

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company Enterprise Field Services LLC	Contact Alena Miro
PO Box 4324, Houston, TX 77210	Telephone No. 575-628-6802
Facility Name Poker Lake Discharge Line	Facility Type: Natural Gas Pipeline
Surface Owner BLM	Mineral Owner NA
	Lease No. NA

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
H	19	24S	30E	465	South	431	East	Eddy

Latitude: N 32.204391 Longitude: W -103.913601

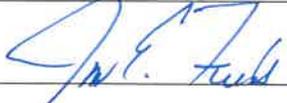
NATURE OF RELEASE

Type of Release Natural Gas and Pipeline Liquids	Volume of Release: 230 MSCF and 4 bbls liquids	Volume Recovered: 3 bbls liquids
Source of Release Pipeline release	Date and Hour of Occurrence 11/06/2016 @ 11:45 MST	Date and Hour of Discovery 11/06/2016 @ 11:45 MST
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	
If a Watercourse was Impacted, Describe Fully.*		

Describe Cause of Problem and Remedial Action Taken.*
Natural gas and pipeline liquids were released due to a pipeline leak. Pipeline segment was isolated, blown down, and repaired following a standard one-call. Approximately 4 bbls of liquid was released and 3 bbls were recovered during initial remediation activities.

Describe Area Affected and Cleanup Action Taken.*
A liquid spill of approximately 4bbls of pipeline liquids occurred as part of the leak and 3 bbls were recovered. Remediation actions followed the Enterprise Products, General Release Notification, Response and Remediation Plan (March 9, 2015).

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: 	OIL CONSERVATION DIVISION	
Printed Name: Jon E. Fields	Approved by District Supervisor:	
Title: Director, Field Environmental	Approval Date:	Expiration Date:
E-mail Address: jefields@eprod.com	Conditions of Approval:	
Date: 5-9-19 Phone: 713-381-6684	Attached <input type="checkbox"/>	

* Attach Additional Sheets If Necessary

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OPERATOR

Initial Report Final Report

Name of Company <i>Enterprise Field Services, LLC</i>	Contact <i>Alena Miro</i>
<i>PO Box 4324, Houston, TX 77210</i>	Telephone No. <i>575-628-6802</i>
Facility Name <i>Poker Lake Discharge ROW</i>	Facility Type: <i>Natural Gas Pipeline</i>
Surface Owner <i>BLM</i>	Mineral Owner <i>NA</i>
	Lease No. <i>NA</i>

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
<i>I</i>	<i>19</i>	<i>24S</i>	<i>30E</i>	<i>350</i>	<i>North</i>	<i>600</i>	<i>East</i>	<i>Eddy</i>

Latitude: *N 32.202058* Longitude: *W -103.914086*

NATURE OF RELEASE

Type of Release <i>Natural Gas and Pipeline Liquids</i>	Volume of Release: <i>235 MSCF and 10 bbls</i>	Volume Recovered: <i>NA</i>
Source of Release <i>Pipeline release</i>	Date and Hour of Occurrence <i>4/27/2017 @ 14:40 MST</i>	Date and Hour of Discovery <i>4/27/2017 @ 14:40 MST</i>
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	
If a Watercourse was Impacted, Describe Fully.*		

Describe Cause of Problem and Remedial Action Taken.*

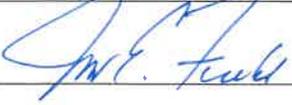
Natural gas and pipeline liquids were released due to a pipeline leak. Pipeline segment was isolated, blown down, and repaired following a standard one-call. Approximately 10 bbls of liquid were released.

Describe Area Affected and Cleanup Action Taken.*

A liquid spill of approximately 10bbls of pipeline liquids occurred as part of the leak. Remediation actions followed the Enterprise Products, General Release Notification, Response and Remediation Plan (March 9, 2015).

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

OIL CONSERVATION DIVISION

Signature: 	Approved by District Supervisor: 	
Printed Name: <i>Jon E. Fields</i>	Approval Date: <i>5/4/2023</i>	Expiration Date:
Title: <i>Director, Field Environmental</i>	Conditions of Approval:	
E-mail Address: <i>jefields@eprod.com</i>	Attached <input type="checkbox"/>	
Date: <i>5-9-19</i> Phone: <i>713-381-6684</i>		

* Attach Additional Sheets If Necessary



November 29, 2017

#5E26025 BG6

 NMOCD District II
 Mike Bratcher
 811 S. 1st Street
 Artesia, New Mexico 88210

 SUBJECT: SOIL REMEDIATION CLOSURE REPORT FOR INCIDENT 2RP-3997 and 2RP-4204
 POKER LAKE DISCHARGE LINE, EDDY COUNTY, NEW MEXICO

Dear Mr. Bratcher:

On behalf of Enterprise Field Services, LLC, Souder, Miller & Associates (SMA) has prepared this CLOSURE REPORT that describes the assessment, initial delineation and remediation for a release associated with the Poker Lake Discharge Line. The site is located in UNIT LETTER I, SECTION 19, TOWNSHIP 24S, RANGE 30E, NMPM, Eddy County, New Mexico, on federal land. Figure 1 illustrates the vicinity and location of the site.

Table 1, below, summarizes information regarding the release.

Table 1: Release information and Site Ranking	
Name	Poker Lake Discharge Line
Company	Enterprise Field Services, LLC
Incident Numbers	2RP-3997, 2RP-4204
Facility Numbers	fAB1632138322, fAB1713229995
Location	32.201, -103.914
Estimated Date of Release	11/6/2016, 4/27/2017
Date Reported to NMOCD	11/14/2016, 5/9/2017
Land Owner	Federal
Reported To	NM Oil Conservation Division (NMOCD)
Source of Release	Buried Pipeline
Released Material	Natural Gas and Pipeline Liquids
Released Volume	465 MSCF and 14 bbls Pipeline Liquids
Recovered Volume	3 bbls Pipeline liquid
Net Release	465 MSCF and 11 bbls Pipeline Liquids
Nearest Waterway	Pecos River is approximately 3 miles West
Depth to Groundwater	Estimated to be greater than 100'
Nearest Domestic Water Source	Less than 1,000 feet
NMOCD Ranking	10
SMA Response Dates	Multiple

Poker Lake 12" Discharge Line
November 29, 2017

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1.0 Background

On November 6, 2016, the Enterprise discharge line failed causing the release of 4 bbls of produced water and 230 MSCF of gas. On April 27, 2017, on the same line approximately 400 feet North of the initial release, 10 bbls of produced water and 235 MSCF were released due to failure. The combined release area was approximately 400 feet long by less than 5 feet wide. Both releases, and their flow paths, are shown in Figure 2a. The initial C-141 forms are included in Appendix A.

2.0 Site Ranking and Land Jurisdiction

The release site is located approximately 9.29 miles southeast of the Town of Malaga, New Mexico at an elevation of approximately 3,204 feet above sea level. The first release point occurred within an unnamed arroyo, that is not a tributary of the Pecos River. After evaluation of the site using aerial photography and topographic maps, and searching the New Mexico Office of the State Engineer's water well database, depth to groundwater is estimated to be greater than 100 feet below ground surface (bgs). Figure 1 depicts the site vicinity and Figures 2a-2c depict the site location.

SMA searched the New Mexico State Engineer's Office (NMOSE) online database for water wells in the vicinity of the release. One domestic water well is located within 1,000 feet but greater than 200 feet from the release site. The primary use of the water well is to provide stock water for stock of less than five households. The physical location of this release is on BLM property and under the jurisdiction of the New Mexico Oil Conservation Division (NMOCD).

Recommended Remediation Action Levels (RRALs) are determined by the site ranking according to the NMOCD *Guidelines for Remediation of Leaks, Spills, and Releases* (1993). Below in Table 2 are the remediation standards and the site ranking for this location. Justification for this site ranking is found in Figure 1 and Appendix B.

Table 2.

Soil Remediation Standards	0 to 9	10 to 19	>19
Benzene	10 PPM	10 PPM	10 PPM
BTEX	50 PPM	50 PPM	50 PPM
TPH	5000 PPM	1000 PPM	100 PPM

Depth to Groundwater	NMOCD Numeric Rank
< 50 BGS = 20	
50' to 99' = 10	
>100' = 0	0
Distance to Nearest Surface Water	NMOCD Numeric Rank
< 200' = 20	
200' - 1000' = 10	
>1000' = 0	0
Well Head Protection	NMOCD Numeric Rank
<1000' (or <200' domestic) = 20	
> 1000' = 0	10
Total Site Ranking	10

Poker Lake 12" Discharge Line
November 29, 2017

Page 3 of 5

3.0 Release Characterization

A. First Release (2RP-3997)

On November 6, 2016, at the request of Enterprise, SMA responded to the release, and worked with the initial emergency action Enterprise Field Services crew, collecting assessment samples and stabilizing the release. Figure 2b depicts the path of the release, all pipelines located in the vicinity of the release, and soil and water sample collection points as described below. The pipeline liquid release flowed down the right of way (ROW) into a small arroyo that crosses multiple buried pipeline ROWs and under four surface production flowlines. The arroyo or unnamed surface drainage terminates into an earthen cattle stock tank approximately 500ft from the release point.

The first action taken was to excavate the area of the release, to repair the damaged pipeline. While that was occurring, SMA collected background and downstream samples, to determine whether the release had traveled down the arroyo. Samples BG1 and BG2 were collected at surface grade and are background samples collected from the unaffected ROW. The initial samples collected, soil samples L1, L2 and SW1 are from the pipeline ROW in the area of potential impact associated with the release beyond the immediate location of the pipeline. Sample SW1 was collected from approximately 2 feet below ground surface (bgs) in the initial excavation made to repair the 12" pipeline. Aliquots of Samples L1 and L2 were field screened with a calibrated Photo Ionization Detector (PID), with the remainder of the samples sent under standard chain of custody protocol to Hall Environmental Analysis Laboratory. Table 3a, First Release Summary of Laboratory Results provides the results of the summary of the laboratory analytical results for all samples.

As part of the initial actions, an intercept berm was placed across the drainage to prevent any flow into the earthen stock tank. A collection sump was constructed up gradient of the intercept berm to collect any flowing liquids. At 6:45pm, SMA field personnel placed a call to Shelly Tucker at the BLM and notified her that vacuum trucks could not drive into the arroyo to recover the lost fluids to prevent pipeline liquids from flowing further down the drainage. With a gathering thunderstorm to the east of the location, SMA requested that a vacuum truck with fresh water be mobilized to the site. At that time, SMA and Enterprise Field Service field personnel used approximately 75BBL of fresh water (Field EC of 0.02mS) to flush the released pipeline liquids down the arroyo into the sump excavated downgradient. The pipeline liquids and water were recovered from the sump and sent to an SWD for proper disposal. The release point was excavated and a clamp placed over the affected pipe. All affected soils were placed on plastic and a berm was placed at sample point L2 to prevent any further migration of remaining pipeline liquids down the ROW.

On November 16, 2016, after the rain events of the prior week, SMA field personnel returned to the location to resample around the pipeline at the source of the release, down the pipeline ROW, the arroyo, and in the cattle stock tank. Assessment samples at the location were taken by courier under a chain of custody to Hall Environmental Analysis Laboratories on November 21, 2016. As recorded in Table 3a, assessment samples were collected at approximately 0.5 feet bgs, with samples from the arroyo and pipeline ROW. Aqueous sample W1 was collected from the sump, W2 was collected from the flow path during flush, and W3 from the cattle stock tank.

After these initial responses, and laboratory results were received, SMA and Enterprise determined that the arroyo between the excavation and flush point had been impacted as far as sample L3 (approximately XX  from release). This is a very rocky area, which crosses two buried pipelines. Laboratory analysis also indicated that soils downstream from the flush point (where the fresh water was put in to flush down the draw) meet regulatory standards. Field soil samples collected, both pre-flush and post-flush showed

Poker Lake 12" Discharge Line
November 29, 2017

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a reduction in chlorides by a factor of 10 (see Table 3a).

The water samples collected from the accumulated water in the sump and cattle stock tank yielded results below NMOCD closure standards for benzene, combined benzene, toluene, ethyl-benzene, and total xylenes (BTEX), and TPH, noted in table 3a.

It was determined that further excavation was necessary in the area of the release. The excavation work was scheduled for Spring of 2017, and is discussed in Section 4.0, Soil Remediation Summary, below.

B. Second Release (2RP-4204)

On April 27, 2017, a second release occurred as a rupture along the same pipeline approximately 400 feet North of the first release. This release pooled in the unnamed arroyo and flowed west along it, stopping short of the sump from the first release. This area is characterized by deep, moist, sandy soils typically found in bottom lands and drainage features. The release followed along the Enterprise pipeline for approximately 100 feet, then flowed west down the draw (see Figure 2c) where it crossed five more buried pipelines. The deepest pooling areas along the flow path were found at sample points L7 and L8.

On May 10th, 2017 SMA field personnel was onsite to assess the second release after the pipeline had been repaired. Samples L5 through L9 were collected and analyzed per NMOCD standards. Table 3b, Second Release Summary of Laboratory Results, provides the results of the field screening as well as the summary of the laboratory analytical results for all samples. Hall Environmental Analysis Laboratories Analytical Reports are included in Appendix A.

Since the impacted area had pooled in the arroyo, flushing was not an option. Therefore, it was determined that further excavation was necessary in the area of the release, and following the flow path, as possible. The excavation work was conducted in May, 2017, and is discussed in Section 4.0, Soil Remediation Summary, below.

