

**3R-1012**

**Release Report/ General  
Correspondence**

**Enterprise RA**

**Date: Oct-Dec 2014**

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., 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.

**OIL CONS. DIV DIST. 3**

OCT 30 2014

**Release Notification and Corrective Action**

**OPERATOR**

Initial Report  Final Report

Name of Company: Enterprise Field Services LLC	Contact: Thomas Long
Address: 614 Reilly Ave, Farmington, NM 87401	Telephone No. 505-599-2286
Facility Name: Lateral 2C-6 Pipeline	Facility Type: Natural Gas Gathering Line

Surface Owner: BLM	Mineral Owner: BLM	API No.
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**LOCATION OF RELEASE**

Unit Letter E	Section 12	Township 25N	Range 8W	Feet from the 2518	North South Line	Feet from the 1153	East West Line	County Rio Arriba
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Latitude 36.414704 Longitude -107.638826

**NATURE OF RELEASE**

Type of Release: Natural Gas and Natural Gas Liquids	Volume of Release <b>245.18 MCF</b>	Volume Recovered: <b>None</b>
Source of Release: Internal Corrosion	Date and Hour of Occurrence: <b>9/13/2014 @ 8:00 a.m.</b>	Date and Hour of Discovery: <b>9/13/2014 2:30 p.m.</b>
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom? Courtesy notification to NMOCD – Cory Smith; BLM – Shari Ketchum on September 19, 2014.	
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: On September 13, 2014, a pipeline leak was discovered while performing underground utility locating on the Lateral 2C-6 ROW. The Enterprise technician initiated notification procedures. The pipeline was isolated, blown down, depressurized, locked out and tagged out. Repairs and remediation were completed on October 3, 2014. The final excavation dimensions measured approximately twenty-five (25) feet long by eight (8) feet wide ranging from seven (7) to 10.5 feet below ground surface. Approximately ninety (90) cubic yards of hydrocarbon impacted soil was excavated and transported to a NMOCD approved land farm facility for proper disposal.

Describe Area Affected and Cleanup Action Taken: On September 13, 2014, a pipeline leak was discovered while performing underground utility locating on the Lateral 2C-6 ROW. The Enterprise technician initiated notification procedures. The pipeline was isolated, blown down, depressurized, locked out and tagged out. Repairs and remediation were completed on October 3, 2014. The final excavation dimensions measured approximately twenty-five (25) feet long by eight (8) feet wide ranging from seven (7) to 10.5 feet below ground surface. Approximately ninety (90) cubic yards of hydrocarbon impacted soil was excavated and transported to a NMOCD approved land farm facility for proper disposal. A third party corrective action report is included with this "final" c-141.

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:	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Jon Fields	Approved by Environmental Specialist:	
Title: Director, Environmental	Approval Date: <u>11/12/14</u>	Expiration Date:
E-mail Address: jefields@eprod.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: <u>10/27/2014</u> Phone: (713)381-6684		

\* Attach Additional Sheets If Necessary

#NCS 1431652763

15

**Enterprise Products**  
**Lateral 2C-6 Pipeline Release**  
**Latitude North 36.414134°, Longitude West -107.639709°**  
**NW/SW (Unit L) Section 12 T25N R8W**  
**San Juan County, New Mexico**  
**October 14, 2014**



**Submitted To:**  
Enterprise Products  
Field Environmental-San Juan Basin  
614 Reilly Avenue  
Farmington, NM 87401

**Submitted By:**  
Souder, Miller & Associates  
401 West Broadway  
Farmington, NM 87401  
(505)325-7535



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## 1.0 Executive Summary

On September 18 and 22 and October 1 and 3, 2014 Souder, Miller & Associates (SMA) responded to oversee the excavation of hydrocarbon release associated with the Lateral 2C-6 pipeline initially reported on September 16, 2014. The release was a result of internal corrosion of the pipeline. The table below summarizes information about the pipeline repair and remediation activities.

TABLE 1: RELEASE INFORMATION					
Name	Lateral 2C-6 Pipeline Release				
Location	Latitude/Longitude		Section, Township, Range		
	36.414134°	-107.639709°	Unit L	Section 12	T 25N, R 8W
Date Reported	September 16, 2014				
Reported to	Tom Long				
Land Owner	Bureau of Land Management (BLM)				
Reported To	NM Oil Conservation Division (NMOCD)/ BLM				
Diameter of Pipeline	8 inches				
Source of Release	Internal Corrosion				
Release Contents	Natural Gas Liquids/Condensate				
Release Volume	Unknown				
Nearest Waterway	Unnamed Tributary Wash to Palluche Canyon Wash				
Depth to Groundwater	Assumed to be greater than 100 feet				
Nearest Domestic Water Source	Greater than 1,000 feet				
NMOCD Ranking	10				
SMA Response Dates	9/18, 9/22 & 10/1, 10/3/2014				
Subcontractors	Energy Maintenance Services (EMS) (Repairs) and OFT Construction (Excavation)				
Disposal Facility	Envirotech Landfarm				
Yd <sup>3</sup> Contaminated Soil Excavated and Disposed	90 (Reported on Completed Form C-138)				

## 2.0 Introduction

On behalf of Enterprise Products Operating, LLC. (Enterprise), SMA has prepared this report that describes remediation of a hydrocarbon release associated with the Lateral 2C-6 pipeline. The Lateral 2C-6 pipeline release was a result of internal corrosion of the 8-inch steel pipeline. The release was initially reported on September 16, 2014. The pipeline is located in Unit L, Section 12, Township 25 North, Range 8 West; 36.414134°, -107.639709°, San Juan County, New Mexico. Figure 1, Vicinity Map, illustrates the location of the release.

### 3.0 Site Ranking and Land Jurisdiction

The release site is located approximately 950 feet northeast of an unnamed tributary of Palluche Canyon Wash on land managed by the BLM with an elevation of approximately 7,105 feet above sea level. After evaluation of the site using aerial photography and topographic maps, depth to groundwater is estimated to be greater than 100 feet below ground surface (bgs). Figure 1 depicts the site vicinity and Figure 2 depicts the site location.

SMA searched the New Mexico State Engineer's Office online water well data base for water wells in the vicinity of the release. No wells were located within 1,000 feet or within a 1 mile radius of the site. The physical location of this release is within the jurisdiction of the NMOCD and BLM.

This release location has been assigned a NMOCD ranking of 10 which requires a soil remediation standard of 10 parts per million (ppm) benzene, 50 ppm combined benzene, toluene, ethyl-benzene, and total xylenes (BTEX), and 1,000 ppm total petroleum hydrocarbons (TPH). Table 2 illustrates site ranking rationale.

### 4.0 Summary of Field Activities

On September 18 and 22, SMA mobilized to the release site to oversee excavation activities during the repair of the pipeline and guide remediation activities. SMA guided the excavation activities by collecting soil samples for field screening with a calibrated photo-ionization detector (PID). Representatives from Enterprise were present to oversee site health and safety and direct repair activities.

Soil samples were initially field screened with a calibrated PID. Samples suspected of having hydrocarbon contamination concentrations below regulatory standards were submitted for confirmation laboratory analysis per United States Environmental Protection Agency Methods: 8021 for benzene, toluene, ethylbenzene, and xylenes (BTEX) and 8015 for diesel and gasoline range organics (DRO/GRO). All samples were analyzed by Hall Environmental Analytical Laboratory in Albuquerque, New Mexico. Figure 3 illustrates the extent of the excavation and composite soil sample locations and laboratory results.

Samples collected on September 22, 2014, from the excavation stockpile, sidewalls and base, with a depth of 5 feet, were submitted for laboratory analysis. Laboratory results indicated the stockpile samples (SC-10 SE Stockpile: 1,770 mg/kg combined GRO/DRO; SC-11 NW Stockpile: 2,320 combined GRO/DRO) and SC-9 Base @ 5' 5,190 mg/kg (combined GRO/DRO) were above regulatory standards. All other samples collected from the excavation were below standards for this event. Additional excavation was performed to remove the impacted sandstone bedrock base were scheduled for a later date.

On September 26, 2014, OFT Construction advanced the base of the excavation to a depth of 6 feet on the western base and 7 feet on the eastern base using a rubber tire backhoe equipped with rock teeth. Samples were collected by SMA for laboratory analysis from the east and west base. Laboratory results indicated that the east base was below regulatory standards; however, the west base remained above the regulatory standard with a combined GRO/DRO concentration of 4,130 mg/kg.

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On October 1, 2014, OFT Construction, under the direction of Enterprise and guided by SMA field screening, employed an air-powered jackhammer to break up and excavated the sandstone bedrock base to a maximum achievable depth of approximately 10.5 feet below ground surface. A sample was collected from the west base at a depth of 10.5 and laboratory results indicated the base was below regulatory standards; however, the sidewalls were not sampled in the advanced excavation from 5 to 10.5 feet below ground surface. On October 3, 2014, SMA returned to the site to collect samples for laboratory analysis from the sidewalls in question. Final laboratory results determined that the sidewalls were below regulatory standards.

The final excavation dimensions were approximately 25 feet long by a maximum of 8 feet wide and a maximum of 10.5 feet deep, covering an area of approximately 200 square feet. In total, approximately 90 cubic yards of material were excavated and hauled to Envirotech Landfarm near Bloomfield, New Mexico for proper disposal and replaced with clean backfill material. Soil disposal documentation is included in Appendix B.

## **5.0 Conclusions and Recommendations**

NMOCD Guidelines for Remediation of Leaks, Spills, and Releases have established the following action levels for contaminants of concern with a site ranking of 10: 10 ppm benzene, 50 ppm total BTEX, and 1,000 ppm TPH.

Laboratory analytical results for samples collected during the final excavation on October 3, 2014 were below NMOCD Guidelines for benzene (10 ppm), BTEX (50 ppm) and combined GRO/DRO (1,000 ppm).

Soil contaminant concentrations are illustrated in Figure 3. A summary of laboratory analysis is included in Table 3. Laboratory reports are included in Appendix B.

SMA recommends no further activities at the Lateral 2C-6 pipeline release site.

## 6.0 Closure and Limitations

The scope of our services consisted of the performance of a preliminary spill assessment, verification of release stabilization, regulatory liaison, oversight and control of remediation operations, disposal arrangements and documentation, project management, and preparation of this summary report. All work has been performed in accordance with generally accepted professional environmental consulting practices.

If there are any questions regarding this report, please contact either Steve Moskal or Reid Allan at 505-325-7535.

