

NM1 - ____10 B____

**Concrete
Impoundment
Closure
Report**

June 26, 2015

Jones, Brad A., EMNRD

From: Smith, Cory, EMNRD
Sent: Friday, August 21, 2015 11:31 AM
To: Marcella Marquez
Cc: Powell, Brandon, EMNRD; Jones, Brad A., EMNRD
Subject: RE: C-141

Marcella,

The C-141 has been approved.

It has been sent for scanning and should appear in the NM1-10-B online file after it has been scanned.

Thank you,

Cory Smith
Environmental Specialist
Oil Conservation Division
Energy, Minerals, & Natural Resources
1000 Rio Brazos, Aztec, NM 87410
(505)334-6178 ext 115
cory.smith@state.nm.us

From: Marcella Marquez [mailto:marcella@industrialecosystems.com]
Sent: Thursday, August 06, 2015 3:53 PM
To: Smith, Cory, EMNRD
Subject: C-141
Importance: High

Cory:

Have you had a chance to review the C141 form I dropped off at your office?

*Thanks,
Marcella Marquez, HSE Administrator
Industrial Ecosystems, Inc.
Phone: (505) 632-1782
Fax: (505) 632-1876 or (505) 334-1003*

Jones, Brad A., EMNRD

From: Marcella Marquez <marcella@industrialecosystems.com>
Sent: Friday, June 26, 2015 9:11 AM
To: Jones, Brad A., EMNRD
Subject: Concrete Impoundment Closure
Attachments: Concrete Impoundment Closure Report FINAL 062516.pdf

Importance: High

Brad:

For NMOCD records, attached please find the final report for closure of the JFJ Landfarm Concrete Impoundment.

*Thanks,
Marcella Marquez, HSE Administrator
Industrial Ecosystems, Inc.
Phone: (505) 632-1782
Fax: (505) 632-1876 or (505) 334-1003*



June 25, 2015

SMA #5122921

Ms. Marcella Marquez
Industrial Ecosystems Inc.
PO Box 2043
Farmington, New Mexico 87499

**RE: LETTER REPORT SUMMARIZING THE CONCRETE IMPOUNDMENT SOIL
SAMPLING ACTIVITIES AT THE JFJ LANDFARM (PERMIT # NM01-0010B),
49 ROAD 3150 AZTEC, SAN JUAN COUNTY, NEW MEXICO**

Dear Ms. Marquez:

Souder, Miller & Associates (SMA) has prepared this letter report on behalf of Industrial Ecosystems Inc. (IEI). The report is intended as a request for approval from the New Mexico Oil Conservation Division (NMOCD) for closure of the concrete solidification impoundment structure. This report summarizes the sampling of the concrete impoundment located at the IEI JFJ Landfarm. The site is located in Section 2, T29N R12W, San Juan County, New Mexico.

1.0 CONCRETE IMPOUNDMENT HISTORY AND CLOSURE

IEI operated a concrete impoundment to receive and solidify pit bottoms and approved sludge materials and mud. The concrete impoundment featured a concrete floor and concrete containment sidewalls approximately 4 feet in height. The total area of the impoundment is 1200 ft², measuring 50 feet long by 24 feet wide. The concrete floor and walls measured approximately 8 inches thick.

This letter and attachments serve to provide documentation to NMOCD for approval to close the concrete impoundment located on the facility. Closure of the concrete impoundment includes removal of the concrete slab/walls, synthetic liner beneath the slab, and any soils below the impoundment and liner which have significant impacts. The approved closure plan proposes to dispose of the concrete impoundment at an approved solid waste landfill, pursuant to Part 19.15.35.8 NMAC. A copy of the JFJ Landfarm Closure Plan is included in Appendix A.

In late January 2014, the concrete impoundment was pressure washed and rinsate was collected with a King Vacuum truck. The rinsate was solidified to comply with paint filter testing and tested for chloride concentration standards prior to being placed into an IEI biopile for remediation.

On February 4, 2014, SMA mobilized to the site to field screen and collect concrete samples for laboratory analysis from the concrete impoundment floors and walls. A calibrated GSM-525 Analog Survey Meter was used to conduct NORM screening across all exposed wall faces and

floor surfaces of the concrete impoundment. A background reading was also taken and recorded at the facility away from the concrete impoundment. The background reading registered 0.04 counts per minute (CPM). The highest registered reading of the NORM survey was on the outside of the northwest portion of the impoundment wall, registering 0.06 CPM, within the NMOCD criteria of 1.5 times the background reading. A copy of the GSM-525 survey meter calibration record is in Appendix B. Figure 1 depicts the NORM screening locations and results.

Samples were collected from the surface of concrete impoundment floor and walls. The samples were collected using a hammer and chisel to break chips from various locations of the concrete surfaces. The concrete chips were collected in laboratory provided glassware and submitted to Hall Environmental Analytical Laboratory in Albuquerque, NM for the following analytical suite:

- TPH (EPA 8015)
- BTEX (EPA 8021B)
- RCRA 8 metals (TCLP, EPA 6010)

The initial laboratory results did not meet NMOCD's requirements for total petroleum hydrocarbons (TPH), specifically for diesel range organics (DRO). NMOCD's standard for TPH is 1,000 mg/kg. Benzene, toluene, ethylbenzene and the RCRA 8 metals were below laboratory detection limits. Total xylenes had minimal concentrations in the northeast wall and north floor samples (0.34 and 0.29 mg/kg, respectively). As a result of the laboratory results, a second attempt at cleaning the concrete impoundment surface and subsequent sampling event for TPH was requested by NMOCD. The laboratory report from this sampling event, dated February 11, 2014, is attached in Appendix C. Again, the sample results did not satisfy the NMOCD disposal requirements.

2.0 SUMMARY OF CONCRETE IMPOUNDMENT SAMPLING

Following the request of the NMOCD to clean the concrete impoundment a third time, IEI employed a 5000 psi pressure washer, using only water, to remove the TPH contaminants in February, 2014. The rinsate from the power washing was collected with a King Vacuum truck. The rinsate was solidified to comply with paint filter testing and tested for chloride concentration standards prior to being placed into a biopile for remediation.

On March 10, 2014, SMA mobilized to the IEI facility to collect composite laboratory samples from the concrete impoundment floors and walls using a hammer and chisel. Concrete chips and powder were collected from the concrete impoundment surface. A composite sample was collected from each concrete wall section from the inner and outer faces, including the center dividing wall (5), and from each of the north and south floor surfaces (2).

IEI demolished the concrete structure's component walls and bases to collect representative composite samples including enveloped material, from the interior of the concrete slabs. The structure was demolished during the week of March 24, 2014 and composite closure samples were collected from the broken faces of the concrete rubble that had been stockpiled in designed piles in relation to the structure's component walls and bases. In all, 7 composite samples were collected in laboratory provided glassware and submitted Hall Analytical Environmental Laboratory in Albuquerque, NM for analysis for only TPH (EPA 8015). The laboratory report from this sampling event, dated March 31, 2014, is attached in Appendix C.

Laboratory results from the third sampling event indicate that concentrations of total petroleum hydrocarbons were elevated in all samples (340-3500 mg/kg). Table 1 summarizes all of the laboratory results, from the three sampling events, and a copy of the recent laboratory report, dated April 1, 2014, is also attached in Appendix C.

Bondad Landfill located near the New Mexico and Colorado border, south of Durango, CO, was contacted about acceptance of the concrete debris. Bondad Landfill agreed to accept the concrete given approval from the NMOCD. The NMOCD issued an approval letter and the concrete waste was transported to the landfill for disposal during the month of December, 2014. A copy of the concrete disposal approval letter issued by the NMOCD is attached in Appendix D. Bill of ladings documenting the concrete disposal at the Bondad Landfill are included in Appendix E.

3.0 CONCRETE IMPOUNDMENT SOIL SAMPLING

Pursuant of the referenced JFJ Closure Plan, the soil beneath the concrete impoundment was to be excavated to remove contaminants of concern. On March 24, 2015, SMA along with NMOCD witnessed the excavation of the soils from below the concrete impoundment. The footprint of the impoundment was divided equally into two portions, the north and the south. SMA field screened the excavation using a properly calibrated Photoionization Detector (PID) and a Petroflag Unit for Total Petroleum Hydrocarbons. SMA and NMOCD discussed and agreed that visual and olfactory observations and PID results below 50 ppm would be sufficient to determine the extent of the excavation necessary. PID and Petroflag field screening results are included in Table 2. The area was excavated to approximately 1.5 to 2.0 feet below existing grade. One five-point composite sample was collected from each of the two segments and submitted for laboratory analysis to HEAL for analysis via the following methods:

- TPH for gasoline, diesel and motor oil range organics (GRO/DRO/MRO) (EPA 8015)
- BTEX for benzene, toluene, ethylbenzene and total xylenes (EPA 8021B)

The laboratory results for the north composite were below laboratory detection limits for all analyses. The laboratory results for the south composite sample was 52 mg/kg for DRO, 330 mg/kg for MRO and below laboratory detection limits for all other analyses. The laboratory report was submitted to the NMOCD District III Office. Based on the laboratory results, the NMOCD District Office approved closure of the impoundment based on meeting the requirements of NMAC 19.15.29. An email correspondence documenting the approval from Cory Smith of the NMOCD District III Office is included in Appendix E. However, IEI elected to continue excavation of the soil until non-detect laboratory samples were obtained.

SMA returned to the excavation on May 11, 2015 to continue to oversee excavation of the south segment of the impoundment footprint. One five-point composite sample was collected at approximately 3.0 feet below the original grade and submitted to HEAL for the same laboratory analytical suite as before. The laboratory results were below detection limits for all analytes. Soil laboratory results are included in Table 3 and a sample location map is included as Figure 2. All excavated soils were placed into a biopile for remediation, upon meeting JFJ Landfarm's waste acceptance protocols for paint filter and chloride concentration testing. Photographic documentation of the March 24 and May 11, 2015 sampling events are included in Appendix G.

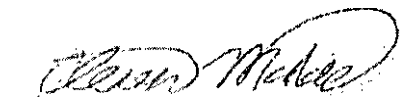
The backfill of the excavated area was completed on June 24, 2015. Virgin soils from a nearby Cell #4 were used to during the backfill process. Figure 3 depicts the concrete impoundment, with coordinates for each corner, and the location of the Cell #4 borrow area.

4.0 RECOMMENDATIONS

Based on disposal of the concrete and liner as well as non-detect laboratory results for the final the soil samples collected from the excavation, SMA recommends closure approval of the concrete impoundment located at JFJ Landfarm pursuant of the referenced closure plan.

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

Sincerely,
Souder, Miller & Associates



Steve Moskal
Project Scientist



Reid S. Allan, P.G.
Principal Scientist

cc w/ attachments: Mr. Jim Griswold, NM Oil Conservation Division, 1220 S. St. Francis Drive, Santa Fe, NM 87505

Attachments:

Table 1: Summary of Concrete Laboratory Analysis

Table 2: Summary of Soil Field Screening Results

Table 3: Summary of Soil Laboratory Analysis

Figure 1: NORM Screening Results

Figure 2: Closure Soil Sample Map

Figure 3: Concrete Impoundment and Borrow Area Location

Appendix A: JFJ Landfarm Concrete Impoundment Closure Plan

Appendix B: GSM-525 survey meter calibration record

Appendix C: Laboratory Reports

Appendix D: Disposal of Petroleum-Contaminated Concrete Approval Letter

Appendix E: Concrete Disposal Documentation

Appendix F: Email Correspondence Regarding Closure Approval

Appendix G: Photographic Documentation

SMA #5122921 BG 2
6/25/2015

[illegible]

Table 2:
Soil Field Screening Results Summary

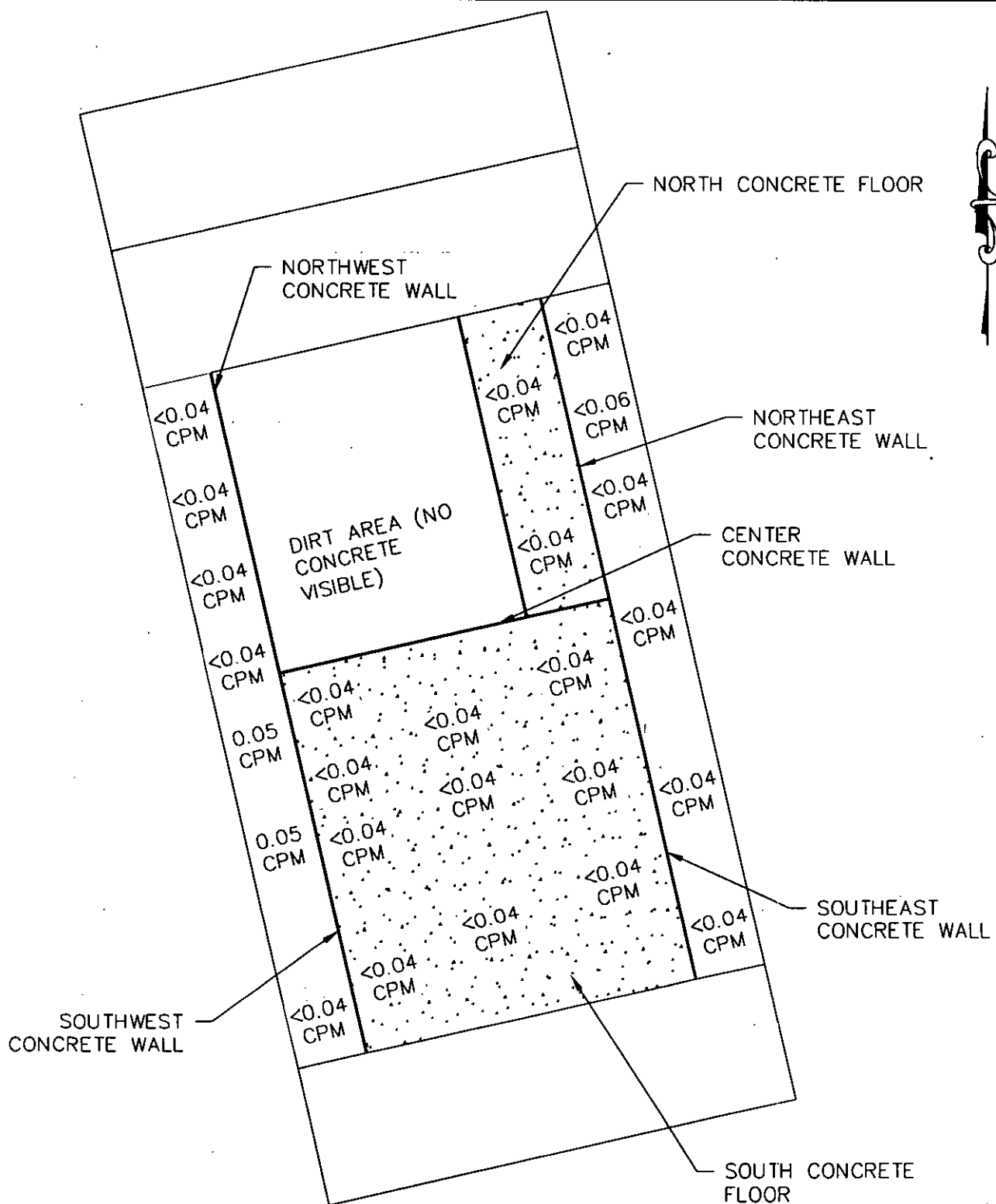
SMA# 5122921 BG 2
6/25/2015

Industrial Ecosystems Inc. Concrete Impoundment Soil Field Screening					
Date	Location	Time Collected	Time Screened	PID Results	Petroflag (TPH)
3/24/2015	North 1st 1/4	9:45	10:02	0.7	68
3/24/2015	NW Base	9:55	10:03	0.5	
3/24/2015	North 2nd 1/4	10:16	10:35	2.4	
3/24/2015	South 3rd 1/4	10:45	10:59	4.1	441
3/24/2015	South 4th 1/4	11:05	11:22	5.2	
5/11/2015	SC-1 S Base	9:25	9:35	4.4	821
5/11/2015	SC-1 S Base	9:45	9:55	N/A	2

Table 3:
Soil Laboratory Results Summary

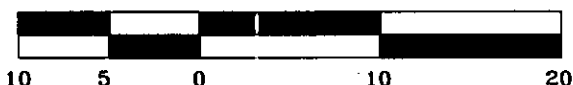
SMA # 5122921 BG 2
6/25/2015

Industrial Ecosystems Inc. Concrete Impoundment Soil Sampling										
Date	Location	Time	Petroflag (TPH)	BTEX (mg/kg)				Total Petroleum Hydrocarbon		
				Benzene	Toluene	Ethylben- zene	Xylene	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Range Organics (MRO)
3/24/2015	North SC	11:30	68	<0.049	<0.049	<0.049	<0.098	<4.9	<10	<50
3/24/2015	South SC	11:37	441	<0.048	<0.048	<0.048	<0.095	<4.8	52	330
5/11/2015	SC-1 S Base	9:45	821	<0.049	<0.049	<0.049	<0.097	<4.9	<9.8	<49