4.0 Soil Remediation Summary

A. First Release

Clean confirmation samples from the sidewalls and bottom of the excavation around the ruptured pipeline have been collected. Three samples exceed regulatory standards, L1, L2 and L3, which is a very rocky area that crosses two buried pipelines, and cannot be safely excavated. However, with the exception of sample L1, all meet RRAL's. In addition, water samples from the stock tank indicate that it was not impacted at any time during the release or remedial activities.

B. Second Release

After 811 clearance, the guided excavation began on May 15, 2017. The pipeline was excavated to ten feet bgs, while the rest of the impacted soils were excavated to a maximum of five feet bgs. The release path crossed five more buried pipelines, impeding the excavation in a number of locations. Within the arroyo, all impacted soils met RRAL's except for sample point L8, which was directly over a high-pressure water line. This area was delineated and found to clean up at six feet bgs, but was only excavated two feet bgs, due to safety concerns. Soils were also left in place on four feet to either side of the pipeline as per the pipeline owners' request.

Poker Lake 12" Discharge Line
November 29, 2017

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This excavation is characterized by sample points L5 through L9, with L5 being at the release point and represents the bottom hole of the excavation. Sidewalls were extended until RRALs were met at SW5 through SW9. See figure 2c and table 3b for details.

5.0 Scope and Limitations

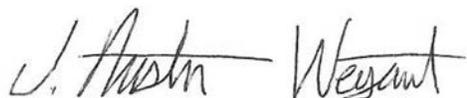
The scope of our services consisted of the performance of assessment sampling, verification of release stabilization, regulatory liaison, and preparation of this work plan. All work has been performed in accordance with generally accepted professional environmental consulting practices for oil and gas releases in the Permian Basin in New Mexico.

If there are any questions regarding this report, please contact either Austin Weyant at 575-689-8801 or Shawna Chubbuck at 505-325-7535.

Submitted by:

Reviewed by:

SOUDER, MILLER & ASSOCIATES



Austin Weyant
Project Scientist

Shawna Chubbuck
Senior Scientist

ATTACHMENTS:

Figures:

Figure 1: Vicinity and Well Head Protection Map
Figure 2: Site and Sample Location Maps

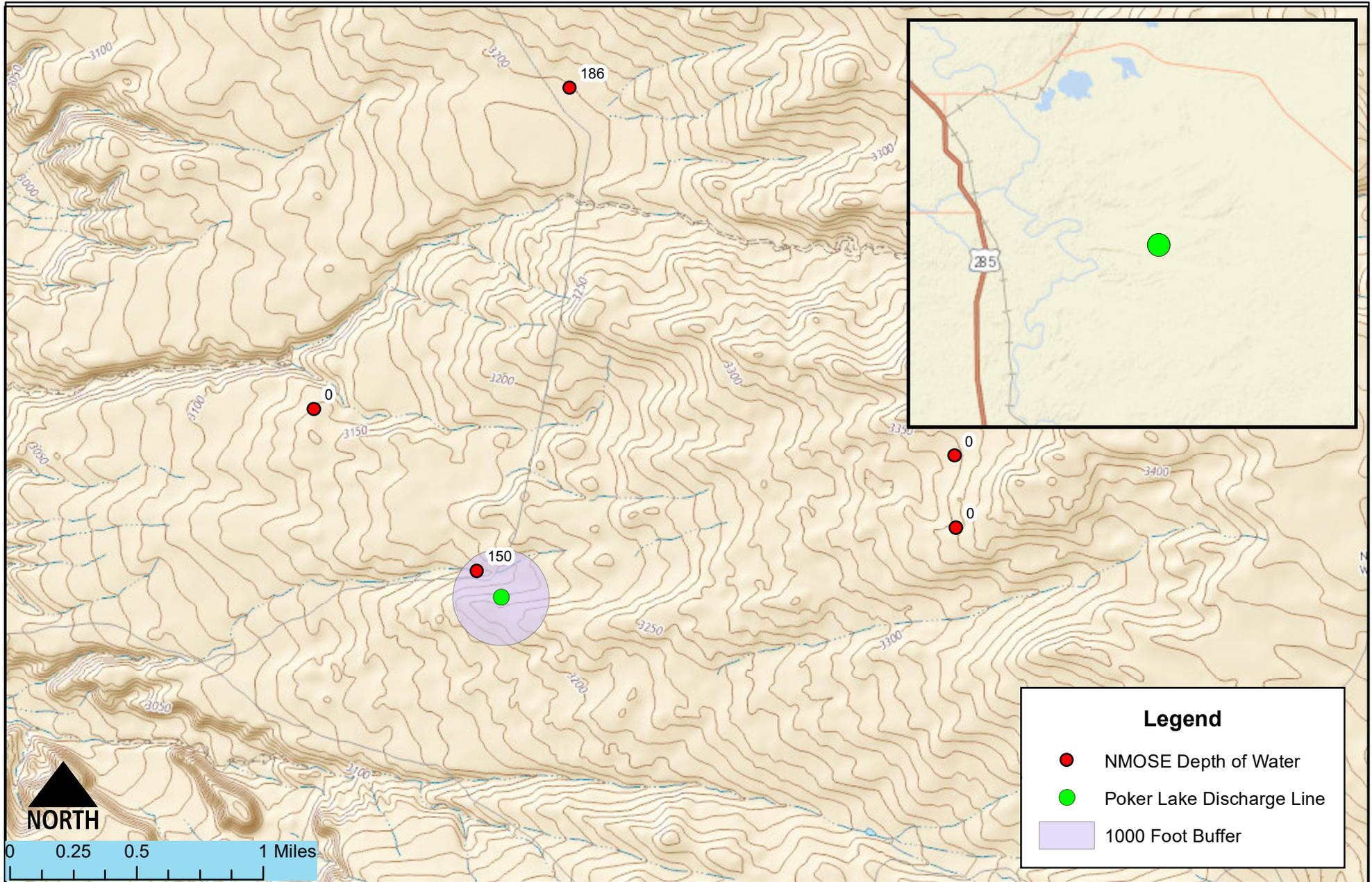
Tables:

Table 3: Summary of Sample Results

Appendices:

Appendix A: Form C141 Initial
Appendix B: NMOSE Wells Report
Appendix C: Laboratory Analytical Reports

FIGURE 1
VICINITY AND NMOSE
DATA MAP



Legend

- NMOSE Depth of Water
- Poker Lake Discharge Line
- 1000 Foot Buffer

Vicinity and Well Head Protection Map
 Poker Lake Discharge Line - Enterprise Field Services
 I 19:T24S-R30E, New Mexico

Figure 1

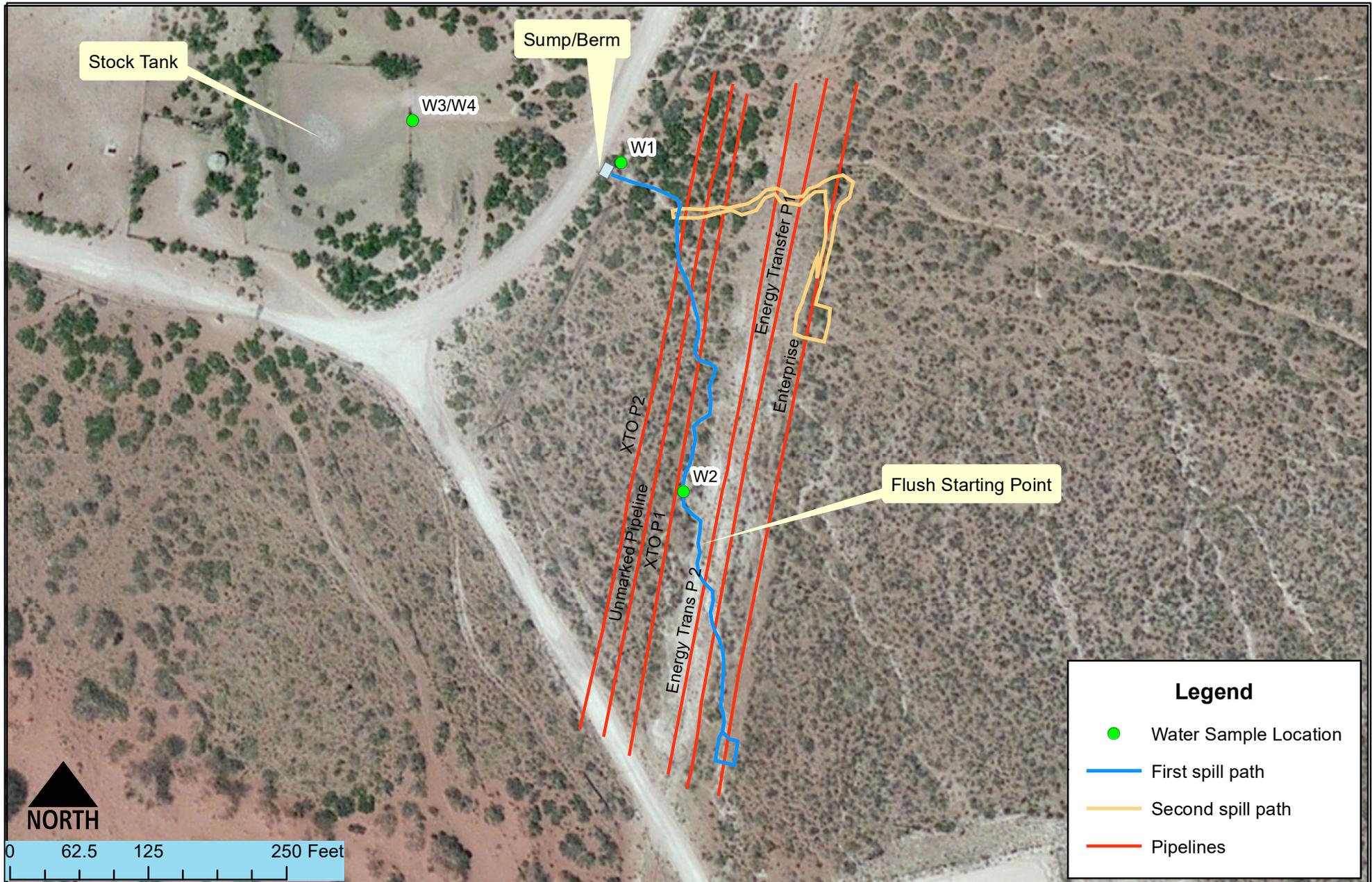
Date Saved: 6/8/2017	By: _____	Date: _____	Revisions	Descr: _____
	By: _____	Date: _____		Descr: _____
	Copyright 2015 Souder, Miller & Associates - All Rights Reserved			

Drawn	<u>Heather Patterson</u>
Checked	_____
Approved	_____



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**FIGURE 2
SITE AND SAMPLE
LOCATION MAPS**



Site and Sample Location Map
 Poker Lake Discharge Line - Enterprise Field Services
 I 19-T24S-R30E, New Mexico

Figure 2a

Date Saved: 7/12/2017	By: _____	Date: _____	Revisions	Descr: _____
	By: _____	Date: _____		Descr: _____
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Drawn	<u>Heather Patterson</u>
Checked	_____
Approved	_____



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Site and Sample Location Map, Release #1
 Poker Lake Discharge Line - Enterprise Field Services
 I 19-T24SR30E, New Mexico

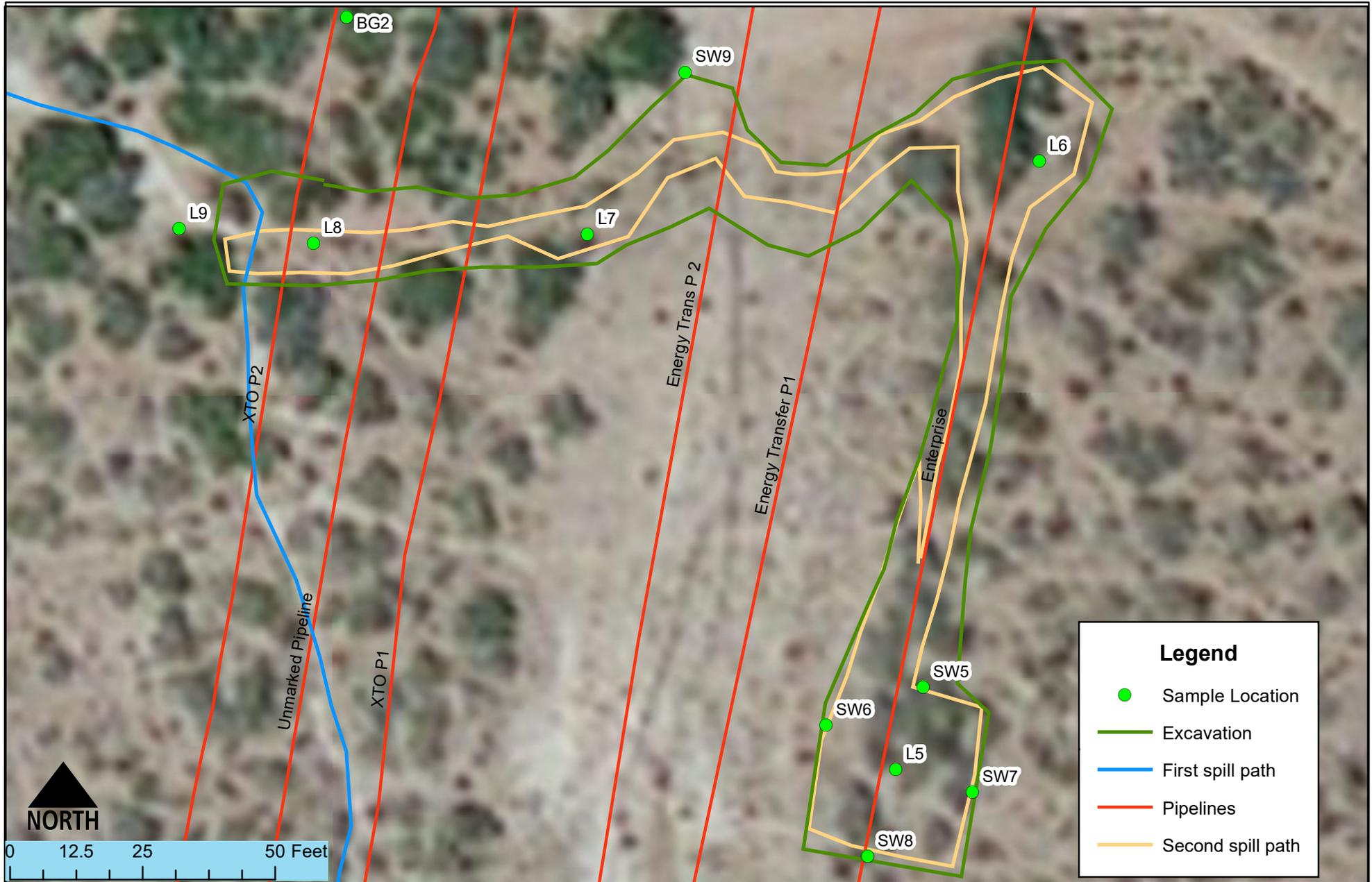
Figure 2b

Date Saved: 6/5/2017
 By: _____ Date: _____ Revisions Descr: _____
 By: _____ Date: _____ Descr: _____
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Drawn Heather Patterson
 Checked _____
 Approved _____



