NM1-10-B

C-141

Concrete Impoundment

Date: 2015

OIL CONS. DIV DIST. 3

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

State of New Mexico Energy Minerals and Natural Resources

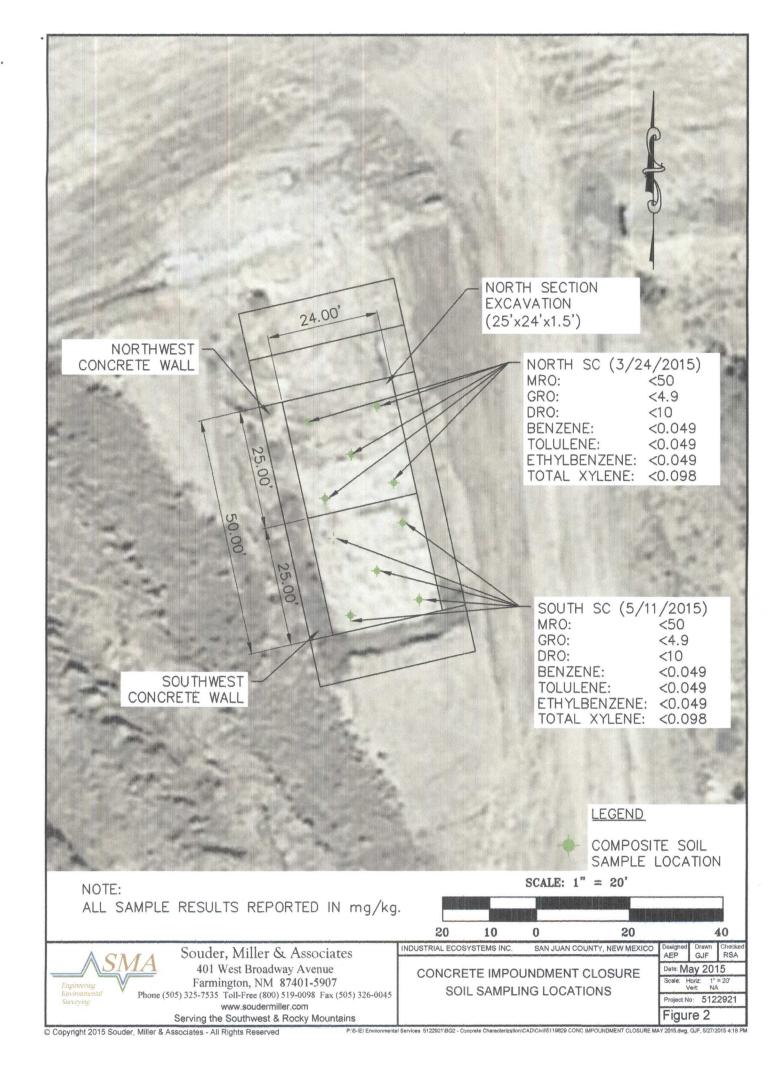
JUL 29 2015

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

Release Notificatio	on and Corrective A	renon –	_			
N. CO. T. L. L. L. T.	OPERATOR	<u> </u>				Final Report
Name of Company: Industrial Ecosystems, Inc.	Contact: Marcella Marque		dministra	ator		
Address: #49 CR 3150 * Aztec, NM 87410 Facility Name: JFJ Landfarm	Telephone No.: 505-632-1	782				
Facility Name. JFJ Landiann	Facility Type: SWMF					
Surface Owner: JFJ Landfarm Mineral Owner	:		Lease N	0.		
LOCATIO	ON OF RELEASE					
Unit Letter Section Township Range Feet from the Nort	h/South Line Feet from the	East/We	st Line	County San Juan		
Latitude & Long	gitude Drawing attached					
NATURI	E OF RELEASE					
Type of Release: Impacted soils from around and beneath the old concrete impoundment which was used to solidify incoming tank/pit bottoms & sludge	Volume of Release: unknown		Volume Ro 30 cubic			
Source of Release: Cracks and slop-over from the concrete impoundment	Date and Hour of Occurren Unknown	ce: D	Date and F	Hour of Discov	ery:	
Was Immediate Notice Given? ☐ Yes ☐ No ☐ Not Required	If YES, To Whom?					
By Whom?	Date and Hour					
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting	the Waterc	ourse.			
If a Watercourse was Impacted, Describe Fully.*						
Describe Cause of Problem and Remedial Action Taken.*						
The concrete impoundment used by JFJ Landfarm for solidification of to concrete which accounted for the impacted soils around and below the in approved by NMOCD.						
Describe Area Affected and Cleanup Action Taken.*						
The concrete and liner from the impoundment was demolished and disponding and liner were then excavated and field screened by Souder Miller & As collected from the north section and one from the south section of the in laboratory results for the north composite were below laboratory detection was 52 mg/kg for DRO, 330 mg/kg for MRO and below laboratory detection between the continue excavation of the soils until non-detect laboratory samples were completed on 06/24/15.	ssociates using PID and Petrofla appoundment area and submitted on limits for all analyses. The l ction limits for all other analyses based on meeting the requirem	g for TPH. for laborate aboratory res. These resents of NM	One five fory analyst esults for esults were IAC 19.15	spoint compositions for TPH and the south comme submitted to 5.29. However,	site sand BT posite the N r, IEI	ample was TEX. The e sample NMOCD elected to
