylene	ND	2.4	10		µg/L	1	11/18/2016 3:28:50 PM	28753
Aniline	ND	2.4	10		µg/L	1	11/18/2016 3:28:50 PM	28753
Anthracene	ND	2.5	10		µg/L	1	11/18/2016 3:28:50 PM	28753
Azobenzene	ND	2.7	10		µg/L	1	11/18/2016 3:28:50 PM	28753
Benz(a)anthracene	ND	2.6	10		µg/L	1	11/18/2016 3:28:50 PM	28753
Benzo(a)pyrene	ND	2.7	10		µg/L	1	11/18/2016 3:28:50 PM	28753
Benzo(b)fluoranthene	ND	2.9	10		µg/L	1	11/18/2016 3:28:50 PM	28753
Benzo(g,h,i)perylene	ND	2.6	10		µg/L	1	11/18/2016 3:28:50 PM	28753
Benzo(k)fluoranthene	ND	3.0	10		µg/L	1	11/18/2016 3:28:50 PM	28753
Benzoic acid	8.5	2.6	20	J	µg/L	1	11/18/2016 3:28:50 PM	28753
Benzyl alcohol	ND	3.0	10		µg/L	1	11/18/2016 3:28:50 PM	28753
Bis(2-chloroethoxy)methane	ND	2.8	10		µg/L	1	11/18/2016 3:28:50 PM	28753
Bis(2-chloroethyl)ether	ND	2.7	10		µg/L	1	11/18/2016 3:28:50 PM	28753
Bis(2-chloroisopropyl)ether	ND	1.9	10		µg/L	1	11/18/2016 3:28:50 PM	28753
Bis(2-ethylhexyl)phthalate	ND	2.6	10		µg/L	1	11/18/2016 3:28:50 PM	28753
4-Bromophenyl phenyl ether	ND	2.6	10		µg/L	1	11/18/2016 3:28:50 PM	28753
Butyl benzyl phthalate	ND	2.5	10		µg/L	1	11/18/2016 3:28:50 PM	28753
Carbazole	ND	2.3	10		µg/L	1	11/18/2016 3:28:50 PM	28753
4-Chloro-3-methylphenol	ND	2.6	10		µg/L	1	11/18/2016 3:28:50 PM	28753
4-Chloroaniline	ND	2.7	10		µg/L	1	11/18/2016 3:28:50 PM	28753
2-Chloronaphthalene	ND	2.3	10		µg/L	1	11/18/2016 3:28:50 PM	28753
2-Chlorophenol	ND	2.2	10		µg/L	1	11/18/2016 3:28:50 PM	28753
4-Chlorophenyl phenyl ether	ND	2.6	10		µg/L	1	11/18/2016 3:28:50 PM	28753
Chrysene	ND	2.8	10		µg/L	1	11/18/2016 3:28:50 PM	28753
Di-n-butyl phthalate	ND	2.4	10		µg/L	1	11/18/2016 3:28:50 PM	28753
Di-n-octyl phthalate	7.1	2.0	10	J	µg/L	1	11/18/2016 3:28:50 PM	28753

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Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1611792