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Site and Sample Location Map, Release #2
 Poker Lake Discharge Line - Enterprise Field Services
 I 19-T24S-R30E, New Mexico

Figure 2c

Date Saved: 6/5/2017	By: _____	Date: _____	Revisions	Descr: _____
	By: _____	Date: _____		Descr: _____
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Drawn	<u>Heather Patterson</u>
Checked	_____
Approved	_____



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TABLE 3

SUMMARY SAMPLE RESULTS

Table 3a
Poker Lake Discharge Line - First Release

Pre-Flush Sampling

Sample Number on Figure 2	Sample Date	Depth (feet bgs)	Proposed Action	BTEX ppm	Benzene mg/Kg	GRO mg/Kg	DRO mg/Kg	MRO mg/Kg	Total TPH mg/Kg	Cl- Field Screens (ppm)	Cl- Laboratory mg/Kg
NMOCD RRAL's for Site Ranking 10				50 mg/Kg	10 mg/Kg				1000 mg/Kg		
L1	11/6/2016	0.5	flushed	135.9	2.9	1600	3900	--	5500	--	19000
L2	11/6/2016	0.5	flushed	24.57	0.17	690	1300	--	1990	--	3700
SW1	11/6/2016	2	excavated	<0.064	<0.016	220	41	--	261	--	1700
BG1	11/6/2016	0.5	in-situ	<0.080	<0.018	5.9	<9.8	--	6	--	<30
BG2	11/6/2016	0.5	in-situ	<0.060	<0.015	15	<9.1	--	15	--	<30

Post-Flush/Excavation

L1	4/12/2017	0.5	in-situ	--	--	<4.9	570	900	1470	--	810
L2	8/7/2017	0.5	in-situ	--	--	<4.8	<9.4	<47	0	--	<30
L3	8/7/2017	0.5	in-situ	<0.095	<0.024	<4.8	210	620	830	--	67
L4	4/12/2017	0.5	in-situ	--	--	<4.8	<10	<50	0	--	<30
L10	5/17/2017	6	in-situ	<0.095	<0.024	<4.8	<10	<50	0	4	75
SW1	4/12/2017	comp	excavated	--	--	11	1,100	1,000	2,111	--	7400
	5/17/2017	comp	in-situ	<0.098	<0.025	--	--	--	--	175	560
SW2	4/12/2017	comp	excavated	--	--	<4.8	14	72	86	--	1600
	5/17/2017	comp	in-situ	<0.093	<0.023	--	--	--	--	130	90
SW3	4/12/2017	comp	excavated	--	--	<4.9	<9.5	<48	0	--	9300
	5/17/2017	comp	in-situ	<0.097	<0.024	--	--	--	--	267	61
SW4	4/12/2017	comp	excavated	--	--	<4.9	<10	<50	0	--	950
	5/17/2017	comp	in-situ	<0.10	<0.025	--	--	--	--	--	<30

Water Samples

W1	11/16/2016	sump	disposed	<1.5	<1.0	<0.05	1.80	--	1.8	--	--
W2	11/16/2016	during flush	disposed	22	6.3	0.18	<1.0	--	0.18	--	--
W3	11/16/2016	stock tank	in-situ	<1.5	<1.0	<0.05	<1.0	--	0	--	--
W4	5/17/2017	stock tank	in-situ	<1.5	<1.0	<0.05	<1.0	<5.0	0	--	--

Table 3b

Poker Lake Discharge Line - Second Release

Sample Number on Figure 2	Sample Date	Depth (feet bgs)	Proposed Action	BTEX ppm	Benzene mg/Kg	GRO mg/Kg	DRO mg/Kg	MRO mg/Kg	Total TPH mg/Kg	Cl- Field Screens (ppm)	Cl- Laboratory mg/Kg
NMOCD RRAL's for Site Ranking 10				50 mg/Kg	10 mg/Kg				1000 mg/Kg		
L5	5/10/2017	6	excavated	31	0.56	3100	3700	3200	10000	3240	3800
	5/15/2017	10	excavated	--	--	--	--	--	--	3863	--
	8/7/2017	11	in-situ	--	--	<5.0	<10	<50	0	--	120
	8/7/2017	18	in-situ	--	--	--	--	--	--	--	110
L6	5/10/2017	1.5	excavated	--	--	<4.6	53	60	113	3178	2800
	5/15/2017	2	in-situ	<0.094	<0.023	--	--	--	--	210	330
L7	5/10/2017	0.5	excavated	--	--	530	13000	7700	21230	1580	1100
	5/15/2017	2.5	excavated	--	--	--	--	--	--	1237	--
	5/17/2017	3.5	excavated	--	--	--	--	--	--	2322	--
	5/17/2017	5	in-situ	<0.097	<0.024	<4.9	<9.8	<49	0	75	<30
L8	5/10/2017	1	excavated	--	--	--	--	--	--	18	--
	5/10/2017	2	excavated	140	9.7	4300	10000	5000	19300	95	78
	5/17/2017	6	in-situ	<0.208	<0.023	<4.6	<9.7	<48	<62.3	--	--
L9	5/10/2017	0.5	in-situ	--	--	<5.0	68	98	166	18	50
SW5	5/10/2017	comp	excavated	--	--	--	--	--	--	6946	4900
	5/15/2017	comp	in-situ	--	--	<4.7	<10	<50	0	95	71
SW6	5/10/2017	comp	excavated	--	--	--	--	--	--	2379	2500
	5/15/2017	comp	in-situ	--	--	8.3	110	170	288	780	740
SW7	5/10/2017	comp	excavated	--	--	--	--	--	--	4091	5500
	5/15/2017	comp	in-situ	--	--	<4.6	<9.3	<46	0	324	160
SW8	5/15/2017	comp	in-situ	--	--	<4.9	<9.4	<47	0	210	<30
SW9	5/15/2017	comp	in-situ	--	--	--	--	--	--	0	<30
W4	5/17/2017	stock tank	in-situ	<1.5	<1.0	<0.05	<1.0	<5.0	0	--	--

"--" = Not Analyzed

APPENDIX A FORM C141 INITIAL

NM OIL CONSERVATION

ARTESIA DISTRICT

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

NOV 14 2016

Form C-141
Revised August 8, 2011

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.
RECEIVED

PAB1632138355 Release Notification and Corrective Action

NAB1632137183 OPERATOR Initial Report Final Report

Name of Company <i>Enterprise Field Services LLC 1000347</i>	Contact <i>Alena Miro</i>
<i>PO Box 4324, Houston, TX 77210</i>	Telephone No. <i>575-628-6802</i>
Facility Name <i>Poker Lake Discharge Line</i>	Facility Type: <i>Natural Gas Pipeline</i>

Surface Owner <i>BLM</i>	Mineral Owner <i>NA</i>	Lease No. <i>NA</i>
--------------------------	-------------------------	---------------------

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
<i>H</i>	<i>19</i>	<i>24S</i>	<i>30E</i>	<i>465</i>	<i>South</i>	<i>431</i>	<i>East</i>	<i>Eddy</i>

Latitude: *N 32.204391* Longitude: *W -103.913601*

NATURE OF RELEASE

Type of Release <i>Natural Gas and Pipeline Liquids</i>	Volume of Release: <i>230 MSCF and 4 bbls liquids</i>	Volume Recovered: <i>3 bbls liquids</i>
Source of Release <i>Pipeline release</i>	Date and Hour of Occurrence <i>11/06/2016 @ 11:45 MST</i>	Date and Hour of Discovery <i>11/06/2016 @ 11:45 MST</i>
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
Natural gas and pipeline liquids were released due to a pipeline leak. Pipeline segment was isolated, blown down, and will be repaired following standard one-call. Approximately 4 bbls of liquid was released and 3 bbls were recovered during initial remediation activities.

Describe Area Affected and Cleanup Action Taken.*
A liquid spill of approximately 4bbls of pipeline liquids occurred as part of the leak and 3 bbls were recovered. Remediation actions will follow the Enterprise Products, General Release Notification, Response and Remediation Plan (March 9, 2015).

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOC rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOC marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOC acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: <i>Jon Fields</i>	OIL CONSERVATION DIVISION	
Printed Name: <i>Jon E. Fields</i>	Signed By <i>Mike Brannon</i> Approved by District Supervisor.	
Title: <i>Director, Field Environmental</i>	Approval Date: <i>11/16/16</i>	Expiration Date: <i>N/A</i>
E-mail Address: <i>jefields@eprod.com</i>	Conditions of Approval:	Attached <input checked="" type="checkbox"/>
Date: <i>11-14-2016</i> Phone: <i>713-381-6684</i>		

* Attach Additional Sheets If Necessary

2AP-3997

NM OIL CONSERVATION
ARTESIA DISTRICT

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

MAY 09 2017

Form C-141
Revised August 8, 2011

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

RECEIVED appropriate District Office in accordance with 19.15.29 NMAC.

NAB 1713229995 Release Notification and Corrective Action

NAB 1713230240 OPERATOR Initial Report Final Report

Name of Company <i>Enterprise Field Services, LLC</i>	Contact <i>Alena Miro</i>
<i>PO Box 4324, Houston, TX 77210</i>	Telephone No. <i>575-628-6802</i>
Facility Name <i>Poker Lake Discharge ROW</i>	Facility Type: <i>Natural Gas Pipeline</i>
Surface Owner <i>BLM</i>	Mineral Owner <i>NA</i>
	Lease No. <i>NA</i>

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
<i>I</i>	<i>19</i>	<i>24S</i>	<i>30E</i>	<i>350</i>	<i>North</i>	<i>600</i>	<i>East</i>	<i>Eddy</i>

Latitude: *N 32.202058* Longitude: *W -103.914086*

NATURE OF RELEASE

Type of Release <i>Natural Gas and Pipeline Liquids</i>	Volume of Release: <i>235 MSCF and 10 bbls</i>	Volume Recovered: <i>NA</i>
Source of Release <i>Pipeline release</i>	Date and Hour of Occurrence <i>4/27/2017 @ 14:40 MST</i>	Date and Hour of Discovery <i>4/27/2017 @ 14:40 MST</i>
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

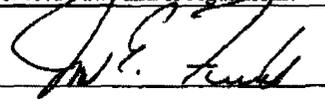
Describe Cause of Problem and Remedial Action Taken.*

Natural gas and pipeline liquids were released due to a pipeline leak. Pipeline segment was isolated, blown down, and will be repaired following standard one-call. Approximately 10 bbls of liquid were released.

Describe Area Affected and Cleanup Action Taken.*

A liquid spill of approximately 10bbls of pipeline liquids occurred as part of the leak. Remediation actions will follow the Enterprise Products, General Release Notification, Response and Remediation Plan (March 9, 2015). Potential remediation activities include excavation, flushing on rock areas that prevent excavation, and microbial application.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: 	OIL CONSERVATION DIVISION	
Printed Name: <i>Jon E. Fields</i>	Approved by District Supervisor: 	
Title: <i>Director, Field Environmental</i>	Approval Date: <i>5/10/17</i>	Expiration Date: <i>N/A</i>
E-mail Address: <i>jefields@eprod.com</i>	Conditions of Approval: <i>see attached</i>	Attached <input type="checkbox"/>
Date: <i>5/9/2017</i> Phone: <i>713-381-6684</i>		

* Attach Additional Sheets If Necessary

New forms can be found in the
New Mexico State Website in forms:
[http://www.emnrd.state.nm.us/
OCD/forms.html](http://www.emnrd.state.nm.us/OCD/forms.html)

2RP-4204

Operator/Responsible Party,

The OCD has received the form C-141 you provided on 5/9/17 regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number 2RP-1204 has been assigned. **Please refer to this case number in all future correspondence.**

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete division-approved corrective action for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. **As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District 2 office in ARTESIA on or before 6/9/17. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.**

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

- Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.
- Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.
- Nominal detection limits for field and laboratory analyses must be provided.
- Composite sampling is not generally allowed.
- Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

- Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.

