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

ÿ.,

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 tota I 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

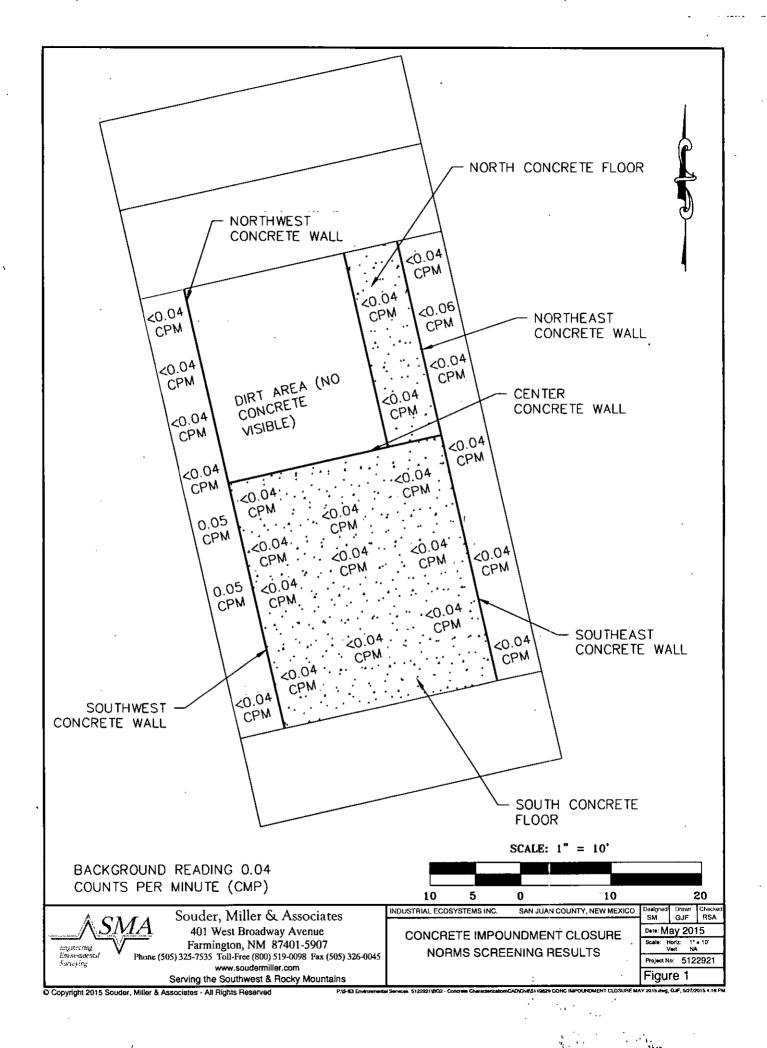
Table 1: Concrete Laboratory Results Summary

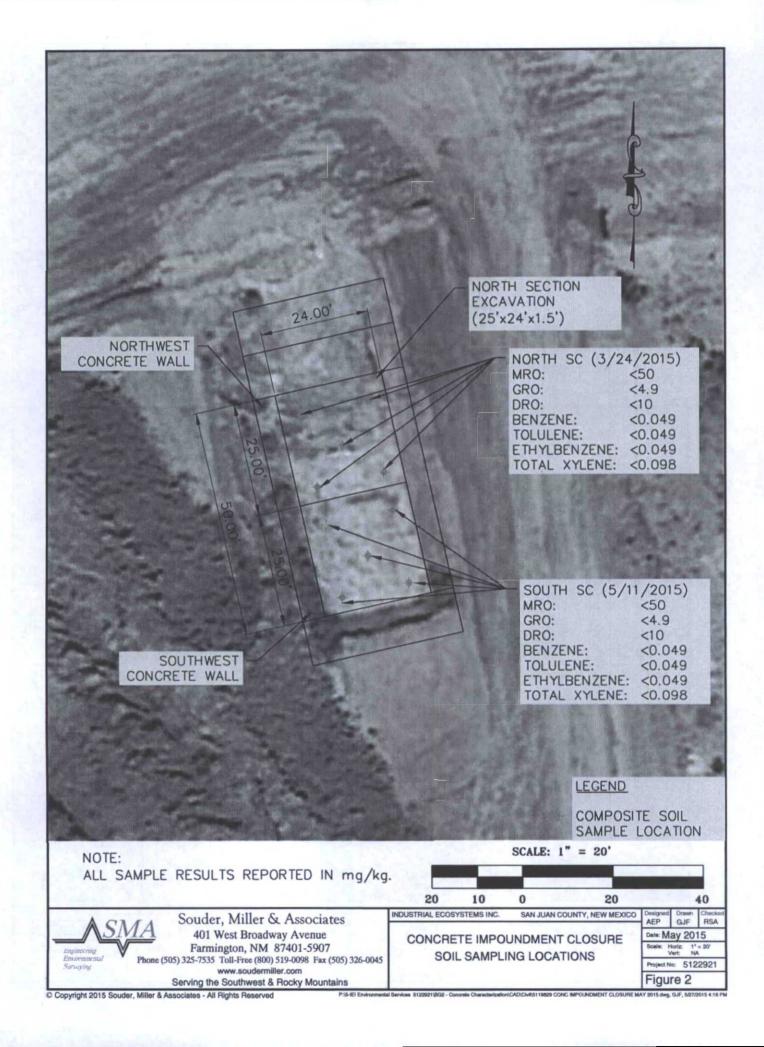
						Indust	rial Ecos	ystems I	nc.								
				Co	ncrete l	mpound	ment Con	crete Disp	osal Sam	pling							
				BTEX (mg/kg)			Total Petr	oleum Hyd (mg/kg)	eum Hydrocarbon mg/kg)			RCRA 8 Metals (mg/L)					
Date	Location	Time	Benzene	Toluene	Ethylben- zene	Xylene	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Range Organics (MRO)	Arsenic	Barium	Cadnium	Chromium	Lead	Mercury	Selenium	Silver
2/4/2014	South Floor	10:15	<0.047	<0.047	<0.047	<0.093	<4.7	380	N/A	<5.0	<100	<1.0	<5.0	<5.0	<0.020	<1.0	<5.0
2/4/2014	SW Wall	10:25	<0.046	<0.046	<0.046	<0.092	<4.6	3500	N/A	<5.0	<100	<1.0	<5.0	<5.0	<0.020		<5.0
2/4/2014	Center Wall	10:40	<0.048	<0.048	<0.048	<0.096	<4.8	6400	N/A	<5.0	<100	<1.0	<5.0	<5.0	<0.020		<5.0
2/4/2014	SE Wall	10:50	<0.047	<0.047	<0.047	<0.094	<4.7	3900	N/A	<5.0	<100	<1.0	<5.0	<5.0	<0.020		<5.0
2/4/2014	NE Wall	10:55	<0.050	<0.050	<0.050	0.34	6.7	3900	N/A	<5.0	<100	<1.0	<5.0	 	<0.020	<1.0	<5.0
2/4/2014	NW Wall	11:00	<0.048	<0.048	<0.048	<0.096	<4.8	1800	N/A	<5.0	<100	<1.0	<5.0	<5.0	<0.020	<1.0	<5.0
2/4/2014	North Floor	11:10	<0.046	<0.046	<0.046	0.29	8.9	2500	N/A	<5.0	<100	<1.0	<5.0	<5.0	<0.020	<1.0	<5.0
3/10/2014	South Floor	10:00	N/A	N/A	N/A	N/A	11	3400	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3/10/2014	SW Wall	10:30	N/A	N/A	N/A	N/A	<4.9	2500	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3/10/2014	Center Wall	10:45	N/A	N/A	N/A	N/A	<4.9	4600	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3/10/2014	SE Wall	11:00	N/A	N/A	N/A	N/A	<4.8	1800	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3/10/2014	NE Wall	11:35	N/A	N/A	N/A	N/A	7.9	3300	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3/10/2014	NW Wall	11:15	N/A	N/A	N/A	N/A	5.2	2000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3/10/2014	North Floor	11:45	N/A	N/A	N/A_	N/A	78	4500	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3/31/2014	South Floor	10:20	N/A	N/A	N/A	N/A	<5.0	710	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3/31/2014	SW Wall	10:32	N/A	N/A	N/A	N/A	10	3500	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3/31/2014	Center Wall	10:38	N/A	N/A	N/A	N/A	<4.8	2500	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3/31/2014	SE Wall	10:34	N/A	N/A	N/A	N/A	27	1200	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3/31/2014	NE Wall	10:36	N/A	N/A	N/A	N/A	20	340	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3/31/2014	NW Wall	10:30	N/A	N/A	N/A	N/A	. 15	2100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3/31/2014	North Floor	10:22	N/A	N/A	N/A	N/A	4.7	1100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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				
3/24/2015	NW Base	9:55	10:03	0.5	68			
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	441			
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

Industrial Ecosystems Inc. Concrete Impoundment Soil Sampling										
					BTEX (ı	mg/kg)		Total Petr	oleum Hyd	Irocarbon
			Dotroflag	or .	4)	۲		Gasoline	Diesel	Motor
Date	Location	Time	Petroflag (TPH)	ien.	Benzene Toluene	nylber zene	ene	Range	Range	Range
	,		(IPA)	enz		Ethylben zene	Xylene	Organics	Organics	Organics
				<u> </u>	-	Ē		(GRO)	(DRO)	(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						330
5/11/2015	SC-1 S Base	9:45	821	<0.049	<0.049	<0.049	<0.097	<4.9	<9.8	<49







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.