Submitted by:

Reviewed by:

SOUDER, MILLER & ASSOCIATES

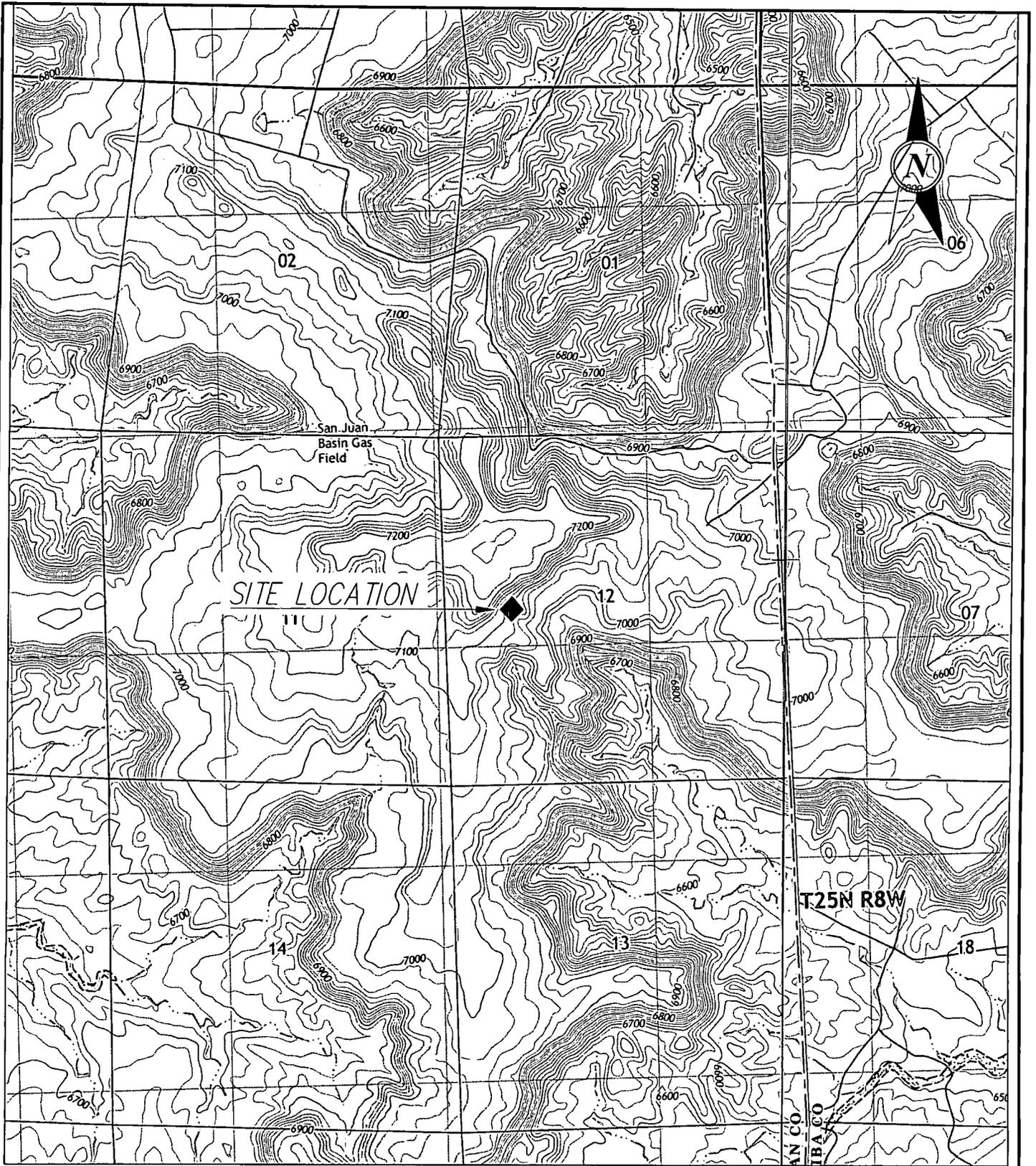


Steve Moskal  
Project Scientist



Reid S. Allan, PG  
Principal Scientist

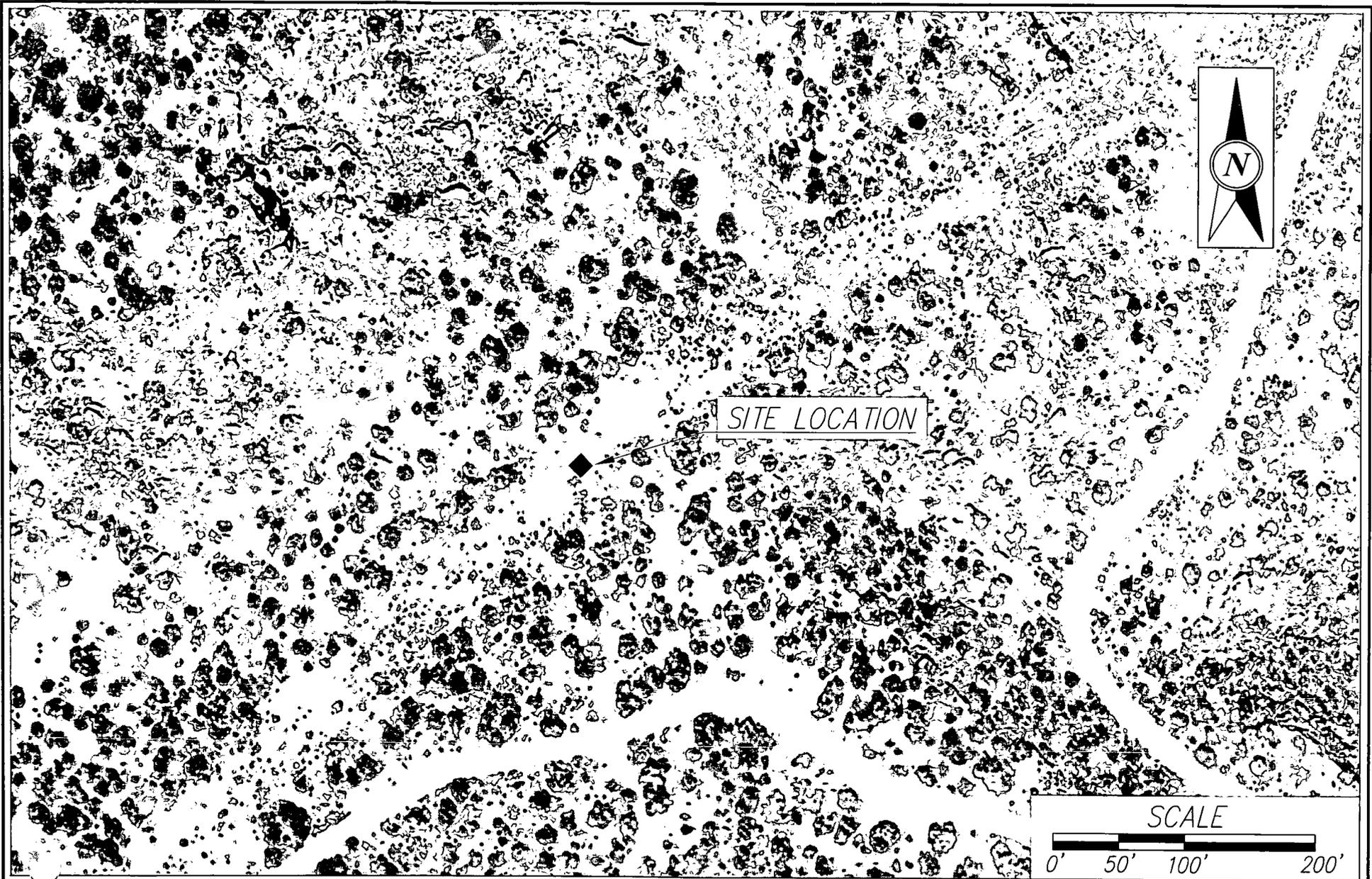
## Figures



SCALE



 <p><b>ASMA</b> Engineering Environmental Surveying</p>	<p><b>SOUDER, MILLER &amp; ASSOCIATES</b> 401 W. BROADWAY FARMINGTON, NM 87401 Phone (505) 325-7535 Toll-Free (800) 519-0898 Fax (505) 325-0045 www.soudermiller.com Serving the Southwest &amp; Rocky Mountains Albuquerque, Farmington, Las Cruces, Roswell, Santa Fe, NM - El Paso, TX Cortez, Grand Junction - Montrose, CO - Salt Lake, AZ - Moab, UT</p>	<p>ENTERPRISE FARMINGTON, NEW MEXICO</p>	<table border="1"> <tr> <td>Designed SM</td> <td>Drawn DJB</td> <td>Checked RSA</td> </tr> <tr> <td colspan="3">Date: 9/29/14</td> </tr> <tr> <td colspan="3">Scale: Horiz: 1"=2000' Vert: N/A</td> </tr> <tr> <td colspan="3">Project No: 5122855</td> </tr> <tr> <td colspan="3">Sheet: 1</td> </tr> </table>	Designed SM	Drawn DJB	Checked RSA	Date: 9/29/14			Scale: Horiz: 1"=2000' Vert: N/A			Project No: 5122855			Sheet: 1		
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	Date: 9/29/14																	
	Scale: Horiz: 1"=2000' Vert: N/A																	
Project No: 5122855																		
Sheet: 1																		
<p>VICINITY MAP LATERAL 2C-6 SECTION 12, T25N, R8W</p>		<p>SAN JUAN COUNTY</p>																
<p>© Copyright 2014 Souder, Miller &amp; Associates - All Rights Reserved</p>		<p>P:\S-Enterprise MSA (2014) 5122855\SPILL RESPONSE\BC56 - Lateral 2C-6\CADD\wgsl\LATERAL 2C-6-LOCATION MAP.dwg , DJB, 10/14/2014 11:00 AM</p>																



SOUDER, MILLER & ASSOCIATES  
401 W. BROADWAY  
FARMINGTON, NMI 87401

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ENTERPRISE

FARMINGTON, NEW MEXICO

Designed SM	Drawn DJB	Checked RSA
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Date: 9/29/2014