BACKGROUND READING 0.04
COUNTS PER MINUTE (CMP)

SCALE: 1" = 10'

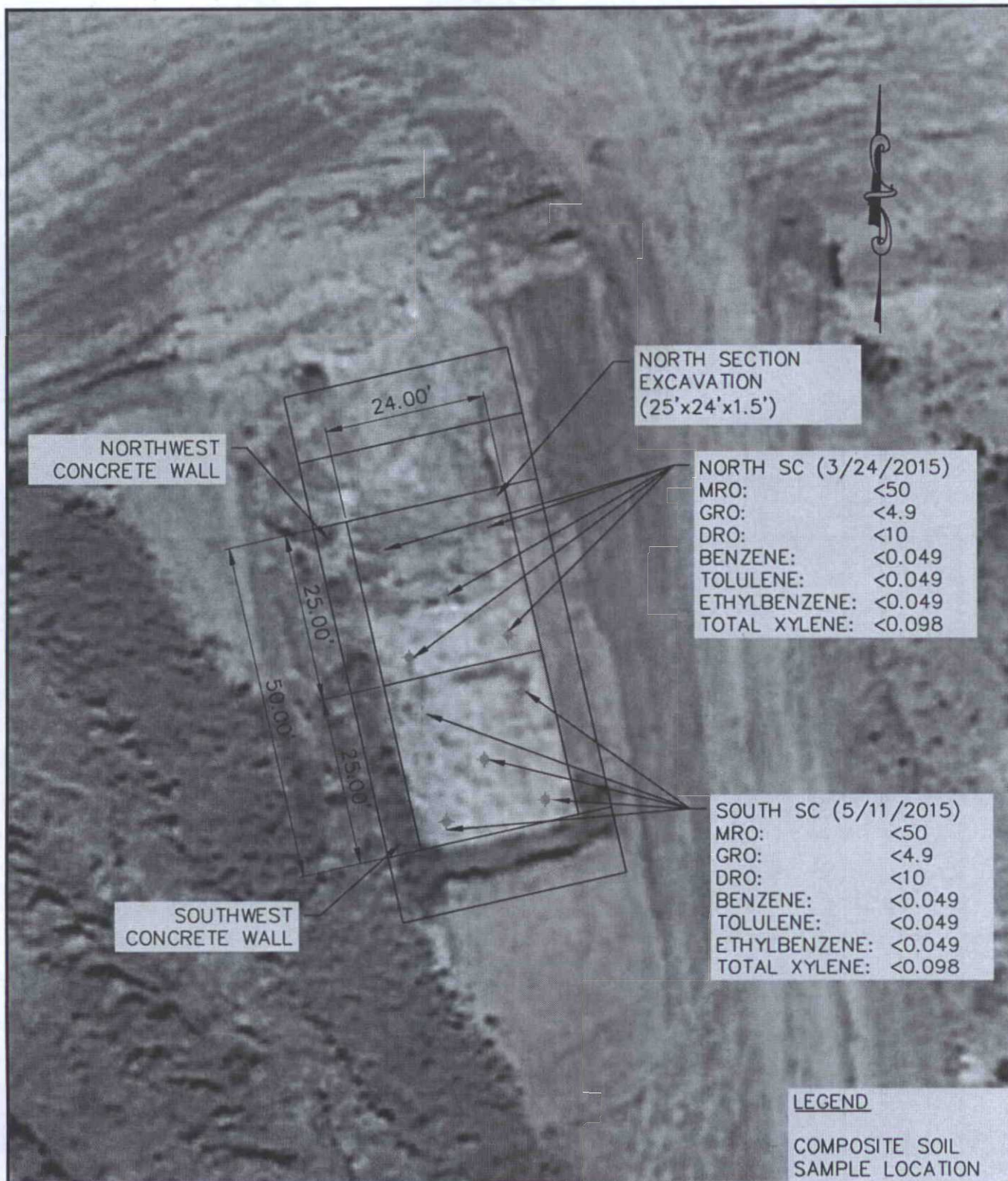


Souder, Miller & Associates
401 West Broadway Avenue
Farmington, NM 87401-5907
Phone (505) 325-7535 Toll-Free (800) 519-0098 Fax (505) 326-0045
www.soudermiller.com
Serving the Southwest & Rocky Mountains

INDUSTRIAL ECOSYSTEMS INC. SAN JUAN COUNTY, NEW MEXICO

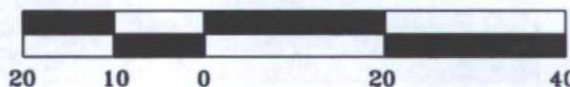
CONCRETE IMPOUNDMENT CLOSURE NORMS SCREENING RESULTS

Designed SM	Drawn GJF	Checked RSA
Date: May 2015		
Scale: Horiz: 1" = 10'		
Vert: NA		
Project No: 5122921		
Figure 1		



NOTE:
ALL SAMPLE RESULTS REPORTED IN mg/kg.

SCALE: 1" = 20'

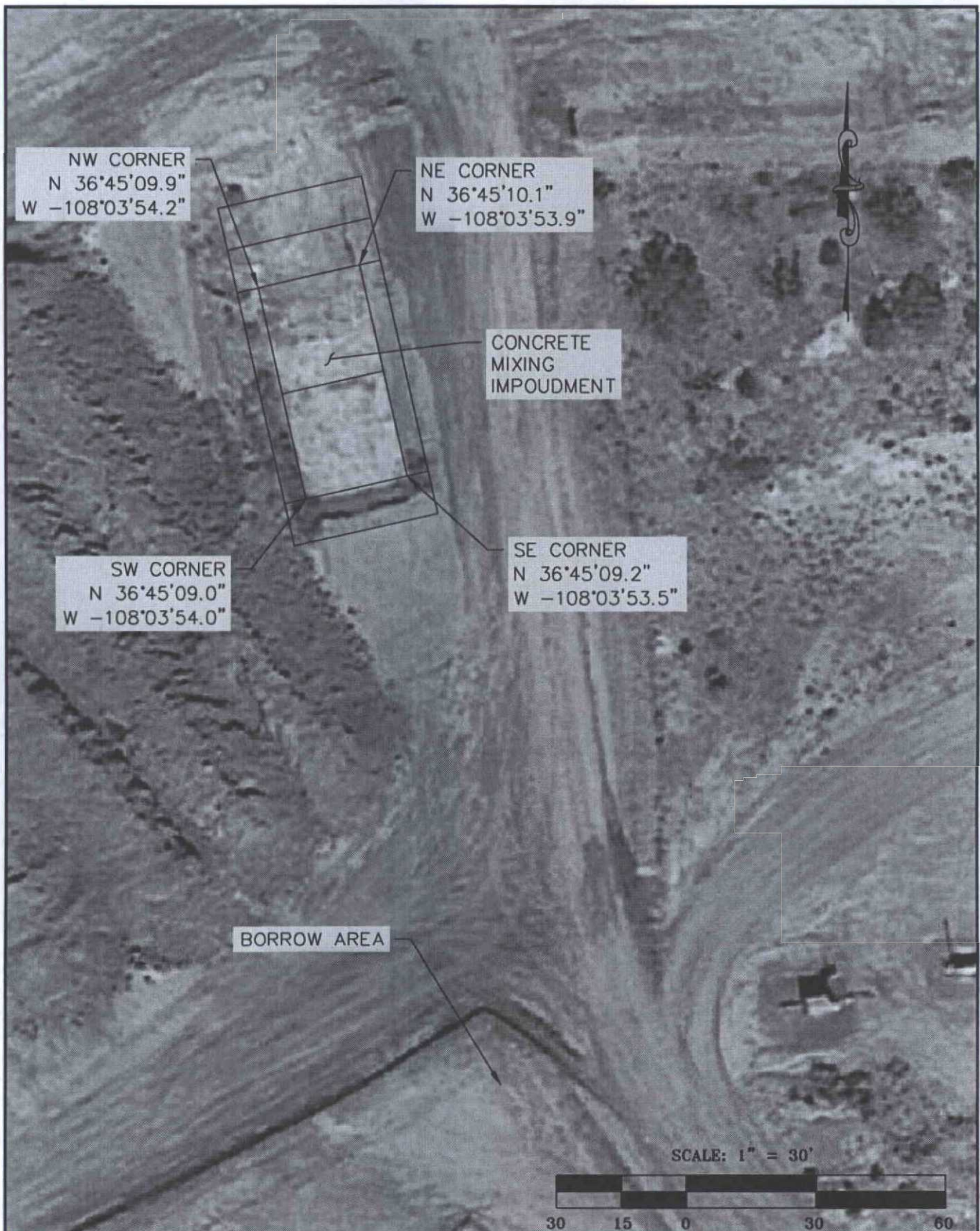


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INDUSTRIAL ECOSYSTEMS INC. SAN JUAN COUNTY, NEW MEXICO

**CONCRETE IMPOUNDMENT CLOSURE
SOIL SAMPLING LOCATIONS**

Designed AEP	Drawn GJF	Checked RSA
Date: May 2015		
Scale: Horiz: 1" = 20'		
Vert: NA		
Project No: 5122921		
Figure 2		



 <p>Souder, Miller & Associates 401 West Broadway Avenue Farmington, NM 87401-5907 Phone (505) 325-7535 Toll-Free (800) 519-0098 Fax (505) 326-0045 www.soudermiller.com Serving the Southwest & Rocky Mountains</p>	IEI FARMINGTON, NEW MEXICO		Designed AEP	Drawn GJF	Checked RSA
	CONCRETE IMPOUNDMENT AND BORROW AREA LOCATION				
	JUNE 24, 2015				
	Date: June 2015				
	Scale: Horiz: 1" = 30' Vert: NA				
Project No: 5122921					
Figure 3					

APPENDIX A

JFJ Landfarm (Permit # NM01-0010B) CONCRETE IMPOUNDMENT CLOSURE PLAN

JFJ Landfarm (Permit # NM01-0010B) CONCRETE IMPOUNDMENT CLOSURE PLAN

The JFJ Landfarm operated by Industrial Ecosystems, Inc. is submitting the following Closure Plan to OCD for approval to close and dismantle the concrete impoundment (bottoms/sludge/mud receiving area) located on the facility. Dismantling of the concrete impoundment will not occur until approval has been obtained from OCD. This plan will also serve as notice pursuant to 19.15.36.18.A NMAC with the proposed schedule specified in the following plan.

Closure of the concrete impoundment includes removal of the concrete slab/walls, liner beneath the slab, and any soils below the liner which have been impacted.

Any residual waste inside of the concrete impoundment will be removed and placed into a biopile (estimated ½ day) for remediation upon meeting the waste acceptance protocols for paint filter and chloride concentration testing. Waste not meeting the paint filter test will be solidified and retested for chlorides and paint filter prior to being placed into a biopile. Waste not meeting chloride concentration standards will be transported off-site, with proper manifest C-138 form, to a division-approved SWMF or approval to dispose of at San Juan County landfill will be obtained pursuant to Part 19.15.35.8 NMAC.

In accordance with 19.15.35.8 NMAC, the concrete slab/walls will be tested for NORM (estimated ½ day). If the results indicate no NORM, then a sample scraping (surface of the slab) will be tested (estimated 1 day to perform testing and 7-10 days to receive the analytical results back from the lab) for:

- GRO/DRO (EPA 8015) /or TPH (EPA 418.1)-1000 mg/kg;
- RCRA 8 Metals-TCLP (Method 1311/or other approved by OCD)-TCLP Regulatory Limits;
- Benzene (EPA 8021B or 8260B)-less than or equal to 10 mg/kg;
- BTEX (EPA 8021B or 8260B)-less than or equal to 500 mg/kg;

In accordance with 19.15.35.8 NMAC, the results of the NORM testing and the analytical report for the concrete sample scraping will be submitted to OCD along with a request for approval to dispose of the concrete at San Juan County landfill. The concrete slab/walls will not be dismantled/demolished/removed until authorization has been obtained from OCD.

Once the concrete slab and walls have been removed, the liner beneath the concrete will be exposed, cut into manageable pieces, scraped clean with putty knife and/or steam cleaned prior to disposal to the San Juan County landfill (estimated 2 days). The liner will be steam cleaned over a 12' metal stock tank which will be set in a lined and earthen bermed area. The collected rinsate will be solidified to comply with the paint filter testing and tested for chloride concentration standards prior to being placed into a biopile for remediation. Any solidified waste not meeting chloride concentration standards will be transported off-site, with proper manifest C-138 form, to a division-approved SWMF or approval to dispose of at the San Juan County landfill will be obtained pursuant to 19.15.35.8 NMAC. Once the metal stock tank is no longer needed it will be removed from the lined and earthen bermed area, the liner will be removed and the earthen berms will be removed or spread in place.

Once the liner is removed, any visually evident contaminated soils will be removed (estimated 3 days), with the depth of the excavation controlled by field screening for TPH using a PetroFlag Unit until contaminated soils are removed to a screening level below 50 ppm. The excavated soils will be placed into a biopile for remediation, upon meeting the waste acceptance protocols for paint filter and chloride concentration testing. Waste not meeting the paint filter test will be solidified and retested for chlorides & paint filter prior to being placed into a biopile. Waste not meeting chloride concentration standards will be transported off-site, with proper manifest C-138 form, to a division-approved SWMF or landfill. To determine potential migration of contamination, two five point composite samples taken from the exposed surface of the excavation (estimated two days). The samples will be submitted for laboratory testing (estimated 7-10 days to receive the analytical results back from the lab) and characterized according to permit requirements as specified in the JFJ Permit, Page 8, Section 2.b for:

- TPH (EPA 8015M or 418.1) and
- BTEX (EPA 8021B or 8260B)

If analytical results detect TPH and/or BTEX, IEI will comply with the provisions set forth in 19.15.29 NMAC (timeline unknown for 19.15.29 activities).

Any visually evident contaminated soils surrounding the concrete impoundment will be removed (estimated 2 days), with the extent of the excavation controlled by field screening for TPH using a PetroFlag Unit until contaminated soils are removed to a screening level below 50 ppm (see attached drawing from SMA). The excavated soils will be placed into a biopile for remediation, upon meeting the waste acceptance protocols for paint filter and chloride concentration testing. Waste not meeting the paint filter test will be solidified and retested for chlorides and paint filter prior to being placed into a biopile. Waste not meeting chloride concentration standards will be transported off-site, with proper manifest C-138 form, to a division-approved SWMF or landfill. Once the visually evident contaminated soils surrounding the concrete impoundment have been removed, IEI will comply with the provisions set forth in 19.15.29 NMAC (timeline unknown for 19.15.29 activities).

Upon completion of 19.15.29 activities, the area will be backfilled and contoured with "virgin" soils (estimated 2 days).

Re-vegetation of the concrete impoundment and surrounding area will be postponed until the time that final closure of the facility is requested.

Souder Miller and Associates will be contracted to complete all of the above indicated sampling/testing.

APPENDIX B

GSM-525 SURVEY METER CALIBRATION RECORD

Certificate of Calibration

Calibration Location:
3998 Commerce Circle
Idaho Falls, ID 83401
Ph: 208 523-5557



Qal-Tek™

Customer: Envirotech Inc.

Att.: Brenda Wilson

Address: 5796 US Highway 64

City: Farmington

State: NM

Zip: 87401

Phone: 505-632-0615

Serial Number: 10116

Mfg: Johnson

Model: GSM-525

Probe Serial Number: 10102

Probe Mfg: Johnson

Probe Model: MRSP-1

Ref. #: W8141-033721

Calibration Date: 18-Dec-2013

HP Count Rate (2pi)

Calibration/Ver. Due Date: 18-Dec-2014

Ambient Temperature	Pressure (hg)	Basic Information	Humidity (%)	Lab Elevation (ft)
21	25.06		12	4750

As Found Pulser Linearity Checks

Input (cpm)	Reading (cpm)	Tolerance (cpm)	High Voltage	Base Threshold	Window	Upper Threshold
10000	10000	[9000-11000]	800	38	N/A	N/A

Count Rate Probe Test Results

Source ID	Isotope	2pi Activity (cpm)	Observed (cpm)	Background (cpm)	Net (cpm)	Efficiency (%)
4820	Cs-137	44132	5900	750	5150	11.67
4817	SrY-90	39800	6100	750	5350	13.44

Calibration Comments

Calibration Operational Checks

Reproducibility	Pass
High Voltage	OK
Geotropism	Pass
Zero Check	Pass
Calibration Constant	N/A
Dead Time	N/A
CALIBRATION RESULTS	Pass

Calibration Instruments Information:

Cal. Procedure: CP-PRO-170

: Cs-137 : 4820 -- Cal. Date: 29-Jan-2013 -- 4pi CPM: 134959 -- 2pi CPM: 44132
: SrY-90 : 4817 -- Cal. Date: 29-Jan-2013 -- 4pi CPM: 56857 -- 2pi CPM: 39800
Ludlum : 500 pulser : 121041 -- Cal. Date: 18-Oct-2013

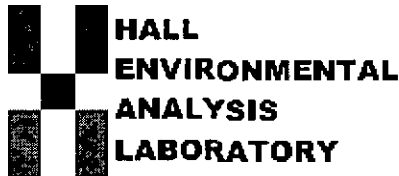
Date of Service: 18-Dec-2013

Service Technician: Cody Brammer

This Certificate of Calibration shall not be reproduced except in full, without the written approval of Qal-Tek Associates
Results relate only to item calibrated. Uncertainty of measurement was estimated at approximately 95% confidence level, (k=2).