AND THE SAME STATE OF

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

Form: Rev: 26 Jun 2007

Certificate of Calibration



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

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 Scrial Number: 10102

Probe Mfg: Johnson

Probe Model: MRSP-1

Ref. #: W8141-033721

HP Count Rate (2pi)

Calibration/Ver. 18-Dec-2014

Calibration 18-Dec-2013

Due Date:

Pressure (hg)

Basic Information Humidity (%)

Lab Efevation (ft)

4750

Ambient Temperature

25.06

As Found Pulser Linearity Checks Base Threshold

Window

Tolerance (cpm)

High Voltage

N/A

Upper Threshold

N/A

Source ID

10000

Reading (cpm)

[9000-11000]

800 Observed (cpm)

Count Rate Probe Test Results Background (cpm) 750

Net (cpm) 5150

Efficiency (%)

4817

Input (cpm)

10000

Isotope Cs-137 SrY-90

2pf Activity (cpm) 44132 39800

6100 750

5350

11.67 13 44

Calibration Comments

Calibration Operational Checks

Reproducibility High Voltage Geotropism Zero Check Calibration Constant Dead Time

CALIBRATION RESULTS

οк Pass

> Pass N/Δ N/A 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 -- 2pl CPM: 39800

Ludium: 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 / NGSL 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

RE: IEI- Concrete Disposal OrderNo.: 1402140

Dear Steve Moskal:

FAX (505) 327-1496

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 qualifers 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

andist

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order 1402140

Date Reported: 2/11/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Project: IEI- Concrete Disposal

Lab ID: 1402140-001

Matrix: SOIL

Client Sample ID: S. Floor

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

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

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E 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 RA	NGE				·	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	3					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	ΝĎ	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.
- 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.
- Page 1 of 12
- RL Reporting Detection Limit

Lab Order 1402140

Date Reported: 2/11/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Project: IEI- Concrete Disposal

Lab ID: 1402140-002

Client Sample ID: SW Wall

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

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

Analyses	Result	RL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	GE 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 R.	ANGE					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 METAL	.s					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

Matrix: SOIL

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDImit
- 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

Page 2 of 12

- P Sample pH greater than 2.
- RL Reporting Detection Limit

Lab Order 1402140

Date Reported: 2/11/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Project: IEI- Concrete Disposal

Lab ID: 1402140-003

Colla

Matrix: SOIL

Client Sample ID: Center Wall

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

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

Analyses	Result	RL Q	ual 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 RAI	NGE				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	NĎ	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	3				Analyst	: ELS
Arsenic	ND 1	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.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDImit
- 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

Page 3 of 12

- P Sample pH greater than 2.
- RL Reporting Detection Limit

Lab Order 1402140

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 2/11/2014

CLIENT: Souder, Miller and Associates

Client Sample ID: SE Wall

Project: IEl- Concrete Disposal

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

Lab 1D: 1402140-004

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

Analyses	Result	RL C	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E 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 RA	NGE					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 METAL	s					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	NĐ	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.
- 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

Page 4 of 12

- P Sample pH greater than 2.
- RL Reporting Detection Limit

Lab Order 1402140

Date Reported: 2/11/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Project: IEI- Concrete Disposal

EI- Concrete Disposai

Lab ID: 1402140-005

Client Sample ID: NE Wall

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

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

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E 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 RA	ANGE					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 METAL	.s					Analyst	ELS
Arsenic	ND	5.0		mg/L	1	2/9/2014 1:17:45 PM	11624
Barium	. N D	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

Matrix: SOIL

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

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

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Lab Order 1402140

Date Reported: 2/11/2014

Hall Environmental Analysis Laboratory, Inc.

Matrix: SOIL

CLIENT: Souder, Miller and Associates

Souder, Willer and Associate

Project: IEI- Concrete Disposal

1402140-006

Lab ID:

Client Sample ID: NW Wall

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

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

Analyses	Result	RL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E 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 RA	NGE					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 METAL	S					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.
- 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

. Page 6 of 12

- P Sample pH greater than 2.
- RL Reporting Detection Limit

Lab Order 1402140

Date Reported: 2/11/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Project: IEI- Concrete Disposal

Lab ID: 1402140-007

Matrix: SOIL

Collection Date: 2/4/2014 11:10:00 AM **Received Date:** 2/5/2014 10:00:00 AM

Client Sample ID: N. Floor

Analyses	Result	RL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGI	E 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 RA	NGE					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	3					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.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDIimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit D
- P Sample pH greater than 2.
- Page 7 of 12
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1402140 *11-Feb-14*

Client:

Souder, Miller and Associates

	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 C)ual
Diesel Range Organics (DRO) Surr: DNOP	ND 10 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 C)ual
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 C	(ual
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 C)ual
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 C)ual
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 C)ual
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

no de la la casa de reporting Em

Page 8 of 12

P Sample pH greater than 2.

RL Reporting Detection Limit

OC 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

PQL

RunNo: 16579

%REC

Prep Date: 2/5/2014 Analysis Date: 2/6/2014 SeqNo: 477183 Units: mg/Kg

LowLimit

%RPD **RPDLimit** Qual

Analyte Gasoline Range Organics (GRO) Surr: BFB

ND 910

Result

5.0 1000

90.6

74.5 129

HighLimit

Sample (D 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

126

129

HighLimit %RPD

Gasoline Range Organics (GRO) Surr: BFB

Result PQL 21 5.0 940

%REC SPK value SPK Ref Val 25.00 86.0

SPK value SPK Ref Val

SPK value SPK Ref Val

1000

23.41

936.3

SPK value SPK Ref Val

74.5 74.5

LowLimit

RPDI imit Qual

Sample ID 1402140-001AMS

Client ID: S. Floor

SampType: MS Batch ID: 11580 TestCode: EPA Method 8015D: Gasoline Range

93.8

RunNo: 16579

O

69.5

74.5

LowLimit

Units: mg/Kg

HighLimit

Analyte Gasoline Range Organics (GRO)

Analyte

Prep Date: 2/5/2014

Analysis Date: 2/6/2014

Result

23

980

SeqNo: 477186 %REC

99.5

105

%RPD **RPDLimit**

Qual

Surr: BFB

Sample 1D 1402140-001AMSD

SampType: MSD

TestCode: EPA Method 8015D: Gasoline Range

145

129

Client ID: S. Floor

Batch ID: 11580

RunNo: 16579

Prep Date: 2/5/2014

Analysis Date: 2/6/2014

PQL

4.7

PQL

4.7

SeqNo: 477187

Units: mg/Kg

HighLimit

%RPD **RPDLimit** Qual 20

0

Analyte Gasoline Range Organics (GRO) Surr: BFB

22 830

Result

23.34 933.7

%REC 92.1 89.1

LowLimit 69.5 74.5

145 7.96 129

0

Qualifiers:

Value exceeds Maximum Contaminant Level.

Spike Recovery outside accepted recovery limits

- Ε Value above quantitation range
- Ţ Analyte detected below quantitation limits
- 0 RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- В Analyte detected in the associated Method Blank
 - H Holding times for preparation or analysis exceeded
 - ND
 - Sample pH greater than 2.
 - Reporting Detection Limit
- Not Detected at the Reporting Limit Page 9 of 12

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 %RPD **RPDLimit** Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit Qual ND Benzene 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				F	RunNo: 16579						
Prep Date: 2/5/2014 Analysis Date: 2/6/20			6/2014	SeqNo: 477198			Units: mg/h	(g			
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 1402140-002AM	S Samp'T	ype: MS	3	Tes	8021B: Vola	tiles				
Client ID: SW Wall	Batch	ID: 11	580	F	RunNo: 1	6579				
Prep Date: 2/5/2014 Analysis Date: 2/6/2014					SeqNo: 4	77201	Units: mg/h	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Quat
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 Samplype: MSD					TestCode: EPA Method 8021B: Volatiles					
Client ID: SW Wall	Batch	1D: 11	580	F							
Prep Date: 2/5/2014	Analysis Date: 2/6/2014			SeqNo: 477202 U			Units: mg/K	g			
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

Page 10-of 12

OC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1402140

11-Feb-14

Client:

Souder, Miller and Associates

Project:

IEI- Concrete Disposal

_			
i	Sample	1D	MR-11611

SampType: MBLK

TestCode: MERCURY, TCLP

Client ID:

PBW Batch ID: 11611 RunNo: 16631

Analysis Date: 2/7/2014

Prep Date: 2/6/2014

SeqNo: 478494 Units: mg/L

Analyte

Result **PQL**

SPK value SPK Ref Val %REC LowLimit

%RPD

RPDLimit Qual

Мегсигу

ND 0.020

Sample ID LCS-11611

SampType: LCS

TestCode: MERCURY, TCLP

Client ID: LCSW Batch ID: 11611

RunNo: 16631

Units: mg/L

HighLimit

Prep Date: 2/6/2014 Analysis Date: 2/7/2014

SeqNo: 478495

Result PQL %REC

LowLimit HighLimit

%RPD

%RPD

%RPD

Analyte Mercury

ND 0.020 SPK value SPK Ref Val 0.005000

SPK value SPK Ref Val

101

120

RPDLimit

Qual

Sample ID 1402140-001AMS

Client ID: S. Floor

Result

ND

SampType: MS

0.005000

TestCode: MERCURY, TCLP

Batch ID: 11611

RunNo: 16631

Prep Date: 2/6/2014

Analysis Date: 2/7/2014

SeqNo: 478498

Units: mg/L HighLimit

125

RPDLimit

Qual

Qual

Analyte Mercury

SampType: MSD

TestCode: MERCURY, TCLP

Client ID: S. Floor

Batch ID: 11611

RunNo: 16631

%REC

99.1

Prep Date:

2/6/2014

Sample ID 1402140-001AMSD

Analysis Date: 2/7/2014

0.020

SeqNo: 478499

Units: mg/L HighLimit

RPDLimit

20

Analyte Mercury

Result SPK value SPK Ref Val PQL

98.3

125

ND 0.020 0.005000

%REC LowLimit

75

Qualifiers:

Value exceeds Maximum Contaminant Level.

Е Value above quantitation range

Analyte detected below quantitation limits 1

0 RSD is greater than RSDImit

R RPD outside accepted recovery limits

Spike Recovery outside accepted recovery limits

Analyte detected in the associated Method Blank

Н Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit ND

Sample pH greater than 2.