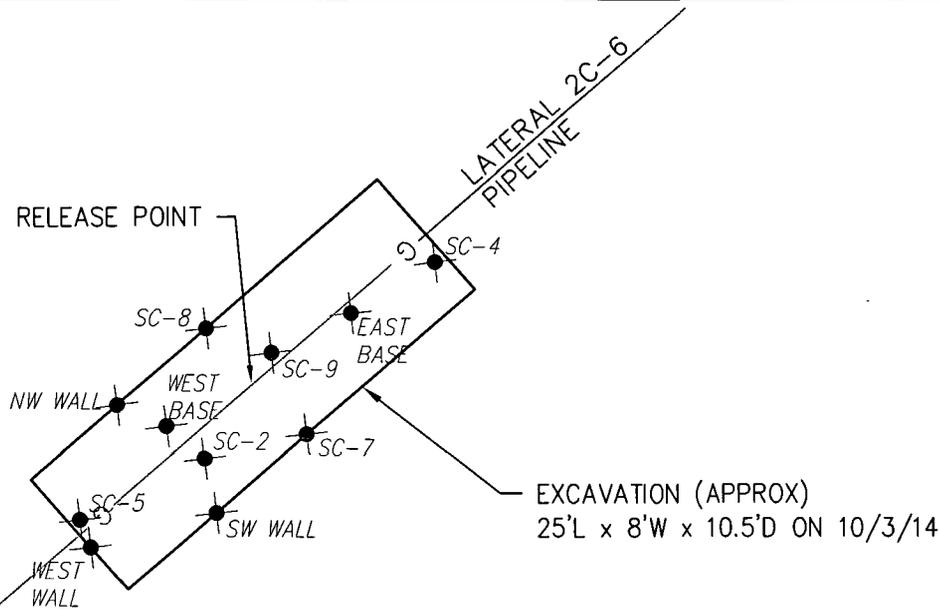
Scale: Horiz: 1"=100'  
Vert: N/A

Project No: 5122855

Sheet: 2

SITE LOCATION MAP  
LATERAL 2C-6  
SECTION 12, T25N, R8W

SAN JUAN COUNTY, NEW MEXICO



**LABORATORY ANALYTICAL SUMMARY**

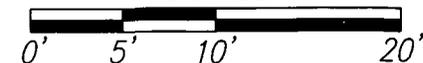
**Soil Samples**

Date	Time	Sample ID	Sample Depth (Feet BGS)	Method 8015 GRO	Method 8015 DRO	Method 8021 Benzene	Method 8021 BTEX
NMOCD Guidelines		NMOCD Site Ranking: 10		1,000 ppm		10 ppm	50 ppm
9/18/2014	14:00	SC-6 Stockpile 0-5'	0-5'	83	460	0.2	8.66
9/22/2014	10:40	SC-5 South Wall @ 0-5'	0-5'	<4.9	<9.8	<0.049	<0.098
9/22/2014	10:45	SC-7 SE Wall @ 0-5'	0-5'	60	720	0.12	8.04
9/22/2014	10:47	SC-4 NE Wall @ 0-5'	0-5'	<3.9	57	<0.039	<0.078
9/22/2014	10:49	SC-8 NW Wall 0-5'	0-5'	47	490	0.3	5.83
9/22/2014	10:51	SC-9 Base @ 5'	5'	290	4900	1.6	34.9
9/22/2014	10:53	SC-10 SE Stockpile	--	170	1600	0.56	22.56
9/22/2014	10:55	SC-11 NW Stockpile	--	220	2100	0.9	30.8
9/25/2014	12:00	West Base @ 6'	6'	330	3800	0.42	17.02
9/25/2014	12:05	East Base @ 7'	7'	<8.6	62	<0.086	0.44
10/11/2014	12:32	SC-3 West Base @ 10.5'	10.5'	<22	110	<0.11	<0.44
10/3/2014	14:10	W Wall	5-10'	<4.1	11	<0.041	<0.081
10/3/2014	14:12	NW Wall	5-10'	19	290	<0.041	1.377
10/3/2014	14:14	SW Wall	5-10'	<3.8	120	<0.038	<0.075

*LEGEND*

● SOIL SAMPLE LOCATION  
RESULTS IN mg/kg REPORTED 10-7-14

*SCALE*



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ENTERPRISE

FARMINGTON, NEW MEXICO

**SOIL CONTAMINANT CONCENTRATION MAP**  
**LATERAL 2C-6**  
**SECTION 12, T25N, R8W**

SAN JUAN COUNTY, NEW MEXICO

Designed SM	Drawn DJB	Checked RSA
Date: 9/29/2014		
Scale: Horiz: 1"=20' Vert: N/A		
Project No: 5122855		
Sheet: 3		

## Tables

<b>Depth to Groundwater</b>	<b>NMOCD Numeric Rank for this Site</b>	<b>Source for Ranking</b>	<b>Notes</b>
< 50 BGS = 20		Topographic Maps and Field Verification	Groundwater estimated to be approximately 350 feet below the Lateral 2C-6 site.
50' to 99' = 10			
>100' = 0	0		
<b>Ranking Criteria for Horizontal Distance to Nearest Surface Water</b>	<b>NMOCD Numeric Rank for this Site</b>	<b>Source for Ranking</b>	<b>Notes</b>
< 200' = 20		Topographic Maps and Field Verification	Release is located approximately 950 northwest of an unnamed ephemeral tributary of Palluche Canyon Wash.
200'-1000' = 10	10		
>1000'			
<b>Ranking Criteria for Horizontal Distance to a Water Well or Water Source</b>	<b>NMOCD Numeric Rank for this Site</b>	<b>Source for Ranking</b>	<b>Notes</b>
<1000' from a water source? <200' for a private domestic water source? YES OR NO to BOTH. YES = 20, NO = 0	0	NM State Engineer Water Well Database	No recorded water wells located within 1,000 feet or within a 1 mile radius
<b>Total Site Ranking</b>	<b>10</b>		
<b>Soil Remediation Standards</b>	<b>0 to 9</b>	<b>10 to 19</b>	<b>&gt;19</b>
<b>Benzene</b>	10 PPM	<b>10 PPM</b>	10 PPM
<b>BTEX</b>	50 PPM	<b>50 PPM</b>	50 PPM
<b>TPH</b>	5000 PPM	<b>1000 PPM</b>	100 PPM

Enterprise Products  
 Table 3: Summary of Laboratory Analysis  
 Results in mg/Kg

Lateral 2C-6  
 Pipeline Release  
 10/14/2014

LABORATORY ANALYTICAL SUMMARY							
Soil Samples							
Date	Time	Sample ID	Sample Depth (Feet BGS)	Method 8015 GRO	Method 8015 DRO	Method 8021 Benzene	Method 8021 BTEX
NMOCD Guidelines		NMOCD Site Ranking: 10		1,000 ppm		10 ppm	50 ppm
9/18/2014	14:00	SC-6 Stockpile 0-5'	0-5'	83	460	0.2	8.66
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9/22/2014	10:53	SC-10 SE Stockpile	--	<b>170</b>	<b>1600</b>	0.56	22.56
9/22/2014	10:55	SC-11 NW Stockpile	--	<b>220</b>	<b>2100</b>	0.9	30.8
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10/3/2014	14:14	SW Wall	5-10'	<3.8	120	<0.038	<0.075



**Appendix A**  
**Photographic Documentation**

Site Photographs  
Enterprise Products Lateral 2C-6 Pipeline Release



Photo 1: Beginning of excavation at the Lateral 2C-6 pipeline release at a depth of approximately 4.5' bgs.



Photo 2: Removal of heavily stained soils from the Lateral 2C-6 release.

Site Photographs  
Enterprise Products Lateral 2C-6 Pipeline Release

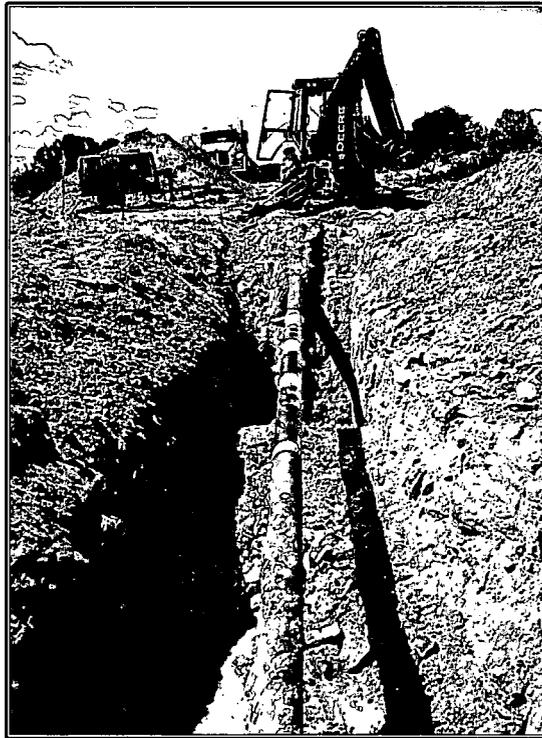


Photo 3: View of rubber tired backhoe equipped with rock teeth used during the excavation.



Photo 4: View of Lateral 2C-6 pipeline excavation continuing through the bedrock base using an air powered jackhammer.

Site Photographs  
Enterprise Products Lateral 2C-6 Pipeline Release

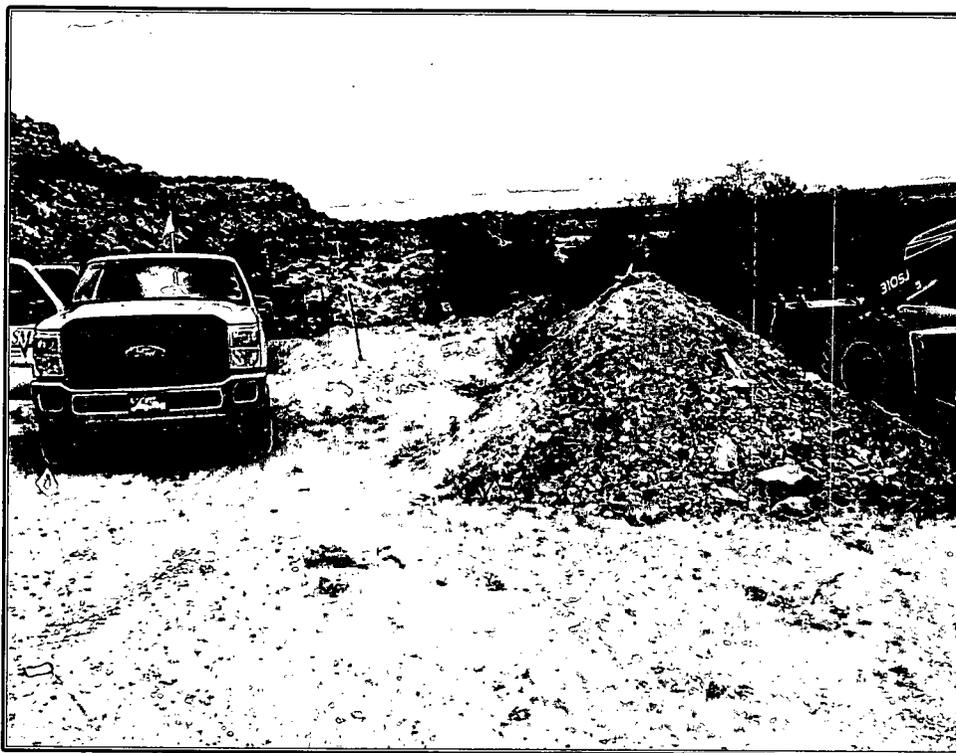


Photo 5: View of stockpiled soil that is to be transported for offsite disposal.