All reference standards used are traceable to NIST. Qal-Tek Associates maintains a quality system (Quality Assurance Management Plan) that meets or exceeds the requirements set forth in the following documents: ANSI / NCSL Z540-1 1994 and ISO / IEC 17025.

APPENDIX C
LABORATORY REPORT



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

February 11, 2014

Steve Moskal

Souder, Miller and Associates

401 W. Broadway

Farmington, NM 87401

TEL: (505) 325-5667

FAX (505) 327-1496

RE: IEI- Concrete Disposal

OrderNo.: 1402140

Dear Steve Moskal:

Hall Environmental Analysis Laboratory received 7 sample(s) on 2/5/2014 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 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,

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 1402140

Date Reported: 2/11/2014

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Souder, Miller and Associates**Client Sample ID:** S. Floor**Project:** IEL- Concrete Disposal**Collection Date:** 2/4/2014 10:15:00 AM**Lab ID:** 1402140-001**Matrix:** SOIL**Received Date:** 2/5/2014 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	380	100		mg/Kg	10	2/10/2014 11:02:49 AM	11588
Surr: DNOP	0	66-131	S	%REC	10	2/10/2014 11:02:49 AM	11588
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JMP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	2/6/2014 1:48:38 PM	11580
Surr: BFB	89.9	74.5-129		%REC	1	2/6/2014 1:48:38 PM	11580
EPA METHOD 8021B: VOLATILES							Analyst: JMP
Benzene	ND	0.047		mg/Kg	1	2/6/2014 1:48:38 PM	11580
Toluene	ND	0.047		mg/Kg	1	2/6/2014 1:48:38 PM	11580
Ethylbenzene	ND	0.047		mg/Kg	1	2/6/2014 1:48:38 PM	11580
Xylenes, Total	ND	0.093		mg/Kg	1	2/6/2014 1:48:38 PM	11580
Surr: 4-Bromofluorobenzene	104	80-120		%REC	1	2/6/2014 1:48:38 PM	11580
MERCURY, TCLP							Analyst: JML
Mercury	ND	0.020		mg/L	1	2/7/2014 3:42:55 PM	11611
EPA METHOD 6010B: TCLP METALS							Analyst: ELS
Arsenic	ND	5.0		mg/L	1	2/9/2014 1:11:30 PM	11624
Barium	ND	100		mg/L	1	2/9/2014 1:11:30 PM	11624
Cadmium	ND	1.0		mg/L	1	2/9/2014 1:11:30 PM	11624
Chromium	ND	5.0		mg/L	1	2/9/2014 1:11:30 PM	11624
Lead	ND	5.0		mg/L	1	2/9/2014 1:11:30 PM	11624
Selenium	ND	1.0		mg/L	1	2/9/2014 1:11:30 PM	11624
Silver	ND	5.0		mg/L	1	2/9/2014 1:11:30 PM	11624

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	E	Value 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 1402140

Date Reported: 2/11/2014

CLIENT: Souder, Miller and Associates**Client Sample ID:** SW Wall**Project:** IEI- Concrete Disposal**Collection Date:** 2/4/2014 10:25:00 AM**Lab ID:** 1402140-002**Matrix:** SOIL**Received Date:** 2/5/2014 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	3500	1000		mg/Kg	100	2/11/2014 8:40:48 AM	11588
Surr: DNOP	0	66-131	S	%REC	100	2/11/2014 8:40:48 AM	11588
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JMP
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	2/6/2014 3:49:20 PM	11580
Surr: BFB	78.4	74.5-129		%REC	1	2/6/2014 3:49:20 PM	11580
EPA METHOD 8021B: VOLATILES							Analyst: JMP
Benzene	ND	0.046		mg/Kg	1	2/6/2014 3:49:20 PM	11580
Toluene	ND	0.046		mg/Kg	1	2/6/2014 3:49:20 PM	11580
Ethylbenzene	ND	0.046		mg/Kg	1	2/6/2014 3:49:20 PM	11580
Xylenes, Total	ND	0.092		mg/Kg	1	2/6/2014 3:49:20 PM	11580
Surr: 4-Bromofluorobenzene	88.8	80-120		%REC	1	2/6/2014 3:49:20 PM	11580
MERCURY, TCLP							Analyst: JML
Mercury	ND	0.020		mg/L	1	2/7/2014 3:48:32 PM	11611
EPA METHOD 6010B: TCLP METALS							Analyst: ELS
Arsenic	ND	5.0		mg/L	1	2/9/2014 1:14:02 PM	11624
Barium	ND	100		mg/L	1	2/9/2014 1:14:02 PM	11624
Cadmium	ND	1.0		mg/L	1	2/9/2014 1:14:02 PM	11624
Chromium	ND	5.0		mg/L	1	2/9/2014 1:14:02 PM	11624
Lead	ND	5.0		mg/L	1	2/9/2014 1:14:02 PM	11624
Selenium	ND	1.0		mg/L	1	2/9/2014 1:14:02 PM	11624
Silver	ND	5.0		mg/L	1	2/9/2014 1:14:02 PM	11624

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

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

Project: IEI- Concrete Disposal

Collection Date: 2/4/2014 10:40:00 AM

Lab ID: 1402140-003

Matrix: SOIL

Received Date: 2/5/2014 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	6400	1000		mg/Kg	100	2/10/2014 5:42:12 PM	11588
Surr: DNOP	0	66-131	S	%REC	100	2/10/2014 5:42:12 PM	11588
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JMP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/6/2014 5:50:15 PM	11580
Surr: BFB	89.1	74.5-129		%REC	1	2/6/2014 5:50:15 PM	11580
EPA METHOD 8021B: VOLATILES							Analyst: JMP
Benzene	ND	0.048		mg/Kg	1	2/6/2014 5:50:15 PM	11580
Toluene	ND	0.048		mg/Kg	1	2/6/2014 5:50:15 PM	11580
Ethylbenzene	ND	0.048		mg/Kg	1	2/6/2014 5:50:15 PM	11580
Xylenes, Total	ND	0.096		mg/Kg	1	2/6/2014 5:50:15 PM	11580
Surr: 4-Bromofluorobenzene	102	80-120		%REC	1	2/6/2014 5:50:15 PM	11580
MERCURY, TCLP							Analyst: JML
Mercury	ND	0.020		mg/L	1	2/7/2014 3:50:21 PM	11611
EPA METHOD 6010B: TCLP METALS							Analyst: ELS
Arsenic	ND	5.0		mg/L	1	2/9/2014 1:15:17 PM	11624
Barium	ND	100		mg/L	1	2/9/2014 1:15:17 PM	11624
Cadmium	ND	1.0		mg/L	1	2/9/2014 1:15:17 PM	11624
Chromium	ND	5.0		mg/L	1	2/9/2014 1:15:17 PM	11624
Lead	ND	5.0		mg/L	1	2/9/2014 1:15:17 PM	11624
Selenium	ND	1.0		mg/L	1	2/9/2014 1:15:17 PM	11624
Silver	ND	5.0		mg/L	1	2/9/2014 1:15:17 PM	11624

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

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

Project: IEI- Concrete Disposal

Collection Date: 2/4/2014 10:50:00 AM

Lab ID: 1402140-004

Matrix: SOIL

Received Date: 2/5/2014 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	3900	990		mg/Kg	100	2/10/2014 6:26:33 PM	11588
Surr: DNOP	0	66-131	S	%REC	100	2/10/2014 6:26:33 PM	11588
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JMP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	2/6/2014 6:20:23 PM	11580
Surr: BFB	76.5	74.5-129		%REC	1	2/6/2014 6:20:23 PM	11580
EPA METHOD 8021B: VOLATILES							Analyst: JMP
Benzene	ND	0.047		mg/Kg	1	2/6/2014 6:20:23 PM	11580
Toluene	ND	0.047		mg/Kg	1	2/6/2014 6:20:23 PM	11580
Ethylbenzene	ND	0.047		mg/Kg	1	2/6/2014 6:20:23 PM	11580
Xylenes, Total	ND	0.094		mg/Kg	1	2/6/2014 6:20:23 PM	11580
Surr: 4-Bromofluorobenzene	83.9	80-120		%REC	1	2/6/2014 6:20:23 PM	11580
MERCURY, TCLP							Analyst: JML
Mercury	ND	0.020		mg/L	1	2/7/2014 3:52:09 PM	11611
EPA METHOD 6010B: TCLP METALS							Analyst: ELS
Arsenic	ND	5.0		mg/L	1	2/9/2014 1:16:32 PM	11624
Barium	ND	100		mg/L	1	2/9/2014 1:16:32 PM	11624
Cadmium	ND	1.0		mg/L	1	2/9/2014 1:16:32 PM	11624
Chromium	ND	5.0		mg/L	1	2/9/2014 1:16:32 PM	11624
Lead	ND	5.0		mg/L	1	2/9/2014 1:16:32 PM	11624
Selenium	ND	1.0		mg/L	1	2/9/2014 1:16:32 PM	11624
Silver	ND	5.0		mg/L	1	2/9/2014 1:16:32 PM	11624

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

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

Project: IEI- Concrete Disposal

Collection Date: 2/4/2014 10:55:00 AM

Lab ID: 1402140-005

Matrix: SOIL

Received Date: 2/5/2014 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	3900	1000		mg/Kg	100	2/10/2014 7:10:38 PM	11588
Surr: DNOP	0	66-131	S	%REC	100	2/10/2014 7:10:38 PM	11588
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JMP
Gasoline Range Organics (GRO)	6.7	5.0		mg/Kg	1	2/6/2014 6:50:30 PM	11580
Surr: BFB	134	74.5-129	S	%REC	1	2/6/2014 6:50:30 PM	11580
EPA METHOD 8021B: VOLATILES							Analyst: JMP
Benzene	ND	0.050		mg/Kg	1	2/6/2014 6:50:30 PM	11580
Toluene	ND	0.050		mg/Kg	1	2/6/2014 6:50:30 PM	11580
Ethylbenzene	ND	0.050		mg/Kg	1	2/6/2014 6:50:30 PM	11580
Xylenes, Total	0.34	0.10		mg/Kg	1	2/6/2014 6:50:30 PM	11580
Surr: 4-Bromofluorobenzene	105	80-120		%REC	1	2/6/2014 6:50:30 PM	11580
MERCURY, TCLP							Analyst: JML
Mercury	ND	0.020		mg/L	1	2/7/2014 3:54:04 PM	11611
EPA METHOD 6010B: TCLP METALS							Analyst: ELS
Arsenic	ND	5.0		mg/L	1	2/9/2014 1:17:45 PM	11624
Barium	ND	100		mg/L	1	2/9/2014 1:17:45 PM	11624
Cadmium	ND	1.0		mg/L	1	2/9/2014 1:17:45 PM	11624
Chromium	ND	5.0		mg/L	1	2/9/2014 1:17:45 PM	11624
Lead	ND	5.0		mg/L	1	2/9/2014 1:17:45 PM	11624
Selenium	ND	1.0		mg/L	1	2/9/2014 1:17:45 PM	11624
Silver	ND	5.0		mg/L	1	2/9/2014 1:17:45 PM	11624

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

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	E Value 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 1402140

Date Reported: 2/11/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Client Sample ID: NW Wall

Project: IEI- Concrete Disposal

Collection Date: 2/4/2014 11:00:00 AM

Lab ID: 1402140-006

Matrix: SOIL

Received Date: 2/5/2014 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	1800	1000		mg/Kg	100	2/10/2014 7:54:37 PM	11588
Surr: DNOP	0	66-131	S	%REC	100	2/10/2014 7:54:37 PM	11588
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JMP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/6/2014 7:20:39 PM	11580
Surr: BFB	91.6	74.5-129		%REC	1	2/6/2014 7:20:39 PM	11580
EPA METHOD 8021B: VOLATILES							Analyst: JMP
Benzene	ND	0.048		mg/Kg	1	2/6/2014 7:20:39 PM	11580
Toluene	ND	0.048		mg/Kg	1	2/6/2014 7:20:39 PM	11580
Ethylbenzene	ND	0.048		mg/Kg	1	2/6/2014 7:20:39 PM	11580
Xylenes, Total	ND	0.096		mg/Kg	1	2/6/2014 7:20:39 PM	11580
Surr: 4-Bromofluorobenzene	104	80-120		%REC	1	2/6/2014 7:20:39 PM	11580
MERCURY, TCLP							Analyst: JML
Mercury	ND	0.020		mg/L	1	2/7/2014 3:59:34 PM	11611
EPA METHOD 6010B: TCLP METALS							Analyst: ELS
Arsenic	ND	5.0		mg/L	1	2/9/2014 1:22:27 PM	11624
Barium	ND	100		mg/L	1	2/9/2014 1:22:27 PM	11624
Cadmium	ND	1.0		mg/L	1	2/9/2014 1:22:27 PM	11624
Chromium	ND	5.0		mg/L	1	2/9/2014 1:22:27 PM	11624
Lead	ND	5.0		mg/L	1	2/9/2014 1:22:27 PM	11624
Selenium	ND	1.0		mg/L	1	2/9/2014 1:22:27 PM	11624
Silver	ND	5.0		mg/L	1	2/9/2014 1:22:27 PM	11624

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	E	Value 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 1402140

Date Reported: 2/11/2014

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Souder, Miller and Associates**Client Sample ID:** N. Floor**Project:** IEI- Concrete Disposal**Collection Date:** 2/4/2014 11:10:00 AM**Lab ID:** 1402140-007**Matrix:** SOIL**Received Date:** 2/5/2014 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	2500	1000		mg/Kg	100	2/10/2014 8:38:43 PM	11588
Surr: DNOP	0	66-131	S	%REC	100	2/10/2014 8:38:43 PM	11588
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JMP
Gasoline Range Organics (GRO)	8.9	4.6		mg/Kg	1	2/6/2014 7:50:52 PM	11580
Surr: BFB	114	74.5-129		%REC	1	2/6/2014 7:50:52 PM	11580
EPA METHOD 8021B: VOLATILES							Analyst: JMP
Benzene	ND	0.046		mg/Kg	1	2/6/2014 7:50:52 PM	11580
Toluene	ND	0.046		mg/Kg	1	2/6/2014 7:50:52 PM	11580
Ethylbenzene	ND	0.046		mg/Kg	1	2/6/2014 7:50:52 PM	11580
Xylenes, Total	0.29	0.092		mg/Kg	1	2/6/2014 7:50:52 PM	11580
Surr: 4-Bromofluorobenzene	84.1	80-120		%REC	1	2/6/2014 7:50:52 PM	11580
MERCURY, TCLP							Analyst: JML
Mercury	ND	0.020		mg/L	1	2/7/2014 4:01:24 PM	11611
EPA METHOD 6010B: TCLP METALS							Analyst: ELS
Arsenic	ND	5.0		mg/L	1	2/9/2014 1:23:43 PM	11624
Barium	ND	100		mg/L	1	2/9/2014 1:23:43 PM	11624
Cadmium	ND	1.0		mg/L	1	2/9/2014 1:23:43 PM	11624
Chromium	ND	5.0		mg/L	1	2/9/2014 1:23:43 PM	11624
Lead	ND	5.0		mg/L	1	2/9/2014 1:23:43 PM	11624
Selenium	ND	1.0		mg/L	1	2/9/2014 1:23:43 PM	11624
Silver	ND	5.0		mg/L	1	2/9/2014 1:23:43 PM	11624

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	E	Value 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#: 1402140

11-Feb-14

Client: Souder, Miller and Associates

Project: IEI- Concrete Disposal

Sample ID	MB-11588		SampType:	MBLK		TestCode:	EPA Method 8015D: Diesel Range Organics				
Client ID:	PBS		Batch ID:	11588		RunNo:	16554				
Prep Date:	2/5/2014		Analysis Date:	2/6/2014		SeqNo:	476907		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	ND	10									
Surr: DNOP	7.5		10.00		75.2	66	131				

Sample ID	LCS-11588		SampType: LCS		TestCode: EPA Method 8015D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 11588		RunNo: 16554					
Prep Date:	2/5/2014		Analysis Date: 2/6/2014		SeqNo: 476909		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.00	0	90.6	60.8	145			
Surr: DNOP	3.7		5.000		74.9	66	131			