Page 11 of 12

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

	SampType: MBLK TestCode: EPA Method 6010B: TCLP Metals									
Sample ID MB-11624	SampType: MBLK			Tes	tCode: El	Metals				
Client ID: PBW	Batch	Batch ID: 11624			RunNo: 1	660 9				
Prep Date: 2/7/2014	Analysis D	ate: 2/	9/2014	5	SeqNo: 4	78048 Units: m g				
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	SampT	SampType: LCS TestCode: EPA Method								
Client ID: LCSW	Batcl	n ID: 11	624	F	RunNo: 1	6609				
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

Page 12 of 12



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 Numbe	er: 1402140		RcptNo:	1
Received by/da	te: <u>M</u> 6	02 05 14	· · · · · · · · · · · · · · · · · · ·			
Logged By:	Lindsay Mangin	2/5/2014 10:00:00 AI	vI	of tiffligo		
Completed By:	Lindşay Mangin	2/5/2014 12:41:12 PI	vI	July HILOD		,
Reviewed By:		03/12/1	4			
Chain of Cus	stody	100 110				
	als intact on sample b	ottles?	Yes 🗌	No 🗌	Not Present 🗹	
2. Is Chain of	Custody complete?	÷	Yes 🗹	No 🗆	Not Present	
3. How was th	e sample delivered?		-Glient_Co			
l on In			100	toe 105/14		
<u>Log In</u>		and 0		No 🗆	, NA 🗆	
4. Was an att	empt made to cool the	e samples?	Yes 🗹	No ∐	NA L	
5. Were all sa	imples received at a te	emperature of >0° C to 6.0°C	Yes 🗹	No 🗆	NA 🗆	•
6. Sample(s)	in proper container(s)	? .	Yes 🗹	No 🗆		
7. Sufficient sa	ample volume for indic	cated test(s)?	Yes 🗹	No 🗆		
8. Are sample	s (except VOA and OI	NG) properly preserved?	Yes 🗹	No 🗌		
9. Was preser	rvative added to bottle	s?	Yes 🗌	No 🗹	NA 🗌	
10.VOA vials h	nave zero headspace?	•	·Yes 🗌	No 🗆	No VOA Vials 🗹	
11, Were any s	sample containers rec	eived broken?	Yes	No 🗹 [# of preserved	
				—	bottles checked	
	rwork match bottle lab epancies on chain of c		Yes 🗹	No	for pH: (<2 o	r >12 unless noted)
· ·	es correctly identified of		Yes 🗹	No 🗆	Adjusted?	
14 Is it clear w	hat analyses were req	uested?	Yes 🗹	No 🔲		
	olding times able to be y customer for authoria		Yes 🗹	No 🗌	Checked by:	
(II HO, HOUS	y customer for authoriz	zation.)				
Special Hang	dling (if applicab	le)				
16.Was client	notified of all discreps	ncles with this order?	Yes 🗌	No 🗆	na 🗹	
Perso	on Notified:	Date:				
By W	/hom:	Via:	eMail 🔲	Phone Tax	In Person	
Rega	erding:					
Clien	t Instructions:					
17. Additional	remarks:					
18. <u>Cooler Inf</u>			·	<u> </u>		
Cooler I	No. Temp 96 Con		Seal Date	Signed By		
1	1.0 Good	Not Present				

Chain-Or-Custouy Necolu		│ ☐ HALL ENVIRONMENTAL
Olient: Studer Miller & Associates	Standard □ Rush	ANALYSIS LABORATORY
	Pfoject Name:	www.hallenvironmental.com
Mailing Address: 401 LL2 Brossdingy	JEI-concrete Disposal Project #:	4901 Hawkins NE - Albuquerque, NM 87109
Formington NM 87401		Tel. 505-345-3975 Fax 505-345-4107
Phone #: 505 325 7535	5122921	Analysis Request
mail or Fax#: sperenmosked@sudemillerin	Project Manager:	8 only) MRO) MRO) 88's
QA/QC Package:		Gas on (SA) (MR) (SA) (MR) (SA) (MR) (SA) (MR) (MR) (MR) (MR) (MR) (MR) (MR) (MR
	Stero Muskel	
Accreditation	Sampler: Steers Muskal	### 1
□ NELAP □ Other	Sampler: Step moskel On ice: DYes Min DNO	3RO / D 3RO / D 3RO / D 0A3, NO 0A)
□ EDD (Type)	Sample Lemperature	
Date Time Matrix Sample Request ID	Container Type and # Preservative Type HEAL No.	~ (
4/14/1015 cincrete S: Floor	802x1 none -001	X X X
1 1095) Sweet	1 -607	3
1040 Center wall	-003	
1050 SE 11911	-004	
WS5 DE unil	1 -005	
noo Muran	-606	
V NO V N. FLOOR	-907	
	,	
Date: Time: Relinquished by: Date: Time: Relinquished by:	Received by: Date Time 2/4/14/12/90 Received by: Date Time	Remarks: Please Analyze for DROIGRO at a below 1000 mg/kg Benzure <10 mg/kg BTEX <500 mg/kg
44 M 737 / Shirter Waller	4 Muly (200/05/14 10	DO BTEX 5 500 mg/kg
If necessary, samples submitted to Hall Environmental may be su	bcontracted to other accredited laboratories. This serves as notice of t	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 qualifers 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

Lab Order 1403423

Date Reported: 3/18/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Project: IEI Concrete Disposal

Lab ID: 1403423-001

Client Sample ID: S. Floor

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

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

Analyses	Result	RL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RAN	GE ORGANICS					Analys	t: 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 F	RANGE					Analys	t: 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

Matrix: SOLID

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

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

Page 1 of 9

- P Sample pH greater than 2.
- RL Reporting Detection Limit

Lab Order 1403423

Date Reported: 3/18/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Client Sample ID: SW Wall Collection Date: 3/10/2014 10:30:00 AM

IEI Concrete Disposal Project:

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

Lab ID: 1403423-002 Matrix: SOLID

Analyses .	Result	RL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RAN	_	Analy	st: 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 R	ANGE					Analys	st: JMP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/13/2014 12:05:56 P	M 12150
Surr: BFB	94.6	74.5-129		%REC	1	3/13/2014 12:05:56 P	M 12150

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

Qualifiers:

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

Page 2 of 9

Reporting Detection Limit

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDImit
- 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

Page 6 of 9

- P Sample pH greater than 2.
- RL Reporting Detection Limit

Lab Order 1403423

Date Reported: 3/18/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Client Sample ID: SE Wall

Collection Date: 3/10/2014 11:00:00 AM IEI Concrete Disposal Project:

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 RAN	GE ORGANICS					Analy	st: BCN
Diesel Range Organics (DRO)	1800	100		mg/Kg	10	3/13/2014 8:00:34 PM	/I 12127
Surr: DNOP	0	66-131	s	%REC	10	3/13/2014 8:00:34 PM	M 12127
EPA METHOD 8015D: GASOLINE R	ANGE					Analy	st: JMP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/13/2014 1:03:09 PM	И 12150
Surr: BFB	90.5	74.5-129		%REC	1	3/13/2014 1:03:09 PM	И 12150

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Value above quantitation range E
- Analyte detected below quantitation limits j
- RSD is greater than RSDlimit 0
- RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Ħ Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.

Page 4 of 9

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

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

Project: IEI- Concrete Disposal

1402140-001 Lab ID:

Matrix: SOIL

Client Sample ID: S. Floor

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

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

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	SE 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 RA	ANGE					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 METAL	.s					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.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- RSD is greater than RSDImit 0
- RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded Н
- ND Not Detected at the Reporting Limit
 - Sample pH greater than 2.
- Reporting Detection Limit

Page 1 of 12

Lab Order 1402140

Date Reported: 2/11/2014

Hall Environmental Analysis Laboratory, Inc.

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:

121 Concrete Bisposa

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

: 1402140-002 Matrix: SOIL

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 RAI	NGE					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.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDImit
- 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

Page 2 of 12

- P Sample pH greater than 2.
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Project: IEI- Concrete Disposal

Lab ID: 1402140-003

Client Sample ID: Center Wall

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

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

Analyses	Result	RL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RAN	GE 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 R	ANGE					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 META	LS					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	ΝĐ	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

Matrix: SOIL

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

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
 - Page 3 of 12
- P Sample pH greater than 2.
- RL Reporting Detection Limit

Lab Order 1402140

Date Reported: 2/11/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Project: IEI- Concrete Disposal

Lab ID: 1402140-004

Client Sample ID: SE Wall

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

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

Analyses	Result	RL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	SE 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 RA	ANGE .					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	N D	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 METAL	.s					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

Matrix: SOIL

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

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
- 8 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

Page 4 of 12

- P Sample pH greater than 2.
- RL Reporting Detection Limit

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 RANG	E 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 RA	ANGE					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 METAL	s					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
Setenium	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.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDIimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- 11 Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
 - Sample pH greater than 2.

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RL Reporting Detection Limit

Lab Order 1402140

Date Reported: 2/11/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Project: IEI- Concrete Disposal

Lab ID: 1402140-006

Client Sample 1D: NW Wall

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

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

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	GE 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 R	ANGE					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	1 1 611
EPA METHOD 6010B: TCLP METAL	-S					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

Matrix: SOIL

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

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

Page 6 of 12

- P Sample pH greater than 2.
- RL Reporting Detection Limit

Lab Order 1402140

Date Reported: 2/11/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

oject: IEI- Concrete Disposal

Lab ID: 1402140-007

Matrix: SOIL

Client Sample ID: N. Floor

Collection Date: 2/4/2014 11:10:00 AM **Received Date:** 2/5/2014 10:00:00 AM

Analyses	Result	RL	Qual	Units	ĎΕ	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGI	E 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 RA	NGE					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	3					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.
- 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

Page 7 of 12

- P Sample pH greater than 2.
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#: 1402140 11-Feb-14

	Miller and Associates		
Froject: IEF-Cor	— — — — — — — — — — — — — — — — — — —		
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

Qualifiers:

Surr: DNOP

Value exceeds Maximum Contaminant Level.

8.5

- Е Value above quantitation range
- Analyte detected below quantitation limits J
- 0 RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- В Analyte detected in the associated Method Blank

66

131

- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit ND

Sample pH greater than 2.

10.00

RLReporting Detection Limit Page 8 of 12

Hall Environmental Analysis Laboratory, Inc.

23

980

4.7

23.41

936.3

WO#:

1402140

11-Feb-14

Client:

Souder, Miller and Associates

Project:

IEI- Concrete Disposal

Sample ID MI	B-11580	SampTy	ype: ME	BLK	Tes	tCode: El	A Method	8015D: Gaso	line Rang	e	
Client ID: PE	3S	Batch	ID: 11	580	F	RunNo: 1	6579				
Prep Date: 2	2/5/2014	Analysis Da	ate: 2/	6/2014	S	SeqNo: 4	77183	Units: mg/K	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HìghLimit	%RPD	RPDLimit	Qual
Gasoline Range O	rganics (GRO)	ND	5.0					,	•	<u> </u>	
Surr: BFB		910		1000		90.6	74.5	. 129			
Sample ID LC	 CS-11580	SampT	ype: LC	:S	Tes	Code: El	PA Method	8015D: Gaso	line Rang	e	
Client ID: LC	css	Batch	ID: 11	580	F	RunNo: 10	6579				
Prep Date: 2	2/5/2014	Analysis D	ate: 2/	6/2014	S	SeqNo: 4	77184	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasofine Range O	rganics (GRO)	21	5.0	25.00	σ	86.0	74.5	126	,	· · · · · · · · · · · · · · · · · · ·	
Surr: BFB	4	940		1000		93.8	74.5	129			
Sample ID 14	102140-001AMS	SampT	ype: MS	 3	Tes	tCode: El	A Method	8015D: Gaso	line Rang		
Client ID: S.	Floor	Batch	ID: 11	580	F	RunNo: 1	6579				
Prep Date: 2	2/5/2014	Analysis D	ate: 2/	6/2014	9	SeqNo: 4	77186	Units: mg/k	ζg		
Analyte		Result	PQL	SDK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Sample ID 1402140-001AMSE) SampT	SampType: MSD TestCode: EPA Method 80						I 8015D: Gasoline Range					
Client ID: S. Floor	Batch	ID: 11	580	F	RunNo: 1	6579							
Prep Date: 2/5/2014	Analysis D	ate: 2/	6/2014	8	SeqNo: 4	77187	Units: mg/F	(g					
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				

99.5

105

69.5

. 74.5

145

129

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Е Value above quantitation range

Gasoline Range Organics (GRO)

Surr: BFB

- Analyte detected below quantitation limits
- 0 RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded Н
- Not Detected at the Reporting Limit ND

Sample pH greater than 2.