I hereby certify that the information given above is true and complete to regulations all operators are required to report and/or file certain release public health or the environment. The acceptance of a C-141 report by t should their operations have failed to adequately investigate and remedia or the environment. In addition, NMOCD acceptance of a C-141 report federal, state, or local laws and/or regulations.	notifications and perform corre the NMOCD marked as "Final I ate contamination that pose a th	ective action Report" doe reat to grou	ns for release s not relied and water,	ases which ma eve the operato surface water	or of l	danger liability nan health
Signature: Marcula Marcul	OIL CON	ISERVA	TION	DIVISION	/	19
Printed Name: Marcella Marquez	Approved by District Supervi	what Sp.	ec.	ano,	X	
Title: Regulatory/Compliance/HR	Approval Date: 8/21/14	Ex	piration I	Date:		
E-mail Address: marcella@industrialecosystems.com Date: 07/21/15 Phone: (505) 632-1782	Conditions of Approval:			Attached [
Attach Additional Sheets If Necessary	cs 152334	40 8	57	,		(17)





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 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

andyl

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

Client Sample ID: North SC

Project: IEI Concrete Impoundment Closure

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

Lab ID:

1503B67-001

Matrix: SOIL

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

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

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E 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
- 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

Client Sample ID: South SC

Project: IEI Concrete Impoundment Closure

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

Lab ID:

1503B67-002

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

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGI	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 RA	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

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.
- 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
- B Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded H
- ND Not Detected at the Reporting Limit

Page 2 of 5

- Sample pH Not In Range
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#:

1503B67

30-Mar-15

Client:

Souder, Miller and Associates

Project:

IEI Concrete Impoundment Closure

Project: IEI Cond	crete Impoundment Closure		
Sample ID MB-18350	SampType: MBLK	TestCode: EPA Method 8015D: Did	esel Range Organics
Client ID: PBS	Batch ID: 18350	RunNo: 25115	
Prep Date: 3/26/2015	Analysis Date: 3/27/2015	SeqNo: 741755 Units: mg	g/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit	t %RPD RPDLimit Qual
Diesel Range Organics (DRO)	ND 10		
Motor Oil Range Organics (MRO)	ND 50		
Surr: DNOP	9.4 10.00	93.8 63.5 128	3
Sample ID LCS-18350	SampType: LCS	TestCode: EPA Method 8015D: Did	esel Range Organics
Client ID: LCSS	Batch ID: 18350	RunNo: 25115	
Prep Date: 3/26/2015	Analysis Date: 3/27/2015	SeqNo: 741859 Units: mg	g/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit	t %RPD RPDLimit Qual
Diesel Range Organics (DRO)	50 10 50.00	0 100 67.8 130)
Surr: DNOP	5.0 5.000	99.6 63.5 128	3
Sample ID MB-18404	SampType: MBLK	TestCode: EPA Method 8015D: Die	esel Range Organics
Client ID: PBS	Batch ID: 18404	RunNo: 25149	
Prep Date: 3/30/2015	Analysis Date: 3/30/2015	SeqNo: 743092 Units: %F	REC
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimi	t %RPD RPDLimit Qual
Surr: DNOP	9.9 10.00	98.8 63.5 128	3
Sample ID LCS-18404	SampType: LCS	TestCode: EPA Method 8015D: Die	esel Range Organics
Client ID: LCSS	Batch ID: 18404	RunNo: 25149	
Prep Date: 3/30/2015	Analysis Date: 3/30/2015	SeqNo: 743093 Units: %F	REC
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimi	t %RPD RPDLimit Qual
Surr: DNOP	5.0 5.000	99.7 63.5 128	3

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 3 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#:

1503B67

30-Mar-15

Client:

Souder, Miller and Associates

Project:

IEI Concrete Impoundment Closure

Sample ID MB-18353

SampType: MBLK

TestCode: EPA Method 8015D: Gasoline Range

80

LowLimit

LowLimit

80

Client ID:

PBS

Batch ID: 18353

RunNo: 25124

Prep Date: 3/26/2015 Result

SPK value SPK Ref Val

SPK value SPK Ref Val

SPK value SPK Ref Val %REC

1000

1000

SegNo: 742094

Units: %REC

Analyte

Surr: BFB

Client ID:

Prep Date:

Analysis Date: 3/27/2015

%REC

89.7

HighLimit %RPD **RPDLimit**

Sample ID LCS-18353

LCSS

3/26/2015

SampType: LCS

900

TestCode: EPA Method 8015D: Gasoline Range

Batch ID: 18353

RunNo: 25124

102

120

120

%RPD

%RPD

Analyte Surr: BFB Result

Analysis Date: 3/27/2015

SeqNo: 742095 %REC

Units: %REC HighLimit

RPDLimit

Qual

1000

SampType: MBLK

POL

TestCode: EPA Method 8015D: Gasoline Range

Client ID:

Sample ID MB-18355

Batch ID: 18355

RunNo: 25124

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

PQL

5.0

SeqNo: 742102

Units: mg/Kg

Analyte Gasoline Range Organics (GRO)

Surr: BFB

ND 910

Result

Result

24

990

1000

91.2

HighLimit 120 **RPDLimit**

Qual

Sample ID LCS-18355

SampType: LCS

TestCode: EPA Method 8015D: Gasoline Range

RunNo: 25124

LowLimit

Client ID: Prep Date:

3/26/2015

LCSS

Batch ID: 18355 Analysis Date: 3/27/2015

80

0

SeqNo: 742103 %REC LowLimit Units: mg/Kg HighLimit

RPDLimit

Qual

Analyte Gasoline Range Organics (GRO) Surr: BFB

PQL SPK value SPK Ref Val 5.0

25.00 1000

97.5 99.2

64 80 130 120 %RPD

Qualifiers:

Value exceeds Maximum Contaminant Level.

Spike Recovery outside accepted recovery limits

- E Value above quantitation range
- Analyte detected below quantitation limits
- RSD is greater than RSDlimit 0
- R RPD 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
- Sample pH Not In Range P
- Reporting Detection Limit

Page 4 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#:

1503B67

30-Mar-15

Client:

Souder, Miller and Associates

Project:

Client ID: LCSS

IEI Concrete Impoundment Closure

Batch ID: 18353

Sample ID MB-18353	SampType: ME	BLK	Test	Code: El	PA Method	8021B: Volat	tiles		
Client ID: PBS	Batch ID: 18	353	R	unNo: 2	5124				
Prep Date: 3/26/2015	Analysis Date: 3/	27/2015	S	eqNo: 7	42117	Units: %RE	С		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0	1.000		102	80	120			
Sample ID LCS-18353	SampType: LC	S	Test	Code: El	PA Method	8021B: Volat	tiles		