Sample ID	MB-11619		SampType:	MBLK		TestCode:	EPA Method 8015D: Diesel Range Organics				
Client ID:	PBS		Batch ID:	11619		RunNo:	16585				
Prep Date:	2/7/2014		Analysis Date:	2/7/2014		SeqNo:	477743		Units: %REC		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: DNOP	7.8		10.00		78.2	66	131				

Sample ID	LCS-11619		SampType:	LCS		TestCode:	EPA Method 8015D: Diesel Range Organics				
Client ID:	LCSS		Batch ID:	11619		RunNo:	16585				
Prep Date:	2/7/2014		Analysis Date:	2/7/2014		SeqNo:	477744		Units: %REC		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: DNOP	4.0		5.000		79.3	66	131				

Sample ID	LCS-11665		SampType: LCS		TestCode: EPA Method 8015D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 11665		RunNo: 16646					
Prep Date:	2/11/2014		Analysis Date: 2/11/2014		SeqNo: 479854		Units: %REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.2		5.000		83.8	66	131			

Sample ID	MB-11665		SampType:	MBLK		TestCode:	EPA Method 8015D: Diesel Range Organics				
Client ID:	PBS		Batch ID:	11665		RunNo:	16646				
Prep Date:	2/11/2014		Analysis Date:	2/11/2014		SeqNo:	479855		Units: %REC		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: DNOP	8.5		10.00		84.9	66	131				

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
- II Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RI Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1402140

11-Feb-14

Client: Souder, Miller and Associates

Project: IEI- Concrete Disposal

Sample ID	MB-11580	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range						
Client ID:	PBS	Batch ID:	11580	RunNo:	16579						
Prep Date:	2/5/2014	Analysis Date:	2/6/2014	SeqNo:	477183	Units:	mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	ND	5.0									
Surr: BFB	910		1000		90.6	74.5	129				

Sample ID	LCS-11580	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range						
Client ID:	LCSS	Batch ID:	11580	RunNo:	16579						
Prep Date:	2/5/2014	Analysis Date:	2/6/2014	SeqNo:	477184	Units:	mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	21	5.0	25.00	0	86.0	74.5	126				
Surr: BFB	940		1000		93.8	74.5	129				

Sample ID	1402140-001AMS	SampType:	MS	TestCode:	EPA Method 8015D: Gasoline Range						
Client ID:	S. Floor	Batch ID:	11580	RunNo:	16579						
Prep Date:	2/5/2014	Analysis Date:	2/6/2014	SeqNo:	477186	Units:	mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	23	4.7	23.41	0	99.5	69.5	145				
Surr: BFB	980		936.3		105	74.5	129				

Sample ID	1402140-001AMSD	SampType:	MSD	TestCode:	EPA Method 8015D: Gasoline Range						
Client ID:	S. Floor	Batch ID:	11580	RunNo:	16579						
Prep Date:	2/5/2014	Analysis Date:	2/6/2014	SeqNo:	477187	Units:	mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	22	4.7	23.34	0	92.1	69.5	145	7.96	20		
Surr: BFB	830		933.7		89.1	74.5	129	0	0		

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#: 1402140

11-Feb-14

Client: Souder, Miller and Associates

Project: IEI- Concrete Disposal

Sample ID	MB-11580		SampType:	MBLK		TestCode:	EPA Method 8021B: Volatiles				
Client ID:	PBS		Batch ID:	11580		RunNo:	16579				
Prep Date:	2/5/2014		Analysis Date:	2/6/2014		SeqNo:	477197		Units: mg/Kg		
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	1.1		1.000		108	80	120				

Sample ID	LCS-11580		SampType: LCS		TestCode: EPA Method 8021B: Volatiles					
Client ID:	LCSS		Batch ID: 11580		RunNo: 16579					
Prep Date:	2/5/2014		Analysis Date: 2/6/2014		SeqNo: 477198		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.050	1.000	0	92.9	80	120			
Toluene	0.92	0.050	1.000	0	92.1	80	120			
Ethylbenzene	0.94	0.050	1.000	0	94.0	80	120			
Xylenes, Total	2.9	0.10	3.000	0	96.8	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		108	80	120			

Sample ID	1402140-002AMS		SampType: MS		TestCode: EPA Method 8021B: Volatiles					
Client ID:	SW Wall		Batch ID: 11580		RunNo: 16579					
Prep Date:	2/5/2014		Analysis Date: 2/6/2014		SeqNo: 477201		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.80	0.046	0.9200	0	87.5	67.4	135			
Toluene	0.80	0.046	0.9200	0.01435	85.3	72.6	135			
Ethylbenzene	0.83	0.046	0.9200	0	89.7	69.4	143			
Xylenes, Total	2.6	0.092	2.760	0.03809	91.3	70.8	144			
Surr: 4-Bromofluorobenzene	0.85		0.9200		92.8	80	120			

Sample ID	1402140-002AMSD		SampType:	MSD		TestCode:	EPA Method 8021B: Volatiles				
Client ID:	SW Wall		Batch ID:	11580		RunNo:	16579				
Prep Date:	2/5/2014		Analysis Date:	2/6/2014		SeqNo:	477202		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.86	0.046	0.9174	0	93.5	67.4	135	6.33	20		
Toluene	0.85	0.046	0.9174	0.01435	91.5	72.6	135	6.65	20		
Ethylbenzene	0.88	0.046	0.9174	0	95.7	69.4	143	6.20	20		
Xylenes, Total	2.7	0.092	2.752	0.03809	96.8	70.8	144	5.51	20		
Surr: 4-Bromofluorobenzene	0.96		0.9174		105	80	120	0	0		

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#: 1402140

11-Feb-14

Client: Souder, Miller and Associates

Project: IEI- Concrete Disposal

Sample ID	MB-11611	SampType	MBLK	TestCode	MERCURY, TCLP					
Client ID	PBW	Batch ID	11611	RunNo	16631					
Prep Date	2/6/2014	Analysis Date	2/7/2014	SeqNo	478494	Units	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.020								

Sample ID	LCS-11611	SampType	LCS	TestCode	MERCURY, TCLP					
Client ID	LCSW	Batch ID	11611	RunNo	16631					
Prep Date	2/6/2014	Analysis Date	2/7/2014	SeqNo	478495	Units	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.020	0.005000	0	101	80	120			

Sample ID	1402140-001AMS	SampType	MS	TestCode	MERCURY, TCLP					
Client ID	S. Floor	Batch ID	11611	RunNo	16631					
Prep Date	2/6/2014	Analysis Date	2/7/2014	SeqNo	478498	Units	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.020	0.005000	0	99.1	75	125			

Sample ID	1402140-001AMSD	SampType	MSD	TestCode	MERCURY, TCLP					
Client ID	S. Floor	Batch ID	11611	RunNo	16631					
Prep Date	2/6/2014	Analysis Date	2/7/2014	SeqNo	478499	Units	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.020	0.005000	0	98.3	75	125	0	20	

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#: 1402140

11-Feb-14

Client: Souder, Miller and Associates

Project: IEI- Concrete Disposal

Sample ID	MB-11624	SampType:	MBLK	TestCode:	EPA Method 6010B: TCLP Metals					
Client ID:	PBW	Batch ID:	11624	RunNo:	16609					
Prep Date:	2/7/2014	Analysis Date:	2/9/2014	SeqNo:	478048	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	5.0								
Barium	ND	100								
Cadmium	ND	1.0								
Chromium	ND	5.0								
Lead	ND	5.0								
Selenium	ND	1.0								
Silver	ND	5.0								

Sample ID	LCS-11624	SampType:	LCS	TestCode:	EPA Method 6010B: TCLP Metals					
Client ID:	LCSW	Batch ID:	11624	RunNo:	16609					
Prep Date:	2/7/2014	Analysis Date:	2/9/2014	SeqNo:	478049	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	5.0	0.5000	0	105	80	120			
Barium	ND	100	0.5000	0	93.8	80	120			
Cadmium	ND	1.0	0.5000	0	98.0	80	120			
Chromium	ND	5.0	0.5000	0	95.6	80	120			
Lead	ND	5.0	0.5000	0	92.2	80	120			
Selenium	ND	1.0	0.5000	0	99.3	80	120			
Silver	ND	5.0	0.1000	0	104	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: 1402140

RcptNo: 1

Received by/date:

MG 02/05/14

Logged By: Lindsay Mangin

2/5/2014 10:00:00 AM

Completed By: Lindsay Mangin

2/5/2014 12:41:12 PM

Reviewed By:

Chain of Custody

1. Custody seals intact on sample bottles?

Yes ☐

No ☐

Not Present ☒

2. Is Chain of Custody complete?

Yes ☒

No ☐

Not Present ☐

3. How was the sample delivered?

~~Client~~ COVER
02/05/14

Log In

4. Was an attempt made to cool the samples?

Yes ☒

No ☐

NA ☐

5. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C

Yes ☒

No ☐

NA ☐

6. Sample(s) in proper container(s)?

Yes ☒

No ☐

7. Sufficient sample volume for indicated test(s)?

Yes ☒

No ☐

8. Are samples (except VOA and ONG) properly preserved?

Yes ☒

No ☐

9. Was preservative added to bottles?

Yes ☐

No ☒

NA ☐

10. VOA vials have zero headspace?

Yes ☐

No ☐

No VOA Vials ☒

11. Were any sample containers received broken?

Yes ☐

No ☒

12. Does paperwork match bottle labels?

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	Not Present			

Chain-of-Custody Record

Client: Sander Miller & Associates

Mailing Address: 40112 Broadway
Farmington NM 87401

Phone #: 505 325 7535

Email or Fax#: steven.moskel@sandmiller.com

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

Accreditation
☐ NELAP ☐ Other _____

☐ EDD (Type) _____

☒ Standard ☐ Rush

Project Name: IEI - concrete Disposal

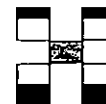
Project #: 5122921

Project Manager: Steve Moskel

Sampler: Steve Moskel

On Ice: ☒ Yes ☐ No

Sample Temperature: 51°C



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 + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals (TCLP)	Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Air Bubbles (Y or N)
4/14	1015	concrete	S. Floor	8oz x 1	none	-001	X		X				X					
	1035		SE wall			-002												
	1040		Center wall			-003												
	1050		SE wall			-004												
	1055		NE wall			-005												
	1100		NW wall			-006												
	1110		N. Floor			-007												

Date: 4/14 Time: 1240 Relinquished by: [Signature]

Date: 2/4/14 Time: 1240 Received by: Christine Walker

Date: 2/4/14 Time: 1731 Relinquished by: Christine Walker

Date: 2/5/14 Time: 1000 Received by: [Signature]

Remarks:
Please Analyze for DRO/GRO at or below 1000 mg/kg
Benzene ≤ 10 mg/kg
BTEX ≤ 500 mg/kg

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*

March 18, 2014

Steve Moskal

Souder, Miller and Associates
401 W. Broadway
Farmington, NM 87401
TEL: (505) 325-5667
FAX (505) 327-1496

RE: IEI Concrete Disposal

OrderNo.: 1403423

Dear Steve Moskal:

Hall Environmental Analysis Laboratory received 7 sample(s) on 3/11/2014 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 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,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 1403423

Date Reported: 3/18/2014

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Souder, Miller and Associates**Client Sample ID:** S. Floor**Project:** IEI Concrete Disposal**Collection Date:** 3/10/2014 10:10:00 AM**Lab ID:** 1403423-001**Matrix:** SOLID**Received Date:** 3/11/2014 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	3400	99		mg/Kg	10	3/13/2014 6:31:36 PM	12127
Surr: DNQP	0	66-131	S	%REC	10	3/13/2014 6:31:36 PM	12127
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JMP
Gasoline Range Organics (GRO)	11	4.7		mg/Kg	1	3/13/2014 3:25:53 PM	12150
Surr: BFB	147	74.5-129	S	%REC	1	3/13/2014 3:25:53 PM	12150

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

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	E Value 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 1403423

Date Reported: 3/18/2014

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Souder, Miller and Associates**Client Sample ID:** SW Wall**Project:** IEI Concrete Disposal**Collection Date:** 3/10/2014 10:30:00 AM**Lab ID:** 1403423-002**Matrix:** SOLID**Received Date:** 3/11/2014 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	2500	1000		mg/Kg	100	3/14/2014 3:57:06 PM	12127
Surr: DNOP	0	66-131	S	%REC	100	3/14/2014 3:57:06 PM	12127
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JMP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/13/2014 12:05:56 PM	12150
Surr: BFB	94.6	74.5-129		%REC	1	3/13/2014 12:05:56 PM	12150

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

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

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	E	Value 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 1403423

Date Reported: 3/18/2014

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Souder, Miller and Associates**Client Sample ID:** SE Wall**Project:** IEI Concrete Disposal**Collection Date:** 3/10/2014 11:00:00 AM**Lab ID:** 1403423-004**Matrix:** SOLID**Received Date:** 3/11/2014 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	1800	100		mg/Kg	10	3/13/2014 8:00:34 PM	12127
Surr: DNOP	0	66-131	S	%REC	10	3/13/2014 8:00:34 PM	12127
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JMP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/13/2014 1:03:09 PM	12150
Surr: BFB	90.5	74.5-129		%REC	1	3/13/2014 1:03:09 PM	12150

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	E	Value 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
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

February 11, 2014

Steve Moskal

Souder, Miller and Associates

401 W. Broadway

Farmington, NM 87401

TEL: (505) 325-5667

FAX (505) 327-1496

RE: IEI- Concrete Disposal

OrderNo.: 1402140

Dear Steve Moskal:

Hall Environmental Analysis Laboratory received 7 sample(s) on 2/5/2014 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 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,

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Client Sample ID: S. Floor

Project: IEI- Concrete Disposal

Collection Date: 2/4/2014 10:15:00 AM

Lab ID: 1402140-001

Matrix: SOIL

Received Date: 2/5/2014 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	380	100		mg/Kg	10	2/10/2014 11:02:49 AM	11588
Surr: DNOP	0	66-131	S	%REC	10	2/10/2014 11:02:49 AM	11588
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JMP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	2/6/2014 1:48:38 PM	11580
Surr: BFB	89.9	74.5-129		%REC	1	2/6/2014 1:48:38 PM	11580
EPA METHOD 8021B: VOLATILES							Analyst: JMP
Benzene	ND	0.047		mg/Kg	1	2/6/2014 1:48:38 PM	11580
Toluene	ND	0.047		mg/Kg	1	2/6/2014 1:48:38 PM	11580
Ethylbenzene	ND	0.047		mg/Kg	1	2/6/2014 1:48:38 PM	11580
Xylenes, Total	ND	0.093		mg/Kg	1	2/6/2014 1:48:38 PM	11580
Surr: 4-Bromofluorobenzene	104	80-120		%REC	1	2/6/2014 1:48:38 PM	11580
MERCURY, TCLP							Analyst: JML
Mercury	ND	0.020		mg/L	1	2/7/2014 3:42:55 PM	11611
EPA METHOD 6010B: TCLP METALS							Analyst: ELS
Arsenic	ND	5.0		mg/L	1	2/9/2014 1:11:30 PM	11624
Barium	ND	100		mg/L	1	2/9/2014 1:11:30 PM	11624
Cadmium	ND	1.0		mg/L	1	2/9/2014 1:11:30 PM	11624
Chromium	ND	5.0		mg/L	1	2/9/2014 1:11:30 PM	11624
Lead	ND	5.0		mg/L	1	2/9/2014 1:11:30 PM	11624
Selenium	ND	1.0		mg/L	1	2/9/2014 1:11:30 PM	11624
Silver	ND	5.0		mg/L	1	2/9/2014 1:11:30 PM	11624

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	E	Value 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 1402140

Date Reported: 2/11/2014

CLIENT: Souder, Miller and Associates

Client Sample ID: SW Wall

Project: IEI- Concrete Disposal

Collection Date: 2/4/2014 10:25:00 AM

Lab ID: 1402140-002

Matrix: SOIL

Received Date: 2/5/2014 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	3500	1000		mg/Kg	100	2/11/2014 8:40:48 AM	11588
Surr: DNOP	0	66-131	S	%REC	100	2/11/2014 8:40:48 AM	11588
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JMP
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	2/6/2014 3:49:20 PM	11580
Surr: BFB	78.4	74.5-129		%REC	1	2/6/2014 3:49:20 PM	11580
EPA METHOD 8021B: VOLATILES							Analyst: JMP
Benzene	ND	0.046		mg/Kg	1	2/6/2014 3:49:20 PM	11580
Toluene	ND	0.046		mg/Kg	1	2/6/2014 3:49:20 PM	11580
Ethylbenzene	ND	0.046		mg/Kg	1	2/6/2014 3:49:20 PM	11580
Xylenes, Total	ND	0.092		mg/Kg	1	2/6/2014 3:49:20 PM	11580
Surr: 4-Bromofluorobenzene	88.8	80-120		%REC	1	2/6/2014 3:49:20 PM	11580
MERCURY, TCLP							Analyst: JML
Mercury	ND	0.020		mg/L	1	2/7/2014 3:48:32 PM	11611
EPA METHOD 6010B: TCLP METALS							Analyst: ELS
Arsenic	ND	5.0		mg/L	1	2/9/2014 1:14:02 PM	11624
Barium	ND	100		mg/L	1	2/9/2014 1:14:02 PM	11624
Cadmium	ND	1.0		mg/L	1	2/9/2014 1:14:02 PM	11624
Chromium	ND	5.0		mg/L	1	2/9/2014 1:14:02 PM	11624
Lead	ND	5.0		mg/L	1	2/9/2014 1:14:02 PM	11624
Selenium	ND	1.0		mg/L	1	2/9/2014 1:14:02 PM	11624
Silver	ND	5.0		mg/L	1	2/9/2014 1:14:02 PM	11624