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Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#: 1402140

11-Feb-14

Client:

Souder, Miller and Associates

Project:

1EI- Concrete Disposal

Sample ID MB-11580	Sampl	Type: ME	BLK	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: PBS	Batcl	h ID: 11	580	F	RunNo: 10	6579				
Prep Date: 2/5/2014	Analysis [Date: 2/	6/2014	S	SeqNo: 4	77197	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	МD	0.050								
Foluene	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	Samp	Type: LC	S	les	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Batc	h ID: 11	580	F	RunNo: 1	6579				
Prep Date: 2/5/2014	Analysis [Date: 2/	6/2014	8	SeqNo: 4	77198	Units: mg/H	(g		
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 1402140-002AM	S Samp	Type: MS	3	Tes	tCode: E	PA Method	8021B: Vola	tiles .		•
Client ID: SW Wall	Bato	ch ID: 11	580	F	RunNo: 1	6579				
Prep Date: 2/5/2014	Analysis	Date: 2/	6/2014	5	SeqNo: 4	77201	Units: mg/F	(g		
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 1402140-002AMSL	Sampi	ype: m/s	50	les	(Code: E	PA Method	8021B: Volat	iles		
Client ID: SW Wall	Batch	ID: 11	580	F	RunNo: 1	6579				
Prep Date: 2/5/2014	Analysis D	ate: 2/	6/2014	8	SeqNo: 4	77202	Units: mg/K	g		
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

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Hall Environmental Analysis Laboratory, Inc.

WO#:

1402140

11-Feb-14

Client:

Souder, Miller and Associates

Project:

IEI- Concrete Disposal

Sample ID MB-1	4644

SampType: MBLK

TestCode: MERCURY, TCLP

Result

Batch ID: 11611

Client ID: **PBW**

RunNo: 16631

Prep Date: 2/6/2014 Analysis Date: 2/7/2014 PQL

SegNo: 478494 Units: mg/L

HighLimit

RPDLimit

Qual

Analyte Mercury

ND 0.020

Sample ID LCS-11611

SampType: LCS

TestCode: MERCURY, TCLP

Client ID: LCSW

Batch ID: 11611

RunNo: 16631

Analysis Date: 2/7/2014

Units: mg/L

Prep Date: 2/6/2014

SPK value SPK Ref Val %REC LowLimit

SeqNo: 478495

RPDLimit

Analyte

Result

PQL SPK value SPK Ref Val %REC

LowLimit HighLimit 120 %RPD

Qual

Mercury

ND

Result

ND

ND

0.020 0.005000

101

80

%RPD

%RPD

0

%RPD

Sample ID 1402140-001AMS

SampType: MS

TestCode: MERCURY, TCLP

Client ID: S. Floor Prep Date: 2/6/2014 Batch ID: 11611

SPK value SPK Ref Val

RunNo: 16631

Units: mg/L

125

125

Analyte

Analysis Date: 2/7/2014

0.005000

0.005000

SeqNo: 478498 %REC

99.1

HighLimit

RPDLimit

Qual

Qual

Mercury

Sample ID 1402140-001AMSD

SampType: MSD

TestCode: MERCURY, TCLP

LowLimit

LowLimit

75

75

Client ID: S. Floor Prep Date:

2/6/2014

Batch ID: 11611

PQL

0.020

PQL

0.020

RunNo: 16631

Analyte Mercury

Result

Analysis Date: 2/7/2014

SPK value SPK Ref Val

SeqNo: 478499 %REC

98.3

Units: mg/L HighLimit

RPDLimit

20

Qualifiers:

Е

- Value exceeds Maximum Contaminant Level.
- .1 Analyte detected below quantitation limits
- 0 RSD is greater than RSDImit R RPD outside accepted recovery limits

Value above quantitation range

- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Sample pH greater than 2.
- ŔL Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#:

1402140 11-Feb-14

Client:

Souder, Miller and Associates

Project:

IEI- Concrete Disposal

Sample ID MB-11624	SampT	ype: ME	BLK	Tes	tCode: E	PA Method	6010B: TCL	P Metals	•	
Client ID: PBW	Batch	1D: 11	624	F	RunNo: 1	6609				
Prep Date: 2/7/2014	Analysis D	ate: 2/	9/2014	9	SeqNo: 4	78048	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								
_ead	ND	5.0								
Selenium	ND	1.0					•			
Silver	ND	5.0								

Sample ID LCS-11624	SampT	ype: LC	S	Tes	tCode: El	PA Method	6010B: TCL	P Metals		
Client ID: LCSW	Batch	n ID: 11 0	624	F	RunNo: 1	6609				
Prep Date: 2/7/2014	Analysis D)ate: 2/	9/2014	5	SeqNo: 4	78049	Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	5.01	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

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquergue, 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 ReptNo: 1 Received by/date: 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 Custo Yes No 🗀 Not Present 1. Custody seals intact on sample bottles? Yes 🗹 No [.] Not Present 2. Is Chain of Custody complete? -Client_CourIEE 3. How was the sample delivered? Opt 02/05/14 <u>Log In</u> No 🔲 NA 🗌 4. Was an attempt made to cool the samples? Yes 🗹 No 🗌 NA 🗌 Yes 🔽 5. Were all samples received at a temperature of >0° C to 6.0°C No 🗌 Yes 🗸 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? NA 🔲 Yes 🗀 No 🗹 9. Was preservative added to bottles? No 🗆 No VOA Vials 🗹 Yes 🗌 10 VOA vials have zero headspace? Yes 📙 No 🗹 11. Were any sample containers received broken? # of preserved bottles checked No \square for pH: Yes 🗹 12. Does paperwork match bottle labels? (<2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? No 🗆 Yes 🔽 13. Are matrices correctly identified on Chain of Custody? No 🗌 **V** 14. Is it clear what analyses were requested? No 🗌 Checked by: 15. Were all holding times able to be met? (If no, notify customer for authorization.) Special Handling (If applicable) Yes 🔲 NA 🔽 16. Was client notified of all discrepancies with this order? No 🔲 Person Notified: Date: Via: . 🗌 eMail 📋 Phone 📋 Fax 📘 In Person By Whom: Regarding: Client Instructions: 17. Additional remarks: 18. Cooler Information Cooler No. (Temp °C. Condition Seal Intact Seal No. 1.0 Good Not Present

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Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO.	BTEX A	BTEX + MTBE +	TPH 8015B (GRO / DRQ) / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270	RCRA 8 Metals TC	Anions (F,CI,NO3,NO2,	8081 Pesticides / 8082	8260B (VOA)	8270 (Semi-VOA)				Air Bubbles (Y or N)
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	If necessary,	 	omitted to Hall Environmental may be sub	contracted to other a	ccredited laboratori	es. This serves as notice of the	is poss	ibility.	Алу ѕ	ub-cont	racted	data v	will be	ciead	ly nota	ated or	n the a	nalytical	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 qualifers 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

Lab Order 1403423

Date Reported: 3/18/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Project: IEI Concrete Disposal

Lab ID: 1403423-001

Client Sample ID: S. Floor

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

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

Analyses	Result	RL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RAN	GE ORGANICS	•		· -		Analy	st: 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 F	RANGE					Analy	st: 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	1 12150

Matrix: SOLID

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

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

Page 1 of 9

- P Sample pH greater than 2.
- RL Reporting Detection Limit

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 1D: 1403423-002

Matrix: SOLID Received Date: 3

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

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

Page 2 of 9

- P Sample pH greater than 2.
- RL Reporting Detection Limit

Lab Order 1403423

Date Reported: 3/18/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Project: IEl Concrete Disposal

Lab ID: 1403423-003

Client Sample ID: Center Wall

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

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

Analyses	Result	, RL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RAN	GE 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 F	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

Matrix: SOLID

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

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

Page 3 of 9

- P Sample pH greater than 2.
- RL Reporting Detection Limit

Lab Order 1403423

Date Reported: 3/18/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Miller and Associates

Client Sample 1D: SE Wall
rete Disposal

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

Project: IEI Concrete Disposal

Lab ID:

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

1403423-004 Matrix: SOLID

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

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

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.

Page 4 of 9

RL Reporting Detection Limit

Lab Order 1403423

Date Reported: 3/18/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Project: IEI Concrete Disposal

Lab ID: 1403423-005 Client Sample ID: NW Wall

Collection Date: 3/10/2014 11:15:00 AM

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

Analyses	Result	RL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RAN	GE ORGANICS					Analys	st: 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 R	ANGE					Analys	t: 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.
- Ε Value above quantitation range
- J Analyte detected below quantitation limits
- 0 RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit

Page 5 of 9

- Sample pH greater than 2. P
- Reporting Detection Limit

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 RAN	GE ORGANICS					Analys	st: 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 R	ANGE					Analys	st: 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.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDImit
- 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

Page 6 of 9

- P Sample pH greater than 2.
- RL Reporting Detection Limit

Lab Order 1403423

Date Reported: 3/18/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

IEI Concrete Disposal

Lab ID: 1403423-007

Project:

Client Sample ID: N. Floor

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

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

Analyses	Result	RL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RAN	GE ORGANICS					Analy	/st: BCN
Diesel Range Organics (DRO)	4500	100		mg/Kg	10	3/13/2014 9:07:11 P	M 12127
Surr: DNOP	0	66-131	S	%REC	10	3/13/2014 9:07:11 P	M 12127
EPA METHOD 8015D: GASOLINE R	RANGE					Analy	yst: 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.
- 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

Page 7 of 9

- P Sample pH greater than 2.
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#:

1403423

18-Mar-14

Client:

Souder, Miller and Associates

8.4

10.00

Project: IEI Cor	ncrete Disposal		·
Sample ID MB-12127	SampType: MBLK	TestCode: EPA Method 8015	D: Diesel Range Organics
Client ID: PBS	Batch ID: 12127	RunNo: 17275	
Prep Date: 3/11/2014	Analysis Date: 3/13/2014	SeqNo: 498023 Unit	s: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit Hig	hLimit %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 8015	D: Diesel Range Organics
Client ID: LCSS	Batch ID: 12127	RunNo: 17275	
Prep Date: 3/11/2014	Analysis Date: 3/13/2014	SeqNo: 498432 Unit	s: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit Hig	hLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	50 10 50.00	0 100 60.8	145
Sun: DNOP	4.7 5.000	94.5 66	131
Sample ID MB-12165	SampType: MBLK	TestCode: EPA Method 8015	D: Diesel Range Organics
Client ID: PBS	Batch ID: 12165	RunNo: 17309	
Prep Date: 3/13/2014	Analysis Date: 3/14/2014	SeqNo: 499648 Unit	s: %REC
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit Hig	hLimit %RPD RPDLimit Qual
Surr: DNOP	10 10.00	101 66	131
Sample ID MB-12173	SampType: MBLK	TestCode: EPA Method 8015	D: Diesel Range Organics
Client ID: PBS	Batch ID: 12173	RunNo: 17309	
Prep Date: 3/13/2014	Analysis Date: 3/14/2014	SeqNo: 499649 Unit	s: %REC
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit Hig	hLimit %RPD RPDLimit Qual

Qualifiers:

Surr: DNOP

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- Analyte detected below quantitation limits
- RSD is greater than RSDImit 0
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded H
- Not Detected at the Reporting Limit

83.6

131

66

Page 8 of 9

- Sample pH greater than 2.
- Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#:

1403423

18-Mar-14

Client:

Souder, Miller and Associates

Project:

IEI Concrete Disposal

TestCode: EPA Method 8015D: Gasoline Range Sample ID MB-12150 SampType: MBLK Client ID: PBS Batch ID: 12150 RunNo: 17301 Prep Date: Analysis Date: 3/13/2014 SeqNo: 498358 3/12/2014 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Gasoline Range Organics (GRO) ND 5.0 Surr: 8FB 830 1000 82.6 74.5 . 129

Sample ID LCS-12150	SampT	ype: LCS TestCode: EPA Method					l 8015D: Gasoline Range					
Client ID: LCSS	Batcl	n ID: 12	150	F	RunNo: 1	7301						
Prep Date: 3/12/2014	Analysis D	ate: 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

Page 9 of 9



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	r: 1403423	·	ReptNo:	1
Received by/date 03 11114				
Logged By: Ashley Gallegos 3/11/2014 9:50:00 AM	1	A		į
Completed By: Ashley Gallegos 3/11/2014 4:37:02 PM	1	A		
Reviewed By:		()		
Chain of Custody				J
Custody seals intact on sample bottles?	Yes :	No	Not Present .✔	
2. Is Chain of Custody complete?	Yes 🗸	No	Not Present	
3 How was the sample delivered?	Courier			
Log In				
4. Was an attempt made to cool the samples?	Yes 🔽	No 🗔	NA 🗔	
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes 🔀	No 🗆	NA 🖽	
6. Sample(s) in proper container(s)?	Yes 🗹	No 1.3		
7 Sufficient sample volume for indicated test(s)?	Yes 🗸	N o	×	
8. Are samples (except VOA and ONG) properly preserved?	Yes 🗸	No t		
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	
12.Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes 🗹	No	for pH: .(<2 o	r >12 unless noted)
13. Are matrices correctly identified on Chaln of Custody?	Yes 🗸	No .	Adjusted?	
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 🔽	N o : :	Checked by:	
Special Handling (18 applicable)				
Special Handling (if applicable)	 . []	A1. [-	NA ∑	
16. Was client notified of all discrepancies with this order?	Yes	No 🗔	NA 🛂	
Person Notified: Date:	,			!
By Whom: Via:	i eMail	Phone Fax	In Person	
Regarding	THE RESERVE OF THE PROPERTY OF	<u></u>	**************************************	
Client Instructions:			· . · . ·	
17. Additional remarks:				
18. Cooler Information Cooler No Temp °C Condition Seal Intact Seal No 1 4.1 Good Yes	Seal Date:	Signed By		

Onani-or-oustody Record		HALL ENVIRONMENTAL
Client: Souder, Mill & Associates	K Standard □ Rush	ANALYSIS LABORATORY
	Project Name:	www.hallenvironmental.com
Mailing Address: 401 W. Broodway	IEI Committed Nisporci	4901 Hawkins NE - Albuquerque, NM 87109
E-10-10-10-10-10-10-10-10-10-10-10-10-10-	TEI Corretal Disposal Project #:	Tel. 505-345-3975 Fax 505-345-4107
Phone #: 505 325 7535	5122921 BG2	Analysis Request
email or Fax#: Steven ms to 10 such millive		
QA/QC Package:	- 10100t managen	8021) //tdtRO) //tdtRO) 24,SO4) CB*s
☐ Level 4 (Full Validation)	Spece Moskal	TMB's (8021) TPH (Gas only) 5 / DBQ / fwRO) 3.1) 4.1) 270 SIMS) 270 SIMS) (8082 PCB's (8082 PCB's (8082 PCB's (8082 PCB's (8082 PCB's (8082 PCB's
Accreditation	Sampler: Store Muskel	TMB' TPH TPH (270 § (270 § (8082)
□ NELAP □ Other	Onlice Yes No	or I
□ EDD (Type)	Sample Temperature	MTBE 15B (GF ethod 4 ethod 5 ethod 5 ethod 5 ethod 5 vOA) VOA) emi-VO
Date Time Matrix Sample Request ID	Container Type and # Preservative HEAL No. Type 1468422	BTEX + MTBE + TMB's (8021) BTEX + MTBE + TPH (Gas only) TPH (Method 418.1) EDB (Method 504.1) PAH's (8310 or 8270 SIMS) RCRA 8 Metals Anions (F,CI,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄) 8081 Pesticides / 8082 PCB's 8260B (VOA) 8270 (Semi-VOA)
3/10/14 1010 concrete S. Floor	402 x1 cooled -001	X I I I I I I I I I I I I I I I I I I I
1 1030 / Swuall	-002	X
1045 Earler wall	-003	Δ
1100 SE wall	-004	*
1115 Mu wall	-005	X
1135 NE wall	-000	X
V 1145 V N.Floor	V -001	
Date: Time: Relinquished by:	Received by: Date Time	Remarks:
41414 1430 Thesing)	Mystu Wall 3/10/14 1650	
Date: Time: Relinquished by: 3 10 11 1721 Minutur Waltes	Received by: Date Time 03/11/14 0950	
If necessary, camples submitted to Hall Environmental may be sub	ocontracted to other addredited 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

really and Market age a

Lab Order 1404019

Date Reported: 4/7/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Project:

Lab ID:

IEI

1404019-001

Client Sample ID: N. Floor

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

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

Analyses	Result	RL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RAN	IGE ORGANICS					Analys	st: BCN
Diesel Range Organics (DRO)	1100	98		mg/Kg	10	4/3/2014 11:53:02 AM	12475
Surr: DNOP	0	66-131	S	%REC	10	4/3/2014 11:53:02 AM	12475
EPA METHOD 8015D: GASOLINE F	RANGE					Analys	st: 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:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- Analyte detected below quantitation limits
- 0 RSD is greater than RSDImit
- RPD outside accepted recovery limits R
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Page 1 of 9

- Sample pH greater than 2.
- Reporting Detection Limit

Lab Order 1404019

Date Reported: 4/7/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Client Sample ID: S. Floor

IEI Project:

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 RAN	IGE ORGANICS					Analy	st: BCN
Diesel Range Organics (DRO)	710	99		mg/Kg	10	4/3/2014 12:23:45 PM	1 12475
Surr: DNOP	0	66-131	s	%REC	10	4/3/2014 12:23:45 PM	1 12475
EPA METHOD 8015D: GASOLINE F	RANGE					Analy	st: 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.
- Ε Value above quantitation range
- Analyte detected below quantitation limits J
- 0 RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded Н
- ND Not Detected at the Reporting Limit
- Sample pH greater than 2.

Page 2 of 9

Reporting Detection Limit

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 RAN	GE ORGANICS			-		Analys	st: 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 R	ANGE					Analys	st: 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.
- E Value above quantitation range
- Analyte detected below quantitation limits
- 0 RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Page 3 of 9

- Sample pH greater than 2.
- RL Reporting Detection Limit

Lab Order 1404019

Date Reported: 4/7/2014

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 RAN	IGE ORGANICS					Analys	t: 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 F	RANGE					Analys	t: 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.
- E Value above quantitation range
- Analyte detected below quantitation limits J
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Page 4 of 9

- Sample pH greater than 2.
- Reporting Detection Limit RL

Lab Order 1404019

Date Reported: 4/7/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Project: IEI

Lab ID:

1404019-005

Client Sample ID: SE Wall

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

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

Analyses	Result	RL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RAN	GE ORGANICS	-		-		Analys	t: 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 F	RANGE					Analys	t: 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

Matrix: SOIL

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Е Value above quantitation range
- Analyte detected below quantitation limits
- RSD is greater than RSDlimit 0
- RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- В Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Page 5 of 9

- Sample pH greater than 2,
- RL Reporting Detection Limit

Analytical Report

Lab Order 1404019

Date Reported: 4/7/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Client Sample 1D: 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 RAN			Analys	t: 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 F	RANGE					Analys	t: 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.
- 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
 - porting Limit Page 6 of 9
 - P Sample pH greater than 2.
- RL Reporting Detection Limit

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	alyses Result RL Qual Units						Batch
EPA METHOD 8015D: DIESEL RANG		Analys	t: 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 R	ANGE					Analys	t: 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.
- E Value above quantitation range
- Analyte detected below quantitation limits
- RSD is greater than RSDlimit 0
- RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Page 7 of 9

- Sample pH greater than 2.
- Reporting Detection Limit RL

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	TestCode: EPA Method 8015D: Diesel Range Organics								
Client ID: PB\$	Batch ID: 12475	RunNo: 17730									
Prep Date: 4/1/2014	Analysis Date: 4/2/2014	SeqNo: 510986	Units: mg/Kg								
Analyte	Result PQL SPK valu	e SPK Ref Val %REC_LowLimit_	HighLimit %RPD	RPDLimit Qual							
Diesel Range Organics (DRO)	ND 10			-							
Surr: DNOP	9.3 10.0	0 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	SegNo: 511011	Units: mg/Kg								

	· · · · · · · · · · · · · · · · · ·	, po	•											
Client ID: LCSS	Batch	475	F											
Prep Date: 4/1/2014	Analysis D	ate: 4/	2/2014	S	SeqNo: 5	11011	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

Page 8 of 9

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1404019 07-Apr-14

Client:

Souder, Miller and Associates

Project:

SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 12480

RunNo: 17762

Prep Date: 4/1/2014

Sample ID MB-12480

Analysis Date: 4/2/2014

SeqNo: 511646

Units: mg/Kg

Analyte

Result PQL 5.0 SPK value SPK Ref Val %REC

%RPD

Qual

ND

HighLimit

RPDLimit

Gasoline Range Organics (GRO)

1000

86.6

74.5

Surr: BFB

870

TestCode: EPA Method 8015D: Gasoline Range

129

Sample ID LCS-12480 Client ID: LCSS

SampType: LCS Batch ID: 12480

RunNo: 17762

Analyte

Analysis Date: 4/2/2014

SeqNo: 511647 %REC

Units: mg/Kg HighLimit

Result PQL

SPK value SPK Ref Val 25.00

94.5

71.7

LowLimit

LowLimit

134

%RPD **RPDLimit**

Qual

Gasoline Range Organics (GRO) Sum: BFB

Prep Date: 4/1/2014

24 5.0 940

1000

93.7

74.5

129

Qualifiers:

- Ε Value above quantitation range Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- Value exceeds Maximum Contaminant Level.