RunNo: 25124

SeqNo: 742118 Units: %REC Prep Date: 3/26/2015 Analysis Date: 3/27/2015 Result SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte 1.1 1.000 108 120 Surr: 4-Bromofluorobenzene Sample ID MB-18355 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBS	Batch	ID: 18	355	R	tunNo: 2	5124				
Prep Date: 3/26/2015	Analysis D	ate: 3/	27/2015	S	eqNo: 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-Bromofluorobenzene	1.0		1.000		103	80	120			

Sample ID LCS-18355	SampT	ype: LC	S	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: LCSS	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	Qual
Benzene	1.1	0.050	1.000	0	110	76.6	128			
Toluene	1.1	0.050	1.000	0	106	75	124			
Ethylbenzene	1.0	0.050	1.000	0	104	79.5	126			
Xylenes, Total	3.1	0.10	3.000	0	103	78.8	124			
Surr: 4-Bromofluorobenzene	1.1		1.000		109	80	120			

Qualifiers:

Value exceeds Maximum Contaminant Level.

E Value above quantitation range

Analyte detected below quantitation limits

RSD is greater than RSDlimit 0

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

Sample pH Not In Range

Reporting Detection Limit

Page 5 of 5



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

SMA-FARM Work Order Number: 1503B67 RcptNo: 1 Client Name: Received by/date: Ashley Gallegos 3/25/2015 7:55:00 AM Logged By: Completed By: **Ashley Gallegos** 3/25/2015 5:55:37 PM 03/24/15 Reviewed By: Chain of Custody No Not Present Yes 🗌 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 🗌 4. Was an attempt made to cool the samples? NA 5. Were all samples received at a temperature of >0° C to 6.0°C 6. Sample(s) in proper container(s)? No _ No _ 7. Sufficient sample volume for indicated test(s)? 8. Are samples (except VOA and ONG) properly preserved? No 🗌 No M NA 🗌 9. Was preservative added to bottles? Yes No VOA Vials 10. VOA vials have zero headspace? Yes No 🙀 Yes 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? Checked by: No 🗌 15. Were all holding times able to be met? (If no, notify customer for authorization.) Special Handling (If applicable) Yes No 🗌 NA W 16. Was client notified of all discrepancies with this order? Person Notified: Date eMail Phone Fax In Person By Whom: Via: Regarding: Client Instructions: 17. Additional remarks: 18. Cooler Information Cooler No Temp °C Condition Seal Intact | Seal No Good

Chain-of-Custody Record	Turn-Around Time:	•
Slient SMA	Standard □ Rush	ANALYSIS LARORAT
	H	(D
Mailing Address: 401 W Expadualy	Impoundment Closure	4901 Hawkins NE - Albuquerque, NM 87109
Tax miraton NM 87461	S/3292/	Tel. 505-345-3975 Fax 505-345-4107 Analysis Request
Lin	Project Manager:	RO)
ΩA/QC Package: ☐ Level 4 (Full Validation)	Stew Moskal	Gas o
	Sampler: AND	PH (/ DF 1) 1) 70 S
□ NELAP □ Other		+ TRO 18. 604. 82 6 703,1
□ EDD (Type)	Sample Temperature:),	FBE 3 (G) od 4 od 5 od 5 od 6 od 5 od 6 od 6 od 6 od 6
Date Time Matrix Sample Request ID	Container Preservative HEAL No. Type and # Type 1503BU7	BTEX+ MT BTEX + MT TPH 8015E TPH (Methor PAH's (831 RCRA 8 More Anions (F,C) 8081 Pestic 8260B (VO) 8270 (Semi
11/15 11:30 Sil North SC	402 -001	X
So:		X
Time: Relinquishe	Received by: Date Time	Remarks:
Date: Time: Relinquished by:	Received by World Pate Time	Steven mosted a sudermiller com
124/ 1944 Christia / 2010/06	377	
If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories	This serves as	possibility. Any sub-contracted data will be clearly notated on the analytical repo