Date Reported: 1/19/2017

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: OAPIS-1

Project: 2016 4th QTR Ground Water

Collection Date: 11/14/2016 1:05:00 PM

Lab ID: 1611792-007

Matrix: AQUEOUS

Received Date: 11/15/2016 5:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: DAM	
Dibenz(a,h)anthracene	ND	2.7	10		µg/L	1	11/18/2016 3:28:50 PM	28753
Dibenzofuran	ND	2.5	10		µg/L	1	11/18/2016 3:28:50 PM	28753
1,2-Dichlorobenzene	ND	2.3	10		µg/L	1	11/18/2016 3:28:50 PM	28753
1,3-Dichlorobenzene	ND	2.3	10		µg/L	1	11/18/2016 3:28:50 PM	28753
1,4-Dichlorobenzene	ND	2.4	10		µg/L	1	11/18/2016 3:28:50 PM	28753
3,3'-Dichlorobenzidine	ND	2.4	10		µg/L	1	11/18/2016 3:28:50 PM	28753
Diethyl phthalate	ND	2.7	10		µg/L	1	11/18/2016 3:28:50 PM	28753
Dimethyl phthalate	ND	2.4	10		µg/L	1	11/18/2016 3:28:50 PM	28753
2,4-Dichlorophenol	ND	2.3	20		µg/L	1	11/18/2016 3:28:50 PM	28753
2,4-Dimethylphenol	19	3.0	10		µg/L	1	11/18/2016 3:28:50 PM	28753
4,6-Dinitro-2-methylphenol	ND	1.8	20		µg/L	1	11/18/2016 3:28:50 PM	28753
2,4-Dinitrophenol	ND	2.8	20		µg/L	1	11/18/2016 3:28:50 PM	28753
2,4-Dinitrotoluene	ND	3.1	10		µg/L	1	11/18/2016 3:28:50 PM	28753
2,6-Dinitrotoluene	ND	2.7	10		µg/L	1	11/18/2016 3:28:50 PM	28753
Fluoranthene	ND	2.6	10		µg/L	1	11/18/2016 3:28:50 PM	28753
Fluorene	ND	2.7	10		µg/L	1	11/18/2016 3:28:50 PM	28753
Hexachlorobenzene	ND	2.6	10		µg/L	1	11/18/2016 3:28:50 PM	28753
Hexachlorobutadiene	ND	2.2	10		µg/L	1	11/18/2016 3:28:50 PM	28753
Hexachlorocyclopentadiene	ND	2.3	10		µg/L	1	11/18/2016 3:28:50 PM	28753
Hexachloroethane	ND	2.4	10		µg/L	1	11/18/2016 3:28:50 PM	28753
Indeno(1,2,3-cd)pyrene	ND	3.0	10		µg/L	1	11/18/2016 3:28:50 PM	28753
Isophorone	ND	2.6	10		µg/L	1	11/18/2016 3:28:50 PM	28753
1-Methylnaphthalene	19	2.9	10		µg/L	1	11/18/2016 3:28:50 PM	28753
2-Methylnaphthalene	ND	2.9	10		µg/L	1	11/18/2016 3:28:50 PM	28753
2-Methylphenol	ND	2.5	10		µg/L	1	11/18/2016 3:28:50 PM	28753
3+4-Methylphenol	ND	2.3	10		µg/L	1	11/18/2016 3:28:50 PM	28753
N-Nitrosodi-n-propylamine	ND	2.4	10		µg/L	1	11/18/2016 3:28:50 PM	28753
N-Nitrosodimethylamine	ND	2.2	10		µg/L	1	11/18/2016 3:28:50 PM	28753
N-Nitrosodiphenylamine	ND	2.3	10		µg/L	1	11/18/2016 3:28:50 PM	28753
Naphthalene	3.3	2.6	10	J	µg/L	1	11/18/2016 3:28:50 PM	28753
2-Nitroaniline	ND	2.8	10		µg/L	1	11/18/2016 3:28:50 PM	28753
3-Nitroaniline	ND	2.9	10		µg/L	1	11/18/2016 3:28:50 PM	28753
4-Nitroaniline	ND	2.6	10		µg/L	1	11/18/2016 3:28:50 PM	28753
Nitrobenzene	ND	2.8	10		µg/L	1	11/18/2016 3:28:50 PM	28753
2-Nitrophenol	ND	2.4	10		µg/L	1	11/18/2016 3:28:50 PM	28753
4-Nitrophenol	ND	2.6	10		µg/L	1	11/18/2016 3:28:50 PM	28753
Pentachlorophenol	ND	2.3	20		µg/L	1	11/18/2016 3:28:50 PM	28753
Phenanthrene	ND	2.6	10		µg/L	1	11/18/2016 3:28:50 PM	28753
Phenol	ND	2.0	10		µg/L	1	11/18/2016 3:28:50 PM	28753

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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 1611792