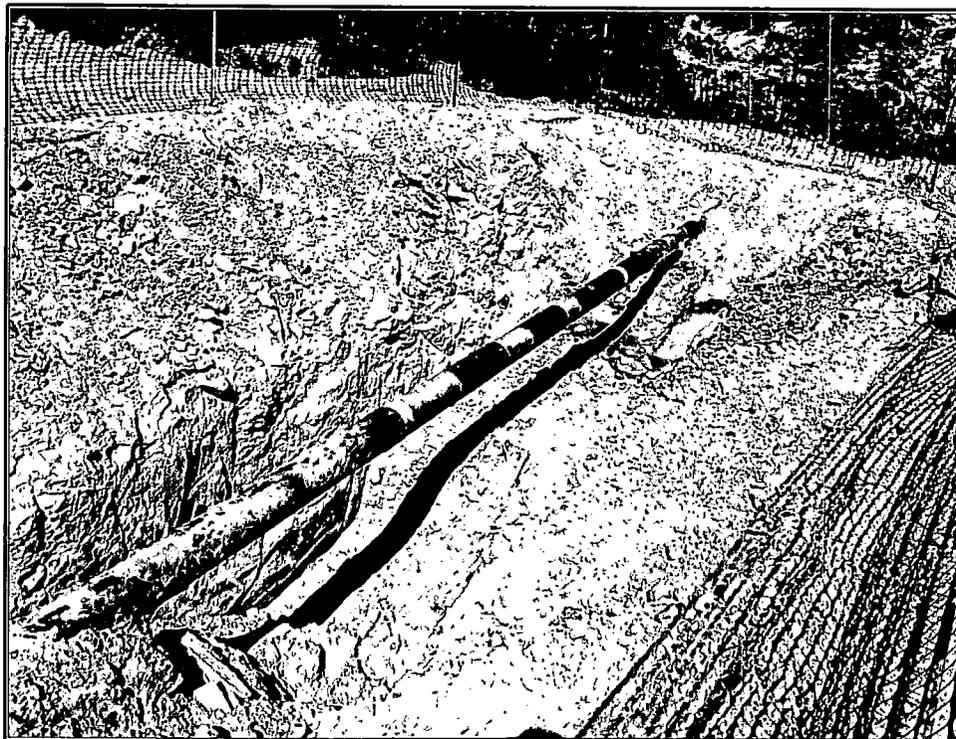


Photo 6: View of the final excavation with a maximum depth of 10.5 feet on the western base.

**Appendix B**  
**Soil Disposal Documentation**

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., 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 97057-0661  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-138  
Revised August 1, 2011

\*Surface Waste Management Facility Operator and Generator shall maintain and make this documentation available for Division inspection.

### REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. Generator Name and Address: Enterprise Field Services, LLC, 614 Reilly Avenue, Farmington, NM 87401
2. Originating Site: Lateral 2C-6 Pipeline <i>Oct. 2014</i>
3. Location of Material (Street Address, City, State or ULSTR): Unit Letter E, Section 25, T25N, R8W; 36.414704, -107.638826
4. Source and Description of Waste: Hydrocarbon impacted soils associated with a release from a natural gas pipeline
5. Estimated Volume <u>50</u> <sup>yd<sup>3</sup></sup> bbls Known Volume (to be entered by the operator at the end of the haul) <u>90</u> <sup>yd<sup>3</sup></sup> bbls
5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS I, <u>Thomas Long</u> <i>Thomas Long</i> representative or authorized agent for <u>Enterprise Field Services, LLC</u> do hereby PRINT & SIGN NAME COMPANY NAME certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification) <input checked="" type="checkbox"/> RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. <u>Operator Use Only: Waste Acceptance Frequency</u> <input type="checkbox"/> Monthly <input type="checkbox"/> Weekly <input type="checkbox"/> Per Load <input type="checkbox"/> RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items) <input type="checkbox"/> MSDS Information <input type="checkbox"/> RCRA Hazardous Waste Analysis <input type="checkbox"/> Process Knowledge <input type="checkbox"/> Other (Provide description in Box 4)
GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS I, <u>Thomas Long</u> <i>Thomas Long</i> <u>9-18-14</u> , representative for <u>Enterprise Field Services, LLC</u> authorize Envirotech, Inc. to Generator Signature complete the required testing/sign the Generator Waste Testing Certification. I, <u>Kendra Runung</u> <i>Kendra Runung</i> , representative for <u>Envirotech, Inc.</u> do hereby certify that representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.
6. Transporter: <del>EMS</del> <u>TN Trucking, Sweazy, La Plata Construction, Crossfire, JP Trucking</u>

OCD Permitted Surface Waste Management Facility  
Name and Facility Permit #: Envirotech, Inc. Soil Remediation Facility \* Permit #: NM 01-0011  
Address of Facility: Hilltop, NM

Method of Treatment and/or Disposal:  
 Evaporation  Injection  Treating Plant  Landfarm  Landfill  Other

Waste Acceptance Status:  
 APPROVED  DENIED (Must Be Maintained As Permanent Record)

PRINT NAME: Kendra Runung TITLE: Waste Coordinator DATE: 10/8/14  
SIGNATURE: Kendra Runung TELEPHONE NO.: 505-632-0615  
Surface Waste Management Facility Authorized Agent

**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](http://www.hallenvironmental.com)

September 22, 2014

Steve Moskal

Souder, Miller and Associates  
401 W. Broadway

Farmington, NM 87401

TEL: (505) 325-5667

FAX

RE: Lateral 2C-6

OrderNo.: 1409947

Dear Steve Moskal:

Hall Environmental Analysis Laboratory received 1 sample(s) on 9/19/2014 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](http://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

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Souder, Miller and Associates **Client Sample ID:** SC-6 Stockpile 0-5'  
**Project:** Lateral 2C-6 **Collection Date:** 9/18/2014 2:00:00 PM  
**Lab ID:** 1409947-001 **Matrix:** SOIL **Received Date:** 9/19/2014 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BCN</b>
Diesel Range Organics (DRO)	460	9.9		mg/Kg	1	9/19/2014 11:19:29 AM	15397
Surr: DNOP	113	57.9-140		%REC	1	9/19/2014 11:19:29 AM	15397
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	83	18		mg/Kg	5	9/19/2014 10:47:53 AM	R21331
Surr: BFB	157	80-120	S	%REC	5	9/19/2014 10:47:53 AM	R21331
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	0.20	0.18		mg/Kg	5	9/19/2014 10:47:53 AM	R21331
Toluene	2.5	0.18		mg/Kg	5	9/19/2014 10:47:53 AM	R21331
Ethylbenzene	0.56	0.18		mg/Kg	5	9/19/2014 10:47:53 AM	R21331
Xylenes, Total	5.4	0.35		mg/Kg	5	9/19/2014 10:47:53 AM	R21331
Surr: 4-Bromofluorobenzene	106	80-120		%REC	5	9/19/2014 10:47:53 AM	R21331

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1409947

22-Sep-14

**Client:** Souder, Miller and Associates

**Project:** Lateral 2C-6

Sample ID	<b>MB-15340</b>	SampType:	<b>MBLK</b>	TestCode:	<b>EPA Method 8015D: Diesel Range Organics</b>					
Client ID:	<b>PBS</b>	Batch ID:	<b>15340</b>	RunNo:	<b>21269</b>					
Prep Date:	<b>9/17/2014</b>	Analysis Date:	<b>9/18/2014</b>	SeqNo:	<b>621307</b>	Units:	<b>%REC</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.0		10.00		80.4	57.9	140			

Sample ID	<b>LCS-15340</b>	SampType:	<b>LCS</b>	TestCode:	<b>EPA Method 8015D: Diesel Range Organics</b>					
Client ID:	<b>LCSS</b>	Batch ID:	<b>15340</b>	RunNo:	<b>21269</b>					
Prep Date:	<b>9/17/2014</b>	Analysis Date:	<b>9/18/2014</b>	SeqNo:	<b>621571</b>	Units:	<b>%REC</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.2		5.000		104	57.9	140			

Sample ID	<b>MB-15396</b>	SampType:	<b>MBLK</b>	TestCode:	<b>EPA Method 8015D: Diesel Range Organics</b>					
Client ID:	<b>PBS</b>	Batch ID:	<b>15396</b>	RunNo:	<b>21269</b>					
Prep Date:	<b>9/19/2014</b>	Analysis Date:	<b>9/19/2014</b>	SeqNo:	<b>621919</b>	Units:	<b>%REC</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.4		10.00		94.4	57.9	140			

Sample ID	<b>LCS-15396</b>	SampType:	<b>LCS</b>	TestCode:	<b>EPA Method 8015D: Diesel Range Organics</b>					
Client ID:	<b>LCSS</b>	Batch ID:	<b>15396</b>	RunNo:	<b>21269</b>					
Prep Date:	<b>9/19/2014</b>	Analysis Date:	<b>9/19/2014</b>	SeqNo:	<b>621920</b>	Units:	<b>%REC</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	15		5.000		292	57.9	140			S

Sample ID	<b>LCS-15396</b>	SampType:	<b>LCS</b>	TestCode:	<b>EPA Method 8015D: Diesel Range Organics</b>					
Client ID:	<b>LCSS</b>	Batch ID:	<b>15396</b>	RunNo:	<b>21269</b>					
Prep Date:	<b>9/19/2014</b>	Analysis Date:	<b>9/19/2014</b>	SeqNo:	<b>622111</b>	Units:	<b>%REC</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.1		5.000		103	57.9	140			

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1409947

22-Sep-14

Client: Souder, Miller and Associates

Project: Lateral 2C-6

Sample ID	<b>MB-15381 MK</b>	SampType:	<b>MBLK</b>	TestCode:	<b>EPA Method 8015D: Gasoline Range</b>					
Client ID:	<b>PBS</b>	Batch ID:	<b>R21331</b>	RunNo:	<b>21331</b>					
Prep Date:		Analysis Date:	<b>9/19/2014</b>	SeqNo:	<b>622476</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	920		1000		91.9	80	120			