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	E	Value 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 1402140

Date Reported: 2/11/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Client Sample ID: Center Wall

Project: IEI- Concrete Disposal

Collection Date: 2/4/2014 10:40:00 AM

Lab ID: 1402140-003

Matrix: SOIL

Received Date: 2/5/2014 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	6400	1000		mg/Kg	100	2/10/2014 5:42:12 PM	11588
Surr: DNOP	0	66-131	S	%REC	100	2/10/2014 5:42:12 PM	11588
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JMP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/6/2014 5:50:15 PM	11580
Surr: BFB	89.1	74.5-129		%REC	1	2/6/2014 5:50:15 PM	11580
EPA METHOD 8021B: VOLATILES							Analyst: JMP
Benzene	ND	0.048		mg/Kg	1	2/6/2014 5:50:15 PM	11580
Toluene	ND	0.048		mg/Kg	1	2/6/2014 5:50:15 PM	11580
Ethylbenzene	ND	0.048		mg/Kg	1	2/6/2014 5:50:15 PM	11580
Xylenes, Total	ND	0.096		mg/Kg	1	2/6/2014 5:50:15 PM	11580
Surr: 4-Bromofluorobenzene	102	80-120		%REC	1	2/6/2014 5:50:15 PM	11580
MERCURY, TCLP							Analyst: JML
Mercury	ND	0.020		mg/L	1	2/7/2014 3:50:21 PM	11611
EPA METHOD 6010B: TCLP METALS							Analyst: ELS
Arsenic	ND	5.0		mg/L	1	2/9/2014 1:15:17 PM	11624
Barium	ND	100		mg/L	1	2/9/2014 1:15:17 PM	11624
Cadmium	ND	1.0		mg/L	1	2/9/2014 1:15:17 PM	11624
Chromium	ND	5.0		mg/L	1	2/9/2014 1:15:17 PM	11624
Lead	ND	5.0		mg/L	1	2/9/2014 1:15:17 PM	11624
Selenium	ND	1.0		mg/L	1	2/9/2014 1:15:17 PM	11624
Silver	ND	5.0		mg/L	1	2/9/2014 1:15:17 PM	11624

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

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	E Value above quantitation range	II 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 1402140

Date Reported: 2/11/2014

CLIENT: Souder, Miller and Associates

Client Sample ID: SE Wall

Project: IEI- Concrete Disposal

Collection Date: 2/4/2014 10:50:00 AM

Lab ID: 1402140-004

Matrix: SOIL

Received Date: 2/5/2014 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	3900	990		mg/Kg	100	2/10/2014 6:26:33 PM	11588
Surr: DNOP	0	66-131	S	%REC	100	2/10/2014 6:26:33 PM	11588
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JMP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	2/6/2014 6:20:23 PM	11580
Surr: BFB	76.5	74.5-129		%REC	1	2/6/2014 6:20:23 PM	11580
EPA METHOD 8021B: VOLATILES							Analyst: JMP
Benzene	ND	0.047		mg/Kg	1	2/6/2014 6:20:23 PM	11580
Toluene	ND	0.047		mg/Kg	1	2/6/2014 6:20:23 PM	11580
Ethylbenzene	ND	0.047		mg/Kg	1	2/6/2014 6:20:23 PM	11580
Xylenes, Total	ND	0.094		mg/Kg	1	2/6/2014 6:20:23 PM	11580
Surr: 4-Bromofluorobenzene	83.9	80-120		%REC	1	2/6/2014 6:20:23 PM	11580
MERCURY, TCLP							Analyst: JML
Mercury	ND	0.020		mg/L	1	2/7/2014 3:52:09 PM	11611
EPA METHOD 6010B: TCLP METALS							Analyst: ELS
Arsenic	ND	5.0		mg/L	1	2/9/2014 1:16:32 PM	11624
Barium	ND	100		mg/L	1	2/9/2014 1:16:32 PM	11624
Cadmium	ND	1.0		mg/L	1	2/9/2014 1:16:32 PM	11624
Chromium	ND	5.0		mg/L	1	2/9/2014 1:16:32 PM	11624
Lead	ND	5.0		mg/L	1	2/9/2014 1:16:32 PM	11624
Selenium	ND	1.0		mg/L	1	2/9/2014 1:16:32 PM	11624
Silver	ND	5.0		mg/L	1	2/9/2014 1:16:32 PM	11624

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	E	Value 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 1402140

Date Reported: 2/11/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Client Sample ID: NE Wall

Project: IEI- Concrete Disposal

Collection Date: 2/4/2014 10:55:00 AM

Lab ID: 1402140-005

Matrix: SOIL

Received Date: 2/5/2014 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	3900	1000		mg/Kg	100	2/10/2014 7:10:38 PM	11588
Surr: DNOP	0	66-131	S	%REC	100	2/10/2014 7:10:38 PM	11588
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JMP
Gasoline Range Organics (GRO)	6.7	5.0		mg/Kg	1	2/6/2014 6:50:30 PM	11580
Surr: BFB	134	74.5-129	S	%REC	1	2/6/2014 6:50:30 PM	11580
EPA METHOD 8021B: VOLATILES							Analyst: JMP
Benzene	ND	0.050		mg/Kg	1	2/6/2014 6:50:30 PM	11580
Toluene	ND	0.050		mg/Kg	1	2/6/2014 6:50:30 PM	11580
Ethylbenzene	ND	0.050		mg/Kg	1	2/6/2014 6:50:30 PM	11580
Xylenes, Total	0.34	0.10		mg/Kg	1	2/6/2014 6:50:30 PM	11580
Surr: 4-Bromofluorobenzene	105	80-120		%REC	1	2/6/2014 6:50:30 PM	11580
MERCURY, TCLP							Analyst: JML
Mercury	ND	0.020		mg/L	1	2/7/2014 3:54:04 PM	11611
EPA METHOD 6010B: TCLP METALS							Analyst: ELS
Arsenic	ND	5.0		mg/L	1	2/9/2014 1:17:45 PM	11624
Barium	ND	100		mg/L	1	2/9/2014 1:17:45 PM	11624
Cadmium	ND	1.0		mg/L	1	2/9/2014 1:17:45 PM	11624
Chromium	ND	5.0		mg/L	1	2/9/2014 1:17:45 PM	11624
Lead	ND	5.0		mg/L	1	2/9/2014 1:17:45 PM	11624
Selenium	ND	1.0		mg/L	1	2/9/2014 1:17:45 PM	11624
Silver	ND	5.0		mg/L	1	2/9/2014 1:17:45 PM	11624

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	II	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 1402140

Date Reported: 2/11/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Client Sample ID: NW Wall

Project: IEI- Concrete Disposal

Collection Date: 2/4/2014 11:00:00 AM

Lab ID: 1402140-006

Matrix: SOIL

Received Date: 2/5/2014 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	1800	1000		mg/Kg	100	2/10/2014 7:54:37 PM	11588
Surr: DNOP	0	66-131	S	%REC	100	2/10/2014 7:54:37 PM	11588
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JMP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/6/2014 7:20:39 PM	11580
Surr: BFB	91.6	74.5-129		%REC	1	2/6/2014 7:20:39 PM	11580
EPA METHOD 8021B: VOLATILES							Analyst: JMP
Benzene	ND	0.048		mg/Kg	1	2/6/2014 7:20:39 PM	11580
Toluene	ND	0.048		mg/Kg	1	2/6/2014 7:20:39 PM	11580
Ethylbenzene	ND	0.048		mg/Kg	1	2/6/2014 7:20:39 PM	11580
Xylenes, Total	ND	0.096		mg/Kg	1	2/6/2014 7:20:39 PM	11580
Surr: 4-Bromofluorobenzene	104	80-120		%REC	1	2/6/2014 7:20:39 PM	11580
MERCURY, TCLP							Analyst: JML
Mercury	ND	0.020		mg/L	1	2/7/2014 3:59:34 PM	11611
EPA METHOD 6010B: TCLP METALS							Analyst: ELS
Arsenic	ND	5.0		mg/L	1	2/9/2014 1:22:27 PM	11624
Barium	ND	100		mg/L	1	2/9/2014 1:22:27 PM	11624
Cadmium	ND	1.0		mg/L	1	2/9/2014 1:22:27 PM	11624
Chromium	ND	5.0		mg/L	1	2/9/2014 1:22:27 PM	11624
Lead	ND	5.0		mg/L	1	2/9/2014 1:22:27 PM	11624
Selenium	ND	1.0		mg/L	1	2/9/2014 1:22:27 PM	11624
Silver	ND	5.0		mg/L	1	2/9/2014 1:22:27 PM	11624

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	E	Value 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 1402140

Date Reported: 2/11/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Client Sample ID: N. Floor

Project: IEI- Concrete Disposal

Collection Date: 2/4/2014 11:10:00 AM

Lab ID: 1402140-007

Matrix: SOIL

Received Date: 2/5/2014 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	2500	1000		mg/Kg	100	2/10/2014 8:38:43 PM	11588
Surr: DNOP	0	66-131	S	%REC	100	2/10/2014 8:38:43 PM	11588
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JMP
Gasoline Range Organics (GRO)	8.9	4.6		mg/Kg	1	2/6/2014 7:50:52 PM	11580
Surr: BFB	114	74.5-129		%REC	1	2/6/2014 7:50:52 PM	11580
EPA METHOD 8021B: VOLATILES							Analyst: JMP
Benzene	ND	0.046		mg/Kg	1	2/6/2014 7:50:52 PM	11580
Toluene	ND	0.046		mg/Kg	1	2/6/2014 7:50:52 PM	11580
Ethylbenzene	ND	0.046		mg/Kg	1	2/6/2014 7:50:52 PM	11580
Xylenes, Total	0.29	0.092		mg/Kg	1	2/6/2014 7:50:52 PM	11580
Surr: 4-Bromofluorobenzene	84.1	80-120		%REC	1	2/6/2014 7:50:52 PM	11580
MERCURY, TCLP							Analyst: JML
Mercury	ND	0.020		mg/L	1	2/7/2014 4:01:24 PM	11611
EPA METHOD 6010B: TCLP METALS							Analyst: ELS
Arsenic	ND	5.0		mg/L	1	2/9/2014 1:23:43 PM	11624
Barium	ND	100		mg/L	1	2/9/2014 1:23:43 PM	11624
Cadmium	ND	1.0		mg/L	1	2/9/2014 1:23:43 PM	11624
Chromium	ND	5.0		mg/L	1	2/9/2014 1:23:43 PM	11624
Lead	ND	5.0		mg/L	1	2/9/2014 1:23:43 PM	11624
Selenium	ND	1.0		mg/L	1	2/9/2014 1:23:43 PM	11624
Silver	ND	5.0		mg/L	1	2/9/2014 1:23:43 PM	11624

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 7 of 12
	E	Value 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#: 1402140

11-Feb-14

Client: Souder, Miller and Associates

Project: IEI- Concrete Disposal

Sample ID	MB-11588	SampType:	MBLK	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	11588	RunNo:	16554					
Prep Date:	2/5/2014	Analysis Date:	2/6/2014	SeqNo:	476907	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	7.5		10.00		75.2	66	131			

Sample ID	LCS-11588	SampType:	LCS	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	11588	RunNo:	16554					
Prep Date:	2/5/2014	Analysis Date:	2/6/2014	SeqNo:	476909	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.00	0	90.6	60.8	145			
Surr: DNOP	3.7		5.000		74.9	66	131			

Sample ID	MB-11619	SampType:	MBLK	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	11619	RunNo:	16585					
Prep Date:	2/7/2014	Analysis Date:	2/7/2014	SeqNo:	477743	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	7.8		10.00		78.2	66	131			

Sample ID	LCS-11619	SampType:	LCS	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	11619	RunNo:	16585					
Prep Date:	2/7/2014	Analysis Date:	2/7/2014	SeqNo:	477744	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.0		5.000		79.3	66	131			

Sample ID	LCS-11665	SampType:	LCS	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	11665	RunNo:	16646					
Prep Date:	2/11/2014	Analysis Date:	2/11/2014	SeqNo:	479854	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.2		5.000		83.8	66	131			

Sample ID	MB-11665	SampType:	MBLK	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	11665	RunNo:	16646					
Prep Date:	2/11/2014	Analysis Date:	2/11/2014	SeqNo:	479855	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.5		10.00		84.9	66	131			

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#: 1402140

11-Feb-14

Client: Souder, Miller and Associates

Project: IEI- Concrete Disposal

Sample ID	MB-11580	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range						
Client ID:	PBS	Batch ID:	11580	RunNo:	16579						
Prep Date:	2/5/2014	Analysis Date:	2/6/2014	SeqNo:	477183	Units:	mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	ND	5.0									
Surr: BFB	910		1000		90.6	74.5	129				

Sample ID	LCS-11580	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range						
Client ID:	LCSS	Batch ID:	11580	RunNo:	16579						
Prep Date:	2/5/2014	Analysis Date:	2/6/2014	SeqNo:	477184	Units:	mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	21	5.0	25.00	0	86.0	74.5	126				
Surr: BFB	940		1000		93.8	74.5	129				

Sample ID	1402140-001AMS	SampType:	MS	TestCode:	EPA Method 8015D: Gasoline Range						
Client ID:	S. Floor	Batch ID:	11580	RunNo:	16579						
Prep Date:	2/5/2014	Analysis Date:	2/6/2014	SeqNo:	477186	Units:	mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	23	4.7	23.41	0	99.5	69.5	145				
Surr: BFB	980		936.3		105	74.5	129				

Sample ID	1402140-001AMSD	SampType:	MSD	TestCode:	EPA Method 8015D: Gasoline Range						
Client ID:	S. Floor	Batch ID:	11580	RunNo:	16579						
Prep Date:	2/5/2014	Analysis Date:	2/6/2014	SeqNo:	477187	Units:	mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	22	4.7	23.34	0	92.1	69.5	145	7.96	20		
Surr: BFB	830		933.7		89.1	74.5	129	0	0		

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#: 1402140

11-Feb-14

Client: Souder, Miller and Associates

Project: IEI- Concrete Disposal

Sample ID	MB-11580		SampType:	MBLK		TestCode:	EPA Method 8021B: Volatiles				
Client ID:	PBS		Batch ID:	11580		RunNo:	16579				
Prep Date:	2/5/2014		Analysis Date:	2/6/2014		SeqNo:	477197		Units: mg/Kg		
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	1.1		1.000		108	80	120				

Sample ID	LCS-11580		SampType: LCS		TestCode: EPA Method 8021B: Volatiles					
Client ID:	LCSS		Batch ID: 11580		RunNo: 16579					
Prep Date:	2/5/2014		Analysis Date: 2/6/2014		SeqNo: 477198		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.050	1.000	0	92.9	80	120			
Toluene	0.92	0.050	1.000	0	92.1	80	120			
Ethylbenzene	0.94	0.050	1.000	0	94.0	80	120			
Xylenes, Total	2.9	0.10	3.000	0	96.8	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		108	80	120			

Sample ID	1402140-002AMS		SampType:	MS		TestCode:	EPA Method 8021B: Volatiles				
Client ID:	SW Wall		Batch ID:	11580		RunNo:	16579				
Prep Date:	2/5/2014		Analysis Date:	2/6/2014		SeqNo:	477201		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.80	0.046	0.9200	0	87.5	67.4	135				
Toluene	0.80	0.046	0.9200	0.01435	85.3	72.6	135				
Ethylbenzene	0.83	0.046	0.9200	0	89.7	69.4	143				
Xylenes, Total	2.6	0.092	2.760	0.03809	91.3	70.8	144				
Surr: 4-Bromofluorobenzene	0.85		0.9200		92.8	80	120				

Sample ID	1402140-002AMSD		SampType: MSD		TestCode: EPA Method 8021B: Volatiles					
Client ID:	SW Wall		Batch ID: 11580		RunNo: 16579					
Prep Date:	2/5/2014		Analysis Date: 2/6/2014		SeqNo: 477202		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.86	0.046	0.9174	0	93.5	67.4	135	6.33	20	
Toluene	0.85	0.046	0.9174	0.01435	91.5	72.6	135	6.65	20	
Ethylbenzene	0.88	0.046	0.9174	0	95.7	69.4	143	6.20	20	
Xylenes, Total	2.7	0.092	2.752	0.03809	96.8	70.8	144	5.51	20	
Surr: 4-Bromofluorobenzene	0.96		0.9174		105	80	120	0	0	