- If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.

- Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold

OCD Environmental Bureau Chief

1220 South St. Francis Drive

Santa Fe, New Mexico 87505

505-476-3465

jim.griswold@state.nm.us

APPENDIX B

NMOSE WELLS REPORT



New Mexico Office of the State Engineer

Point of Diversion Summary

	(quarters are 1=NW 2=NE 3=SW 4=SE)		
	(quarters are smallest to largest)	(NAD83 UTM in meters)	
POD Number	Q64 Q16 Q4 Sec Tws Rng	X	Y
C 02109	1 2 4 19 24S 30E	602130	3563412

Driller License:	Driller Company:		
Driller Name: UNKNOWN			
Drill Start Date:	Drill Finish Date: 12/31/1963	Plug Date:	
Log File Date:	PCW Rcv Date:	Source:	
Pump Type:	Pipe Discharge Size:	Estimated Yield: 40 GPM	
Casing Size: 7.00	Depth Well: 130 feet	Depth Water: 150 feet	

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

APPENDIX C

LABORATORY ANALYTICAL REPORTS



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

May 24, 2017

Austin Weyant
Souder, Miller & Associates
201 S Halagueno
Carlsbad, NM 88221
TEL: (575) 689-7040
FAX

RE: Poker Lake

OrderNo.: 1705A29

Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 6 sample(s) on 5/18/2017 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

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

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written in a cursive style.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order **1705A29**

Date Reported: 5/24/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: SW5

Project: Poker Lake

Collection Date: 5/15/2017 2:30:00 PM

Lab ID: 1705A29-001

Matrix: SOIL

Received Date: 5/18/2017 10:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	71	30		mg/Kg	20	5/23/2017 3:25:40 PM	31903
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	5/23/2017 6:17:25 PM	31879
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	5/23/2017 6:17:25 PM	31879
Surr: DNOP	82.6	70-130		%Rec	1	5/23/2017 6:17:25 PM	31879
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	5/22/2017 1:11:25 PM	31844
Surr: BFB	105	54-150		%Rec	1	5/22/2017 1:11:25 PM	31844

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

Analytical Report

Lab Order **1705A29**

Date Reported: 5/24/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: SW6

Project: Poker Lake

Collection Date: 5/15/2017 2:17:00 PM

Lab ID: 1705A29-002

Matrix: SOIL

Received Date: 5/18/2017 10:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	740	30		mg/Kg	20	5/23/2017 3:38:05 PM	31903
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	110	9.6		mg/Kg	1	5/23/2017 6:39:33 PM	31879
Motor Oil Range Organics (MRO)	170	48		mg/Kg	1	5/23/2017 6:39:33 PM	31879
Surr: DNOP	96.4	70-130		%Rec	1	5/23/2017 6:39:33 PM	31879
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	8.3	4.9		mg/Kg	1	5/22/2017 5:10:46 PM	31844
Surr: BFB	172	54-150	S	%Rec	1	5/22/2017 5:10:46 PM	31844

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

Analytical Report

Lab Order **1705A29**

Date Reported: 5/24/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: SW7

Project: Poker Lake

Collection Date: 5/15/2017 2:30:00 PM

Lab ID: 1705A29-003

Matrix: SOIL

Received Date: 5/18/2017 10:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	160	30		mg/Kg	20	5/23/2017 3:50:30 PM	31903
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	5/23/2017 7:01:49 PM	31879
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	5/23/2017 7:01:49 PM	31879
Surr: DNOP	95.4	70-130		%Rec	1	5/23/2017 7:01:49 PM	31879
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	5/22/2017 5:34:43 PM	31844
Surr: BFB	94.3	54-150		%Rec	1	5/22/2017 5:34:43 PM	31844

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

Analytical Report

Lab Order **1705A29**

Date Reported: 5/24/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: SW8

Project: Poker Lake

Collection Date: 5/15/2017 2:59:00 PM

Lab ID: 1705A29-004

Matrix: SOIL

Received Date: 5/18/2017 10:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	ND	30		mg/Kg	20	5/23/2017 4:27:43 PM	31923
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	5/23/2017 7:24:00 PM	31879
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	5/23/2017 7:24:00 PM	31879
Surr: DNOP	71.3	70-130		%Rec	1	5/23/2017 7:24:00 PM	31879
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/22/2017 5:58:38 PM	31844
Surr: BFB	98.5	54-150		%Rec	1	5/22/2017 5:58:38 PM	31844

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

Analytical Report

Lab Order **1705A29**

Date Reported: 5/24/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: SW9

Project: Poker Lake

Collection Date: 5/15/2017 1:15:00 PM

Lab ID: 1705A29-005

Matrix: SOIL

Received Date: 5/18/2017 10:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	ND	30		mg/Kg	20	5/23/2017 5:04:58 PM	31923

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

Analytical Report

Lab Order **1705A29**

Date Reported: 5/24/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: L6-2

Project: Poker Lake

Collection Date: 5/15/2017 12:00:00 PM

Lab ID: 1705A29-006

Matrix: SOIL

Received Date: 5/18/2017 10:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	330	30		mg/Kg	20	5/23/2017 5:42:12 PM	31923
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	5/22/2017 6:46:45 PM	31844
Toluene	ND	0.047		mg/Kg	1	5/22/2017 6:46:45 PM	31844
Ethylbenzene	ND	0.047		mg/Kg	1	5/22/2017 6:46:45 PM	31844
Xylenes, Total	ND	0.094		mg/Kg	1	5/22/2017 6:46:45 PM	31844
Surr: 4-Bromofluorobenzene	110	66.6-132		%Rec	1	5/22/2017 6:46:45 PM	31844

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#: 1705A29

24-May-17

Client: Souder, Miller & Associates

Project: Poker Lake

Sample ID	MB-31903	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	31903	RunNo:	42994					
Prep Date:	5/23/2017	Analysis Date:	5/23/2017	SeqNo:	1353923	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-31903	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	31903	RunNo:	42994					
Prep Date:	5/23/2017	Analysis Date:	5/23/2017	SeqNo:	1353924	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.2	90	110			

Sample ID	MB-31923	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	31923	RunNo:	42994					
Prep Date:	5/23/2017	Analysis Date:	5/23/2017	SeqNo:	1353951	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-31923	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	31923	RunNo:	42994					
Prep Date:	5/23/2017	Analysis Date:	5/23/2017	SeqNo:	1353952	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.0	90	110			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1705A29

24-May-17

Client: Souder, Miller & Associates

Project: Poker Lake

Sample ID LCS-31879	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 31879		RunNo: 42983							
Prep Date: 5/22/2017	Analysis Date: 5/23/2017		SeqNo: 1352953		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	10	50.00	0	88.2	73.2	114			
Surr: DNOP	4.7		5.000		94.9	70	130			

Sample ID MB-31879	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 31879		RunNo: 42983							
Prep Date: 5/22/2017	Analysis Date: 5/23/2017		SeqNo: 1352954		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		100	70	130			

Sample ID LCS-31889	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 31889		RunNo: 42983							
Prep Date: 5/22/2017	Analysis Date: 5/23/2017		SeqNo: 1353523		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.6		5.000		91.3	70	130			

Sample ID MB-31889	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 31889		RunNo: 42983							
Prep Date: 5/22/2017	Analysis Date: 5/23/2017		SeqNo: 1353524		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.6		10.00		96.3	70	130			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1705A29

24-May-17

Client: Souder, Miller & Associates

Project: Poker Lake

Sample ID MB-31844	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 31844		RunNo: 42956							
Prep Date: 5/19/2017	Analysis Date: 5/22/2017		SeqNo: 1352236		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	970		1000		97.4	54	150			

Sample ID LCS-31844	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 31844		RunNo: 42956							
Prep Date: 5/19/2017	Analysis Date: 5/22/2017		SeqNo: 1352237		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	94.1	76.4	125			
Surr: BFB	1000		1000		103	54	150			

Sample ID 1705A29-001AMS	SampType: MS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: SW5	Batch ID: 31844		RunNo: 42956							
Prep Date: 5/19/2017	Analysis Date: 5/22/2017		SeqNo: 1352239		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	4.8	23.92	1.490	98.6	77.8	128			
Surr: BFB	1200		956.9		128	54	150			

Sample ID 1705A29-001AMSD	SampType: MSD		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: SW5	Batch ID: 31844		RunNo: 42956							
Prep Date: 5/19/2017	Analysis Date: 5/22/2017		SeqNo: 1352240		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	4.7	23.63	1.490	83.0	77.8	128	17.3	20	
Surr: BFB	1100		945.2		116	54	150	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#: 1705A29

24-May-17

Client: Souder, Miller & Associates

Project: Poker Lake

Sample ID MB-31844	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 31844		RunNo: 42956							
Prep Date: 5/19/2017	Analysis Date: 5/22/2017		SeqNo: 1352252		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.2		1.000		115	66.6	132			

Sample ID LCS-31844	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 31844		RunNo: 42956							
Prep Date: 5/19/2017	Analysis Date: 5/22/2017		SeqNo: 1352253		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.025	1.000	0	97.6	80	120			
Toluene	1.0	0.050	1.000	0	101	80	120			
Ethylbenzene	1.0	0.050	1.000	0	101	80	120			
Xylenes, Total	3.1	0.10	3.000	0	103	80	120			
Surr: 4-Bromofluorobenzene	1.2		1.000		116	66.6	132			

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



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

Sample Log-In Check List

Client Name: SMA-CARLSBAD

Work Order Number: 1705A29

RcptNo: 1

Received By: Erin Melendrez 5/18/2017 10:00:00 AM

Completed By: Andy Jansson 5/18/2017 4:24:26 PM

Reviewed By: ENM/aj 5/19/17

[Handwritten signatures]

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? Yes No # of preserved bottles checked for pH: _____
(Note discrepancies on chain of custody) (<2 or >12 unless noted)
- 13. Are matrices correctly identified on Chain of Custody? Yes No Adjusted? _____
- 14. Is it clear what analyses were requested? Yes No
- 15. Were all holding times able to be met? Yes No Checked by: _____
(If no, notify customer for authorization.)

Special Handling (if applicable)

- 16. Was client notified of all discrepancies with this order? Yes No NA

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

17. Additional remarks:

18. Cooler Information

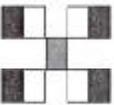
Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.6	Good	Yes			

Chain-of-Custody Record

Client: SMA Standard Rush
 Project Name: Poker Lake
 Project #: _____
 Mailing Address: _____
 Phone #: _____
 email or Fax#: _____
 QA/QC Package: Standard Level 4 (Full Validation)
 Accreditation: NELAP Other _____
 EDD (Type) _____
 Project Manager: Austin Weyant
 Sampler: _____
 On Ice: Yes No
 Sample Temperature: 5.1 - 0.5 (CF) = 4.6°C

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.
5/15/17	2:30	soil	SWS	402		1705A29
}	2:17	}	SW6	}		-001
	2:30		SW7			-002
}	2:54	}	SW8	}		-003
	1:15		SW9			-004
	12:00		LC-2			-005
						-006

Date: _____ Relinquished by: [Signature] Date: _____
 Date: 5/17/17 1900 Relinquished by: [Signature] Date: 05/18/17 1000
 Received by: [Signature] Date: 5/17/17 0910
 Received by: [Signature] Date: _____



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 + TMBs (8021)	<input type="checkbox"/>
BTEX + MTBE + TPH (Gas only)	<input type="checkbox"/>
TPH 8015B (GRO / DRO / MRO)	<input checked="" type="checkbox"/>
TPH (Method 418.1)	<input type="checkbox"/>
EDB (Method 504.1)	<input type="checkbox"/>
PAHs (8310 or 8270 SIMS)	<input type="checkbox"/>
RCRA 8 Metals	<input type="checkbox"/>
Anions (F, Cl, NO ₂ , NO ₃ , PO ₄ , SO ₄)	<input checked="" type="checkbox"/>
8081 Pesticides / 8082 PCBs	<input type="checkbox"/>
8260B (VOA)	<input type="checkbox"/>
8270 (Semi-VOA)	<input type="checkbox"/>
Air Bubbles (Y or N)	<input type="checkbox"/>

Remarks: _____



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

May 31, 2017

Austin Weyant
Souder, Miller & Associates
201 S Halagueno
Carlsbad, NM 88221
TEL: (575) 689-7040
FAX

RE: Poker Lake

OrderNo.: 1705C15

Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 8 sample(s) on 5/23/2017 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

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

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 1705C15

Date Reported: 5/31/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: L7-5

Project: Poker Lake

Collection Date: 5/17/2017 11:00:00 AM

Lab ID: 1705C15-001

Matrix: SOIL

Received Date: 5/23/2017 9:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	30		mg/Kg	20	5/26/2017 6:30:38 PM	32004
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	5/25/2017 9:23:47 PM	31932
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/25/2017 9:23:47 PM	31932
Surr: DNOP	83.7	70-130		%Rec	1	5/25/2017 9:23:47 PM	31932
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/24/2017 8:57:50 PM	31921
Surr: BFB	98.0	54-150		%Rec	1	5/24/2017 8:57:50 PM	31921
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	5/24/2017 8:57:50 PM	31921
Toluene	ND	0.049		mg/Kg	1	5/24/2017 8:57:50 PM	31921
Ethylbenzene	ND	0.049		mg/Kg	1	5/24/2017 8:57:50 PM	31921
Xylenes, Total	ND	0.097		mg/Kg	1	5/24/2017 8:57:50 PM	31921
Surr: 4-Bromofluorobenzene	113	66.6-132		%Rec	1	5/24/2017 8:57:50 PM	31921