Spike Recovery outside accepted recovery limits

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

Page 9 of 9



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	er: 1404019		RcptNo:	
Received by/date:				
Logged By: Lindsay Mangin 4/1/2014 10:00:00 Al	VI	of Mythogo		
Completed By: Lindsay Mangin 4/1/2014 10:28:48 AM	И	great Allego		
Reviewed By:				
Chain of Custody				
1. Custody seals intact on sample bottles?	Yes 🗌	No 🗆	Not Present 🗹	
2. Is Chain of Custody complete?	Yes 🗹	No 🗆	Not Present 🗌	
3. How was the sample delivered?	Courier			
<u>Log In</u>				
4. Was an attempt made to cool the samples?	Yes 🔽	No □	na 🗆	
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes ✓	No 🗆	NA 🗆	
6. Sample(s) in proper container(s)?	Yes 🗹	No 🗆	<u> </u>	
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 \square	·
10.VOA vials have zero headspace?	Yes 🗍	No 🗀	No VOA Vįals ⊻	
11. Were any sample containers received broken?	Yes	No ☑ [-
•		_	# of preserved bottles checked	:
12. Does paperwork match bottle labels?	Yes 🗹	No 🗆	for pH:	>12 unless noted)
(Note discrepancies on chain of custody) 13. Are matrices correctly identified on Chain of Custody?	Yes 🔽	No 🗔	Adjusted?	- 12 diffess floted)
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, πotify customer for authorization.)		Į		
Special Handling (if applicable)				
16. Was client notified of all discrepancies with this order?	Yes 🗌	No 🗆	NA 🗹	
Person Notified: Date:				İ
By Whom: Via:	eMail 🗌	Phone Fax	In Person	
Regarding:			!	
Client Instructions:	and the state of t		1	
17. Additional remarks:			4444	1
18. Cooler Information				•
Cooler No Temp C Condition Seal Intact Seal No	Seal Date	Signed By		
1 2.5 Good Yes				

Client: Client	C	hain-	of-Cu	stody Record	Turn-Around	<u> </u>			ŭ	A I	. =	M	/TE	20	N P	ae:	NT	ΔI				
Mailing Address: Wil W Broduay Froject #: Framshallow Mm 87 (40) Phone #: 505 235-7535 S122921 R52 email of Fast -Rep an most will contained by Sampler Request ID Date Time Matrix Sample Request ID Date Time Matrix Sample Request ID Container Preservative Type and # Type Date Time Matrix Sample Request ID Container Preservative Type and # Type Container Preservative Type Type Type Type Type Type Type Typ	Client:	Soud	1/ Mi	Wrthsorbtes				· <u> </u>														7
Tel. 505-345-3975 Fax 505-345-4107 Phone #F. 505-345-3975 Fax 505-345-4107 Sampler: One part of the					Project Name	: :						w	ww.h	allen	viron	ment	tal.cc	m į				
Tel. 505-345-3975 Fax 505-345-4107	Mailing	Address	i-Vol i	1 Bordias	IEI					490	11 Ha	awkin	s NE	- Al	buqu	erqu	e, Ni	M 87	109			
Phone # 505 375-1535 email or Fax#-16-11 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1		Fan	whote	10458 may	Project #:		• _	į :		Te	. 50	5-345	-397	5	Fax	505-	345-	410	7			
Cayac Package: Standard Level 4 (Full Validation) Steve Worked Standard Cayac	Phone :	ナスクラ	2/3/4.	- つ ちふど	5122	2921 BG	2							Ana	lysis	Req	uest					
Cayac Package: Standard Level 4 (Full Validation) Steve Worked Standard Cayac	email o	r_Fax#:☆	teren	moskelferaudumille	Project Mana	ger:		-	=	<u>y</u>	2				O ₂	s						
Date Time Matrix Sample Request D Container Type	QA/QC I	^D ackage:			ļ				(802	as c	悡		Į (g	2	0,5	CB						
Date Time Matrix Sample Request D Container Type				Level 4 (Full Validation)	STELR	MUSKUL		-	B's	9	꽃		Ö	5	7, P	82 F						
Date: Time: Relinquished by: Received by: Date Time Remarks: 31/14 USY Albaham Albah			□ Othe	r ·	Sampler:				ĭ	₽	51	8.1)	(L.4)	,	N.	/ 80						ĺ
Date: Time: Relinquished by: Received by: Date Time Remarks: 31/14 USY Albaham Albah									ж +	<u>ж</u>	8	d 41	2 2		2	des		Š				(Y o
Date: Time: Relinquished by: Received by: Date Time Remarks: 31/14 USY Albaham Albah	-					-			M	₹	8	etho	etho	<u> </u>	L C	stici	💸	e i				Selo
Date: Time: Relinquished by: Received by: Date Time Remarks: 31/14 USY Albaham Albah	Date	Time .	Matrix	Sample Request ID			SHEADING.		÷ ×	~!	8	E	<u> </u>	<u>ارة</u>	Sus (1 Pe) B	s) 0				3ub
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13114 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.	131/14			tu Waller	protected to the	04 ₁	1 <u>01/14 1000</u>	£ -L-		-1014			_4_ • •	.4	<u> </u>					·		



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

OrderNo.: 1503B67

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

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 qualifers 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 1503B67

Date Reported: 3/30/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

IEI Concrete Impoundment Closure

Lab ID: 1503B67-001

Project:

Client Sample ID: North SC

Collection Date: 3/24/2015 11:30:00 AM

Conection Date: 3/24/20

2.2...2012 11....0...0 11...

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

Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGI	E ORGANICS				Analys	t: 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 RAI	NGE '				Analys	t: 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					Analys	t: 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

Matrix: SOIL

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

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

Page 1 of 5

- P Sample pH Not In Range
- RL Reporting Detection Limit

Analytical Report

Lab Order 1503B67

Date Reported: 3/30/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

IEI Concrete Impoundment Closure

Lab ID: 1503B67-002

Project:

7-002 Matrix: SOIL

Client Sample 1D: South SC

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

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

Analyses	Result	RL Qu	al 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 RAI	NGE				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.
- 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

Page 2 of 5

- 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

Result

9.4

Result

Result

9.9

Project:

IEI Concrete Impoundment Closure

Sample ID	MB-18350

Samp Type: MBLK

TestCode: EPA Method 8015D: Diesel Range Organics

Client ID:

PBS

Batch ID: 18350

PQL

RunNo: 25115

63.5

HighLimit

Prep Date: 3/26/2015 Analysis Date: 3/27/2015

SeqNo: 741755

Units: mg/Kg

RPDLimit Qual

Diesel Range Organics (DRO) Motor Oil Range Organics (MRO) ND 10

ND 50

10.00

93.8

%RPD

Surr: DNOP

Analyte

Sample ID LCS-18350 Client ID: LCSS

SampType: LCS Batch ID: 18350

SPK value SPK Ref Val %REC LowLimit

TestCode: EPA Method 8015D: Diesel Range Organics

RunNo: 25115

%REC

Units: mg/Kg

128

Analyte

Prep Date: 3/26/2015

Analysis Date: 3/27/2015

PQL

SeqNo: 741859 SPK value SPK Ref Val

%RPD

Diesel Range Organics (DRO) Surr: DNOP

50 10 5.0

Analysis Date: 3/30/2015

PQL

100 50.00 99.6 5.000

SPK value SPK Ref Val

67.8 63.5

LowLimit

LowLimit

HighLimit 130 128 **RPDLimit** Qual

Client (D:

Analyte

Prep Date:

Surr: DNOP

Sample ID MB-18404

PBS

3/30/2015

Samp Type: MBLK Batch ID: 18404

RunNo: 25149

TestCode: EPA Method 8015D: Diesel Range Organics

Units: %REC

RPDLimit Qual

Sample ID LCS-18404

Samp Type: LCS

TestCode: EPA Method 8015D: Diesel Range Organics

HighLimit

Client ID: LCSS Batch ID: 18404

PQL

RunNo: 25149

SeqNo: 743092

%REC

Prep Date: Analyte

3/30/2015

Analysis Date: 3/30/2015

SeqNo: 743093

Units: %REC

Qual

Surr: DNOP

5.0

Result

5.000

99.7

SPK value SPK Ref Val %REC LowLimit

63.5

HighLimit 128 %RPD

%RPD

RPDLimit

Qualifiers:

Value exceeds Maximum Contaminant Level.

E Value above quantitation range

Analyte detected below quantitation limits

Spike Recovery outside accepted recovery limits

0 RSD is greater than RSDlimit

RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Sample pH Not In Range

Reporting Detection Limit

Page 3 of 5

OC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1503B67

30-Mar-15

Client:

Souder, Miller and Associates

Project:

IEI Concrete Impoundment Closure

l Sample II) M	R-18	353

SampType: MBLK

TestCode: EPA Method 8015D: Gasoline Range

LowLimit

Client ID:

PBS Batch ID: 18353 RunNo: 25124

Prep Date: 3/26/2015

SeqNo: 742094

Units: %REC

Analysis Date: 3/27/2015 PQL SPK value SPK Ref Val

%REC

RPDLimit

Qual

Analyte Surr: BFB

900

1000

89.7

HighLimit 120

Sample ID LCS-18353

SampType: LCS

TestCode: EPA Method 8015D: Gasoline Range

RunNo: 25124

Client ID: LCSS Prep Date: 3/26/2015 Batch ID: 18353

SeqNo: 742095

Units: %REC

Analyte

Analysis Date: 3/27/2015 **PQL**

LowLimit

%RPD

Surr: BFB

Result 1000 SPK value SPK Ref Val 1000

%REC 102

HighLimit 120 %RPD RPDLimit

Qual

Sample ID MB-18355

Client ID: PBS

SampType: MBLK Batch ID: 18355

TestCode: EPA Method 8015D: Gasoline Range

RunNo: 25124

HighLimit

Gasoline Range Organics (GRO)