Turn-Around Time:

HALL ENVIRONMENTAL ANALYSIS LABORATORY

2 5	arks:			BTEX + MTBE + TPH (Gas or
2 2	»,	X	X	TPH 8015B (GRO / DRO / MF
20				TPH (Method 418.1)
125/				EDB (Method 504.1)
3				PAH's (8310 or 8270 SIMS)
S				RCRA 8 Metals
steven moskal bisoudermiller . to in				Anions (F,Cl,NO ₃ ,NO ₂ ,PO ₄ ,SC
Z Z				8081 Pesticides / 8082 PCB's
2:16				8260B (VOA)
3				8270 (Semi-VOA)
2				
2				
				Air Bubbles (Y or N)



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

May 18, 2015

Steve Moskal

Souder, Miller and Associates

401 W. Broadway

Farmington, NM 87401

TEL: (505) 325-5667 FAX (505) 327-1496

RE: IEI Concrete

OrderNo.: 1505479

Dear Steve Moskal:

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

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

andyl

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: 1505479-001

Matrix: SOIL

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

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

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- 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 4

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

Hall Environmental Analysis Laboratory, Inc.

WO#:

1505479

18-May-15

Client:

Souder, Miller and Associates

Project:

IEI Concrete

Sample ID MB-19176 SampType: MBLK TestCode: EPA Method 8015D: Diesel Range Organics
Client ID: PBS Batch ID: 19176 RunNo: 26152
Prep Date: 5/12/2015 Analysis Date: 5/13/2015 SeqNo: 775893 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Diesel Range Organics (DRO) ND 10
Motor Oil Range Organics (MRO) ND 50

Surr: DNOP 11 10.00 106 57.9 140

Sample ID LCS-19176 SampType: LCS TestCode: EPA Method 8015D: Diesel Range Organics Client ID: LCSS Batch ID: 19176 RunNo: 26152 Prep Date: 5/12/2015 Analysis Date: 5/13/2015 SeqNo: 775894 Units: mg/Kg SPK value SPK Ref Val Analyte Result PQL %REC HighLimit %RPD **RPDLimit** LowLimit Qual Diesel Range Organics (DRO) 54 10 50.00 108 67.8 130 Surr: DNOP 5.6 5.000 111 57.9 140

Qualifiers:

Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

O RSD is greater than RSDlimit

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

P Sample pH Not In Range

RL Reporting Detection Limit

Page 2 of 4

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

Client ID: LCSS	Batch	ID: 19	184	F	RunNo: 20	6208					
Prep Date: 5/12/2015	Analysis Da	ate: 5/	14/2015	S	SeqNo: 7	77554	Units: mg/K	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	24	5.0	25.00	0	96.0	64	130				
Surr: BFB	1000		1000		102	80	120				

Qualifiers:

Value exceeds Maximum Contaminant Level.

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 3 of 4

Hall Environmental Analysis Laboratory, Inc.

WO#:

1505479

18-May-15

Client:

Souder, Miller and Associates

Project

IEI Concrete

Project: IEI Con	ncrete									
Sample ID MB-19184	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: PBS	Batch	ID: 19	184	R	RunNo: 2	6208				
Prep Date: 5/12/2015	Analysis Da	ate: 5/	14/2015	S	SeqNo: 7	77657	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-Bromofluorobenzene	1.1		1.000		107	80	120			
Sample ID LCS-19184	SampT	ype: LC	S	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: LCSS	Batch	ID: 19	184	R	RunNo: 2	6208				
Prep Date: 5/12/2015	Analysis Da	ate: 5/	14/2015	S	SeqNo: 7	77658	Units: mg/K	(g		
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 Number:				179		RcptNo:	cptNo: 1							
Received by/date:	H.	05/12/15			** * * * **									
Logged By: Line	dsay Mangin	5/12/2015 7:00:00 AM			of the state of									
Completed By: Line	dsay Mangin	5/12/2015 9:08:17 AM			Shooty Hago									
Reviewed By:	CS	05/12/15												
Chain of Custody														
1. Custody seals intact on sample bottles?					No 🗌	Not Present								
2. Is Chain of Custody complete?					No 🗌	Not Present								
3. How was the sample delivered?			Cou	ier										
Log In														
4. Was an attempt made to cool the samples?					No 🗌	NA 🗌								
5. Were all samples received at a temperature of >0° C to 6.0°C					No 🗀	NA 🗆								
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?			Yes		No 🗌									
9. Was preservative added to bottles?			Yes		No 🗹	NA 🗆								
10.VOA vials have zero headspace?					No 🗆	No VOA Vials								
11. Were any sample containers received broken?			Yes		No 🖈	# of processed								
				CE)		# 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 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?					No 🗆	NA 🖈								
Person Noti			Yes				1							
By Whom:	illed.	Date: Via:	eMa	ail 🗀	Phone Fax	In Person								
Regarding:					The Landson									
Client Instru	ictions:			LENGTH CHRISTIAN										
17. Additional remark	ks:			************			1							
18. <u>Cooler Informat</u> Cooler No 1 1 2.	Temp °C Condition 5		Seal D	ate	Signed By									

Chain-of-Custody Record		Turn-Around Time:				HALL ENVIRONMENTAL																	
Client: 5MA			⊠ Standard □ Rush			ANALYSIS LABORATORY																	
					Project Name:				www.hallenvironmental.com														
Mailing Address: 4/21 (1) 3 1		IEI concrete				490	01 H	awki								109							
TOI (DIDadusay		Project #:										-	-										
Farmington, NM 874010		5122921				Tel. 505-345-3975 Fax 505-345-4107 Analysis Request																	
Phone #: \(\) 505 \(\) 2.5 \(-7535 \)		Desired Manager					0	<u>@</u>				Section 4		1104	103								
		steeren m	oskale 50	wdumiter com	Project Manager:				1	ollo	IRC IRC					00	S						
QA/QC Package: Standard			Steven Moskal Sampler: J. Sprague				⁴ s (8021)	(Gas	N/O			SIMS)		PO4,5	PCB'								
Accreditation		Sampler:	1. 5000	ave-		4	표	P			20.8		02	082						-			
□ NELAP □ Other		(1) (0) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1				Ŧ	F	0	18.	4.	8270		3,N	8/8		8				or N			
□ EDD (Type)		Sample Temperature: 12/11				4	3E	G	4 0	d 5	ō	tals	Ž,	des	2	9				2			
Date	Time	Matrix	Samp	le Request ID	Container Type and #	Preservative Type	And the second		BTEX + MIN	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or	RCRA 8 Metals	Anions (F,Cl,NO3,NO2,PO4,SO4)	8081 Pesticides / 8082	8260B (VOA)	8270 (Semi-VOA)				Air Bubbles
-11-15	0945	Soil	5C-1	5 Base	1 40Z	_	-0	01	X		X												
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										\blacksquare	-	-	\dashv	-	_					_	+	+	\perp
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													\neg	\neg							\top	\top	\dagger
													\dashv		-					1	+	+	+
										\vdash	\dashv	\dashv	\dashv	-	-					-	+		+
											\dashv	\dashv	-	\dashv	-					\rightarrow	+	+	+
	-								_	\square	-	-	-	-	-	_				_	+	+	\perp
Date:	Time:	Relinquished by: Pusse & Somme		Received by: Date Time Sin/15 1644				Remarks:															
Date: 5/11/15	1821 /	Refinquish	ed by:	beter	Received by: Date Time Please Copy Resceived by: Date Time Jesse. Sprague & Soudern; Iles. com																		
1	f necessary,	samples sub	mitted to Hall E	Environmental may be subo	contracted to other a	credited laboratori	es. This serves a	as notice of this	possil	bility.	Any su	b-cont	racted	data v	will be	clear	y nota	ted on	the ar	nalytical	report		