Date Reported: 1/19/2017

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: OAPIS-1

Project: 2016 4th QTR Ground Water

Collection Date: 11/14/2016 1:05:00 PM

Lab ID: 1611792-007

Matrix: AQUEOUS

Received Date: 11/15/2016 5:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: DAM	
Pyrene	ND	3.1	10		µg/L	1	11/18/2016 3:28:50 PM	28753
Pyridine	ND	2.2	10		µg/L	1	11/18/2016 3:28:50 PM	28753
1,2,4-Trichlorobenzene	ND	2.6	10		µg/L	1	11/18/2016 3:28:50 PM	28753
2,4,5-Trichlorophenol	ND	2.2	10		µg/L	1	11/18/2016 3:28:50 PM	28753
2,4,6-Trichlorophenol	ND	2.4	10		µg/L	1	11/18/2016 3:28:50 PM	28753
Surr: 2-Fluorophenol	23.4	0	15-98.1		%Rec	1	11/18/2016 3:28:50 PM	28753
Surr: Phenol-d5	18.8	0	15-80.7		%Rec	1	11/18/2016 3:28:50 PM	28753
Surr: 2,4,6-Tribromophenol	39.0	0	15-112		%Rec	1	11/18/2016 3:28:50 PM	28753
Surr: Nitrobenzene-d5	45.0	0	27.2-90.7		%Rec	1	11/18/2016 3:28:50 PM	28753
Surr: 2-Fluorobiphenyl	37.8	0	23.3-85.6		%Rec	1	11/18/2016 3:28:50 PM	28753
Surr: 4-Terphenyl-d14	25.3	0	27.6-107	S	%Rec	1	11/18/2016 3:28:50 PM	28753
EPA METHOD 8260B: VOLATILES							Analyst: DJF	
Benzene	150	0.96	10		µg/L	10	11/17/2016 11:20:31 PM	R38783
Toluene	1.6	1.2	10	J	µg/L	10	11/17/2016 11:20:31 PM	R38783
Ethylbenzene	18	1.1	10		µg/L	10	11/17/2016 11:20:31 PM	R38783
Methyl tert-butyl ether (MTBE)	260	2.1	10		µg/L	10	11/17/2016 11:20:31 PM	R38783
1,2,4-Trimethylbenzene	7.7	1.1	10	J	µg/L	10	11/17/2016 11:20:31 PM	R38783
1,3,5-Trimethylbenzene	ND	1.2	10		µg/L	10	11/17/2016 11:20:31 PM	R38783
1,2-Dichloroethane (EDC)	3.2	1.2	10	J	µg/L	10	11/17/2016 11:20:31 PM	R38783
1,2-Dibromoethane (EDB)	ND	1.1	10		µg/L	10	11/17/2016 11:20:31 PM	R38783
Naphthalene	ND	0.93	20		µg/L	10	11/17/2016 11:20:31 PM	R38783
1-Methylnaphthalene	45	2.0	40		µg/L	10	11/17/2016 11:20:31 PM	R38783
2-Methylnaphthalene	ND	1.6	40		µg/L	10	11/17/2016 11:20:31 PM	R38783
Acetone	ND	49	100		µg/L	10	11/17/2016 11:20:31 PM	R38783
Bromobenzene	ND	0.98	10		µg/L	10	11/17/2016 11:20:31 PM	R38783
Bromodichloromethane	ND	1.4	10		µg/L	10	11/17/2016 11:20:31 PM	R38783
Bromoform	ND	1.0	10		µg/L	10	11/17/2016 11:20:31 PM	R38783
Bromomethane	ND	7.8	30		µg/L	10	11/17/2016 11:20:31 PM	R38783
2-Butanone	ND	7.4	100		µg/L	10	11/17/2016 11:20:31 PM	R38783
Carbon disulfide	ND	6.0	100		µg/L	10	11/17/2016 11:20:31 PM	R38783
Carbon Tetrachloride	ND	1.1	10		µg/L	10	11/17/2016 11:20:31 PM	R38783
Chlorobenzene	ND	1.1	10		µg/L	10	11/17/2016 11:20:31 PM	R38783
Chloroethane	ND	1.9	20		µg/L	10	11/17/2016 11:20:31 PM	R38783
Chloroform	4.4	0.89	10	J	µg/L	10	11/17/2016 11:20:31 PM	R38783
Chloromethane	ND	2.1	30		µg/L	10	11/17/2016 11:20:31 PM	R38783
2-Chlorotoluene	ND	4.0	10		µg/L	10	11/17/2016 11:20:31 PM	R38783
4-Chlorotoluene	ND	1.3	10		µg/L	10	11/17/2016 11:20:31 PM	R38783
cis-1,2-DCE	ND	1.2	10		µg/L	10	11/17/2016 11:20:31 PM	R38783
cis-1,3-Dichloropropene	ND	1.1	10		µg/L	10	11/17/2016 11:20:31 PM	R38783