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#: 1402140

11-Feb-14

Client: Souder, Miller and Associates

Project: IEI- Concrete Disposal

Sample ID	MB-11611	SampType:	MBLK	TestCode:	MERCURY, TCLP					
Client ID:	PBW	Batch ID:	11611	RunNo:	16631					
Prep Date:	2/6/2014	Analysis Date:	2/7/2014	SeqNo:	478494	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.020								

Sample ID	LCS-11611	SampType:	LCS	TestCode:	MERCURY, TCLP					
Client ID:	LCSW	Batch ID:	11611	RunNo:	16631					
Prep Date:	2/6/2014	Analysis Date:	2/7/2014	SeqNo:	478495	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.020	0.005000	0	101	80	120			

Sample ID	1402140-001AMS	SampType:	MS	TestCode:	MERCURY, TCLP					
Client ID:	S. Floor	Batch ID:	11611	RunNo:	16631					
Prep Date:	2/6/2014	Analysis Date:	2/7/2014	SeqNo:	478498	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.020	0.005000	0	99.1	75	125			

Sample ID	1402140-001AMSD	SampType:	MSD	TestCode:	MERCURY, TCLP					
Client ID:	S. Floor	Batch ID:	11611	RunNo:	16631					
Prep Date:	2/6/2014	Analysis Date:	2/7/2014	SeqNo:	478499	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.020	0.005000	0	98.3	75	125	0	20	

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#: 1402140

11-Feb-14

Client: Souder, Miller and Associates

Project: IEL- Concrete Disposal

Sample ID	MB-11624		SampType:	MBLK		TestCode:	EPA Method 6010B: TCLP Metals				
Client ID:	PBW		Batch ID:	11624		RunNo:	16609				
Prep Date:	2/7/2014		Analysis Date:	2/9/2014		SeqNo:	478048		Units: mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Arsenic	ND	5.0									
Barium	ND	100									
Cadmium	ND	1.0									
Chromium	ND	5.0									
Lead	ND	5.0									
Selenium	ND	1.0									
Silver	ND	5.0									

Sample ID	LCS-11624		SampType:	LCS		TestCode:	EPA Method 6010B: TCLP Metals				
Client ID:	LCSW		Batch ID:	11624		RunNo:	16609				
Prep Date:	2/7/2014		Analysis Date:	2/9/2014		SeqNo:	478049		Units: mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Arsenic	ND	5.0	0.5000	0	105	80	120				
Barium	ND	100	0.5000	0	93.8	80	120				
Cadmium	ND	1.0	0.5000	0	98.0	80	120				
Chromium	ND	5.0	0.5000	0	95.6	80	120				
Lead	ND	5.0	0.5000	0	92.2	80	120				
Selenium	ND	1.0	0.5000	0	99.3	80	120				
Silver	ND	5.0	0.1000	0	104	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 | |

Sample Log-In Check List

Client Name: SMA-FARM

Work Order Number: 1402140

RcptNo: 1

Received by/date: MG 02/05/14

Logged By: Lindsay Mangin 2/5/2014 10:00:00 AM [Signature]

Completed By: Lindsay Mangin 2/5/2014 12:41:12 PM [Signature]

Reviewed By: [Signature] 02/05/14

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? Client COURIER 02/05/14

Log In

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

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

Special Handling (If applicable)

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

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

17. Additional remarks:

18. Cooler Information

Cooler No.	Temp °C	Condition	Seal Intact	Seal No.	Seal Date	Signed By
1	1.0	Good	Not Present			

Chain-of-Custody Record

Client: Sander Miller & Associates

Mailing Address: 40122 Broadway
Formington NM 87101

Phone #: 505 325 7535

Email or Fax#: steven.masked@sandmiller.com

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

Accreditation
☐ NELAP ☐ Other _____

☐ EDD (Type) _____

☒ Standard ☐ Rush

Project Name: IEI - concrete Disposal

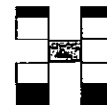
Project #: 5122921

Project Manager: Steve Masked

Sampler: Steve Masked

On Ice: ☒ Yes ☐ No

Sample Temperature: 4°C



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 + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals (TECP)	Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Air Bubbles (Y or N)
4/14	1015	concrete	S. Floor	8oz x 1	none	-001	X	X					X					
	1025		SE wall			-002												
	1040		Center wall			-003												
	1050		SE wall			-004												
	1055		NE wall			-005												
	1100		NW wall			-006												
	1110		N. Floor			-007												

Date: <u>4/14</u>	Time: <u>1240</u>	Relinquished by: <u>[Signature]</u>	Received by: <u>Christine Walker</u>	Date: <u>4/14</u>	Time: <u>1240</u>	Remarks: Please Analyze for DRO/GRO at or below 1000 mg/kg Benzene ≤ 10 mg/kg BTEX ≤ 500 mg/kg
Date: <u>4/14</u>	Time: <u>1731</u>	Relinquished by: <u>Christine Walker</u>	Received by: <u>[Signature]</u>	Date: <u>4/15/14</u>	Time: <u>1000</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

March 18, 2014

Steve Moskal
Souder, Miller and Associates
401 W. Broadway
Farmington, NM 87401
TEL: (505) 325-5667
FAX (505) 327-1496

RE: IEI Concrete Disposal

OrderNo.: 1403423

Dear Steve Moskal:

Hall Environmental Analysis Laboratory received 7 sample(s) on 3/11/2014 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 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'.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Client Sample ID: S. Floor

Project: IEI Concrete Disposal

Collection Date: 3/10/2014 10:10:00 AM

Lab ID: 1403423-001

Matrix: SOLID

Received Date: 3/11/2014 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	3400	99		mg/Kg	10	3/13/2014 6:31:36 PM	12127
Surr: DNOP	0	66-131	S	%REC	10	3/13/2014 6:31:36 PM	12127
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JMP
Gasoline Range Organics (GRO)	11	4.7		mg/Kg	1	3/13/2014 3:25:53 PM	12150
Surr: BFB	147	74.5-129	S	%REC	1	3/13/2014 3:25:53 PM	12150

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

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	E Value 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 1403423

Date Reported: 3/18/2014

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Souder, Miller and Associates**Client Sample ID:** SW Wall**Project:** IEI Concrete Disposal**Collection Date:** 3/10/2014 10:30:00 AM**Lab ID:** 1403423-002**Matrix:** SOLID**Received Date:** 3/11/2014 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	2500	1000		mg/Kg	100	3/14/2014 3:57:06 PM	12127
Surr: DNOP	0	66-131	S	%REC	100	3/14/2014 3:57:06 PM	12127
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JMP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/13/2014 12:05:56 PM	12150
Surr: BFB	94.6	74.5-129		%REC	1	3/13/2014 12:05:56 PM	12150

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

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

Project: IEI Concrete Disposal

Collection Date: 3/10/2014 10:45:00 AM

Lab ID: 1403423-003

Matrix: SOLID

Received Date: 3/11/2014 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	4600	100		mg/Kg	10	3/13/2014 7:16:09 PM	12127
Surr: DNOP	0	66-131	S	%REC	10	3/13/2014 7:16:09 PM	12127
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JMP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/13/2014 12:34:35 PM	12150
Surr: BFB	87.4	74.5-129		%REC	1	3/13/2014 12:34:35 PM	12150

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 3 of 9
	E	Value 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 1403423

Date Reported: 3/18/2014

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Souder, Miller and Associates**Client Sample ID:** SE Wall**Project:** IEI Concrete Disposal**Collection Date:** 3/10/2014 11:00:00 AM**Lab ID:** 1403423-004**Matrix:** SOLID**Received Date:** 3/11/2014 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	1800	100		mg/Kg	10	3/13/2014 8:00:34 PM	12127
Surr: DNOP	0	66-131	S	%REC	10	3/13/2014 8:00:34 PM	12127
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JMP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/13/2014 1:03:09 PM	12150
Surr: BFB	90.5	74.5-129		%REC	1	3/13/2014 1:03:09 PM	12150

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	E	Value 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: NW Wall
 Project: IEI Concrete Disposal Collection Date: 3/10/2014 11:15:00 AM
 Lab ID: 1403423-005 Matrix: SOLID Received Date: 3/11/2014 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	2000	100		mg/Kg	10	3/13/2014 8:22:54 PM	12127
Surr: DNOP	0	66-131	S	%REC	10	3/13/2014 8:22:54 PM	12127
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JMP
Gasoline Range Organics (GRO)	5.2	4.9		mg/Kg	1	3/13/2014 1:31:44 PM	12150
Surr: BFB	116	74.5-129		%REC	1	3/13/2014 1:31:44 PM	12150

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 5 of 9
	E	Value 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 1403423

Date Reported: 3/18/2014

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Souder, Miller and Associates**Client Sample ID:** NE Wall**Project:** IEI Concrete Disposal**Collection Date:** 3/10/2014 11:35:00 AM**Lab ID:** 1403423-006**Matrix:** SOLID**Received Date:** 3/11/2014 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	3300	100		mg/Kg	10	3/13/2014 8:44:58 PM	12127
Surr: DNOP	0	66-131	S	%REC	10	3/13/2014 8:44:58 PM	12127
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JMP
Gasoline Range Organics (GRO)	7.9	4.9		mg/Kg	1	3/13/2014 2:00:19 PM	12150
Surr: BFB	118	74.5-129		%REC	1	3/13/2014 2:00:19 PM	12150

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

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

Project: IEI Concrete Disposal

Collection Date: 3/10/2014 11:45:00 AM

Lab ID: 1403423-007

Matrix: SOLID

Received Date: 3/11/2014 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	4500	100		mg/Kg	10	3/13/2014 9:07:11 PM	12127
Surr: DNOP	0	66-131	S	%REC	10	3/13/2014 9:07:11 PM	12127
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JMP
Gasoline Range Organics (GRO)	78	24		mg/Kg	5	3/13/2014 11:37:17 AM	12150
Surr: BFB	166	74.5-129	S	%REC	5	3/13/2014 11:37:17 AM	12150

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 7 of 9
	E	Value 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#: 1403423

18-Mar-14

Client: Souder, Miller and Associates

Project: IEI Concrete Disposal

Sample ID	MB-12127	SampType:	MBLK	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	12127	RunNo:	17275					
Prep Date:	3/11/2014	Analysis Date:	3/13/2014	SeqNo:	498023	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	9.1		10.00		91.2	66	131			

Sample ID	LCS-12127	SampType:	LCS	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	12127	RunNo:	17275					
Prep Date:	3/11/2014	Analysis Date:	3/13/2014	SeqNo:	498432	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	10	50.00	0	100	60.8	145			
Surr: DNOP	4.7		5.000		94.5	66	131			

Sample ID	MB-12165	SampType:	MBLK	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	12165	RunNo:	17309					
Prep Date:	3/13/2014	Analysis Date:	3/14/2014	SeqNo:	499648	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	10		10.00		101	66	131			

Sample ID	MB-12173	SampType:	MBLK	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	12173	RunNo:	17309					
Prep Date:	3/13/2014	Analysis Date:	3/14/2014	SeqNo:	499649	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.4		10.00		83.6	66	131			

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#: 1403423

18-Mar-14

Client: Souder, Miller and Associates

Project: IEI Concrete Disposal

Sample ID	MB-12150	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	12150	RunNo:	17301					
Prep Date:	3/12/2014	Analysis Date:	3/13/2014	SeqNo:	498358	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	830		1000		82.6	74.5	129			

Sample ID	LCS-12150	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	12150	RunNo:	17301					
Prep Date:	3/12/2014	Analysis Date:	3/13/2014	SeqNo:	498359	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	5.0	25.00	0	114	71.7	134			
Surr: BFB	930		1000		93.4	74.5	129			

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: 1403423

ReptNo: 1

Received by/date:

LM 03/11/14

Logged By: Ashley Gallegos

3/11/2014 9:50:00 AM

Completed By: Ashley Gallegos

3/11/2014 4:37:02 PM

Reviewed By:

AG 03/12/14

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

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted?

Checked by:

Special Handling (if applicable)

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

Person Notified:

Date:

By Whom:

Via:

eMail

Phone

Fax

In Person

Regarding:

Client Instructions:

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.1	Good	Yes			

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



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

April 07, 2014

Steve Moskal

Souder, Miller and Associates

401 W. Broadway

Farmington, NM 87401

TEL: (505) 325-5667

FAX (505) 327-1496

RE: IEI

OrderNo.: 1404019

Dear Steve Moskal:

Hall Environmental Analysis Laboratory received 7 sample(s) on 4/1/2014 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 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,

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Client Sample ID: N. Floor

Project: IEI

Collection Date: 3/31/2014 10:22:00 AM

Lab ID: 1404019-001

Matrix: SOIL

Received Date: 4/1/2014 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	1100	98		mg/Kg	10	4/3/2014 11:53:02 AM	12475
Surr: DNQP	0	66-131	S	%REC	10	4/3/2014 11:53:02 AM	12475
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	4.7	4.6		mg/Kg	1	4/2/2014 4:56:50 PM	12480
Surr: BFB	106	74.5-129		%REC	1	4/2/2014 4:56:50 PM	12480

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

Qualifiers:	<ul style="list-style-type: none"> * 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 	<ul style="list-style-type: none"> 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
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Analytical Report

Lab Order 1404019

Date Reported: 4/7/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Client Sample ID: S. Floor

Project: IEI

Collection Date: 3/31/2014 10:20:00 AM

Lab ID: 1404019-002

Matrix: SOIL

Received Date: 4/1/2014 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	710	99		mg/Kg	10	4/3/2014 12:23:45 PM	12475
Surr: DNOP	0	66-131	S	%REC	10	4/3/2014 12:23:45 PM	12475
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/2/2014 5:25:30 PM	12480
Surr: BFB	89.6	74.5-129		%REC	1	4/2/2014 5:25:30 PM	12480

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	E	Value 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 1404019

Date Reported: 4/7/2014

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Souder, Miller and Associates**Client Sample ID:** NW Wall**Project:** IEI**Collection Date:** 3/31/2014 10:30:00 AM**Lab ID:** 1404019-003**Matrix:** SOIL**Received Date:** 4/1/2014 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	2100	100		mg/Kg	10	4/3/2014 12:54:30 PM	12475
Surr: DNOP	0	66-131	S	%REC	10	4/3/2014 12:54:30 PM	12475
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	15	4.8		mg/Kg	1	4/2/2014 5:54:09 PM	12480
Surr: BFB	181	74.5-129	S	%REC	1	4/2/2014 5:54:09 PM	12480

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

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

Project: IEI

Collection Date: 3/31/2014 10:32:00 AM

Lab ID: 1404019-004

Matrix: SOIL

Received Date: 4/1/2014 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	3500	100		mg/Kg	10	4/3/2014 1:25:03 PM	12475
Surr: DNOP	0	66-131	S	%REC	10	4/3/2014 1:25:03 PM	12475
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	10	4.6		mg/Kg	1	4/2/2014 6:22:48 PM	12480
Surr: BFB	145	74.5-129	S	%REC	1	4/2/2014 6:22:48 PM	12480

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 4 of 9
	E	Value 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: SE Wall

Project: IEI

Collection Date: 3/31/2014 10:34:00 AM

Lab ID: 1404019-005

Matrix: SOIL

Received Date: 4/1/2014 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	1200	99		mg/Kg	10	4/3/2014 1:55:36 PM	12475
Surr: DNOP	0	66-131	S	%REC	10	4/3/2014 1:55:36 PM	12475
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	27	4.9		mg/Kg	1	4/2/2014 6:51:22 PM	12480
Surr: BFB	273	74.5-129	S	%REC	1	4/2/2014 6:51:22 PM	12480

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

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	E Value 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 1404019

Date Reported: 4/7/2014

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Souder, Miller and Associates**Client Sample ID:** NE Wall**Project:** IEI**Collection Date:** 3/31/2014 10:36:00 AM**Lab ID:** 1404019-006**Matrix:** SOIL**Received Date:** 4/1/2014 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	340	10		mg/Kg	1	4/2/2014 7:32:26 PM	12475
Surr: DNOP	84.5	66-131		%REC	1	4/2/2014 7:32:26 PM	12475
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	20	5.0		mg/Kg	1	4/2/2014 7:19:59 PM	12480
Surr: BFB	208	74.5-129	S	%REC	1	4/2/2014 7:19:59 PM	12480

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

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	E Value 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 1404019

Date Reported: 4/7/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Client Sample ID: Center Wall

Project: IEI

Collection Date: 3/31/2014 10:38:00 AM

Lab ID: 1404019-007

Matrix: SOIL

Received Date: 4/1/2014 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	2500	100		mg/Kg	10	4/2/2014 4:29:08 PM	12475
Surr: DNOP	0	66-131	S	%REC	10	4/2/2014 4:29:08 PM	12475
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/2/2014 9:42:58 PM	12480
Surr: BFB	88.6	74.5-129		%REC	1	4/2/2014 9:42:58 PM	12480

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 7 of 9
	E	Value above quantitation range	II	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#: 1404019