Sample ID	<b>LCS-15381 MK</b>	SampType:	<b>LCS</b>	TestCode:	<b>EPA Method 8015D: Gasoline Range</b>					
Client ID:	<b>LCSS</b>	Batch ID:	<b>R21331</b>	RunNo:	<b>21331</b>					
Prep Date:		Analysis Date:	<b>9/19/2014</b>	SeqNo:	<b>622477</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	109	65.8	139			
Surr: BFB	1000		1000		100	80	120			

### Qualifiers:

- |   |  |
|---|--|
| * Value exceeds Maximum Contaminant Level.        | B Analyte detected in the associated Method Blank    |
| E Value above quantitation range                  | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits      | ND Not Detected at the Reporting Limit               |
| O RSD is greater than RSDlimit                    | P Sample pH greater than 2.                          |
| R RPD outside accepted recovery limits            | RL Reporting Detection Limit                         |
| S Spike Recovery outside accepted recovery limits |  |

**QC SUMMARY REPORT**  
**Hall Environmental Analysis Laboratory, Inc.**

WO#: 1409947  
 22-Sep-14

**Client:** Souder, Miller and Associates  
**Project:** Lateral 2C-6

Sample ID <b>MB-15381 MK</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8021B: Volatiles</b>							
Client ID: <b>PBS</b>	Batch ID: <b>R21331</b>		RunNo: <b>21331</b>							
Prep Date:	Analysis Date: <b>9/19/2014</b>		SeqNo: <b>622652</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.99		1.000		98.9	80	120			

Sample ID <b>LCS-15381 MK</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8021B: Volatiles</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>R21331</b>		RunNo: <b>21331</b>							
Prep Date:	Analysis Date: <b>9/19/2014</b>		SeqNo: <b>622653</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.050	1.000	0	97.8	80	120			
Toluene	0.96	0.050	1.000	0	96.4	80	120			
Ethylbenzene	0.98	0.050	1.000	0	98.0	80	120			
Xylenes, Total	2.9	0.10	3.000	0	97.8	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		106	80	120			

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

**Sample Log-In Check List**

Client Name: SMA-FARM

Work Order Number: 1409947

RcptNo: 1

Received by/date: AT 9/19/14

Logged By: Anne Thorne 9/19/2014 7:00:00 AM *Anne Thorne*

Completed By: Anne Thorne 9/19/2014 *Anne Thorne*

Reviewed By: *mg* 09/19/14

**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:  eMail  Phone  Fax  In Person  
 Regarding: \_\_\_\_\_  
 Client Instructions: \_\_\_\_\_

17. Additional remarks:

**18. Cooler Information**

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





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

September 25, 2014

Steve Moskal  
Souder, Miller and Associates  
401 W. Broadway  
Farmington, NM 87401  
TEL: (505) 325-5667  
FAX

RE: Lateral 2C-6

OrderNo.: 1409A94

Dear Steve Moskal:

Hall Environmental Analysis Laboratory received 7 sample(s) on 9/23/2014 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](http://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

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Client Sample ID: SC-5 SW Wall @ 0-5'

Project: Lateral 2C-6

Collection Date: 9/22/2014 10:40:00 AM

Lab ID: 1409A94-001

Matrix: MEOH (SOIL)

Received Date: 9/23/2014 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BCN</b>
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	9/23/2014 11:22:36 AM	15419
Surr: DNOP	106	57.9-140		%REC	1	9/23/2014 11:22:36 AM	15419
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/23/2014 10:42:06 AM	R21377
Surr: BFB	96.7	80-120		%REC	1	9/23/2014 10:42:06 AM	R21377
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.049		mg/Kg	1	9/23/2014 10:42:06 AM	R21377
Toluene	ND	0.049		mg/Kg	1	9/23/2014 10:42:06 AM	R21377
Ethylbenzene	ND	0.049		mg/Kg	1	9/23/2014 10:42:06 AM	R21377
Xylenes, Total	ND	0.098		mg/Kg	1	9/23/2014 10:42:06 AM	R21377
Surr: 4-Bromofluorobenzene	102	80-120		%REC	1	9/23/2014 10:42:06 AM	R21377

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates      Client Sample ID: SC-7 SE Wall @ 0-5'  
 Project: Lateral 2C-6      Collection Date: 9/22/2014 10:45:00 AM  
 Lab ID: 1409A94-002      Matrix: MEOH (SOIL)      Received Date: 9/23/2014 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BCN</b>
Diesel Range Organics (DRO)	720	99		mg/Kg	10	9/23/2014 11:44:01 AM	15419
Surr: DNOP	0	57.9-140	S	%REC	10	9/23/2014 11:44:01 AM	15419
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	60	24		mg/Kg	5	9/23/2014 11:10:40 AM	R21377
Surr: BFB	130	80-120	S	%REC	5	9/23/2014 11:10:40 AM	R21377
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	0.12	0.12		mg/Kg	5	9/23/2014 11:10:40 AM	R21377
Toluene	1.7	0.24		mg/Kg	5	9/23/2014 11:10:40 AM	R21377
Ethylbenzene	0.52	0.24		mg/Kg	5	9/23/2014 11:10:40 AM	R21377
Xylenes, Total	5.7	0.47		mg/Kg	5	9/23/2014 11:10:40 AM	R21377
Surr: 4-Bromofluorobenzene	109	80-120		%REC	5	9/23/2014 11:10:40 AM	R21377

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

<b>Qualifiers:</b>	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	E Value above quantitation range	H Holding times for preparation or analysis exceeded
	J Analyte detected below quantitation limits	ND Not Detected at the Reporting Limit
	O RSD is greater than RSDlimit	P Sample pH greater than 2.
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S Spike Recovery outside accepted recovery limits	

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Client Sample ID: SC-4 NE Wall @ 0-5'

Project: Lateral 2C-6

Collection Date: 9/22/2014 10:47:00 AM

Lab ID: 1409A94-003

Matrix: MEOH (SOIL)

Received Date: 9/23/2014 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BCN</b>
Diesel Range Organics (DRO)	57	9.9		mg/Kg	1	9/23/2014 2:10:47 PM	15419
Surr: DNOP	106	57.9-140		%REC	1	9/23/2014 2:10:47 PM	15419
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	3.9		mg/Kg	1	9/23/2014 11:39:21 AM	R21377
Surr: BFB	97.3	80-120		%REC	1	9/23/2014 11:39:21 AM	R21377
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.039		mg/Kg	1	9/23/2014 11:39:21 AM	R21377
Toluene	ND	0.039		mg/Kg	1	9/23/2014 11:39:21 AM	R21377
Ethylbenzene	ND	0.039		mg/Kg	1	9/23/2014 11:39:21 AM	R21377
Xylenes, Total	ND	0.078		mg/Kg	1	9/23/2014 11:39:21 AM	R21377
Surr: 4-Bromofluorobenzene	103	80-120		%REC	1	9/23/2014 11:39:21 AM	R21377

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

**Analytical Report**

Lab Order 1409A94

Date Reported: 9/25/2014

**Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Souder, Miller and Associates**Client Sample ID:** SC-8 NW Wall @ 0-5'**Project:** Lateral 2C-6**Collection Date:** 9/22/2014 10:49:00 AM**Lab ID:** 1409A94-004**Matrix:** MEOH (SOIL)**Received Date:** 9/23/2014 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BCN</b>
Diesel Range Organics (DRO)	490	99		mg/Kg	10	9/23/2014 11:52:25 AM	15419
Surr: DNOP	0	57.9-140	S	%REC	10	9/23/2014 11:52:25 AM	15419
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	47	26		mg/Kg	5	9/23/2014 12:07:54 PM	R21377
Surr: BFB	115	80-120		%REC	5	9/23/2014 12:07:54 PM	R21377
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	0.30	0.26		mg/Kg	5	9/23/2014 12:07:54 PM	R21377
Toluene	1.6	0.26		mg/Kg	5	9/23/2014 12:07:54 PM	R21377
Ethylbenzene	0.33	0.26		mg/Kg	5	9/23/2014 12:07:54 PM	R21377
Xylenes, Total	3.6	0.52		mg/Kg	5	9/23/2014 12:07:54 PM	R21377
Surr: 4-Bromofluorobenzene	106	80-120		%REC	5	9/23/2014 12:07:54 PM	R21377

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

**Analytical Report**

Lab Order 1409A94

Date Reported: 9/25/2014

**Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Souder, Miller and Associates**Client Sample ID:** SC-9 Base @ 5'**Project:** Lateral 2C-6**Collection Date:** 9/22/2014 10:51:00 AM**Lab ID:** 1409A94-005**Matrix:** MEOH (SOIL)**Received Date:** 9/23/2014 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BCN</b>
Diesel Range Organics (DRO)	4900	99		mg/Kg	10	9/23/2014 10:21:56 AM	15419
Surr: DNOP	0	57.9-140	S	%REC	10	9/23/2014 10:21:56 AM	15419
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	290	4.4		mg/Kg	1	9/23/2014 12:36:39 PM	R21377
Surr: BFB	926	80-120	S	%REC	1	9/23/2014 12:36:39 PM	R21377
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	1.6	0.044		mg/Kg	1	9/23/2014 12:36:39 PM	R21377
Toluene	12	0.44		mg/Kg	10	9/23/2014 3:28:31 PM	R21377
Ethylbenzene	2.3	0.044		mg/Kg	1	9/23/2014 12:36:39 PM	R21377
Xylenes, Total	19	0.88		mg/Kg	10	9/23/2014 3:28:31 PM	R21377
Surr: 4-Bromofluorobenzene	186	80-120	S	%REC	1	9/23/2014 12:36:39 PM	R21377

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates Client Sample ID: SC-10 SE Stockpile  
 Project: Lateral 2C-6 Collection Date: 9/22/2014 10:53:00 AM  
 Lab ID: 1409A94-006 Matrix: MEOH (SOIL) Received Date: 9/23/2014 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BCN</b>
Diesel Range Organics (DRO)	1600	99		mg/Kg	10	9/23/2014 10:52:00 AM	15419
Surr: DNOP	0	57.9-140	S	%REC	10	9/23/2014 10:52:00 AM	15419
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	170	19		mg/Kg	5	9/23/2014 2:59:56 PM	R21377
Surr: BFB	227	80-120	S	%REC	5	9/23/2014 2:59:56 PM	R21377
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	0.56	0.19		mg/Kg	5	9/23/2014 2:59:56 PM	R21377
Toluene	6.5	0.19		mg/Kg	5	9/23/2014 2:59:56 PM	R21377
Ethylbenzene	1.5	0.19		mg/Kg	5	9/23/2014 2:59:56 PM	R21377
Xylenes, Total	14	0.38		mg/Kg	5	9/23/2014 2:59:56 PM	R21377
Surr: 4-Bromofluorobenzene	121	80-120	S	%REC	5	9/23/2014 2:59:56 PM	R21377