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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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Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: DJF	
1,2-Dibromo-3-chloropropane	ND	2.3	20		µg/L	10	11/17/2016 11:20:31 PM	R38783
Dibromochloromethane	ND	0.87	10		µg/L	10	11/17/2016 11:20:31 PM	R38783
Dibromomethane	ND	1.2	10		µg/L	10	11/17/2016 11:20:31 PM	R38783
1,2-Dichlorobenzene	ND	4.0	10		µg/L	10	11/17/2016 11:20:31 PM	R38783
1,3-Dichlorobenzene	ND	1.4	10		µg/L	10	11/17/2016 11:20:31 PM	R38783
1,4-Dichlorobenzene	ND	1.4	10		µg/L	10	11/17/2016 11:20:31 PM	R38783
Dichlorodifluoromethane	ND	3.6	10		µg/L	10	11/17/2016 11:20:31 PM	R38783
1,1-Dichloroethane	ND	1.1	10		µg/L	10	11/17/2016 11:20:31 PM	R38783
1,1-Dichloroethene	ND	1.1	10		µg/L	10	11/17/2016 11:20:31 PM	R38783
1,2-Dichloropropane	ND	1.1	10		µg/L	10	11/17/2016 11:20:31 PM	R38783
1,3-Dichloropropane	ND	1.6	10		µg/L	10	11/17/2016 11:20:31 PM	R38783
2,2-Dichloropropane	ND	1.7	20		µg/L	10	11/17/2016 11:20:31 PM	R38783
1,1-Dichloropropene	ND	1.3	10		µg/L	10	11/17/2016 11:20:31 PM	R38783
Hexachlorobutadiene	ND	2.0	10		µg/L	10	11/17/2016 11:20:31 PM	R38783
2-Hexanone	ND	8.4	100		µg/L	10	11/17/2016 11:20:31 PM	R38783
Isopropylbenzene	2.7	1.0	10	J	µg/L	10	11/17/2016 11:20:31 PM	R38783
4-Isopropyltoluene	ND	1.4	10		µg/L	10	11/17/2016 11:20:31 PM	R38783
4-Methyl-2-pentanone	ND	4.3	100		µg/L	10	11/17/2016 11:20:31 PM	R38783
Methylene Chloride	ND	1.9	30		µg/L	10	11/17/2016 11:20:31 PM	R38783
n-Butylbenzene	3.1	1.6	30	J	µg/L	10	11/17/2016 11:20:31 PM	R38783
n-Propylbenzene	4.4	1.3	10	J	µg/L	10	11/17/2016 11:20:31 PM	R38783
sec-Butylbenzene	2.5	1.2	10	J	µg/L	10	11/17/2016 11:20:31 PM	R38783
Styrene	ND	1.1	10		µg/L	10	11/17/2016 11:20:31 PM	R38783
tert-Butylbenzene	ND	1.2	10		µg/L	10	11/17/2016 11:20:31 PM	R38783
1,1,1,2-Tetrachloroethane	ND	1.1	10		µg/L	10	11/17/2016 11:20:31 PM	R38783
1,1,2,2-Tetrachloroethane	ND	1.3	20		µg/L	10	11/17/2016 11:20:31 PM	R38783
Tetrachloroethene (PCE)	ND	1.5	10		µg/L	10	11/17/2016 11:20:31 PM	R38783
trans-1,2-DCE	ND	4.0	10		µg/L	10	11/17/2016 11:20:31 PM	R38783
trans-1,3-Dichloropropene	ND	1.0	10		µg/L	10	11/17/2016 11:20:31 PM	R38783
1,2,3-Trichlorobenzene	ND	1.1	10		µg/L	10	11/17/2016 11:20:31 PM	R38783
1,2,4-Trichlorobenzene	ND	1.3	10		µg/L	10	11/17/2016 11:20:31 PM	R38783
1,1,1-Trichloroethane	ND	0.91	10		µg/L	10	11/17/2016 11:20:31 PM	R38783
1,1,2-Trichloroethane	ND	1.3	10		µg/L	10	11/17/2016 11:20:31 PM	R38783
Trichloroethene (TCE)	ND	1.8	10		µg/L	10	11/17/2016 11:20:31 PM	R38783
Trichlorofluoromethane	ND	2.0	10		µg/L	10	11/17/2016 11:20:31 PM	R38783
1,2,3-Trichloropropane	ND	2.0	20		µg/L	10	11/17/2016 11:20:31 PM	R38783
Vinyl chloride	ND	2.0	10		µg/L	10	11/17/2016 11:20:31 PM	R38783
Xylenes, Total	ND	3.7	15		µg/L	10	11/17/2016 11:20:31 PM	R38783
Surr: 1,2-Dichloroethane-d4	101	0	70-130		%Rec	10	11/17/2016 11:20:31 PM	R38783