07-Apr-14

Client: Souder, Miller and Associates

Project: IEI

Sample ID	MB-12475	SampType:	MBLK	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	12475	RunNo:	17730					
Prep Date:	4/1/2014	Analysis Date:	4/2/2014	SeqNo:	510986	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	9.3		10.00		93.4	66	131			

Sample ID	LCS-12475	SampType:	LCS	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	12475	RunNo:	17730					
Prep Date:	4/1/2014	Analysis Date:	4/2/2014	SeqNo:	511011	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	10	50.00	0	99.7	60.8	145			
Surr: DNOP	4.0		5.000		79.1	66	131			

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#: 1404019

07-Apr-14

Client: Souder, Miller and Associates

Project: IEI

Sample ID	MB-12480		SampType:	MBLK		TestCode:	EPA Method 8015D: Gasoline Range				
Client ID:	PBS		Batch ID:	12480		RunNo:	17762				
Prep Date:	4/1/2014		Analysis Date:	4/2/2014		SeqNo:	511646		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	ND	5.0									
Surr: BFB	870		1000		86.6	74.5	129				

Sample ID	LCS-12480		SampType:	LCS		TestCode:	EPA Method 8015D: Gasoline Range				
Client ID:	LCSS		Batch ID:	12480		RunNo:	17762				
Prep Date:	4/1/2014		Analysis Date:	4/2/2014		SeqNo:	511647		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	24	5.0	25.00	0	94.5	71.7	134				
Surr: BFB	940		1000		93.7	74.5	129				

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: 1404019

RcptNo: 1

Received by/date:	<i>[Signature]</i>	<i>04/01/14</i>
Logged By:	Lindsay Mangin	4/1/2014 10:00:00 AM
Completed By:	Lindsay Mangin	4/1/2014 10:28:48 AM
Reviewed By:	<i>[Signature]</i>	<i>04/01/14</i>

Chain of Custody

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

Log In

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

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

Special Handling (if applicable)

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

Person Notified:	<i>[Signature]</i>	Date:	<i>04/01/14</i>
By Whom:	<i>[Signature]</i>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<i>[Signature]</i>		
Client Instructions:	<i>[Signature]</i>		

17. Additional remarks:

18. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.5	Good	Yes			

Chain-of-Custody Record

Turn-Around Time:

Client: Souder Miller Associates

☒ Standard ☐ Rush

Project Name:

Mailing Address: 401 W Broadway

IEI

Farmington NM 87401

Project #:

Phone #: 505 325-7535

5122921 PG2

email or Fax#: Steven.mosked@soudermiller.com

Project Manager:

QA/QC Package:

☒ Standard ☐ Level 4 (Full Validation)

Steve Mosked

Accreditation

☐ NELAP ☐ Other

Sampler:

☐ EDD (Type)

☒ Yes ☐ No

Sample Temperature: 72.5

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEALING	BTEX + MTBE	BTEX + MTBE	APH 8015B	TPH (Method)	EDB (Method)	PAH's (8310)	RCRA 8 Me	Anions (F, Cl)	8081 Pestic	8260B (VOA)	8270 (Semi-			Air Bubbles
3/11/14	1028	concrete	N. Floor	4oz x 1	cool	-001														
	1020		S. floor			-002														
	1030		NW wall			-003														
	1032		SW wall			-004														
	1034		SE wall			-005														
✓	1036	✓	NE wall	✓	✓	-006														
	1038		Center wall			-007														

Date: Time: Relinquished by:

Received by:

Date Time

Remarks:

3/11/14 1654 [Signature]

Christen Walter 3/31/14 1654

Date: Time: Relinquished by:

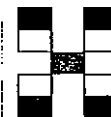
Received by:

Date Time

3/31/14 1747 Christen Walter

[Signature] 04/01/14 1000

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



**HALL ENVIRONMENTAL
ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request



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

March 30, 2015

Steve Moskal

Souder, Miller and Associates

401 W. Broadway

Farmington, NM 87401

TEL: (505) 325-5667

FAX (505) 327-1496

RE: IEI Concrete Impoundment Closure

OrderNo.: 1503B67

Dear Steve Moskal:

Hall Environmental Analysis Laboratory received 2 sample(s) on 3/25/2015 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates **Client Sample ID:** North SC
Project: IEI Concrete Impoundment Closure **Collection Date:** 3/24/2015 11:30:00 AM
Lab ID: 1503B67-001 **Matrix:** SOIL **Received Date:** 3/25/2015 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	3/27/2015 3:58:53 PM	18350
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/27/2015 3:58:53 PM	18350
Surr: DNOP	89.5	63.5-128		%REC	1	3/27/2015 3:58:53 PM	18350
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/28/2015 1:38:25 AM	18355
Surr: BFB	92.3	80-120		%REC	1	3/28/2015 1:38:25 AM	18355
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.049		mg/Kg	1	3/28/2015 1:38:25 AM	18355
Toluene	ND	0.049		mg/Kg	1	3/28/2015 1:38:25 AM	18355
Ethylbenzene	ND	0.049		mg/Kg	1	3/28/2015 1:38:25 AM	18355
Xylenes, Total	ND	0.098		mg/Kg	1	3/28/2015 1:38:25 AM	18355
Surr: 4-Bromofluorobenzene	103	80-120		%REC	1	3/28/2015 1:38:25 AM	18355

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

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	E Value 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 Not In Range
	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: South SC

Project: IEI Concrete Impoundment Closure

Collection Date: 3/24/2015 11:37:00 AM

Lab ID: 1503B67-002

Matrix: SOIL

Received Date: 3/25/2015 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	52	10		mg/Kg	1	3/27/2015 4:20:28 PM	18350
Motor Oil Range Organics (MRO)	330	50		mg/Kg	1	3/27/2015 4:20:28 PM	18350
Surr: DNOP	118	63.5-128		%REC	1	3/27/2015 4:20:28 PM	18350
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/28/2015 2:07:02 AM	18355
Surr: BFB	92.5	80-120		%REC	1	3/28/2015 2:07:02 AM	18355
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.048		mg/Kg	1	3/28/2015 2:07:02 AM	18355
Toluene	ND	0.048		mg/Kg	1	3/28/2015 2:07:02 AM	18355
Ethylbenzene	ND	0.048		mg/Kg	1	3/28/2015 2:07:02 AM	18355
Xylenes, Total	ND	0.095		mg/Kg	1	3/28/2015 2:07:02 AM	18355
Surr: 4-Bromofluorobenzene	104	80-120		%REC	1	3/28/2015 2:07:02 AM	18355

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 2 of 5
	E	Value 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 Not In Range	
	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#: 1503B67

30-Mar-15

Client: Souder, Miller and Associates
Project: IEI Concrete Impoundment Closure

Sample ID	MB-18350	SampType:	MBLK	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	18350	RunNo:	25115					
Prep Date:	3/26/2015	Analysis Date:	3/27/2015	SeqNo:	741755	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.4		10.00		93.8	63.5	128			

Sample ID	LCS-18350	SampType:	LCS	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	18350	RunNo:	25115					
Prep Date:	3/26/2015	Analysis Date:	3/27/2015	SeqNo:	741859	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	10	50.00	0	100	67.8	130			
Surr: DNOP	5.0		5.000		99.6	63.5	128			

Sample ID	MB-18404	SampType:	MBLK	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	18404	RunNo:	25149					
Prep Date:	3/30/2015	Analysis Date:	3/30/2015	SeqNo:	743092	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.9		10.00		98.8	63.5	128			

Sample ID	LCS-18404	SampType:	LCS	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	18404	RunNo:	25149					
Prep Date:	3/30/2015	Analysis Date:	3/30/2015	SeqNo:	743093	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.0		5.000		99.7	63.5	128			

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 Not In Range |
| 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#: 1503B67

30-Mar-15

Client: Souder, Miller and Associates

Project: IEI Concrete Impoundment Closure

Sample ID	MB-18353	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	18353	RunNo:	25124					
Prep Date:	3/26/2015	Analysis Date:	3/27/2015	SeqNo:	742094	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	900		1000		89.7	80	120			

Sample ID	LCS-18353	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	18353	RunNo:	25124					
Prep Date:	3/26/2015	Analysis Date:	3/27/2015	SeqNo:	742095	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1000		1000		102	80	120			

Sample ID	MB-18355	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	18355	RunNo:	25124					
Prep Date:	3/26/2015	Analysis Date:	3/27/2015	SeqNo:	742102	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	910		1000		91.2	80	120			

Sample ID	LCS-18355	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	18355	RunNo:	25124					
Prep Date:	3/26/2015	Analysis Date:	3/27/2015	SeqNo:	742103	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	97.5	64	130			
Surr: BFB	990		1000		99.2	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 Not In Range
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1503B67

30-Mar-15

Client: Souder, Miller and Associates

Project: IEI Concrete Impoundment Closure

Sample ID	MB-18353		SampType:	MBLK		TestCode:	EPA Method 8021B: Volatiles				
Client ID:	PBS		Batch ID:	18353		RunNo:	25124				
Prep Date:	3/26/2015		Analysis Date:	3/27/2015		SeqNo:	742117		Units: %REC		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: 4-Bromofluorobenzene	1.0		1.000		102	80	120				

Sample ID	LCS-18353		SampType: LCS		TestCode: EPA Method 8021B: Volatiles					
Client ID:	LCSS		Batch ID: 18353		RunNo: 25124					
Prep Date:	3/26/2015		Analysis Date: 3/27/2015		SeqNo: 742118		Units: %REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.1		1.000		108	80	120			

Sample ID	MB-18355	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	18355	RunNo:	25124					
Prep Date:	3/26/2015	Analysis Date:	3/27/2015	SeqNo:	742123	Units:	mg/Kg			
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		103	80	120			

Sample ID	LCS-18355		SampType: LCS		TestCode: EPA Method 8021B: Volatiles					
Client ID:	LCSS		Batch ID: 18355		RunNo: 25124					
Prep Date:	3/26/2015		Analysis Date: 3/27/2015		SeqNo: 742124		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.050	1.000	0	110	76.6	128			
Toluene	1.1	0.050	1.000	0	106	75	124			
Ethylbenzene	1.0	0.050	1.000	0	104	79.5	126			
Xylenes, Total	3.1	0.10	3.000	0	103	78.8	124			
Surr: 4-Bromofluorobenzene	1.1		1.000		109	80	120			

Qualifiers:

- | | |
|---|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| E Value above quantitation range | II 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 Not In Range |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S Spike Recovery outside accepted recovery limits | |



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

Sample Log-In Check List

Client Name: SMA-FARM

Work Order Number: 1503B67

RcptNo: 1

Received by/date:

LM 03/25/15

Logged By: Ashley Gallegos

3/25/2015 7:55:00 AM

Completed By: Ashley Gallegos

3/25/2015 5:55:37 PM

Reviewed By:

JA 03/26/15

Chain of Custody

1. Custody seals intact on sample bottles?

Yes ☐

No ☐

Not Present ☒

2. Is Chain of Custody complete?

Yes ☒

No ☐

Not Present ☐

3. How was the sample delivered?

Courier

Log In

4. Was an attempt made to cool the samples?

Yes ☒

No ☐

NA ☐

5. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ?

Yes ☒

No ☐

NA ☐

6. Sample(s) in proper container(s)?

Yes ☒

No ☐

7. Sufficient sample volume for indicated test(s)?

Yes ☒

No ☐

8. Are samples (except VOA and ONG) properly preserved?

Yes ☒

No ☐

9. Was preservative added to bottles?

Yes ☐

No ☒

NA ☐

10. VOA vials have zero headspace?

Yes ☐

No ☐

No VOA Vials ☒

11. Were any sample containers received broken?

Yes ☐

No ☒

of preserved
bottles checked
for pH:

12. Does paperwork match bottle labels?

Yes ☒

No ☐

(<2 or >12 unless noted)

(Note discrepancies on chain of custody)

13. Are matrices correctly identified on Chain of Custody?

Yes ☒

No ☐

Adjusted?

14. Is it clear what analyses were requested?

Yes ☒

No ☐

15. Were all holding times able to be met?

Yes ☒

No ☐

Checked by:

(If no, notify customer for authorization.)

Special Handling (If applicable)

16. Was client notified of all discrepancies with this order?

Yes ☐

No ☐

NA ☒

Person Notified:

Date

By Whom:

Via:

☐ eMail

☐ Phone

☐ Fax

☐ In Person

Regarding:

Client Instructions:

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.7	Good	Yes			

Chain-of-Custody Record		Turn-Around Time:	
Client: SMA		<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush	
Mailing Address: 401 W Broadway		Project Name: IEI Concrete	
Farmington, NM 87401		Impoundment Closure	
Phone #: (505) 325-7535		Project #:	
Email or Fax#: Alicia.fattersen@saidermiller.com		5122921	
2A/QC Package:		Project Manager:	
<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Level 4 (Full Validation)		Steve Moskal	
Accreditation		Sampler: ADP	
<input type="checkbox"/> NELAP <input type="checkbox"/> Other		On Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
<input type="checkbox"/> EDD (Type)		Sample Temperature: 1.7	

☒ Standard ☐ Rush

Impoundment Closure

Project #:

Project Manager:

Steve Moskal

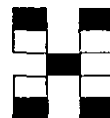
Sampler: AAP

On Ice: ☒ Yes ☐ No

Sample Temperature: 17

[illegible]

Date:	Time:	Relinquished by:	Received by:	Date	Time
12/4/15	1346	<i>[Signature]</i>	<i>[Signature]</i>	3/24/15	1346
Date:	Time:	Relinquished by:	Received by:	Date	Time
12/4/15	1944	<i>[Signature]</i>	<i>[Signature]</i>	12/25/15	07.5



www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

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

Remarks:
please copy
Steven.moskal@Soudermiller.com



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

May 18, 2015

Steve Moskal

Souder, Miller and Associates

401 W. Broadway

Farmington, NM 87401

TEL: (505) 325-5667

FAX (505) 327-1496

RE: IEI Concrete

OrderNo.: 1505479

Dear Steve Moskal:

Hall Environmental Analysis Laboratory received 1 sample(s) on 5/12/2015 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Client Sample ID: SC-1 S Base

Project: IEI Concrete

Collection Date: 5/11/2015 9:45:00 AM

Lab ID: 1505479-001

Matrix: SOIL

Received Date: 5/12/2015 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	5/13/2015 9:20:37 PM	19176
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/13/2015 9:20:37 PM	19176
Surr: DNOP	109	57.9-140		%REC	1	5/13/2015 9:20:37 PM	19176
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/15/2015 12:32:00 AM	19184
Surr: BFB	89.1	80-120		%REC	1	5/15/2015 12:32:00 AM	19184
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.049		mg/Kg	1	5/15/2015 12:32:00 AM	19184
Toluene	ND	0.049		mg/Kg	1	5/15/2015 12:32:00 AM	19184
Ethylbenzene	ND	0.049		mg/Kg	1	5/15/2015 12:32:00 AM	19184
Xylenes, Total	ND	0.097		mg/Kg	1	5/15/2015 12:32:00 AM	19184
Surr: 4-Bromofluorobenzene	97.3	80-120		%REC	1	5/15/2015 12:32:00 AM	19184

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

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	E Value 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 Not In Range
	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#: 1505479

18-May-15

Client: Souder, Miller and Associates

Project: IEI Concrete

Sample ID	MB-19176	SampType:	MBLK	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	19176	RunNo:	26152					
Prep Date:	5/12/2015	Analysis Date:	5/13/2015	SeqNo:	775893	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		106	57.9	140			

Sample ID	LCS-19176	SampType:	LCS	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	19176	RunNo:	26152					
Prep Date:	5/12/2015	Analysis Date:	5/13/2015	SeqNo:	775894	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	54	10	50.00	0	108	67.8	130			
Surr: DNOP	5.6		5.000		111	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 Not In Range
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1505479

18-May-15

Client: Souder, Miller and Associates

Project: IEI Concrete

Sample ID	MB-19184	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	19184	RunNo:	26208					
Prep Date:	5/12/2015	Analysis Date:	5/14/2015	SeqNo:	777553	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	930		1000		92.7	80	120			

Sample ID	LCS-19184	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	19184	RunNo:	26208					
Prep Date:	5/12/2015	Analysis Date:	5/14/2015	SeqNo:	777554	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	96.0	64	130			
Surr: BFB	1000		1000		102	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 Not In Range |
| 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#: 1505479

18-May-15

Client: Souder, Miller and Associates

Project: IEI Concrete

Sample ID	MB-19184	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	19184	RunNo:	26208					
Prep Date:	5/12/2015	Analysis Date:	5/14/2015	SeqNo:	777657	Units:	mg/Kg			
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	1.1		1.000		107	80	120			

Sample ID	LCS-19184		SampType: LCS		TestCode: EPA Method 8021B: Volatiles					
Client ID:	LCSS		Batch ID: 19184		RunNo: 26208					
Prep Date:	5/12/2015		Analysis Date: 5/14/2015		SeqNo: 777658		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.050	1.000	0	101	76.6	128			
Toluene	0.99	0.050	1.000	0	98.7	75	124			
Ethylbenzene	1.0	0.050	1.000	0	101	79.5	126			
Xylenes, Total	3.0	0.10	3.000	0	100	78.8	124			
Surr: 4-Bromofluorobenzene	1.2		1.000		115	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 Not In Range
RL Reporting Detection Limit



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

Sample Log-In Check List

Client Name: SMA-FARM

Work Order Number: 1505479

RcptNo: 1

Received by/date:

Logged By: Lindsay Mangin

5/12/2015 7:00:00 AM

Completed By: Lindsay Mangin

5/12/2015 9:08:17 AM

Reviewed By:

CS

05/12/15

Chain of Custody

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

Log In

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

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

Special Handling (if applicable)

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

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

17. Additional remarks:

18. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.8	Good	Yes			

Chain-of-Custody Record

Client: SMA

Mailing Address: 401 W Broadway

Farmington, NM 87401

Phone #: 505 325-7535

email or Fax#: skwen.moskal@southernmiller.com

QA/QC Package:

☒ Standard ☐ Level 4 (Full Validation)

Accreditation

☐ NELAP ☐ Other

☐ EDD (Type)

Turn-Around Time:

☒ Standard ☐ Rush

Project Name:

IEI concrete

Project #:

5122921

Project Manager:

Steven Moskal

Sampler:

On Ice:

Sample Temperature: 4 20.5

Container Type and #

Preservative Type

HEAL No.