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

Analytical Report

Lab Order 1705C15

Date Reported: 5/31/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: L8-6

Project: Poker Lake

Collection Date: 5/17/2017 10:15:00 AM

Lab ID: 1705C15-002

Matrix: SOIL

Received Date: 5/23/2017 9:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	5/25/2017 9:51:55 PM	31932
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	5/25/2017 9:51:55 PM	31932
Surr: DNOP	84.2	70-130		%Rec	1	5/25/2017 9:51:55 PM	31932
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	5/24/2017 9:21:44 PM	31921
Surr: BFB	98.7	54-150		%Rec	1	5/24/2017 9:21:44 PM	31921
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	5/24/2017 9:21:44 PM	31921
Toluene	ND	0.046		mg/Kg	1	5/24/2017 9:21:44 PM	31921
Ethylbenzene	ND	0.046		mg/Kg	1	5/24/2017 9:21:44 PM	31921
Xylenes, Total	ND	0.093		mg/Kg	1	5/24/2017 9:21:44 PM	31921
Surr: 4-Bromofluorobenzene	114	66.6-132		%Rec	1	5/24/2017 9:21:44 PM	31921

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

Analytical Report

Lab Order 1705C15

Date Reported: 5/31/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: SW2

Project: Poker Lake

Collection Date: 5/17/2017 11:30:00 AM

Lab ID: 1705C15-003

Matrix: SOIL

Received Date: 5/23/2017 9:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	90	30		mg/Kg	20	5/26/2017 7:07:53 PM	32004
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	0.093		mg/Kg	1	5/24/2017 9:45:44 PM	31921
Benzene	ND	0.023		mg/Kg	1	5/24/2017 9:45:44 PM	31921
Toluene	ND	0.047		mg/Kg	1	5/24/2017 9:45:44 PM	31921
Ethylbenzene	ND	0.047		mg/Kg	1	5/24/2017 9:45:44 PM	31921
Xylenes, Total	ND	0.093		mg/Kg	1	5/24/2017 9:45:44 PM	31921
Surr: 4-Bromofluorobenzene	114	66.6-132		%Rec	1	5/24/2017 9:45:44 PM	31921

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

Analytical Report

Lab Order 1705C15

Date Reported: 5/31/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: SW3

Project: Poker Lake

Collection Date: 5/17/2017 12:15:00 PM

Lab ID: 1705C15-004

Matrix: SOIL

Received Date: 5/23/2017 9:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	61	30		mg/Kg	20	5/26/2017 7:20:17 PM	32004
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	0.097		mg/Kg	1	5/24/2017 10:09:50 PM	31921
Benzene	ND	0.024		mg/Kg	1	5/24/2017 10:09:50 PM	31921
Toluene	ND	0.048		mg/Kg	1	5/24/2017 10:09:50 PM	31921
Ethylbenzene	ND	0.048		mg/Kg	1	5/24/2017 10:09:50 PM	31921
Xylenes, Total	ND	0.097		mg/Kg	1	5/24/2017 10:09:50 PM	31921
Surr: 4-Bromofluorobenzene	114	66.6-132		%Rec	1	5/24/2017 10:09:50 PM	31921

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

Analytical Report

Lab Order 1705C15

Date Reported: 5/31/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: SW4

Project: Poker Lake

Collection Date: 5/17/2017 12:10:00 PM

Lab ID: 1705C15-005

Matrix: SOIL

Received Date: 5/23/2017 9:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	30		mg/Kg	20	5/26/2017 7:32:42 PM	32004
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	0.10		mg/Kg	1	5/24/2017 10:33:57 PM	31921
Benzene	ND	0.025		mg/Kg	1	5/24/2017 10:33:57 PM	31921
Toluene	ND	0.050		mg/Kg	1	5/24/2017 10:33:57 PM	31921
Ethylbenzene	ND	0.050		mg/Kg	1	5/24/2017 10:33:57 PM	31921
Xylenes, Total	ND	0.10		mg/Kg	1	5/24/2017 10:33:57 PM	31921
Surr: 4-Bromofluorobenzene	117	66.6-132		%Rec	1	5/24/2017 10:33:57 PM	31921

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

Analytical Report

Lab Order 1705C15

Date Reported: 5/31/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: SW1

Project: Poker Lake

Collection Date: 5/17/2017 12:45:00 PM

Lab ID: 1705C15-006

Matrix: SOIL

Received Date: 5/23/2017 9:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	560	30		mg/Kg	20	5/26/2017 8:09:56 PM	32004
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	0.098		mg/Kg	1	5/24/2017 10:58:04 PM	31921
Benzene	ND	0.025		mg/Kg	1	5/24/2017 10:58:04 PM	31921
Toluene	ND	0.049		mg/Kg	1	5/24/2017 10:58:04 PM	31921
Ethylbenzene	ND	0.049		mg/Kg	1	5/24/2017 10:58:04 PM	31921
Xylenes, Total	ND	0.098		mg/Kg	1	5/24/2017 10:58:04 PM	31921
Surr: 4-Bromofluorobenzene	111	66.6-132		%Rec	1	5/24/2017 10:58:04 PM	31921

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

Analytical Report

Lab Order 1705C15

Date Reported: 5/31/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: L10-2.5

Project: Poker Lake

Collection Date: 5/17/2017 1:05:00 PM

Lab ID: 1705C15-007

Matrix: SOIL

Received Date: 5/23/2017 9:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	75	30		mg/Kg	20	5/26/2017 8:22:21 PM	32004
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	5/25/2017 10:19:56 PM	31932
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	5/25/2017 10:19:56 PM	31932
Surr: DNOP	74.4	70-130		%Rec	1	5/25/2017 10:19:56 PM	31932
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/25/2017 12:33:50 AM	31921
Surr: BFB	101	54-150		%Rec	1	5/25/2017 12:33:50 AM	31921
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	5/25/2017 12:33:50 AM	31921
Toluene	ND	0.048		mg/Kg	1	5/25/2017 12:33:50 AM	31921
Ethylbenzene	ND	0.048		mg/Kg	1	5/25/2017 12:33:50 AM	31921
Xylenes, Total	ND	0.095		mg/Kg	1	5/25/2017 12:33:50 AM	31921
Surr: 4-Bromofluorobenzene	117	66.6-132		%Rec	1	5/25/2017 12:33:50 AM	31921

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

Analytical Report

Lab Order 1705C15

Date Reported: 5/31/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: W4

Project: Poker Lake

Collection Date: 5/17/2017 9:30:00 AM

Lab ID: 1705C15-008

Matrix: AQUEOUS

Received Date: 5/23/2017 9:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE							Analyst: TOM
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	5/25/2017 11:36:27 AM	31918
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	5/25/2017 11:36:27 AM	31918
Surr: DNOP	116	72.4-157		%Rec	1	5/25/2017 11:36:27 AM	31918
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	5/24/2017 10:46:50 PM	G43027
Surr: BFB	91.9	52.3-138		%Rec	1	5/24/2017 10:46:50 PM	G43027
EPA METHOD 8260: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	1.0		µg/L	1	5/25/2017 11:48:00 PM	SL43095
Toluene	2.7	1.0		µg/L	1	5/25/2017 11:48:00 PM	SL43095
Ethylbenzene	ND	1.0		µg/L	1	5/25/2017 11:48:00 PM	SL43095
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	5/25/2017 11:48:00 PM	SL43095
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	5/25/2017 11:48:00 PM	SL43095
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	5/25/2017 11:48:00 PM	SL43095
Xylenes, Total	ND	1.5		µg/L	1	5/25/2017 11:48:00 PM	SL43095
Surr: 1,2-Dichloroethane-d4	101	70-130		%Rec	1	5/25/2017 11:48:00 PM	SL43095
Surr: 4-Bromofluorobenzene	107	70-130		%Rec	1	5/25/2017 11:48:00 PM	SL43095
Surr: Dibromofluoromethane	106	70-130		%Rec	1	5/25/2017 11:48:00 PM	SL43095
Surr: Toluene-d8	102	70-130		%Rec	1	5/25/2017 11:48:00 PM	SL43095

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#: 1705C15

31-May-17

Client: Souder, Miller & Associates

Project: Poker Lake

Sample ID	MB-32004	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	32004	RunNo:	43101					
Prep Date:	5/26/2017	Analysis Date:	5/26/2017	SeqNo:	1356954	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-32004	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	32004	RunNo:	43101					
Prep Date:	5/26/2017	Analysis Date:	5/26/2017	SeqNo:	1356955	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.8	90	110			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1705C15

31-May-17

Client: Souder, Miller & Associates

Project: Poker Lake

Sample ID	LCS-31956	SampType:	LCS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	31956	RunNo:	43052					
Prep Date:	5/25/2017	Analysis Date:	5/25/2017	SeqNo:	1354925	Units:	%Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.3		5.000		85.7	70	130			

Sample ID	MB-31956	SampType:	MBLK	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	31956	RunNo:	43052					
Prep Date:	5/25/2017	Analysis Date:	5/25/2017	SeqNo:	1354926	Units:	%Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.1		10.00		81.3	70	130			

Sample ID	LCS-31932	SampType:	LCS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	31932	RunNo:	43051					
Prep Date:	5/24/2017	Analysis Date:	5/25/2017	SeqNo:	1355829	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	41	10	50.00	0	82.8	73.2	114			
Surr: DNOP	4.5		5.000		89.3	70	130			

Sample ID	MB-31932	SampType:	MBLK	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	31932	RunNo:	43051					
Prep Date:	5/24/2017	Analysis Date:	5/25/2017	SeqNo:	1355830	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.4		10.00		94.4	70	130			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1705C15

31-May-17

Client: Souder, Miller & Associates

Project: Poker Lake

Sample ID LCS-31918	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range							
Client ID: LCSW	Batch ID: 31918		RunNo: 43021							
Prep Date: 5/23/2017	Analysis Date: 5/24/2017		SeqNo: 1354586				Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	5.4	1.0	5.000	0	109	82.8	146			
Surr: DNOP	0.51		0.5000		103	72.4	157			

Sample ID MB-31918	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range							
Client ID: PBW	Batch ID: 31918		RunNo: 43021							
Prep Date: 5/23/2017	Analysis Date: 5/24/2017		SeqNo: 1354587				Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	1.0								
Motor Oil Range Organics (MRO)	ND	5.0								
Surr: DNOP	0.98		1.000		98.2	72.4	157			

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#: 1705C15

31-May-17

Client: Souder, Miller & Associates

Project: Poker Lake

Sample ID MB-31921	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 31921		RunNo: 43026							
Prep Date: 5/23/2017	Analysis Date: 5/24/2017		SeqNo: 1354470		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	980		1000		97.8	54	150			

Sample ID LCS-31921	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 31921		RunNo: 43026							
Prep Date: 5/23/2017	Analysis Date: 5/24/2017		SeqNo: 1354471		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	93.8	76.4	125			
Surr: BFB	1100		1000		106	54	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#: 1705C15

31-May-17

Client: Souder, Miller & Associates

Project: Poker Lake

Sample ID RB	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBW	Batch ID: G43027		RunNo: 43027							
Prep Date:	Analysis Date: 5/24/2017		SeqNo: 1354521		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	20		20.00		99.8	52.3	138			

Sample ID 2.5UG GRO LCS	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSW	Batch ID: G43027		RunNo: 43027							
Prep Date:	Analysis Date: 5/24/2017		SeqNo: 1354522		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.54	0.050	0.5000	0	107	79.1	123			
Surr: BFB	23		20.00		114	52.3	138			

Sample ID 1705C15-008AMS	SampType: MS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: W4	Batch ID: G43027		RunNo: 43027							
Prep Date:	Analysis Date: 5/24/2017		SeqNo: 1354524		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.46	0.050	0.5000	0	92.8	64.8	129			
Surr: BFB	20		20.00		102	52.3	138			

Sample ID 1705C15-008AMSD	SampType: MSD		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: W4	Batch ID: G43027		RunNo: 43027							
Prep Date:	Analysis Date: 5/24/2017		SeqNo: 1354525		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.45	0.050	0.5000	0	90.7	64.8	129	2.22	20	
Surr: BFB	20		20.00		101	52.3	138	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#: 1705C15

31-May-17

Client: Souder, Miller & Associates

Project: Poker Lake

Sample ID MB-31921	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 31921		RunNo: 43026							
Prep Date: 5/23/2017	Analysis Date: 5/24/2017		SeqNo: 1354496		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	0.10								
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.2		1.000		117	66.6	132			

Sample ID LCS-31921	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 31921		RunNo: 43026							
Prep Date: 5/23/2017	Analysis Date: 5/24/2017		SeqNo: 1354497		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	0.98	0.10	1.000	0	98.1	66.5	120			
Benzene	1.0	0.025	1.000	0	100	80	120			
Toluene	1.0	0.050	1.000	0	103	80	120			
Ethylbenzene	1.0	0.050	1.000	0	104	80	120			
Xylenes, Total	3.2	0.10	3.000	0	106	80	120			
Surr: 4-Bromofluorobenzene	1.3		1.000		127	66.6	132			