Prep Date: 3/26/2015

Analysis Date: 3/27/2015

Result

ND

910

Result

24

990

5.0

SeqNo: 742102 %REC

Units: mg/Kg

%RPD

%RPD

Qual

Surr: BFB

Prep Date: 3/26/2015

SampType: LCS

SPK value SPK Ref Val

1000

25.00

1000

TestCode: EPA Method 8015D: Gasoline Range

80

Sample ID LCS-18355

Client ID: LCSS

Batch ID: 18355

Analysis Date: 3/27/2015

5.0

RunNo: 25124

91.2

Units: mg/Kg

120

120

RPDLimit

Analyte Gasoline Range Organics (GRO)

Surr: BFB

SPK value SPK Ref Val PQL

SeqNo: 742103 %REC

> 97.5 99.2

LowLimit 64

80

LowLimit

HighLimit 130 **RPDLimit** Qual

Page 4 of 5

Qualifiers:

R

- Value exceeds Maximum Contaminant Level.
- Е Value above quantitation range Analyte detected below quantitation limits
- 0 RSD is greater than RSDIimit
- Spike Recovery outside accepted recovery limits

RPD outside accepted recovery limits

- Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit ND
- Sample pH Not In Range
- Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1503B67

30-Mar-15

Client: Project:		Miller and a			·						
Sample ID I	MB-18353	SampT	уре: МІ	BLK	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: F	PBS	Batch	ID: 18	353	F	RunNo: 2	5124				
Prep Date:	3/26/2015	Analysis D	ate: 3/	27/2015	5	SeqNo: 7	42117	Units: %RE	С		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromo	fluorobenzene	1.0		1.000		102	80	120			
Sample ID 1	LCS-18353	 SampT	ype: LC	s	Tes	tCode: E	PA Method	8021B: Vola	iles		
Client ID: L	LCSS	Batch	ID: 18	353	, E	RunNo: 2					
Prep Date:	3/26/2015	Analysis D	ate: 3/	27/2015	S	SeqNo: 7	42118	Units: %RE	С		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromo	ofluorobenzene	1.1		1.000		108	80	120			
Sample ID	MB-18355	SampT	уре: МЕ	BLK	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: F	PBS	Batch ID: 18355			F	RunNo: 2	5124			•	
Prep Date:	3/26/2015	Analysis D	ate: 3/	27/2015	8	SeqNo: 7	42123	Units: mg/K	(g		
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-Bromo	fluorobenzene	1.0		1.000		103	80	120			
Sample ID L	CS-18355	SampT	ype: LC	 S	Tes	tCode: E	PA Method	8021B: Volat	iles		
Client ID: L	_css	Batch	ID: 18	355	F	RunNo: 2	5124				
Prep Date:	3/26/2015	Analysis D	ate: 3/	27/2015	8	SeqNo: 7	42124	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Quat
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			

Qualifiers:

Value exceeds Maximum Contaminant Level.

1.1

1.000

E Value above quantitation range

Surr: 4-Bromofluorobenzene

- 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
- Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

109

80

120

- P Sample pH Not In Range
- RL Reporting Detection Limit

Page 5 of 5



Hall Environmental Analysis Laboratory 1901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Sample Log-In Check List

Website; www.hallenvironmental.com RcotNo: 1 Work Order Number: 1503B67 Client Name: SMA-FARM Received by/date: Ashley Gallegos 3/25/2015 7:55:00 AM Logged By: 3/25/2015 5:55:37 PM Completed By: **Ashley Gallegos** 03/24/15 Reviewed By: Chain of Custody Yes 🗍 No 🗆 Not Present 1. Custody seals intact on sample bottles? No [] Not Present [...] Yes 🖃 2. Is Chain of Custody complete? 3. How was the sample delivered? Courier Log In No 🗀 NA 🗔 Yes 🗭 4. Was an attempt made to cool the samples? NA 🗆 No 🔲 5. Were all samples received at a temperature of >0° C to 6.0°C No 🗌 6. Sample(s) in proper container(s)? No [7. Sufficient sample volume for indicated test(s)? No 🗆 8. Are samples (except VOA and ONG) properly preserved? No 🗷 Yes 9. Was preservative added to bottles? No □ No VOA Vials Yes 🗌 10. VOA vials have zero headspace? Yes No 🐼 11. Were any sample containers received broken? # of preserved bottles checked No 🗌 for pH: 12 Does paperwork match bottle labels? (<2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? No 🗆 13. Are matrices correctly identified on Chain of Custody? No 🗀 14. Is it clear what analyses were requested? No 🗀 Checked by: 15. Were all holding times able to be met? (If no, notify customer for authorization.) Special Handling (If applicable) Yes 🗌 No 🗆 NA 🐱 16. Was client notified of all discrepancies with this order? 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

C	hain-	of-Cu	istody Record	Turn-Around Time:						_	_		_						-		
Client:	SM	Д		▼ Standard	□ Rush															AL	
	<u></u>	/ _		Project Name	FIEL	Concrete	┥ 🛓											KA	110)R	Y
vlailing	Address	U_1	W Breadway	Project Name	ا مرب	11.		404	24 11			v.hal									
		701	- Also Shile	Project #:	nameri+	CLOSUNZ	-			awkii				•	•						
	<u> </u>	1.199	on NM 87461 5-7535	5122				16	i. 50	5-34	5-38		_		_	uesi	410				
-none	F. CSD	<u> </u>	13-1055 Hass Os I willow	Drainet Mana	721				6		T		llely	_	XEC	ues					
JAVQC	Package:	1. CIANTO	Herson@Saidermiller,a	ĺ ,,	_		8021)	+ TPH (Gas only)	MR		ŀ	(S)		,SO ₄	CB's						
<u>⊠ Star</u>			☐ Level 4 (Full Validation)	Stew	Moska	/	J D	Ű	8		- [SIM		A,	2 P(
Accred		- Out-		Sampler: A.L	JP		1	핕	임	=	쉬	22		Ö.	808					- }	î
O NEL		U Othe	er	On Ice:	Z Yes	□ No	1 14	+	/꾌	418	504	82	<u>s</u>	Ö,	/ 86		(A)	ĺ			ō
<u>⊓ EDD</u>	(Type)_		<u> </u>	Sample Tem	perature: / ;	7	#			ğ	힐	9	etal	5	cide	(A)	<u>}</u>	. !			<u>}</u>
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX+ MTBE - TMB3-(8021)	BTEX + MTBE	TPH 8015B (GRO / DRO / MRO	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F,CI,NO3,NO2,PO4,SO4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)				Air Bubbles (Y or N)
bulis	11:80	S -:1	North SC	402		1503B67		<u>[</u>	艺	<u></u>	<u></u>	4	<u>×</u>	Ā	80	82	85	\dashv	\dashv	\dashv	<u> </u>
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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 qualifers 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 1505479

Date Reported: 5/18/2015

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: 15

1505479-001

Matrix: SOIL

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

Analyses	Result	RL Qu	ial Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E ORGANICS				Analy	st: KJH
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	5/13/2015 9:20:37 PN	19176
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	5/13/2015 9:20:37 PN	1 19176
Surr: DNOP	109	57.9-140	%REC	1	5/13/2015 9:20:37 PM	1 19176
EPA METHOD 8015D: GASOLINE RA	NGE				Analy	st: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/15/2015 12:32:00 A	M 19184
Surr: BFB	89.1	80-120	%REC	1	5/15/2015 12:32:00 A	M 19184
EPA METHOD 8021B: VOLATILES					, Analy	st: NSB
Benzene	, ND	0.049	mg/Kg	1	5/15/2015 12:32:00 A	M 19184
Toluene	ND	0.049	· mg/Kg	١ 1	5/15/2015 12:32:00 A	M 19184
Ethylbenzene	ND	0.049	mg/Kg	1	5/15/2015 12:32:00 A	M 19184
Xylenes, Total	ND	0.097	mg/Kg	1	5/15/2015 12:32:00 A	M 19184
Surr: 4-Bromofluorobenzene	97.3	80-120	%REC	1	5/15/2015 12:32:00 A	M 19184

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDImit
- 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

Page 1 of 4

- P Sample pH Not In Range
- RL Reporting Detection Limit

OC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1505479

18-May-15

Client:

Surr: DNOP

Souder, Miller and Associates

5.6

Project:

IEI Concrete

Sample ID MB-19176	SampT	ype: MI	BLK	Tes	tCode: E	PA Method	8015D: Dies	el Range (Organics	_
Client ID: PBS	Batch	ID: 19	176	F	RunNo: 2	6152				
Prep Date: 5/12/2015	Analysis D	ate: 5	/13/2015	S	SeqNo: 7	75893	Units: mg/k	g		
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	SampT	 ype: LC	s	Tes	tCode: E	PA Method	8015D: Dies	el Range (Organics	
Client ID: LCSS	Batch	ID: 19	176	F	RunNo: 2	6152				
Prep Date: 5/12/2015	Analysis D	ate: 5 /	13/2015	8	SeqNo: 7	75894	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

111

57.9

140

5.000

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

Page 2 of 4

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

PQL

5.0

RunNo: 26208

Prep Date: 5/12/2015 Analysis Date: 5/14/2015

Units: mg/Kg

Analyte

Result

SeqNo: 777553 %REC

120

HighLimit

RPDLimit -

Qual

Gasoline Range Organics (GRO)

ND

92.7

80

%RPD

Sum: BFB

930

1000

SPK value SPK Ref Val

TestCode: EPA Method 8015D: Gasoline Range

Sample ID LCS-19184

SampType: LCS Batch ID: 19184

5.0

RunNo: 26208

LowLimit

LowLimit

Units: mg/Kg

Qual

Analyte Gasoline Range Organics (GRO)

Prep Date: 5/12/2015 `

Result PQL

1000

Analysis Date: 5/14/2015

SeqNo: 777554 %REC

HighLimit

%RPD

RPDLimit

Surr: BFB

Client ID: LCSS

24

25.00 1000

0

SPK value SPK Ref Val

96.0 102 64 80 130

120

Qualifiers:

Value exceeds Maximum Contaminant Level. Е Value above quantitation range

Analyte detected below quantitation limits o RSD is greater than RSDlimit

R RPD outside accepted recovery limits Spike Recovery outside accepted recovery limits В Analyte detected in the associated Method Blank

Η Holding times for preparation or analysis exceeded Not Detected at the Reporting Limit

P Sample pH Not In Range Reporting Detection Limit Page 3 of 4

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	Samp	Гуре: МЕ	BLK	·Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: PBS	Batc	h ID: 19	184	F	RunNo: 2	6208				
Prep Date: 5/12/2015	Analysis [Date: 5/	14/2015	8	SeqNo: 7	77657	Units: mg/H	(g		
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	Samp	Гуре: LC	s	Tes	lCode: El	PA Method	8021B: Volat	tiles		
Client ID: LCSS	Batc	h ID: 19 :	184	F	RunNo: 2	6208				
Prep Date: 5/12/2015	Analysis [Date: 5/	14/2015	5	SeqNo: 7	77658	Units: mg/M	(g		