1505479

Date

Time

Matrix

Sample Request ID

5/11/15

0945

Soil

SC-1 S Base

1 4oz

—

-001

BTEX + MTBE + TPH (Gas only)

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, NO₃, NO₂, PO₄, SO₄)

8081 Pesticides / 8082 PCB's

8260B (VOA)

8270 (Semi-VOA)

Air Bubbles (Y or N)

Date:

Time:

Relinquished by:

Received by:

Date

Time

Remarks:

Date:

Time:

Relinquished by:

Received by:

Date

Time

Remarks:

5/11/15 1644 Jesse E Sprague

5/11/15 1644 Christine Waets

5/11/15 1821 Christine Waeters

5/12/15 0700

Please Copy

Jesse. Sprague@southernmiller.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**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

APPENDIX D

DISPOSAL OF PETROLEUM-CONTAMINATED CONCRETE APPROVAL LETTER

State of New Mexico
Energy, Minerals and Natural Resources Department

RECEIVED

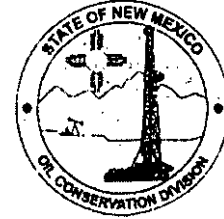
OCT 7 - 2014

Susana Martinez
Governor

David Martin
Cabinet Secretary

Brett F. Woods, Ph.D.
Deputy Cabinet Secretary

Jami Bailey, Division Director
Oil Conservation Division



October 3, 2014

Marcella Marquez
Industrial Ecosystems
PO Box 2043
Farmington, New Mexico 87499

RE: Disposal of Petroleum-Contaminated Concrete from the JFJ Landfarm

Marcella,

The Oil Conservation Division (OCD) has reviewed recent correspondence sent on your behalf by Souder, Miller and Associates regarding the proposed disposal of approximately 65 cubic yards of concrete debris generated during demolition of a stabilization pad at your JFJ Landfarm facility. OCD acknowledges disposal of the material will be made at the Bondad Landfill in Colorado.

If you have any questions, please feel free to contact me at jim.griswold@state.nm.us or (505) 476-3465.

Respectfully,

Jim Griswold
Environmental Bureau Chief

cc: Cindy Grey, Souder, Miller & Associates
Brad Jones, OCD

APPENDIX E

CONCRETE DISPOSAL DOCUMENTATION

WCA Bondad Landfill
PO Box 215
Bloomfield, NM 87413
9702478295

000100
B\TRUCK
BONDAD
BONDAD, CO 1

GROSS WEIGHT
TARE WEIGHT
NET WEIGHT

SITE	TICKET	SCALE OPERATOR	ORIGIN
01	163703	PHICKS	New Mexico
DATE IN	DATE OUT	TIME IN	TIME OUT
12/10/14	12/10/14	11:04 am	11:04 am
REFERENCE	VEHICLE	ROLL OFF	
	B\TRUCK		

GATE RATE FEB 2014

CASH
INBOUND

3735267

QTY:	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
12.00	YD	Concrete Clean Small	\$22.45	\$269.40	\$4.80	\$274.20
1.00		Energy Recovery Fee	\$10.30	\$27.75	\$0.00	\$27.75
1.00		Environmental Fee	\$6.50	\$17.51	\$0.00	\$17.51

1500 East CR 318, Durango, CO 81301

*Pit
Concrete disposal*

78000.2

WARNING: Transporting any unauthorized hazardous waste to this facility for disposal is prohibited by law. Persons violating this prohibition are subject to civil and criminal prosecutions.

SIGNATURE *X*

NET AMOUNT
\$319.46
TENDERED
\$319.46
CHANGE
\$0.00
CHECK NO.
0050

WCA Bondad Landfill
PO Box 215
Bloomfield, NM 87413
9702478295

001033
INDUSTRIAL ECOSYSTEMS, INC
49 ROAD 3150
AZTEC, NM 87410

GROSS WEIGHT
TARE WEIGHT
NET WEIGHT

SITE 01	TICKET 163728	SCALE OPERATOR PHICKS	ORIGIN New Mexico
DATE IN 12/10/14	DATE OUT 12/10/14	TIME IN 2:21 pm	TIME OUT 2:21 pm
REFERENCE 2909	VEHICLE INDUSTRIAL ECO	ROLL OFF	

INVOICE
INBOUND

GATE RATE FEB 2014

3735335

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
12.00	YD	Concrete Clean Small	\$22.45	\$269.40	\$4.80	\$274.20
1.00		Energy Recovery Fee	\$10.30	\$27.75	\$0.00	\$27.75
1.00		Environmental Fee	\$6.50	\$17.51	\$0.00	\$17.51

1500 East CR 318, Durango, CO 81301

NET AMOUNT
\$319.46

TENDERED
\$0.00

CHANGE
\$0.00

CHECK NO.

WARNING: Transporting any unauthorized hazardous waste to this facility for disposal is prohibited by law. Persons violating this prohibition are subject to civil and criminal prosecutions.

SIGNATURE *X*

WCA Bondad Landfill
PO. Box 215
Bloomfield, NM 87413
9702478295

001033
INDUSTRIAL ECOSYSTEMS, INC
49 ROAD 3150
AZTEC, NM 87410

GROSS WEIGHT
TARE WEIGHT
NET WEIGHT

SITE	TICKET	SCALE OPERATOR	ORIGIN
01	163868	sbemelen	
DATE IN	DATE OUT	TIME IN	TIME OUT
12/16/14	12/16/14	12:11 pm	12:11 pm
REFERENCE	VEHICLE	ROLL OFF	
PO# 2923	INDUSTRIAL ECO		

INVOICE
INBOUND

GATE RATE FEB 2014

3735556

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
10.00	YD	Concrete Clean Small	\$22.45	\$224.50	\$4.00	\$228.50
1.00		Environmental Fee	\$6.50	\$14.59	\$0.00	\$14.59
1.00		Energy Recovery Fee	\$9.15	\$20.54	\$0.00	\$20.54

1500 East CR 318, Durango, CO 81301

NET AMOUNT

\$263.63

\$0.00

CHECK NO.

WARNING: Transporting any unauthorized hazardous waste to this facility
for disposal is prohibited by law. Persons violating this prohibition are
subject to civil and criminal prosecutions.

SIGNATURE X

Re order from Bill Price & Associates Solutions 1.800.214.8784

Form # 1035 WCA/ever

WCA Bondad Landfill
PO. Box 215
Bloomfield, NM 87413
9702478295

001033
INDUSTRIAL ECOSYSTEMS, INC
49 ROAD 3150
AZTEC, NM 87410

GROSS WEIGHT
TARE WEIGHT
NET WEIGHT

SITE	TICKET	SCALE OPERATOR	ORIGIN
01	163882	sbemelen	
DATE IN	DATE OUT	TIME IN	TIME OUT
12/16/14	12/16/14	2:41 pm	2:41 pm
REFERENCE	VEHICLE	ROLL OFF	
2924	INDUSTRIAL ECO		

INVOICE
INBOUND

GATE RATE FEB 2014

3735542

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
8.00	YD	Concrete Clean Small	\$22.45	\$179.60	\$3.20	\$182.80
1.00		Environmental Fee	\$6.50	\$11.67	\$0.00	\$11.67
1.00		Energy Recovery Fee	\$9.15	\$16.43	\$0.00	\$16.43

1500 East CR 318, Durango, CO 81301

\$210.90 NET AMOUNT

\$0.00 TENDERED

\$0.00 CHANGE

CHECK NO.

WARNING: Transporting any unauthorized hazardous waste to this facility for disposal is prohibited by law. Persons violating this prohibition are subject to civil and criminal prosecutions.

SIGNATURE X

Reorder from WCA Plant & Promotion Solutions 1 800 254 0784

Form # 1035 WCA User

APPENDIX F

EMAIL CORRESPONDENCE REGARDING CLOSURE APPROVAL

Marcella Marquez

From: Smith, Cory, EMNRD [Cory.Smith@state.nm.us]
Sent: Thursday, April 23, 2015 9:23 AM
To: Marcella Marquez
Cc: Powell, Brandon, EMNRD; Steven Moskal (steven.moskal@soudermiller.com); Jones, Brad A., EMNRD
Subject: RE: Concrete Impoundment Soil Samples

Ms. Marquez,

As per your attached closure plan, the soil samples meet the closure requirements of 19.15.29 NMAC. Please follow the rest of your closure plan for the concrete containment.

If you have questions you may contact me at the numbers listed below

Thank you,

Cory Smith
Environmental Specialist
Oil Conservation Division
Energy, Minerals, & Natural Resources
1000 Rio Brazos, Aztec, NM 87410
(505)334-6178 ext 115
cory.smith@state.nm.us

From: Marcella Marquez [mailto:marcella@industrialecosystems.com]
Sent: Wednesday, April 22, 2015 3:12 PM
To: Smith, Cory, EMNRD
Subject: RE: Concrete Impoundment Soil Samples

Cory:

As per your request, attached please find the Closure Plan.

*Thanks,
Marcella Marquez, HSE Administrator
Industrial Ecosystems, Inc.
Phone: (505) 632-1782
Fax: (505) 632-1876 or (505) 334-1003*

From: Smith, Cory, EMNRD [mailto:Cory.Smith@state.nm.us]
Sent: Wednesday, April 22, 2015 2:38 PM
To: Marcella Marquez
Subject: RE: Concrete Impoundment Soil Samples

4/23/2015

Marcella,

Can you send me a copy of the closure plan. I actually don't have one

From: Marcella Marquez [<mailto:marcella@industrialecosystems.com>]

Sent: Wednesday, April 22, 2015 10:00 AM

To: Smith, Cory, EMNRD

Subject: Concrete Impoundment Soil Samples

Importance: High

Cory:

As per our telephone conversation, attached please find the Concrete Impoundment Soil sampling analytical report. Steve had mentioned that the two of you discussed excavating another 1' – 2' feet from the South end of the impoundment to remove the remaining contaminated soils.

Once you've had time to review the report and the closure plan, please let me know how IEI will need to proceed.

Thanks,

*Marcella Marquez, HSE Administrator
Industrial Ecosystems, Inc.*

Phone: (505) 632-1782

Fax: (505) 632-1876 or (505) 334-1003

APPENDIX G
PHOTOGRAPHIC DOCUMENTATION

Site Photographs
Industrial Ecosystems, Inc. Concrete Impoundment Closure

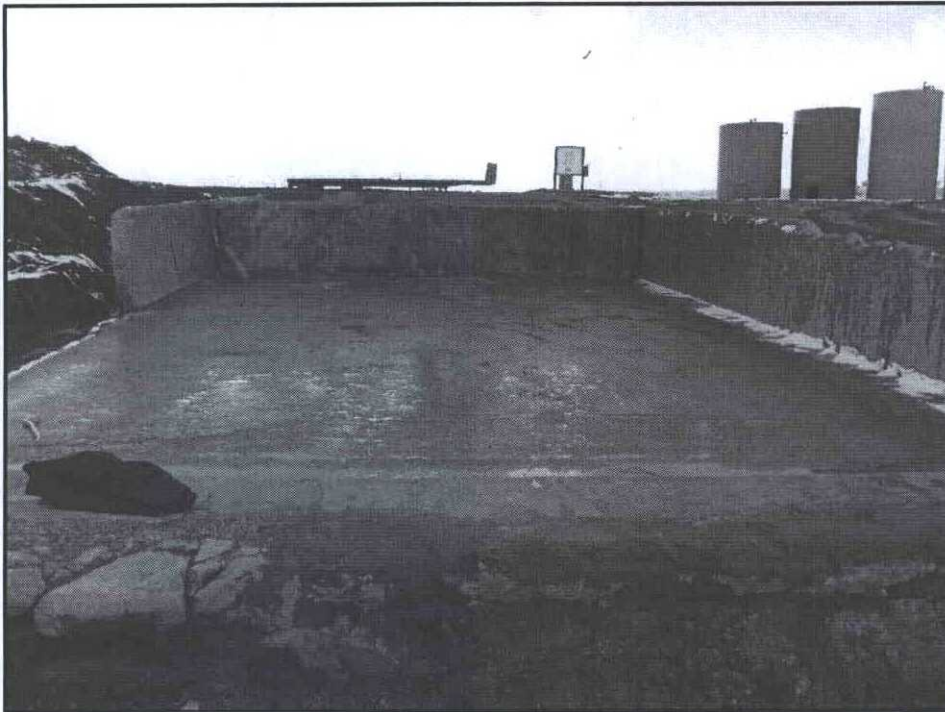
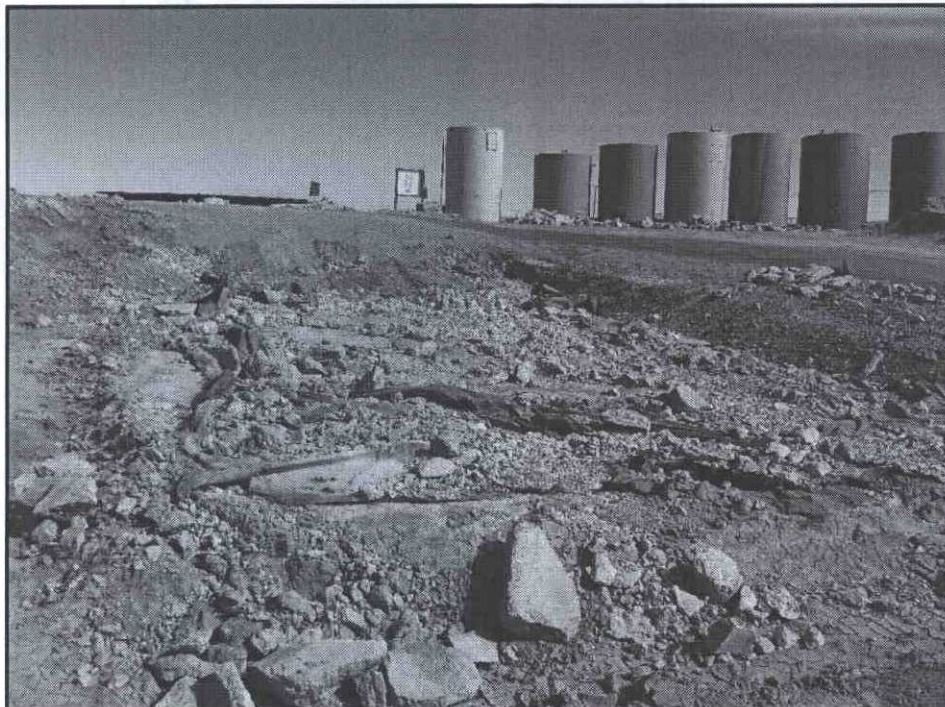


Photo 1: View, looking north of the concrete impoundment structure during the first concrete sampling



event on February 4, 2014.

Photo 2: View of the demolished concrete impoundment during the third concrete sampling event on March 31, 2014.

Site Photographs
Industrial Ecosystems, Inc. Concrete Impoundment Closure



Photo 3: Concrete debris layed out in segements representing each wall and floor section during the third concrete sampling event on March 31, 2014.



Photo 4: Excavation of the soils below the north half of the concrete impoundment on March 24, 2015..

Site Photographs
Industrial Ecosystems, Inc. Concrete Impoundment Closure



Photo 5: The extent of the excavation on March 24, 2015, looking south.



Photo 6: Photo of the excavated area after completion of backfill, looking north.

Site Photographs
Industrial Ecosystems, Inc. Concrete Impoundment Closure



Photo 7: View of the borrow area where virgin soils were obtained for backfill, just southeast of the concrete impoundment location.