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 1611792

Date Reported: 1/19/2017

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: OAPIS-1

Project: 2016 4th QTR Ground Water

Collection Date: 11/14/2016 1:05:00 PM

Lab ID: 1611792-007

Matrix: AQUEOUS

Received Date: 11/15/2016 5:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: DJF	
Surr: 4-Bromofluorobenzene	99.2	0	70-130		%Rec	10	11/17/2016 11:20:31 PM	R38783
Surr: Dibromofluoromethane	106	0	70-130		%Rec	10	11/17/2016 11:20:31 PM	R38783
Surr: Toluene-d8	102	0	70-130		%Rec	10	11/17/2016 11:20:31 PM	R38783
EPA 335.4: TOTAL CYANIDE SUBBED							Analyst: SUB	
Cyanide	0.0837	0.0100	0.0100		mg/L	1	11/23/2016	R39585

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 1611792

Date Reported: 1/19/2017

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: STP1-NW

Project: 2016 4th QTR Ground Water

Collection Date: 11/14/2016 3:00:00 PM

Lab ID: 1611792-008

Matrix: AQUEOUS

Received Date: 11/15/2016 5:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015M/D: DIESEL RANGE							Analyst: JME	
Diesel Range Organics (DRO)	ND	0.69	1.0		mg/L	1	11/18/2016 1:57:24 AM	28698
Motor Oil Range Organics (MRO)	ND	5.0	5.0		mg/L	1	11/18/2016 1:57:24 AM	28698
Surr: DNOP	106	0	77.1-144		%Rec	1	11/18/2016 1:57:24 AM	28698
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB	
Gasoline Range Organics (GRO)	ND	0.025	0.050		mg/L	1	11/16/2016 6:35:13 PM	G38747
Surr: BFB	91.2	0	66.4-120		%Rec	1	11/16/2016 6:35:13 PM	G38747
EPA METHOD 300.0: ANIONS							Analyst: MRA	
Fluoride	ND	0.25	0.50		mg/L	5	11/30/2016 9:57:50 PM	R39076
Chloride	2000	10	100		mg/L	200	11/30/2016 10:10:14 PM	R39076
Nitrogen, Nitrite (As N)	ND	1.0	2.0		mg/L	20	11/16/2016 2:10:08 PM	R38771
Bromide	12	0.87	2.0		mg/L	20	11/16/2016 2:10:08 PM	R38771