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates      Client Sample ID: SC-11 NW Stockpile  
 Project: Lateral 2C-6      Collection Date: 9/22/2014 10:55:00 AM  
 Lab ID: 1409A94-007      Matrix: MEOH (SOIL)      Received Date: 9/23/2014 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BCN</b>
Diesel Range Organics (DRO)	2100	100		mg/Kg	10	9/23/2014 11:22:10 AM	15419
Surr: DNOP	0	57.9-140	S	%REC	10	9/23/2014 11:22:10 AM	15419
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	220	4.0		mg/Kg	1	9/23/2014 1:34:02 PM	R21377
Surr: BFB	908	80-120	S	%REC	1	9/23/2014 1:34:02 PM	R21377
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	0.90	0.040		mg/Kg	1	9/23/2014 1:34:02 PM	R21377
Toluene	7.6	0.40		mg/Kg	10	9/23/2014 3:57:09 PM	R21377
Ethylbenzene	2.3	0.040		mg/Kg	1	9/23/2014 1:34:02 PM	R21377
Xylenes, Total	20	0.80		mg/Kg	10	9/23/2014 3:57:09 PM	R21377
Surr: 4-Bromofluorobenzene	201	80-120	S	%REC	1	9/23/2014 1:34:02 PM	R21377

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

<b>Qualifiers:</b>	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	E Value above quantitation range	H Holding times for preparation or analysis exceeded
	J Analyte detected below quantitation limits	ND Not Detected at the Reporting Limit
	O RSD is greater than RSDlimit	P Sample pH greater than 2.
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S Spike Recovery outside accepted recovery limits	

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1409A94

25-Sep-14

Client: Souder, Miller and Associates

Project: Lateral 2C-6

Sample ID <b>MB-15419</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>15419</b>	RunNo: <b>21359</b>								
Prep Date: <b>9/23/2014</b>	Analysis Date: <b>9/23/2014</b>	SeqNo: <b>623850</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	10		10.00		99.6	57.9	140			

Sample ID <b>LCS-15419</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>15419</b>	RunNo: <b>21359</b>								
Prep Date: <b>9/23/2014</b>	Analysis Date: <b>9/23/2014</b>	SeqNo: <b>623855</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	40	10	50.00	0	79.1	68.6	130			
Surr: DNOP	4.8		5.000		96.5	57.9	140			

## Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1409A94

25-Sep-14

**Client:** Souder, Miller and Associates

**Project:** Lateral 2C-6

Sample ID <b>MB-15402 MK</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>R21377</b>	RunNo: <b>21377</b>								
Prep Date:	Analysis Date: <b>9/23/2014</b>	SeqNo: <b>624744</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	940		1000		94.0	80	120			

Sample ID <b>LCS-15402 MK</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>R21377</b>	RunNo: <b>21377</b>								
Prep Date:	Analysis Date: <b>9/23/2014</b>	SeqNo: <b>624759</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	104	65.8	139			
Surr: BFB	1100		1000		108	80	120			

## Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1409A94

25-Sep-14

Client: Souder, Miller and Associates

Project: Lateral 2C-6

Sample ID	<b>MB-15402 MK</b>	SampType:	<b>MBLK</b>	TestCode:	<b>EPA Method 8021B: Volatiles</b>					
Client ID:	<b>PBS</b>	Batch ID:	<b>R21377</b>	RunNo:	<b>21377</b>					
Prep Date:		Analysis Date:	<b>9/23/2014</b>	SeqNo:	<b>624797</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		101	80	120			

Sample ID	<b>LCS-15402 MK</b>	SampType:	<b>LCS</b>	TestCode:	<b>EPA Method 8021B: Volatiles</b>					
Client ID:	<b>LCSS</b>	Batch ID:	<b>R21377</b>	RunNo:	<b>21377</b>					
Prep Date:		Analysis Date:	<b>9/23/2014</b>	SeqNo:	<b>624798</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.050	1.000	0	102	80	120			
Toluene	1.0	0.050	1.000	0	103	80	120			
Ethylbenzene	1.0	0.050	1.000	0	105	80	120			
Xylenes, Total	3.1	0.10	3.000	0	105	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		110	80	120			

### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

**Sample Log-In Check List**

Client Name: SMA-FARM

Work Order Number: 1409A94

RcptNo: 1

Received by/date: MG 09/23/14

Logged By: Lindsay Mangin 9/23/2014 7:45:00 AM *[Signature]*

Completed By: Lindsay Mangin 9/23/2014 8:49:35 AM *[Signature]*

Reviewed By: CS 09/23/14

**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	1.0	Good	Yes			

# Chain-of-Custody Record

Client: SMA

Mailing Address: 401 W. Broadway  
Farmington, NM 87401

Phone #: 505 325-7535

Email or Fax#: steven.moskal@sandermill.com

A/QC Package:  
 Standard     Level 4 (Full Validation)

Accreditation:  
 NELAP     Other \_\_\_\_\_

EDD (Type) \_\_\_\_\_

Turn-Around Time:  
 Standard     Rush Same Day

Project Name: Lateral 2C-6

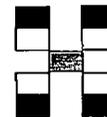
Project #: 5122855 BG 56

Project Manager: Steve Moskal

Sampler: SM

On Ice:  Yes     No

Sample Temperature: 1.0



## HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

### Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	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 <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub> )	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Air Bubbles (Y or N)	
2/4	1040	Soil	SC-5 SW wall @ 0-5'	4oz x 2	cool	1409A94													
	1045		SC-7 SE wall @ 0-5'			-001													
	1047		SC-4 NW wall @ 0-5'			-002													
	1049		SC-8 NW wall @ 0-5'			-003													
	1051		SC-9 Bas @ 5'			-004													
	1053		SC-10 SE Stackpile			-005													
	1055		SC-11 NW Stackpile			-006													
						-007													

date: <u>2/4</u>	Time: <u>1700</u>	Relinquished by: <u>[Signature]</u>	Received by: <u>Christine Walters</u>	Date: <u>2/22/14</u>	Time: <u>1700</u>	Remarks: <u>Invoice to enterprise products</u> <u>copy alicia.patterson@sandermill.com</u>
date: <u>2/4</u>	Time: <u>1740</u>	Relinquished by: <u>Christine Walters</u>	Received by: <u>Michelle [Signature]</u>	Date: <u>02/23/14</u>	Time: <u>0745</u>	

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](http://www.hallenvironmental.com)

September 29, 2014

Steve Moskal  
Souder, Miller and Associates  
401 W. Broadway  
Farmington, NM 87401  
TEL: (505) 325-5667  
FAX

RE: 2C-6

OrderNo.: 1409D20

Dear Steve Moskal:

Hall Environmental Analysis Laboratory received 2 sample(s) on 9/26/2014 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](http://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

**Hall Environmental Analysis Laboratory, Inc.**

CLIENT: Souder, Miller and Associates

Client Sample ID: West Base @ 6'

Project: 2C-6

Collection Date: 9/25/2014 12:00:00 PM

Lab ID: 1409D20-001

Matrix: MEOH (SOIL)

Received Date: 9/26/2014 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BCN</b>
Diesel Range Organics (DRO)	3800	99		mg/Kg	10	9/26/2014 3:19:13 PM	15528
Surr: DNOP	0	57.9-140	S	%REC	10	9/26/2014 3:19:13 PM	15528
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	330	76		mg/Kg	20	9/26/2014 12:26:14 PM	R21487
Surr: BFB	179	80-120	S	%REC	20	9/26/2014 12:26:14 PM	R21487
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	0.42	0.38		mg/Kg	20	9/26/2014 12:26:14 PM	R21487
Toluene	3.1	0.76		mg/Kg	20	9/26/2014 12:26:14 PM	R21487
Ethylbenzene	1.5	0.76		mg/Kg	20	9/26/2014 12:26:14 PM	R21487
Xylenes, Total	12	1.5		mg/Kg	20	9/26/2014 12:26:14 PM	R21487
Surr: 4-Bromofluorobenzene	115	80-120		%REC	20	9/26/2014 12:26:14 PM	R21487

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Souder, Miller and Associates

**Client Sample ID:** East Base @ 7'

**Project:** 2C-6

**Collection Date:** 9/25/2014 12:05:00 PM

**Lab ID:** 1409D20-002

**Matrix:** MEOH (SOIL)

**Received Date:** 9/26/2014 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BCN</b>
Diesel Range Organics (DRO)	62	10		mg/Kg	1	9/26/2014 2:57:42 PM	15528
Surr: DNOP	101	57.9-140		%REC	1	9/26/2014 2:57:42 PM	15528
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	8.6		mg/Kg	2	9/26/2014 12:56:23 PM	R21487
Surr: BFB	102	80-120		%REC	2	9/26/2014 12:56:23 PM	R21487
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.086		mg/Kg	2	9/26/2014 12:56:23 PM	R21487
Toluene	0.090	0.086		mg/Kg	2	9/26/2014 12:56:23 PM	R21487
Ethylbenzene	ND	0.086		mg/Kg	2	9/26/2014 12:56:23 PM	R21487
Xylenes, Total	0.35	0.17		mg/Kg	2	9/26/2014 12:56:23 PM	R21487
Surr: 4-Bromofluorobenzene	108	80-120		%REC	2	9/26/2014 12:56:23 PM	R21487

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

<b>Qualifiers:</b>	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	E Value above quantitation range	H Holding times for preparation or analysis exceeded
	J Analyte detected below quantitation limits	ND Not Detected at the Reporting Limit
	O RSD is greater than RSDlimit	P Sample pH greater than 2.
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S Spike Recovery outside accepted recovery limits	

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1409D20

29-Sep-14

Client: Souder, Miller and Associates

Project: 2C-6

Sample ID	<b>MB-15528</b>	SampType:	<b>MBLK</b>	TestCode:	<b>EPA Method 8015D: Diesel Range Organics</b>					
Client ID:	<b>PBS</b>	Batch ID:	<b>15528</b>	RunNo:	<b>21477</b>					
Prep Date:	<b>9/26/2014</b>	Analysis Date:	<b>9/26/2014</b>	SeqNo:	<b>628039</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	9.5		10.00		94.6	57.9	140			

Sample ID	<b>LCS-15528</b>	SampType:	<b>LCS</b>	TestCode:	<b>EPA Method 8015D: Diesel Range Organics</b>					
Client ID:	<b>LCSS</b>	Batch ID:	<b>15528</b>	RunNo:	<b>21477</b>					
Prep Date:	<b>9/26/2014</b>	Analysis Date:	<b>9/26/2014</b>	SeqNo:	<b>628040</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	10	50.00	0	101	68.6	130			
Surr: DNOP	5.0		5.000		99.0	57.9	140			

## Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1409D20

29-Sep-14

Client: Souder, Miller and Associates

Project: 2C-6

Sample ID	<b>5ML RB</b>	SampType:	<b>MBLK</b>	TestCode:	<b>EPA Method 8015D: Gasoline Range</b>					
Client ID:	<b>PBS</b>	Batch ID:	<b>R21487</b>	RunNo:	<b>21487</b>					
Prep Date:		Analysis Date:	<b>9/26/2014</b>	SeqNo:	<b>628754</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	820		1000		82.2	80	120			

Sample ID	<b>2.5UG GRO LCS</b>	SampType:	<b>LCS</b>	TestCode:	<b>EPA Method 8015D: Gasoline Range</b>					
Client ID:	<b>LCSS</b>	Batch ID:	<b>R21487</b>	RunNo:	<b>21487</b>					
Prep Date:		Analysis Date:	<b>9/26/2014</b>	SeqNo:	<b>628755</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	90.8	65.8	139			
Surr: BFB	900		1000		90.4	80	120			

## Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

**QC SUMMARY REPORT**  
**Hall Environmental Analysis Laboratory, Inc.**

WO#: 1409D20  
 29-Sep-14

**Client:** Souder, Miller and Associates  
**Project:** 2C-6

Sample ID <b>5ML RB</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8021B: Volatiles</b>							
Client ID: <b>PBS</b>	Batch ID: <b>R21487</b>		RunNo: <b>21487</b>							
Prep Date:	Analysis Date: <b>9/26/2014</b>		SeqNo: <b>628788</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.96		1.000		95.9	80	120			

Sample ID <b>100NG BTEX LCS</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8021B: Volatiles</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>R21487</b>		RunNo: <b>21487</b>							
Prep Date:	Analysis Date: <b>9/26/2014</b>		SeqNo: <b>628791</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.050	1.000	0	103	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	104	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		109	80	120			

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit



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

# Sample Log-In Check List

Client Name: SMA-FARM

Work Order Number: 1409D20

RcptNo: 1

Received by/date:	<i>[Signature]</i>	<i>09/26/14</i>
Logged By:	Lindsay Mangin	9/26/2014 8:20:00 AM <i>[Signature]</i>
Completed By:	Lindsay Mangin	9/26/2014 8:50:10 AM <i>[Signature]</i>
Reviewed By:	<i>mg/cs</i>	<i>09/26/14</i>

### Chain of Custody

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

### Log In

- Was an attempt made to cool the samples? Yes  No  NA
- Were all samples received at a temperature of >0° C to 6.0°C Yes  No  NA
- Sample(s) in proper container(s)? Yes  No
- Sufficient sample volume for indicated test(s)? Yes  No
- Are samples (except VOA and ONG) properly preserved? Yes  No
- Was preservative added to bottles? Yes  No  NA
- VOA vials have zero headspace? Yes  No  No VOA Vials
- Were any sample containers received broken? Yes  No
- Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes  No
- Are matrices correctly identified on Chain of Custody? Yes  No
- Is it clear what analyses were requested? Yes  No
- 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)

- 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	1.6	Good	Yes			





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

October 03, 2014

Steve Moskal  
Souder, Miller and Associates  
401 W. Broadway  
Farmington, NM 87401  
TEL: (505) 325-5667  
FAX

RE: Lateral 2C-6

OrderNo.: 1410072

Dear Steve Moskal:

Hall Environmental Analysis Laboratory received 1 sample(s) on 10/2/2014 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](http://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

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Client Sample ID: SC-3 W Base @ 10.5'

Project: Lateral 2C-6

Collection Date: 10/1/2014 12:32:00 PM

Lab ID: 1410072-001

Matrix: SOIL

Received Date: 10/2/2014 6:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BCN</b>
Diesel Range Organics (DRO)	110	9.9		mg/Kg	1	10/2/2014 12:31:28 PM	15671
Surr: DNOP	97.6	57.9-140		%REC	1	10/2/2014 12:31:28 PM	15671
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	22		mg/Kg	5	10/2/2014 10:29:53 AM	R21609
Surr: BFB	94.7	80-120		%REC	5	10/2/2014 10:29:53 AM	R21609
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.11		mg/Kg	5	10/2/2014 10:29:53 AM	R21609
Toluene	ND	0.22		mg/Kg	5	10/2/2014 10:29:53 AM	R21609
Ethylbenzene	ND	0.22		mg/Kg	5	10/2/2014 10:29:53 AM	R21609
Xylenes, Total	ND	0.44		mg/Kg	5	10/2/2014 10:29:53 AM	R21609
Surr: 4-Bromofluorobenzene	95.9	80-120		%REC	5	10/2/2014 10:29:53 AM	R21609

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1410072

03-Oct-14

Client: Souder, Miller and Associates

Project: Lateral 2C-6

Sample ID	<b>MB-15671</b>	SampType:	<b>MBLK</b>	TestCode:	<b>EPA Method 8015D: Diesel Range Organics</b>					
Client ID:	<b>PBS</b>	Batch ID:	<b>15671</b>	RunNo:	<b>21605</b>					
Prep Date:	<b>10/2/2014</b>	Analysis Date:	<b>10/2/2014</b>	SeqNo:	<b>633783</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	8.7		10.00		87.2	57.9	140			

Sample ID	<b>LCS-15671</b>	SampType:	<b>LCS</b>	TestCode:	<b>EPA Method 8015D: Diesel Range Organics</b>					
Client ID:	<b>LCSS</b>	Batch ID:	<b>15671</b>	RunNo:	<b>21605</b>					
Prep Date:	<b>10/2/2014</b>	Analysis Date:	<b>10/2/2014</b>	SeqNo:	<b>633858</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	95.7	68.6	130			
Surr: DNOP	4.3		5.000		85.5	57.9	140			

### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1410072

03-Oct-14

Client: Souder, Miller and Associates

Project: Lateral 2C-6

Sample ID	<b>MB-15650 MK</b>	SampType:	<b>MBLK</b>	TestCode:	<b>EPA Method 8015D: Gasoline Range</b>					
Client ID:	<b>PBS</b>	Batch ID:	<b>R21609</b>	RunNo:	<b>21609</b>					
Prep Date:		Analysis Date:	<b>10/2/2014</b>	SeqNo:	<b>634279</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	900		1000		90.0	80	120			

Sample ID	<b>LCS-15650 MK</b>	SampType:	<b>LCS</b>	TestCode:	<b>EPA Method 8015D: Gasoline Range</b>					
Client ID:	<b>LCSS</b>	Batch ID:	<b>R21609</b>	RunNo:	<b>21609</b>					
Prep Date:		Analysis Date:	<b>10/2/2014</b>	SeqNo:	<b>634280</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	104	65.8	139			
Surr: BFB	980		1000		98.2	80	120			

Sample ID	<b>B26</b>	SampType:	<b>MBLK</b>	TestCode:	<b>EPA Method 8015D: Gasoline Range</b>					
Client ID:	<b>PBS</b>	Batch ID:	<b>R21609</b>	RunNo:	<b>21609</b>					
Prep Date:		Analysis Date:	<b>10/2/2014</b>	SeqNo:	<b>634288</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	900		1000		89.8	80	120			

Sample ID	<b>2.5UG GRO LCS</b>	SampType:	<b>LCS</b>	TestCode:	<b>EPA Method 8015D: Gasoline Range</b>					
Client ID:	<b>LCSS</b>	Batch ID:	<b>R21609</b>	RunNo:	<b>21609</b>					
Prep Date:		Analysis Date:	<b>10/2/2014</b>	SeqNo:	<b>634289</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	100	65.8	139			
Surr: BFB	970		1000		97.2	80	120			

### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1410072

03-Oct-14

**Client:** Souder, Miller and Associates  
**Project:** Lateral 2C-6

Sample ID	<b>MB-15650 MK</b>	SampType:	<b>MBLK</b>	TestCode:	<b>EPA Method 8021B: Volatiles</b>					
Client ID:	<b>PBS</b>	Batch ID:	<b>R21609</b>	RunNo:	<b>21609</b>					
Prep Date:		Analysis Date:	<b>10/2/2014</b>	SeqNo:	<b>634339</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.95		1.000		94.6	80	120			

Sample ID	<b>LCS-15650 MK</b>	SampType:	<b>LCS</b>	TestCode:	<b>EPA Method 8021B: Volatiles</b>					
Client ID:	<b>LCSS</b>	Batch ID:	<b>R21609</b>	RunNo:	<b>21609</b>					
Prep Date:		Analysis Date:	<b>10/2/2014</b>	SeqNo:	<b>634350</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.99	0.050	1.000	0	99.0	80	120			
Toluene	0.97	0.050	1.000	0	97.1	80	120			
Ethylbenzene	0.99	0.050	1.000	0	99.2	80	120			
Xylenes, Total	2.9	0.10	3.000	0	97.9	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		100	80	120			

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

Client Name: SMA-FARM

Work Order Number: 1410072

RcptNo: 1

Received by/date: CM 10/02/14

Logged By: **Anne Thome** 10/2/2014 6:50:00 AM *Anne Thome*

Completed By: **Anne Thome** 10/2/2014 *Anne Thome*

Reviewed By: *AT* 10/02/14

**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:  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	1.3	Good	Yes			

**Chain-of-Custody Record**

Client: SMA

Mailing Address: 401 West Broadway  
Farmington NM 87401  
Phone #: 505 325 7535

email or Fax#: steve.moskal@sandmillers.com  
QA/QC Package:  
 Standard  Level 4 (Full Validation)

Accreditation  
 NELAP  Other  
 EDD (Type)

Turn-Around Time:

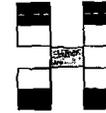
Standard  Rush *Same Day*

Project Name:  
*Lateral 2c-6*

Project #:  
*522855*

Project Manager:  
*Steve Moskal*

Sampler: *J. Sprague*  
On Ice:  Yes  No  
Sample Temperature: *1.3*



**HALL ENVIRONMENTAL ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

**Analysis Request**

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX + MTBE + TPH's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO/DRO/MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F, Cl, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub> )	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Air Bubbles (Y or N)	
10/1	1232	Soil	SC-3 w. base @ 10.5'	At 10.5' / 14oz	-	1410072	X	X											

Date: 9/1/14 Time: 1650 Relinquished by: *[Signature]*

Received by: *[Signature]* Date: 10/1/14 Time: 1650

Remarks: Invoice Enterprise

Date: 10/1/14 Time: 1815 Relinquished by: *[Signature]*

Received by: *[Signature]* Date: 10/02/14 Time: 0650

Please copy Aticia.patterson@sandmillers.com

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](http://www.hallenvironmental.com)