Sample ID 1705C15-001AMS	SampType: MS		TestCode: EPA Method 8021B: Volatiles							
Client ID: L7-5	Batch ID: 31921		RunNo: 43026							
Prep Date: 5/23/2017	Analysis Date: 5/24/2017		SeqNo: 1354500		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	0.92	0.093	0.9320	0	99.1	42.5	143			
Benzene	0.98	0.023	0.9320	0	106	61.5	138			
Toluene	1.0	0.047	0.9320	0	109	71.4	127			
Ethylbenzene	1.1	0.047	0.9320	0	113	70.9	132			
Xylenes, Total	3.2	0.093	2.796	0	115	76.2	123			
Surr: 4-Bromofluorobenzene	1.1		0.9320		122	66.6	132			

Sample ID 1705C15-001AMSD	SampType: MSD		TestCode: EPA Method 8021B: Volatiles							
Client ID: L7-5	Batch ID: 31921		RunNo: 43026							
Prep Date: 5/23/2017	Analysis Date: 5/24/2017		SeqNo: 1354501		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	0.99	0.094	0.9416	0	105	42.5	143	7.06	20	
Benzene	1.0	0.024	0.9416	0	108	61.5	138	3.69	20	
Toluene	1.1	0.047	0.9416	0	114	71.4	127	5.03	20	
Ethylbenzene	1.1	0.047	0.9416	0	117	70.9	132	4.50	20	

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1705C15

31-May-17

Client: Souder, Miller & Associates

Project: Poker Lake

Sample ID	1705C15-001AMSD	SampType:	MSD	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	L7-5	Batch ID:	31921	RunNo:	43026					
Prep Date:	5/23/2017	Analysis Date:	5/24/2017	SeqNo:	1354501	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Xylenes, Total	3.3	0.094	2.825	0	118	76.2	123	3.81	20	
Surr: 4-Bromofluorobenzene	1.1		0.9416		119	66.6	132	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#: 1705C15

31-May-17

Client: Souder, Miller & Associates

Project: Poker Lake

Sample ID	100ng lcs		SampType:	LCS		TestCode:	EPA Method 8260: Volatiles Short List				
Client ID:	LCSW		Batch ID:	SL43095		RunNo:	43095				
Prep Date:			Analysis Date:	5/25/2017		SeqNo:	1356263	Units:	µg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	19	1.0	20.00	0	95.8	70	130				
Toluene	20	1.0	20.00	0	98.7	70	130				
Ethylbenzene	20	1.0	20.00	0	99.7	70	130				
Methyl tert-butyl ether (MTBE)	33	1.0	40.00	0	82.2	70	130				
1,2,4-Trimethylbenzene	20	1.0	20.00	0	99.4	70	130				
1,3,5-Trimethylbenzene	20	1.0	20.00	0	99.0	70	130				
Xylenes, Total	59	1.5	60.00	0	98.7	70	130				
Surr: 1,2-Dichloroethane-d4	9.5		10.00		94.9	70	130				
Surr: 4-Bromofluorobenzene	11		10.00		106	70	130				
Surr: Dibromofluoromethane	10		10.00		104	70	130				
Surr: Toluene-d8	11		10.00		106	70	130				

Sample ID	rb		SampType:	MBLK		TestCode:	EPA Method 8260: Volatiles Short List				
Client ID:	PBW		Batch ID:	SL43095		RunNo:	43095				
Prep Date:			Analysis Date:	5/25/2017		SeqNo:	1356266	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									
Xylenes, Total	ND	1.5									
Surr: 1,2-Dichloroethane-d4	10		10.00		101	70	130				
Surr: 4-Bromofluorobenzene	11		10.00		106	70	130				
Surr: Dibromofluoromethane	11		10.00		108	70	130				
Surr: Toluene-d8	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



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

Sample Log-In Check List

Client Name: SMA-CARLSBAD Work Order Number: 1705C15 RcptNo: 1

Received By: Richie Eriacho 5/23/2017 9:50:00 AM

Completed By: Andy Jansson 5/23/2017 12:47:55 PM

Reviewed By: SRE 05/23/17

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: _____
 (<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:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:			
Client Instructions:			

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.1	Good	Yes			

Chain-of-Custody Record

Client: SMA Turn-Around Time: Standard Rush
 Project Name: Poker Lake
 Project #: _____

Project Manager: Austin Weyant
 Sampler: Hub
 On Ice: Yes No
 Sample Temperature: 1.1°C

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.
5/17/17	11:00	Soil	L7-5	402		1705C15
	16:15	}	L8-6	}		-001
	11:30		SW2			-002
	12:15		SW3			-003
	12:10		SW4			-004
	12:45		SW1			-005
	1:05		L10-2.5			-006
	9:30	Water	W4	Various		-007
						-008

Date: 5/24/17 0830 Relinquished by: [Signature] Date Time: 5/24/17 0830
 Date: 5/24/17 1900 Relinquished by: [Signature] Date Time: 5/25/17 0950



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 (Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Air Bubbles (Y or N)
X	X	X					X				
X	X	X					X				
X	X						X				
X	X						X				
X	X						X				
X	X						X				

Remarks:

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



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

May 23, 2017

Austin Weyant
Souder, Miller & Associates
201 S Halagueno
Carlsbad, NM 88221
TEL: (575) 689-7040
FAX

RE: Poker Lake 12"

OrderNo.: 1705852

Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 8 sample(s) on 5/16/2017 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

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

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order **1705852**

Date Reported: **5/23/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: L5-6

Project: Poker Lake 12"

Collection Date: 5/10/2017 9:00:00 AM

Lab ID: 1705852-001

Matrix: SOIL

Received Date: 5/16/2017 9:35:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	3800	150		mg/Kg	100	5/22/2017 10:32:11 PM	31842
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	3700	98		mg/Kg	10	5/19/2017 8:24:26 AM	31800
Motor Oil Range Organics (MRO)	3200	490		mg/Kg	10	5/19/2017 8:24:26 AM	31800
Surr: DNOP	0	70-130	S	%Rec	10	5/19/2017 8:24:26 AM	31800
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	3100	96		mg/Kg	20	5/18/2017 10:11:46 AM	31781
Surr: BFB	770	54-150	S	%Rec	20	5/18/2017 10:11:46 AM	31781
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	1.9		mg/Kg	20	5/18/2017 10:11:46 AM	31781
Benzene	0.56	0.48		mg/Kg	20	5/18/2017 10:11:46 AM	31781
Toluene	2.1	0.96		mg/Kg	20	5/18/2017 10:11:46 AM	31781
Ethylbenzene	ND	0.96		mg/Kg	20	5/18/2017 10:11:46 AM	31781
Xylenes, Total	31	1.9		mg/Kg	20	5/18/2017 10:11:46 AM	31781
Surr: 4-Bromofluorobenzene	149	66.6-132	S	%Rec	20	5/18/2017 10:11:46 AM	31781

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

Analytical Report

Lab Order **1705852**

Date Reported: 5/23/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: L6-1.5

Project: Poker Lake 12"

Collection Date: 5/10/2017 9:15:00 AM

Lab ID: 1705852-002

Matrix: SOIL

Received Date: 5/16/2017 9:35:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	2800	150		mg/Kg	100	5/22/2017 10:44:36 PM	31842
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	53	9.7		mg/Kg	1	5/18/2017 5:19:02 PM	31800
Motor Oil Range Organics (MRO)	60	49		mg/Kg	1	5/18/2017 5:19:02 PM	31800
Surr: DNOP	108	70-130		%Rec	1	5/18/2017 5:19:02 PM	31800
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	5/18/2017 5:40:01 PM	31781
Surr: BFB	110	54-150		%Rec	1	5/18/2017 5:40:01 PM	31781

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

Analytical Report

Lab Order **1705852**

Date Reported: 5/23/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: L7-0.5

Project: Poker Lake 12"

Collection Date: 5/10/2017 9:30:00 AM

Lab ID: 1705852-003

Matrix: SOIL

Received Date: 5/16/2017 9:35:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	1100	75		mg/Kg	50	5/22/2017 10:57:01 PM	31842
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	13000	950		mg/Kg	100	5/18/2017 7:31:23 PM	31800
Motor Oil Range Organics (MRO)	7700	4800		mg/Kg	100	5/18/2017 7:31:23 PM	31800
Surr: DNOP	0	70-130	S	%Rec	100	5/18/2017 7:31:23 PM	31800
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	530	96		mg/Kg	20	5/19/2017 9:51:56 PM	31781
Surr: BFB	282	54-150	S	%Rec	20	5/19/2017 9:51:56 PM	31781

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

Analytical Report

Lab Order **1705852**

Date Reported: **5/23/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: L8-2

Project: Poker Lake 12"

Collection Date: 5/10/2017 10:00:00 AM

Lab ID: 1705852-004

Matrix: SOIL

Received Date: 5/16/2017 9:35:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	78	30		mg/Kg	20	5/19/2017 1:51:40 PM	31842
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	10000	960		mg/Kg	100	5/18/2017 3:06:20 PM	31800
Motor Oil Range Organics (MRO)	5000	4800		mg/Kg	100	5/18/2017 3:06:20 PM	31800
Surr: DNOP	0	70-130	S	%Rec	100	5/18/2017 3:06:20 PM	31800
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	4300	96		mg/Kg	20	5/18/2017 10:58:58 AM	31781
Surr: BFB	673	54-150	S	%Rec	20	5/18/2017 10:58:58 AM	31781
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	1.9		mg/Kg	20	5/18/2017 10:58:58 AM	31781
Benzene	9.1	0.48		mg/Kg	20	5/18/2017 10:58:58 AM	31781
Toluene	73	0.96		mg/Kg	20	5/18/2017 10:58:58 AM	31781
Ethylbenzene	28	0.96		mg/Kg	20	5/18/2017 10:58:58 AM	31781
Xylenes, Total	140	1.9		mg/Kg	20	5/18/2017 10:58:58 AM	31781
Surr: 4-Bromofluorobenzene	162	66.6-132	S	%Rec	20	5/18/2017 10:58:58 AM	31781

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

Analytical Report

Lab Order **1705852**

Date Reported: 5/23/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: L9-0.5

Project: Poker Lake 12"

Collection Date: 5/10/2017 10:30:00 AM

Lab ID: 1705852-005

Matrix: SOIL

Received Date: 5/16/2017 9:35:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	50	30		mg/Kg	20	5/19/2017 2:04:05 PM	31842
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	68	10		mg/Kg	1	5/18/2017 6:03:21 PM	31800
Motor Oil Range Organics (MRO)	98	50		mg/Kg	1	5/18/2017 6:03:21 PM	31800
Surr: DNOP	95.6	70-130		%Rec	1	5/18/2017 6:03:21 PM	31800
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/18/2017 6:27:08 PM	31781
Surr: BFB	116	54-150		%Rec	1	5/18/2017 6:27:08 PM	31781

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

Analytical Report

Lab Order **1705852**

Date Reported: 5/23/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: SW7

Project: Poker Lake 12"

Collection Date: 5/10/2017 8:30:00 AM

Lab ID: 1705852-006

Matrix: SOIL

Received Date: 5/16/2017 9:35:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	5500	300		mg/Kg	200	5/22/2017 11:09:25 PM	31842

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

Analytical Report

Lab Order **1705852**

Date Reported: 5/23/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: SW5

Project: Poker Lake 12"

Collection Date: 5/10/2017 8:37:00 AM

Lab ID: 1705852-007

Matrix: SOIL

Received Date: 5/16/2017 9:35:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	4900	300		mg/Kg	200	5/22/2017 11:21:50 PM	31842

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

Analytical Report

Lab Order **1705852**

Date Reported: 5/23/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: SW6

Project: Poker Lake 12"

Collection Date: 5/10/2017 8:42:00 AM

Lab ID: 1705852-008

Matrix: SOIL

Received Date: 5/16/2017 9:35:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	2500	150		mg/Kg	100	5/22/2017 11:34:14 PM	31842

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#: 1705852

23-May-17

Client: Souder, Miller & Associates

Project: Poker Lake 12"

Sample ID	MB-31842	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	31842	RunNo:	42953					
Prep Date:	5/19/2017	Analysis Date:	5/19/2017	SeqNo:	1351558	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-31842	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	31842	RunNo:	42953					
Prep Date:	5/19/2017	Analysis Date:	5/19/2017	SeqNo:	1351559	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.3	90	110			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1705852

23-May-17

Client: Souder, Miller & Associates

Project: Poker Lake 12"

Sample ID MB-31800	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 31800		RunNo: 42868							
Prep Date: 5/17/2017	Analysis Date: 5/18/2017		SeqNo: 1349094		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.9		10.00		88.6	70	130			

Sample ID LCS-31800	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 31800		RunNo: 42868							
Prep Date: 5/17/2017	Analysis Date: 5/18/2017		SeqNo: 1349095		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	92.0	73.2	114			
Surr: DNOP	4.0		5.000		80.6	70	130			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1705852

23-May-17

Client: Souder, Miller & Associates

Project: Poker Lake 12"

Sample ID MB-31781	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 31781		RunNo: 42889							
Prep Date: 5/17/2017	Analysis Date: 5/18/2017		SeqNo: 1349815		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	950		1000		94.7	54	150			

Sample ID LCS-31781	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 31781		RunNo: 42889							
Prep Date: 5/17/2017	Analysis Date: 5/18/2017		SeqNo: 1349816		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	97.3	76.4	125			
Surr: BFB	1100		1000		106	54	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#: 1705852

23-May-17

Client: Souder, Miller & Associates

Project: Poker Lake 12"

Sample ID MB-31781	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 31781		RunNo: 42889							
Prep Date: 5/17/2017	Analysis Date: 5/18/2017		SeqNo: 1349834		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	0.10								
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		109	66.6	132			

Sample ID LCS-31781	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 31781		RunNo: 42889							
Prep Date: 5/17/2017	Analysis Date: 5/18/2017		SeqNo: 1349835		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	0.93	0.10	1.000	0	93.5	66.5	120			
Benzene	0.97	0.025	1.000	0	97.2	80	120			
Toluene	1.0	0.050	1.000	0	99.5	80	120			
Ethylbenzene	1.0	0.050	1.000	0	100	80	120			
Xylenes, Total	3.1	0.10	3.000	0	102	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		111	66.6	132			

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



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

Sample Log-In Check List

Client Name: SMA-CARLSBAD Work Order Number: 1705852 RcptNo: 1

Received By: Erin Melendrez 5/16/2017 9:35:00 AM *EM*
 Completed By: Ashley Gallegos 5/16/2017 6:13:34 PM *AG*
 Reviewed By: *SKC 05/17/17*

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 # of preserved bottles checked for pH:
- 12. Does paperwork match bottle labels? Yes No Adjusted? (<2 or >12 unless noted)
- (Note discrepancies on chain of custody)
- 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? Yes No Checked by:
- (If no, notify customer for authorization.)