Sample ID LCS-19184	Samp1	Type: LC	S	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Batcl	h ID: 19	184	F	RunNo: 26208					
Prep Date: 5/12/2015	Analysis [Date: 5/	14/2015	S	SeqNo: 7	77658	Units: mg/F	ζg		
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

Page 4 of 4



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 Numb	per: 1505479		RcptNo: 1	
Received by/date: 05/12/15		··· · · · · · · · · · · · · · · · · ·		
Logged By: Lindsay Mangin 5/12/2015 7:00:00 /	AM.	July Hypo	•	
Completed By: Lindsay Mangin 5/12/2015 9:08:17 A		Strubellier	•	
		()" "" "		
Reviewed By: CS 0.5/12/15 Chain of Custody	·· -· ·	> 10		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			
<u>Log In</u>				
4. Was an attempt made to cool the samples?	Yes 🖟	No 🗌	NA 🗆	
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes 🗹	No 🗆	NA 🗆	
6. Sample(s) in proper container(s)?	Yes 🗹	No 🗆		
7. Sufficient sample volume for indicated test(s)?	Yes 🗹	No 🗀	•	
8. Are samples (except VOA and ONG) properly preserved?	Yes 🖃	No 🗆		
9. Was preservative added to bottles?	Yes 🗀	No 🗹	NA 🗆	
10.VOA vials have zero headspace?	Yes 🗌	No 🗆	No VOA Vials 🛃	
11. Were any sample containers received broken?	Yes	No 🗹	that managed and	
42.5	🖼		# of preserved bottles checked	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes 🗹	No ∐	for pH: (<2 or >12 unles	s noted)
13. Are matrices correctly identified on Chain of Custody?	Yes 🗭	No 🗆	Adjusted?	
14. Is it clear what analyses were requested?	Yes 🗹	No 🗔		
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes 🗹	No 🗔	Checked by:	
Special Handling (if applicable)				
16. Was client notified of all discrepancies with this order?	Yes 🗌	No □	NA 🗹	
Person Notified: Date		11. 477 ii. 4 maa aa		
By Whom: Via:	'	Phone I ☐ Fax	In Person	
Regarding:		11011	1_,	
Client Instructions:				
17. Additional remarks:		r and the enterprise and a	·	
18. Cooler Information				
Cooler No Temp ºC Condition Seal Intact Seal No	Seal Date	Signed By		
1 2.8 Good Yes	U IN E Hall-to-blow or more management when a			

C	Chain-of-Custody Record					Hime:				–		ш	ΑI	i 6	ENI	/TE	20	NA	ЛE	NT	'A I	
Client:	51	ΛA			☐ Standard	□ Rush) <u> </u>		<u> </u>	120)]										ORI	7
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Mailing	Address	401	(L) 3	Dadway	IEI	concrete	-		4901 Hawkins NE - Albuquerque, NM 87109													
Facus	ington			87401	Project #:							5-345			•	•	-	-410 7				
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☑ Stan	_	•	☐ Level 4	(Full Validation)	Steven Moskal)8) S ₄	TPH (Gas only)	5B (GRO / DRO / MRO)			OIMO	Anions (F,Cl,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	PCB'							
Accred	itation				Steven Moskal Sampler: J. Sprague Onlice: 1985 1980				1	표		\in		2	Ş	Pesticides / 8082						Î
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Date	Time	Matrix	Samp	le Request ID	Container Type and #	Preservative Type	HE	AL No.	×	BTEX +	TPH 801	TPH (Method 418.1)	EDB (Method 504.1)	PARS (6310 01 02/0	Anions (F,CI,NC	4 Q	8260B (VOA)					Air Bubbles
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Date: Time: Reinquished by: 11 15 1644 Please Copy																						

APPENDIX D

DISPOSAL OF PETROLEUM-CONTAMINATED CONCRETE APPROVAL LETTER

State of New Mexico Energy, Minerals and Natural Resources Department

Jami Bailey, Division Director

RECEIVED

OCT 7 - 2014

Susana Martinez Governor

David Mertin Cabinet Secretary

Deputy Cabinet Secretary

Cabinet Secretary Oil Conservation Division

Brett F. Woods, Ph.D.

OR DEPARTON OF THE PARTON OF T

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

SITE TICKET SCALE OPERATOR **ORIGIN** WCA Bondad Landfill **PHICKS** PO Box 215 01 163703 New Mexico Bloomfield, NM 87413 DATE IN DATE OUT TIME IN TIME OUT 9702478295 12/10/14 12/10/14 11:04 am 11:04 am 000100 REFERENCE VEHICLE ROLL OFF B\TRUCK BONDAD **B\TRUCK** BONDAD, CO 1 **GROSS WEIGHT GATE RATE FEB 2014** TARE WEIGHT CASH 3735267 INBOUND **NET WEIGHT** QTY: UNIT DESCRIPTION RATE EXTENSION FEE TOTAL \$269.40 \$4.80 \$274.20 Concrete Clean Small \$22.45 12.00 YD \$10..30,... 1.00 Energy Recovery Fee \$27.75 \$0.00 \$27.75 \$6.50 \$17.51 Environmental Fee \$0.00 \$17.51. 1.00 **NET AMOUNT** \$319.46 1500 East CR 318, Durango, CO 81301 TENDERED 78000.2 \$319.46 CHANGE \$0.00 CHECK NO. WARNING: Transporting any unauthorized hazardous waste to this facility "0050 for disposal is prohibited by law. Persons violating this prohibition are SIGNATURE X

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the section of the section of

subject to civil and criminal prosecutions.

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 O	PERATOR		ORIGIN	
01	163728		PHICK	s		New Mexico	
DATE 12/10		DATE OUT 12/10/14		TIME IN 2:21 pm	!	TIME OUT 2:21 pm	
RE	FERENCE	·	VEHI	CLE		ROLL OFF	
2909			INDUSTR	IAL ECOS			

INBOUND INVOICE

GATE RATE FEB 3735335

INC! Y	VEIGHT					
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	İ	Environmental Fee	\$6.50	\$17.51	\$0.00	\$17.51
·						
1500 East C	CR 318,	Durango, CO 81301	V			NET AMOUNT \$319.46 IENDERED \$0.00
WARNING: Transport for disposal is prohibiter subject to civil and crimin	bylow. Pe	uthorized hazardaus waste to this facility usons violating this prohibition are SIGNATURE 2	x			CHANGE \$0.00 CHECK NO,

WCA Bondad Landfill PO. Box 2:15 Bloomfield, NM 87413 9702478295

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

GROSS WEIGHT TARE WEIGHT NETWEIGHT

SITE	TICK!T		SCALE C	PERATOR	ORIGIN
01	163868		sbemeler	1	
DATE	IN	DATE	OUT	TIME IN	TIME OUT
12/16/	14	12/16/	14	12:11 pm	12:11 pm
RE	REFERENCE		VEH	ICLE	ROLL OFF
PO# 29	923		NDUSTRIAL ECOS		

INVOICE INBOUND GATE RATE FEB 2013 7 3 5 5 5 6

		WEIGHT					
•	QTY, i	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
	10.00	ΥD	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
						And the state of t	
	1500 East	CR 318,	Durango, CO 81301	.£			\$2 845 AMOUNT
							\$ DENDERED
							\$ OCHOONGE
	WARNING: Transport	ing any unau	thorized hozardous waste to this facility rsons violating this prohibition are SIGNATURE X				CHECK NO.

WCA Bondad Landfill PO. Box 2:15 Bloomfield, NM 87413 9702478295

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

GROSS WEIGHT TARE WEIGHT NET WEIGHT

SITE	TICKET		SCALE O	PERATOR	ORIGIN
01	163882		sbemelen		
DATE	M	DATE	OUT	TIME IN	TIME OUT
12/16/	14	12/16/	14	2:41 pm	2:41 pm
RE	FERENCE	L	VEHI	CLE	ROLL OFF
2924			 NDUSTRI <i>1</i>	AL ECOS	The companies of the contract

INVOICE	GATE RATE FEB 2034735542
INBOUND	3133342

,'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	\$6.50 \$9.15	\$16.43	\$0.00	\$16.43
				The state of the s	THE COLUMN TO TH	
1500 Foot	CD 310	Durango, CO 81301	<u> </u>	<u> </u>		(\$2 NET 940

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

SIGNATURE X'

\$00HOOGE CHECK NO.

STENDERED

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

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

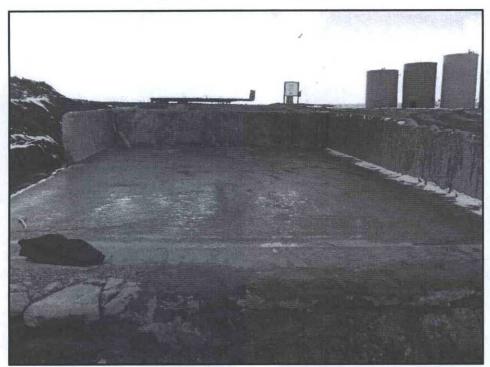
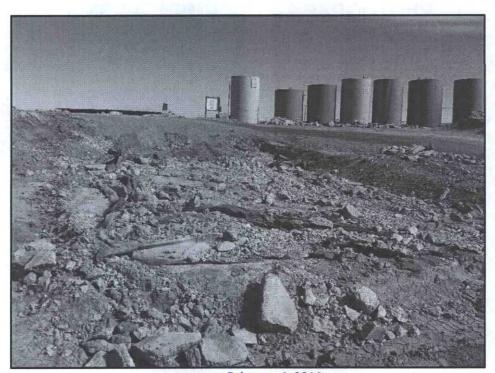


Photo 1: View, looking north of the concrete impoundment structure during the first concrete sampling



event on February 4, 2014.

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

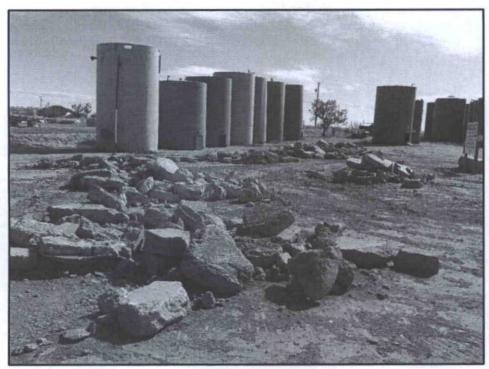


Photo 3: Concrete debris layed out in segements representing each wall and floor section during the third concrete sampling event on March 31, 2014.



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



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.



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