Nitrogen, Nitrate (As N)	24	0.81	2.0	*	mg/L	20	11/16/2016 2:10:08 PM	R38771
Phosphorus, Orthophosphate (As P)	ND	0.076	0.50		mg/L	1	11/16/2016 1:57:43 PM	R38771
Sulfate	140	2.8	10		mg/L	20	11/16/2016 2:10:08 PM	R38771
EPA METHOD 200.7: DISSOLVED METALS							Analyst: MED	
Barium	0.13	0.0013	0.0020		mg/L	1	12/9/2016 1:44:45 PM	A39280
Cadmium	ND	0.00075	0.0020		mg/L	1	12/9/2016 1:44:45 PM	A39280
Calcium	82	0.50	1.0		mg/L	1	12/9/2016 1:44:45 PM	A39280
Chromium	ND	0.0018	0.0060		mg/L	1	12/9/2016 1:44:45 PM	A39280
Copper	ND	0.0040	0.0060		mg/L	1	12/9/2016 1:44:45 PM	A39280
Iron	0.20	0.020	0.020		mg/L	1	12/9/2016 1:44:45 PM	A39280
Magnesium	13	0.50	1.0		mg/L	1	12/9/2016 1:44:45 PM	A39280
Manganese	0.0086	0.00032	0.0020		mg/L	1	12/9/2016 1:44:45 PM	A39280
Potassium	5.8	0.50	1.0		mg/L	1	12/9/2016 1:44:45 PM	A39280
Silver	ND	0.0028	0.0050		mg/L	1	12/9/2016 1:44:45 PM	A39280
Sodium	1400	25	50		mg/L	50	12/12/2016 1:32:56 PM	A39337
Zinc	0.010	0.0028	0.010		mg/L	1	12/9/2016 1:44:45 PM	A39280
EPA METHOD 200.7: TOTAL METALS							Analyst: MED	
Barium	0.24	0.00079	0.0020		mg/L	1	12/8/2016 3:33:41 PM	29034
Cadmium	ND	0.0015	0.0020		mg/L	1	12/8/2016 3:33:41 PM	29034
Chromium	0.0096	0.0027	0.0060		mg/L	1	12/8/2016 3:33:41 PM	29034
Copper	0.0049	0.0030	0.0060	J	mg/L	1	12/8/2016 3:33:41 PM	29034
Iron	11	0.40	0.40	*	mg/L	20	12/9/2016 11:44:28 AM	29034
Manganese	0.31	0.00027	0.0020	*	mg/L	1	12/8/2016 3:33:41 PM	29034
Silver	0.0079	0.0015	0.0050		mg/L	1	12/8/2016 3:33:41 PM	29034
Zinc	0.29	0.0027	0.010		mg/L	1	12/8/2016 3:33:41 PM	29034

EPA 200.8: DISSOLVED METALS

Analyst: **JLF**

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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
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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, Inc.