October 07, 2014

Steve Moskal  
Souder, Miller and Associates  
401 W. Broadway  
Farmington, NM 87401  
TEL: (505) 325-5667  
FAX

RE: Lateral 2C 6

OrderNo.: 1410218

Dear Steve Moskal:

Hall Environmental Analysis Laboratory received 3 sample(s) on 10/4/2014 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](http://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

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report  
 Lab Order 1410218  
 Date Reported: 10/7/2014

CLIENT: Souder, Miller and Associates

Client Sample ID: W Wall @ 5-10'

Project: Lateral 2C 6

Collection Date: 10/3/2014 2:10:00 PM

Lab ID: 1410218-001

Matrix: MEOH (SOIL)

Received Date: 10/4/2014 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BCN</b>
Diesel Range Organics (DRO)	11	10		mg/Kg	1	10/6/2014 12:04:10 PM	15713
Surr: DNOP	88.2	57.9-140		%REC	1	10/6/2014 12:04:10 PM	15713
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.1		mg/Kg	1	10/6/2014 7:23:54 PM	R21689
Surr: BFB	82.2	80-120		%REC	1	10/6/2014 7:23:54 PM	R21689
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.041		mg/Kg	1	10/6/2014 11:51:27 AM	R21689
Toluene	ND	0.041		mg/Kg	1	10/6/2014 11:51:27 AM	R21689
Ethylbenzene	ND	0.041		mg/Kg	1	10/6/2014 11:51:27 AM	R21689
Xylenes, Total	ND	0.081		mg/Kg	1	10/6/2014 11:51:27 AM	R21689
Surr: 4-Bromofluorobenzene	89.6	80-120		%REC	1	10/6/2014 11:51:27 AM	R21689

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	Page 1 of 6
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	Spike Recovery outside accepted recovery limits			

**Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Souder, Miller and Associates**Client Sample ID:** NW Wall @ 5-10'**Project:** Lateral 2C 6**Collection Date:** 10/3/2014 2:12:00 PM**Lab ID:** 1410218-002**Matrix:** MEOH (SOIL)**Received Date:** 10/4/2014 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BCN</b>
Diesel Range Organics (DRO)	290	10		mg/Kg	1	10/6/2014 12:34:27 PM	15713
Surr: DNOP	84.3	57.9-140		%REC	1	10/6/2014 12:34:27 PM	15713
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	19	4.1		mg/Kg	1	10/6/2014 12:21:26 PM	R21689
Surr: BFB	183	80-120	S	%REC	1	10/6/2014 12:21:26 PM	R21689
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.041		mg/Kg	1	10/6/2014 12:21:26 PM	R21689
Toluene	0.057	0.041		mg/Kg	1	10/6/2014 12:21:26 PM	R21689
Ethylbenzene	0.12	0.041		mg/Kg	1	10/6/2014 12:21:26 PM	R21689
Xylenes, Total	1.2	0.082		mg/Kg	1	10/6/2014 12:21:26 PM	R21689
Surr: 4-Bromofluorobenzene	120	80-120	S	%REC	1	10/6/2014 12:21:26 PM	R21689

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

# Hall Environmental Analysis Laboratory, Inc.

**Analytical Report**  
 Lab Order 1410218  
 Date Reported: 10/7/2014

**CLIENT:** Souder, Miller and Associates

**Client Sample ID:** SW Wall @ 5-10'

**Project:** Lateral 2C 6

**Collection Date:** 10/3/2014 2:14:00 PM

**Lab ID:** 1410218-003

**Matrix:** MEOH (SOIL)

**Received Date:** 10/4/2014 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BCN</b>
Diesel Range Organics (DRO)	120	10		mg/Kg	1	10/6/2014 1:04:28 PM	15713
Surr: DNOP	79.6	57.9-140		%REC	1	10/6/2014 1:04:28 PM	15713
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	3.8		mg/Kg	1	10/6/2014 12:51:44 PM	R21689
Surr: BFB	95.6	80-120		%REC	1	10/6/2014 12:51:44 PM	R21689
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.038		mg/Kg	1	10/6/2014 12:51:44 PM	R21689
Toluene	ND	0.038		mg/Kg	1	10/6/2014 12:51:44 PM	R21689
Ethylbenzene	ND	0.038		mg/Kg	1	10/6/2014 12:51:44 PM	R21689
Xylenes, Total	ND	0.075		mg/Kg	1	10/6/2014 12:51:44 PM	R21689
Surr: 4-Bromofluorobenzene	111	80-120		%REC	1	10/6/2014 12:51:44 PM	R21689

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1410218

07-Oct-14

**Client:** Souder, Miller and Associates

**Project:** Lateral 2C 6

Sample ID <b>MB-15713</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015D: Diesel Range Organics</b>							
Client ID: <b>PBS</b>	Batch ID: <b>15713</b>		RunNo: <b>21668</b>							
Prep Date: <b>10/4/2014</b>	Analysis Date: <b>10/6/2014</b>		SeqNo: <b>635830</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	6.8		10.00		67.5	57.9	140			

Sample ID <b>MB-15711</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015D: Diesel Range Organics</b>							
Client ID: <b>PBS</b>	Batch ID: <b>15711</b>		RunNo: <b>21668</b>							
Prep Date: <b>10/4/2014</b>	Analysis Date: <b>10/6/2014</b>		SeqNo: <b>636214</b>		Units: <b>%REC</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	7.9		10.00		79.2	57.9	140			

Sample ID <b>LCS-15711</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015D: Diesel Range Organics</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>15711</b>		RunNo: <b>21668</b>							
Prep Date: <b>10/4/2014</b>	Analysis Date: <b>10/6/2014</b>		SeqNo: <b>636215</b>		Units: <b>%REC</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.1		5.000		81.1	57.9	140			

Sample ID <b>LCS-15713</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015D: Diesel Range Organics</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>15713</b>		RunNo: <b>21668</b>							
Prep Date: <b>10/4/2014</b>	Analysis Date: <b>10/6/2014</b>		SeqNo: <b>636216</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	10	50.00	0	86.6	68.6	130			
Surr: DNOP	3.2		5.000		64.2	57.9	140			

Sample ID <b>MB-15755</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015D: Diesel Range Organics</b>							
Client ID: <b>PBS</b>	Batch ID: <b>15755</b>		RunNo: <b>21712</b>							
Prep Date: <b>10/7/2014</b>	Analysis Date: <b>10/7/2014</b>		SeqNo: <b>637426</b>		Units: <b>%REC</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	7.5		10.00		75.4	57.9	140			

Sample ID <b>LCS-15755</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015D: Diesel Range Organics</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>15755</b>		RunNo: <b>21712</b>							
Prep Date: <b>10/7/2014</b>	Analysis Date: <b>10/7/2014</b>		SeqNo: <b>637427</b>		Units: <b>%REC</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.2		5.000		84.2	57.9	140			

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1410218

07-Oct-14

Client: Souder, Miller and Associates

Project: Lateral 2C 6

Sample ID: <b>5ML RB</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>R21689</b>	RunNo: <b>21689</b>								
Prep Date:	Analysis Date: <b>10/6/2014</b>	SeqNo: <b>636886</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	840		1000		83.6	80	120			

Sample ID: <b>2.5UG GRO LCS</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>R21689</b>	RunNo: <b>21689</b>								
Prep Date:	Analysis Date: <b>10/6/2014</b>	SeqNo: <b>636887</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	95.2	65.8	139			
Surr: BFB	990		1000		98.8	80	120			

## Qualifiers:

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- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1410218

07-Oct-14

Client: Souder, Miller and Associates

Project: Lateral 2C 6

Sample ID	<b>5ML RB</b>	SampType:	<b>MBLK</b>	TestCode:	<b>EPA Method 8021B: Volatiles</b>					
Client ID:	<b>PBS</b>	Batch ID:	<b>R21689</b>	RunNo:	<b>21689</b>					
Prep Date:		Analysis Date:	<b>10/6/2014</b>	SeqNo:	<b>636911</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.92		1.000		92.1	80	120			

Sample ID	<b>100NG BTEX LCS</b>	SampType:	<b>LCS</b>	TestCode:	<b>EPA Method 8021B: Volatiles</b>					
Client ID:	<b>LCSS</b>	Batch ID:	<b>R21689</b>	RunNo:	<b>21689</b>					
Prep Date:		Analysis Date:	<b>10/6/2014</b>	SeqNo:	<b>636912</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.050	1.000	0	105	80	120			
Toluene	1.0	0.050	1.000	0	103	80	120			
Ethylbenzene	1.0	0.050	1.000	0	103	80	120			
Xylenes, Total	3.2	0.10	3.000	0	106	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	80	120			

### Qualifiers:

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- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

**Sample Log-In Check List**

Client Name: SMA-FARM

Work Order Number: 1410218

RcptNo: 1

Received by/date: [Signature] 10/04/14

Logged By: Lindsay Mangin 10/4/2014 7:00:00 AM [Signature]

Completed By: Lindsay Mangin 10/4/2014 8:53:41 AM [Signature]

Reviewed By: [Signature] 10/04/14

**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	1.3	Good	Yes			

# Chain-of-Custody Record

Client: SMA

Mailing Address: 401 W. Broadway  
Farmington NM 89401

Phone #: 505-325-9535

email or Fax#: sa@enr.metal@saudemiller.com

QA/QC Package:  
 Standard       Level 4 (Full Validation)

Accreditation  
 NELAP       Other \_\_\_\_\_

EDD (Type) \_\_\_\_\_

Turn-Around Time:  
 Standard       Rush Same Day

Project Name: Lateral 2C-6

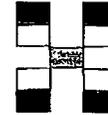
Project #: 5122855

Project Manager: Steve Mastal

Sampler: 11 u

On Ice:  Yes       No

Sample Temperature: 1.3



## HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

### Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX + MTBE + TMS (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DBO / AMRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F, Cl, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub> )	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Air Bubbles (Y or N)
10/3/14	1410	Soil	W uam @ 5-10'	4oz X1	Cool	-001	X	X	X									
↓	1412	↓	NW uam @ 5-10'	↓	↓	-002	X	X	X									
↓	1414	↓	SW uam @ 5-10'	↓	↓	-003	X	X	X									

Date: 10/3/14 Time: 1630 Relinquished by: [Signature]

Received by: [Signature] Date: 10/3/14 Time: 1630

Date: 10/3/14 Time: 1745 Relinquished by: [Signature]

Received by: [Signature] Date: 10/04/14 Time: 0700

Remarks:  
 - Invoice to Enterprise Products  
 - Copy alicia.patterson@saudemiller.com

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.