Special Handling (if applicable)

- 16. Was client notified of all discrepancies with this order? Yes No NA

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

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.1	Good	Yes			

Chain-of-Custody Record

Client: SMA
 Turn-Around Time: Standard Rush
 Project Name: Poker Lake 12"
 Project #: _____

Phone #: _____
 email or Fax#: _____
 QA/QC Package: Standard Level 4 (Full Validation)
 Accreditation: NELAP Other _____
 Project Manager: Austin Weyant
 Sampler: _____
 On Ice: Yes No
 Sample Temperature: 3.0°C

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.
5/10/17	9:00	SW1	L5-6	402 jar		1705852
}	9:15	}	L6-1.5	}	}	-001
	9:30		L7-0.5			-002
	9:45		L8-2			-003
}	10:30	}	L9-0.5	}	}	-004
	8:30		SW7			-005
}	8:37	}	SW5	}	}	-006
	8:42		SW6			-007
5/10/17	11:00					-008

Relinquished by: [Signature] Date: 5/15/17 Time: 09:00
 Relinquished by: [Signature] Date: 5/15/17 Time: 09:35

Analysis Request																							
BTEX + MTBE + TMB's (8021)	X	BTEX + MTBE + TPH (Gas only)	X	TPH (Method 418.1)	X	TPH 8015B (GRO / DRO / MRO)	X	EDB (Method 504.1)		PAH's (8310 or 8270 SIMS)		RCRA 8 Metals		Anions (F ⁻ , Cl ⁻ , NO ₂ ⁻ , PO ₄ ⁻ , SO ₄ ⁻)	X	8081 Pesticides / 8082 PCBs		8260B (VOA)		8270 (Semi-VOA)		Air Bubbles (Y or N)	

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

December 05, 2016

Austin Weyant
Souder, Miller & Associates
201 S Halagueno
Carlsbad, NM 88221
TEL: (575) 689-7040
FAX

RE: Poker Lake

OrderNo.: 1611B03

Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 7 sample(s) on 11/19/2016 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

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

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order **1611B03**

Date Reported: **12/5/2016**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: W1

Project: Poker Lake

Collection Date: 11/16/2016 9:30:00 AM

Lab ID: 1611B03-001

Matrix: AQUEOUS

Received Date: 11/19/2016 8:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE							Analyst: TOM
Diesel Range Organics (DRO)	1.8	1.0		mg/L	1	11/28/2016 4:06:15 PM	28817
Surr: DNOP	119	77.1-144		%Rec	1	11/28/2016 4:06:15 PM	28817
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	11/29/2016 9:53:35 AM	G39018
Surr: BFB	93.9	66.4-120		%Rec	1	11/29/2016 9:53:35 AM	G39018
EPA METHOD 8260: VOLATILES SHORT LIST							Analyst: DJF
Benzene	ND	1.0		µg/L	1	11/28/2016 11:10:58 AM	W38995
Toluene	ND	1.0		µg/L	1	11/28/2016 11:10:58 AM	W38995
Ethylbenzene	ND	1.0		µg/L	1	11/28/2016 11:10:58 AM	W38995
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	11/28/2016 11:10:58 AM	W38995
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	11/28/2016 11:10:58 AM	W38995
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	11/28/2016 11:10:58 AM	W38995
Xylenes, Total	ND	1.5		µg/L	1	11/28/2016 11:10:58 AM	W38995
Surr: 1,2-Dichloroethane-d4	95.2	70-130		%Rec	1	11/28/2016 11:10:58 AM	W38995
Surr: 4-Bromofluorobenzene	97.3	70-130		%Rec	1	11/28/2016 11:10:58 AM	W38995
Surr: Dibromofluoromethane	97.1	70-130		%Rec	1	11/28/2016 11:10:58 AM	W38995
Surr: Toluene-d8	101	70-130		%Rec	1	11/28/2016 11:10:58 AM	W38995

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

Analytical Report

Lab Order **1611B03**

Date Reported: **12/5/2016**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: W2

Project: Poker Lake

Collection Date: 11/16/2016 9:50:00 AM

Lab ID: 1611B03-002

Matrix: AQUEOUS

Received Date: 11/19/2016 8:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE							Analyst: TOM
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	11/28/2016 4:33:17 PM	28817
Surr: DNOP	121	77.1-144		%Rec	1	11/28/2016 4:33:17 PM	28817
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	0.18	0.050		mg/L	1	11/29/2016 10:18:01 AM	G39018
Surr: BFB	99.1	66.4-120		%Rec	1	11/29/2016 10:18:01 AM	G39018
EPA METHOD 8260: VOLATILES SHORT LIST							Analyst: DJF
Benzene	6.3	2.0		µg/L	2	11/28/2016 12:08:00 PM	W38995
Toluene	25	2.0		µg/L	2	11/28/2016 12:08:00 PM	W38995
Ethylbenzene	4.5	2.0		µg/L	2	11/28/2016 12:08:00 PM	W38995
Methyl tert-butyl ether (MTBE)	ND	2.0		µg/L	2	11/28/2016 12:08:00 PM	W38995
1,2,4-Trimethylbenzene	6.5	2.0		µg/L	2	11/28/2016 12:08:00 PM	W38995
1,3,5-Trimethylbenzene	ND	2.0		µg/L	2	11/28/2016 12:08:00 PM	W38995
Xylenes, Total	22	3.0		µg/L	2	11/28/2016 12:08:00 PM	W38995
Surr: 1,2-Dichloroethane-d4	98.3	70-130		%Rec	2	11/28/2016 12:08:00 PM	W38995
Surr: 4-Bromofluorobenzene	98.7	70-130		%Rec	2	11/28/2016 12:08:00 PM	W38995
Surr: Dibromofluoromethane	99.6	70-130		%Rec	2	11/28/2016 12:08:00 PM	W38995
Surr: Toluene-d8	101	70-130		%Rec	2	11/28/2016 12:08:00 PM	W38995

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

Analytical Report

Lab Order **1611B03**

Date Reported: **12/5/2016**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: W3

Project: Poker Lake

Collection Date: 11/16/2016 11:20:00 AM

Lab ID: 1611B03-003

Matrix: AQUEOUS

Received Date: 11/19/2016 8:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE							Analyst: TOM
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	11/28/2016 5:00:34 PM	28817
Surr: DNOP	120	77.1-144		%Rec	1	11/28/2016 5:00:34 PM	28817
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	11/29/2016 11:06:49 AM	G39018
Surr: BFB	92.5	66.4-120		%Rec	1	11/29/2016 11:06:49 AM	G39018
EPA METHOD 8260: VOLATILES SHORT LIST							Analyst: DJF
Benzene	ND	1.0		µg/L	1	11/28/2016 11:39:27 AM	W38995
Toluene	ND	1.0		µg/L	1	11/28/2016 11:39:27 AM	W38995
Ethylbenzene	ND	1.0		µg/L	1	11/28/2016 11:39:27 AM	W38995
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	11/28/2016 11:39:27 AM	W38995
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	11/28/2016 11:39:27 AM	W38995
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	11/28/2016 11:39:27 AM	W38995
Xylenes, Total	ND	1.5		µg/L	1	11/28/2016 11:39:27 AM	W38995
Surr: 1,2-Dichloroethane-d4	93.5	70-130		%Rec	1	11/28/2016 11:39:27 AM	W38995
Surr: 4-Bromofluorobenzene	98.5	70-130		%Rec	1	11/28/2016 11:39:27 AM	W38995
Surr: Dibromofluoromethane	95.6	70-130		%Rec	1	11/28/2016 11:39:27 AM	W38995
Surr: Toluene-d8	99.5	70-130		%Rec	1	11/28/2016 11:39:27 AM	W38995

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

Analytical Report

Lab Order **1611B03**

Date Reported: **12/5/2016**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: 1

Project: Poker Lake

Collection Date: 11/16/2016 10:00:00 AM

Lab ID: 1611B03-004

Matrix: SOIL

Received Date: 11/19/2016 8:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	290	30		mg/Kg	20	11/29/2016 2:58:54 PM	28901
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	1600	95		mg/Kg	10	11/23/2016 12:56:19 PM	28807
Surr: DNOP	0	70-130	S	%Rec	10	11/23/2016 12:56:19 PM	28807
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	46	19		mg/Kg	4	11/23/2016 1:43:42 PM	28828
Surr: BFB	142	68.3-144		%Rec	4	11/23/2016 1:43:42 PM	28828

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

Analytical Report

Lab Order **1611B03**

Date Reported: **12/5/2016**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: 2

Project: Poker Lake

Collection Date: 11/16/2016 10:10:00 AM

Lab ID: 1611B03-005

Matrix: SOIL

Received Date: 11/19/2016 8:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	320	30		mg/Kg	20	11/29/2016 3:36:08 PM	28901
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	5600	97		mg/Kg	10	11/23/2016 1:18:06 PM	28807
Surr: DNOP	0	70-130	S	%Rec	10	11/23/2016 1:18:06 PM	28807
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	310	50		mg/Kg	10	11/23/2016 2:07:13 PM	28828
Surr: BFB	235	68.3-144	S	%Rec	10	11/23/2016 2:07:13 PM	28828

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

Analytical Report

Lab Order **1611B03**

Date Reported: **12/5/2016**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: 3

Project: Poker Lake

Collection Date: 11/16/2016 10:20:00 AM

Lab ID: 1611B03-006

Matrix: SOIL

Received Date: 11/19/2016 8:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	1400	75		mg/Kg	50	11/30/2016 9:37:58 PM	28901
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	3800	95		mg/Kg	10	11/23/2016 2:01:17 PM	28807
Surr: DNOP	0	70-130	S	%Rec	10	11/23/2016 2:01:17 PM	28807
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	230	23		mg/Kg	5	11/23/2016 2:30:40 PM	28828
Surr: BFB	302	68.3-144	S	%Rec	5	11/23/2016 2:30:40 PM	28828

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

Analytical Report

Lab Order **1611B03**

Date Reported: **12/5/2016**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: 4

Project: Poker Lake

Collection Date: 11/16/2016 10:30:00 AM

Lab ID: 1611B03-007

Matrix: SOIL

Received Date: 11/19/2016 8:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	1100	30		mg/Kg	20	11/29/2016 4:00:58 PM	28901
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	1900	93		mg/Kg	10	11/23/2016 2:44:54 PM	28807
Surr: DNOP	0	70-130	S	%Rec	10	11/23/2016 2:44:54 PM	28807
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	50	5.0		mg/Kg	1	11/22/2016 7:12:18 PM	28828
Surr: BFB	302	68.3-144	S	%Rec	1	11/22/2016 7:12:18 PM	28828

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#: 1611B03

05-Dec-16

Client: Souder, Miller & Associates

Project: Poker Lake

Sample ID	MB-28901	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	28901	RunNo:	39040					
Prep Date:	11/29/2016	Analysis Date:	11/29/2016	SeqNo:	1221142	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-28901	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	28901	RunNo:	39040					
Prep Date:	11/29/2016	Analysis Date:	11/29/2016	SeqNo:	1221143	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.4	90	110			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1611B03

05-Dec-16

Client: Souder, Miller & Associates

Project: Poker Lake

Sample ID	LCS-28807	SampType:	LCS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	28807	RunNo:	38942					
Prep Date:	11/22/2016	Analysis Date:	11/23/2016	SeqNo:	1217667	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	10	50.00	0	87.8	62.6	124			
Surr: DNOP	4.4		5.000		88.8	70	130			

Sample ID	MB-28807	SampType:	MBLK	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	28807	RunNo:	38942					
Prep Date:	11/22/2016	Analysis Date:	11/23/2016	SeqNo:	1217668	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	9.6		10.00		96.4	70	130			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1611B03

05-Dec-16

Client: Souder, Miller & Associates

Project: Poker Lake

Sample ID	LCS-28817	SampType:	LCS	TestCode:	EPA Method 8015M/D: Diesel Range					
Client ID:	LCSW	Batch ID:	28817	RunNo:	38976					
Prep Date:	11/22/2016	Analysis Date:	11/28/2016	SeqNo:	1218930	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	6.4	1.0	5.000	0	127	63.2	155			
Surr: DNOP	0.55		0.5000		111	77.1	144			