Analytical Report

Lab Order 1611792

Date Reported: 1/19/2017

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: STP1-NW

Project: 2016 4th QTR Ground Water

Collection Date: 11/14/2016 3:00:00 PM

Lab ID: 1611792-008

Matrix: AQUEOUS

Received Date: 11/15/2016 5:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA 200.8: DISSOLVED METALS							Analyst: JLF	
Arsenic	0.0089	0.0069	0.050	J	mg/L	50	11/30/2016 6:34:42 PM	R39071
Lead	0.00039	0.00017	0.00050	J	mg/L	1	11/28/2016 5:44:35 PM	C39007
Selenium	0.033	0.0011	0.0050		mg/L	5	11/30/2016 6:29:34 PM	R39071
Uranium	0.026	0.00026	0.0025		mg/L	5	11/30/2016 6:29:34 PM	R39071
200.8 ICPMS METALS:TOTAL							Analyst: JLF	
Arsenic	0.011	0.0011	0.0050	*	mg/L	5	12/8/2016 4:41:07 PM	29034
Lead	0.016	0.00041	0.0025	*	mg/L	5	12/8/2016 4:41:07 PM	29034
Selenium	0.021	0.00094	0.0050		mg/L	5	12/8/2016 4:41:07 PM	29034
Uranium	0.027	0.00087	0.0025		mg/L	5	12/8/2016 4:41:07 PM	29034
EPA METHOD 245.1: MERCURY							Analyst: DBD	
Mercury	0.00014	0.000053	0.00020	J	mg/L	1	12/1/2016 10:04:43 AM	28920
EPA METHOD 8260B: VOLATILES							Analyst: DJF	
Benzene	ND	0.096	1.0		µg/L	1	11/17/2016 11:49:11 PM	R38783
Toluene	ND	0.12	1.0		µg/L	1	11/17/2016 11:49:11 PM	R38783
Ethylbenzene	ND	0.11	1.0		µg/L	1	11/17/2016 11:49:11 PM	R38783
Methyl tert-butyl ether (MTBE)	0.36	0.21	1.0	J	µg/L	1	11/17/2016 11:49:11 PM	R38783
1,2,4-Trimethylbenzene	ND	0.11	1.0		µg/L	1	11/17/2016 11:49:11 PM	R38783
1,3,5-Trimethylbenzene	ND	0.12	1.0		µg/L	1	11/17/2016 11:49:11 PM	R38783
1,2-Dichloroethane (EDC)	ND	0.12	1.0		µg/L	1	11/17/2016 11:49:11 PM	R38783
1,2-Dibromoethane (EDB)	ND	0.11	1.0		µg/L	1	11/17/2016 11:49:11 PM	R38783
Naphthalene	ND	0.093	2.0		µg/L	1	11/17/2016 11:49:11 PM	R38783
1-Methylnaphthalene	ND	0.20	4.0		µg/L	1	11/17/2016 11:49:11 PM	R38783
2-Methylnaphthalene	ND	0.16	4.0		µg/L	1	11/17/2016 11:49:11 PM	R38783
Acetone	ND	4.9	10		µg/L	1	11/17/2016 11:49:11 PM	R38783
Bromobenzene	ND	0.098	1.0		µg/L	1	11/17/2016 11:49:11 PM	R38783
Bromodichloromethane	ND	0.14	1.0		µg/L	1	11/17/2016 11:49:11 PM	R38783
Bromoform	ND	0.10	1.0		µg/L	1	11/17/2016 11:49:11 PM	R38783
Bromomethane	ND	0.78	3.0		µg/L	1	11/17/2016 11:49:11 PM	R38783
2-Butanone	ND	0.74	10		µg/L	1	11/17/2016 11:49:11 PM	R38783
Carbon disulfide	ND	0.60	10		µg/L	1	11/17/2016 11:49:11 PM	R38783
Carbon Tetrachloride	ND	0.11	1.0		µg/L	1	11/17/2016 11:49:11 PM	R38783
Chlorobenzene	ND	0.11	1.0		µg/L	1	11/17/2016 11:49:11 PM	R38783
Chloroethane	ND	0.19	2.0		µg/L	1	11/17/2016 11:49:11 PM	R38783
Chloroform	ND	0.089	1.0		µg/L	1	11/17/2016 11:49:11 PM	R38783
Chloromethane	ND	0.21	3.0		µg/L	1	11/17/2016 11:49:11 PM	R38783
2-Chlorotoluene	ND	0.40	1.0		µg/L	1	11/17/2016 11:49:11 PM	R38783
4-Chlorotoluene	ND	0.13	1.0		µg/L	1	11/17/2016 11:49:11 PM	R38783
cis-1,2-DCE	ND	0.12	1.0		µg/L	1	11/17/2016 11:49:11 PM	R38783