Sample ID	MB-28817	SampType:	MBLK	TestCode:	EPA Method 8015M/D: Diesel Range					
Client ID:	PBW	Batch ID:	28817	RunNo:	38976					
Prep Date:	11/22/2016	Analysis Date:	11/28/2016	SeqNo:	1218931	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	1.0								
Surr: DNOP	1.1		1.000		114	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#: 1611B03

05-Dec-16

Client: Souder, Miller & Associates

Project: Poker Lake

Sample ID MB-28828	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 28828		RunNo: 38913							
Prep Date: 11/21/2016	Analysis Date: 11/22/2016		SeqNo: 1216601		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	860		1000		85.9	68.3	144			

Sample ID LCS-28828	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 28828		RunNo: 38913							
Prep Date: 11/21/2016	Analysis Date: 11/22/2016		SeqNo: 1216602		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	103	74.6	123			
Surr: BFB	910		1000		91.4	68.3	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#: 1611B03

05-Dec-16

Client: Souder, Miller & Associates

Project: Poker Lake

Sample ID RB	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBW	Batch ID: G39018		RunNo: 39018							
Prep Date:	Analysis Date: 11/29/2016		SeqNo: 1220836		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050								
Surr: BFB	18		20.00		91.8	66.4	120			

Sample ID 2.5UG GRO LCS	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSW	Batch ID: G39018		RunNo: 39018							
Prep Date:	Analysis Date: 11/29/2016		SeqNo: 1220837		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.42	0.050	0.5000	0	84.5	80	120			
Surr: BFB	22		20.00		109	66.4	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#: 1611B03

05-Dec-16

Client: Souder, Miller & Associates

Project: Poker Lake

Sample ID rb	SampType: MBLK		TestCode: EPA Method 8260: Volatiles Short List							
Client ID: PBW	Batch ID: W38995		RunNo: 38995							
Prep Date:	Analysis Date: 11/28/2016		SeqNo: 1219467		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								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	9.2		10.00		91.6	70	130			
Surr: 4-Bromofluorobenzene	9.4		10.00		94.0	70	130			
Surr: Dibromofluoromethane	9.4		10.00		94.1	70	130			
Surr: Toluene-d8	9.6		10.00		95.7	70	130			

Sample ID 100ng lcs	SampType: LCS		TestCode: EPA Method 8260: Volatiles Short List							
Client ID: LCSW	Batch ID: W38995		RunNo: 38995							
Prep Date:	Analysis Date: 11/28/2016		SeqNo: 1219468		Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	92.6	70	130			
Toluene	20	1.0	20.00	0	99.1	70	130			
Surr: 1,2-Dichloroethane-d4	8.7		10.00		87.0	70	130			
Surr: 4-Bromofluorobenzene	9.3		10.00		93.2	70	130			
Surr: Dibromofluoromethane	9.4		10.00		93.6	70	130			
Surr: Toluene-d8	9.4		10.00		94.1	70	130			

Qualifiers:

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



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

Sample Log-In Check List

Client Name: SMA-CARLSBAD

Work Order Number: 1611B03

RcptNo: 1

Received by/date: LM 11/19/16

Logged By: **Anne Thorne** 11/19/2016 8:15:00 AM *Anne Thorne*

Completed By: **Anne Thorne** 11/21/2016 10:39:23 AM *Anne Thorne*

Reviewed By: *aj* 11/21/16

Chain of Custody

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

Log In

- 4. Was an attempt made to cool the samples? Yes No NA
- 5. Were all samples received at a temperature of >0° 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? Yes No
(Note discrepancies on chain of custody)
- 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? Yes No
(If no, notify customer for authorization.)

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 °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.8	Good	Yes			

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Client: SMA - Carl's Bay
 Project Name: Potter Lake
 Project #:

Project Manager: Anohn Weynt
 Sampler: MRS
 On Ice: Yes No
 Sample Temperature: 13

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Air Bubbles (Y or N)
16-16	130	water	W1	3 Vol		1121303	X	+									
	150	water	W2	↓		202	X	+									
	1000	water	W3	↓		203	X	+									
	1010	Soil	1	4oz		204		+					X				
	1070	↓	2	↓		205		+					X				
	1030	↓	3	↓		206		+					X				
			4	↓		207		+					X				

Received by: [Signature] Date: 11/19/16 Time: 0815
 Relinquished by:
 Relinquished by:

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 08, 2017

Austin Weyant
Souder, Miller & Associates
201 S Halagueno
Carlsbad, NM 88221
TEL: (575) 689-7040
FAX

RE: Poker Lake

OrderNo.: 1708674

Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 5 sample(s) on 8/9/2017 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued August 28, 2017.

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written in a cursive style.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order **1708674**

Date Reported: **9/8/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: L2-0.5

Project: Poker Lake

Collection Date: 8/7/2017 10:47:00 AM

Lab ID: 1708674-002

Matrix: SOIL

Received Date: 8/9/2017 8:53:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	30		mg/Kg	20	8/18/2017 12:08:10 AM	33438
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	8/14/2017 6:24:09 PM	33337
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	8/14/2017 6:24:09 PM	33337
Surr: DNOP	91.5	70-130		%Rec	1	8/14/2017 6:24:09 PM	33337
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/15/2017 6:31:04 PM	33329
Surr: BFB	87.0	54-150		%Rec	1	8/15/2017 6:31:04 PM	33329

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	Page 1 of 8
	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	
	PQL Practical Quantitative Limit	RL Reporting Detection Limit	
	S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified	

Analytical Report

Lab Order **1708674**

Date Reported: **9/8/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: L3-0.5

Project: Poker Lake

Collection Date: 8/7/2017 10:50:00 AM

Lab ID: 1708674-003

Matrix: SOIL

Received Date: 8/9/2017 8:53:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	67	30		mg/Kg	20	8/21/2017 5:25:21 PM	33475
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	210	100		mg/Kg	10	8/14/2017 2:17:57 PM	33337
Motor Oil Range Organics (MRO)	620	500		mg/Kg	10	8/14/2017 2:17:57 PM	33337
Surr: DNOP	0	70-130	S	%Rec	10	8/14/2017 2:17:57 PM	33337
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/15/2017 6:54:41 PM	33329
Surr: BFB	88.4	54-150		%Rec	1	8/15/2017 6:54:41 PM	33329
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	0.095		mg/Kg	1	8/15/2017 6:54:41 PM	33329
Benzene	ND	0.024		mg/Kg	1	8/15/2017 6:54:41 PM	33329
Toluene	ND	0.048		mg/Kg	1	8/15/2017 6:54:41 PM	33329
Ethylbenzene	ND	0.048		mg/Kg	1	8/15/2017 6:54:41 PM	33329
Xylenes, Total	ND	0.095		mg/Kg	1	8/15/2017 6:54:41 PM	33329
Surr: 4-Bromofluorobenzene	98.5	66.6-132		%Rec	1	8/15/2017 6:54:41 PM	33329

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
	PQL Practical Quantitative Limit	RL Reporting Detection Limit
	S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

Analytical Report

Lab Order **1708674**

Date Reported: **9/8/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: L5-11

Project: Poker Lake

Collection Date: 8/7/2017 10:03:00 AM

Lab ID: 1708674-004

Matrix: SOIL

Received Date: 8/9/2017 8:53:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	120	30		mg/Kg	20	8/21/2017 6:27:26 PM	33475
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	8/14/2017 2:40:20 PM	33337
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/14/2017 2:40:20 PM	33337
Surr: DNOP	94.4	70-130		%Rec	1	8/14/2017 2:40:20 PM	33337
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/15/2017 7:18:22 PM	33329
Surr: BFB	88.9	54-150		%Rec	1	8/15/2017 7:18:22 PM	33329

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
	PQL Practical Quantitative Limit	RL Reporting Detection Limit
	S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

Analytical Report

Lab Order **1708674**

Date Reported: **9/8/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: L5-18

Project: Poker Lake

Collection Date: 8/7/2017

Lab ID: 1708674-005

Matrix: SOIL

Received Date: 8/9/2017 8:53:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	110	30		mg/Kg	20	8/21/2017 6:39:51 PM	33475

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	Page 4 of 8
	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	
	PQL	Practical Quantitative Limit	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#: 1708674

08-Sep-17

Client: Souder, Miller & Associates

Project: Poker Lake

Sample ID	MB-33438	SampType:	mblk	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	33438	RunNo:	45061					
Prep Date:	8/17/2017	Analysis Date:	8/17/2017	SeqNo:	1426672	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-33438	SampType:	ics	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	33438	RunNo:	45061					
Prep Date:	8/17/2017	Analysis Date:	8/17/2017	SeqNo:	1426673	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.5	90	110			

Sample ID	MB-33475	SampType:	mblk	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	33475	RunNo:	45096					
Prep Date:	8/21/2017	Analysis Date:	8/21/2017	SeqNo:	1428808	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-33475	SampType:	ics	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	33475	RunNo:	45096					
Prep Date:	8/21/2017	Analysis Date:	8/21/2017	SeqNo:	1428809	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.2	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- 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#: 1708674

08-Sep-17

Client: Souder, Miller & Associates

Project: Poker Lake

Sample ID LCS-33337	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 33337		RunNo: 44937							
Prep Date: 8/11/2017	Analysis Date: 8/14/2017		SeqNo: 1421453		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.00	0	90.5	73.2	114			
Surr: DNOP	4.5		5.000		90.8	70	130			

Sample ID MB-33337	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 33337		RunNo: 44937							
Prep Date: 8/11/2017	Analysis Date: 8/14/2017		SeqNo: 1421454		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.8		10.00		87.9	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
- PQL Practical Quantitative Limit
- 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#: 1708674

08-Sep-17

Client: Souder, Miller & Associates

Project: Poker Lake

Sample ID MB-33329	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 33329		RunNo: 44964							
Prep Date: 8/11/2017	Analysis Date: 8/15/2017		SeqNo: 1422905		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	890		1000		88.6	54	150			

Sample ID LCS-33329	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 33329		RunNo: 44964							
Prep Date: 8/11/2017	Analysis Date: 8/15/2017		SeqNo: 1422907		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	96.0	76.4	125			
Surr: BFB	970		1000		97.0	54	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
- PQL Practical Quantitative Limit
- 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#: 1708674

08-Sep-17

Client: Souder, Miller & Associates

Project: Poker Lake

Sample ID MB-33329	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 33329		RunNo: 44964							
Prep Date: 8/11/2017	Analysis Date: 8/15/2017		SeqNo: 1422933				Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	0.10								
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.99		1.000		99.2	66.6	132			

Sample ID LCS-33329	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 33329		RunNo: 44964							
Prep Date: 8/11/2017	Analysis Date: 8/15/2017		SeqNo: 1422935				Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	0.81	0.10	1.000	0	81.1	66.5	120			
Benzene	0.89	0.025	1.000	0	89.1	80	120			
Toluene	0.87	0.050	1.000	0	86.8	80	120			
Ethylbenzene	0.87	0.050	1.000	0	86.9	80	120			
Xylenes, Total	2.7	0.10	3.000	0	88.3	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		103	66.6	132			

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
- PQL Practical Quantitative Limit
- 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



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

Sample Log-In Check List

Client Name: SMA-CARLSBAD Work Order Number: 1708674 RptNo: 1

Received By: Erin Melendrez 8/9/2017 8:53:00 AM
Completed By: Ashley Gallegos 8/10/2017 12:15:43 PM
Reviewed By: IMO 8/11/

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? 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? 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

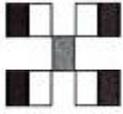
Person Notified: Date:
By Whom: Via: eMail Phone Fax In Person
Regarding:
Client Instructions:

17. Additional remarks:

18. Cooler Information

Table with 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Row 1: 1, 3.7, Good, Yes, , ,

6014 Custody Log v 7/1/19



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Turn-Around Time: Standard Rush
 Project Name: Poker Lake
 Project #:

Project Manager: Austin Weyant
 Sampler: HMP
 On Ice: Yes No
 Sample Temperature: 3.7

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.
8/7/17	10:44	Soil	L1-0.5	402 HMP		1708674
	10:47		L2-0.5			-002
	10:50		L3-0.5			-003
	10:03		L5-11			-004
			L5-18			-005

Client: SMA
 Mailing Address:
 Phone #:
 email or Fax#:
 QA/QC Package: Standard Level 4 (Full Validation)
 Accreditation: NELAP Other
 EDD (Type)

Date	Time	Relinquished by:
8-7-17	2:30	<u>[Signature]</u>
8/8/17	19:00	<u>[Signature]</u>

Analysis Request

BTEX + MTBE + TMBs (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)	Air Bubbles (Y or N)
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Remarks: Per HMP delete L1-0.5 off of RA
A 09/01/17
 Received by: [Signature] Date: 8/8/17 Time: 7:15:00
 Received by: [Signature] Date: 8/9/17 Time: 08:53

District I
 1625 N. French Dr., Hobbs, NM 88240
 Phone:(575) 393-6161 Fax:(575) 393-0720

District II
 811 S. First St., Artesia, NM 88210
 Phone:(575) 748-1283 Fax:(575) 748-9720

District III
 1000 Rio Brazos Rd., Aztec, NM 87410
 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV
 1220 S. St Francis Dr., Santa Fe, NM 87505
 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 206751

CONDITIONS

Operator: ENTERPRISE PRODUCTS OPERATING, LLC P.O. BOX 4324 HOUSTON, TX 77210	OGRID: 374092
	Action Number: 206751
	Action Type: [IM-SD] Incident File Support Doc (ENV) (IM-BNF)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	None	5/4/2023