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 1611792

Date Reported: 1/19/2017

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: STP1-NW

Project: 2016 4th QTR Ground Water

Collection Date: 11/14/2016 3:00:00 PM

Lab ID: 1611792-008

Matrix: AQUEOUS

Received Date: 11/15/2016 5:15:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: DJF	
cis-1,3-Dichloropropene	ND	0.11	1.0		µg/L	1	11/17/2016 11:49:11 PM	R38783
1,2-Dibromo-3-chloropropane	ND	0.23	2.0		µg/L	1	11/17/2016 11:49:11 PM	R38783
Dibromochloromethane	ND	0.087	1.0		µg/L	1	11/17/2016 11:49:11 PM	R38783
Dibromomethane	ND	0.12	1.0		µg/L	1	11/17/2016 11:49:11 PM	R38783
1,2-Dichlorobenzene	ND	0.40	1.0		µg/L	1	11/17/2016 11:49:11 PM	R38783
1,3-Dichlorobenzene	ND	0.14	1.0		µg/L	1	11/17/2016 11:49:11 PM	R38783
1,4-Dichlorobenzene	ND	0.14	1.0		µg/L	1	11/17/2016 11:49:11 PM	R38783
Dichlorodifluoromethane	ND	0.36	1.0		µg/L	1	11/17/2016 11:49:11 PM	R38783
1,1-Dichloroethane	ND	0.11	1.0		µg/L	1	11/17/2016 11:49:11 PM	R38783
1,1-Dichloroethene	ND	0.11	1.0		µg/L	1	11/17/2016 11:49:11 PM	R38783
1,2-Dichloropropane	ND	0.11	1.0		µg/L	1	11/17/2016 11:49:11 PM	R38783
1,3-Dichloropropane	ND	0.16	1.0		µg/L	1	11/17/2016 11:49:11 PM	R38783
2,2-Dichloropropane	ND	0.17	2.0		µg/L	1	11/17/2016 11:49:11 PM	R38783
1,1-Dichloropropene	ND	0.13	1.0		µg/L	1	11/17/2016 11:49:11 PM	R38783
Hexachlorobutadiene	ND	0.20	1.0		µg/L	1	11/17/2016 11:49:11 PM	R38783
2-Hexanone	ND	0.84	10		µg/L	1	11/17/2016 11:49:11 PM	R38783
Isopropylbenzene	ND	0.10	1.0		µg/L	1	11/17/2016 11:49:11 PM	R38783
4-Isopropyltoluene	ND	0.14	1.0		µg/L	1	11/17/2016 11:49:11 PM	R38783
4-Methyl-2-pentanone	ND	0.43	10		µg/L	1	11/17/2016 11:49:11 PM	R38783
Methylene Chloride	ND	0.19	3.0		µg/L	1	11/17/2016 11:49:11 PM	R38783
n-Butylbenzene	ND	0.16	3.0		µg/L	1	11/17/2016 11:49:11 PM	R38783
n-Propylbenzene	ND	0.13	1.0		µg/L	1	11/17/2016 11:49:11 PM	R38783
sec-Butylbenzene	ND	0.12	1.0		µg/L	1	11/17/2016 11:49:11 PM	R38783
Styrene	ND	0.11	1.0		µg/L	1	11/17/2016 11:49:11 PM	R38783
tert-Butylbenzene	ND	0.12	1.0		µg/L	1	11/17/2016 11:49:11 PM	R38783
1,1,1,2-Tetrachloroethane	ND	0.11	1.0		µg/L	1	11/17/2016 11:49:11 PM	R38783
1,1,2,2-Tetrachloroethane	ND	0.13	2.0		µg/L	1	11/17/2016 11:49:11 PM	R38783
Tetrachloroethene (PCE)	ND	0.15	1.0		µg/L	1	11/17/2016 11:49:11 PM	R38783
trans-1,2-DCE	ND	0.40	1.0		µg/L	1	11/17/2016 11:49:11 PM	R38783
trans-1,3-Dichloropropene	ND	0.10	1.0		µg/L	1	11/17/2016 11:49:11 PM	R38783
1,2,3-Trichlorobenzene	ND	0.11	1.0		µg/L	1	11/17/2016 11:49:11 PM	R38783
1,2,4-Trichlorobenzene	ND	0.13	1.0		µg/L	1	11/17/2016 11:49:11 PM	R38783
1,1,1-Trichloroethane	ND	0.091	1.0		µg/L	1	11/17/2016 11:49:11 PM	R38783
1,1,2-Trichloroethane	ND	0.13	1.0		µg/L	1	11/17/2016 11:49:11 PM	R38783
Trichloroethene (TCE)	ND	0.18	1.0		µg/L	1	11/17/2016 11:49:11 PM	R38783
Trichlorofluoromethane	ND	0.20	1.0		µg/L	1	11/17/2016 11:49:11 PM	R38783
1,2,3-Trichloropropane	ND	0.20	2.0		µg/L	1	11/17/2016 11:49:11 PM	R38783
Vinyl chloride	ND	0.20	1.0		µg/L	1	11/17/2016 11:49:11 PM	R38783
Xylenes, Total	ND	0.37	1.5		µg/L	1	11/17/2016 11:49:11 PM	R38783

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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	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