

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

State of New Mexico
Energy Minerals and Natural Resources

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

OIL CONS. DIV DIST. 3

JUN 17 2016

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company	Robert L. Bayless, Producer LLC	Contact	Helen Trujillo
Address	PO Box 168	Telephone No.	505-326-2659
Facility Name	Tocito Central Tank Battery	Facility Type	Central Tank Battery
Surface Owner	Navajo Nation	Mineral Owner	API No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A	20	26N	18W					San Juan

Latitude 36.478275 Longitude -108.775919

NATURE OF RELEASE

Type of Release	Oil & Water	Volume of Release	41 bbls ttl	Volume Recovered	41 bbls ttl
Source of Release	Separator	Date and Hour of Occurrence		Date and Hour of Discovery	01/03/2015 @ 11:00 AM
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Cory Smith, District III		
By Whom?	Helen Trujillo	Date and Hour	01/05/2015 @ 3:00 PM		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.*
n/a

Describe Cause of Problem and Remedial Action Taken.*

Rupture disk on top of separator failed. 15 bbls of oil and 26 bbls of water spilled into 80 bbl pit tank. This overfilled the pit tank.
01/03/2015: A water truck removed fluid from around the pit tank and were able to put 15 bbls of oil into tank battery. The water was hauled away.
01/05/2015: A contractor is digging out soil to put into on-site dump box to be eventually hauled to a land farm handled by Contract Environmental Services, Cortez, CO.

Describe Area Affected and Cleanup Action Taken.*

NNEPA has given approval to leave contamination in place as approved earlier. See attached email and Testing Results addendum.

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

OIL CONSERVATION DIVISION

Signature:

Printed Name: Helen Trujillo

Title: Office Manager

E-mail Address: htrujillo@rlbayless.com

Date: 06/14/2016

Phone: (505) 326-2659

Approved by Environmental Specialist:

Approval Date: 8/19/16

Expiration Date:

Conditions of Approval:

Attached ☐

As Described in the Approval

* Attach Additional Sheets If Necessary

#NCS15623236862

Work plan NNEPA Approval Bayless to Leave
Contamination in place, if for some reason the
LAND is used for something other than oil/gas Bayless
will be Responsible 3R-1039

24

From: Steve Austin <nnepawq@frontiernet.net>

Date: June 14, 2016 at 8:33:27 AM MDT

To: 'John Thomas' <jthomas@rlbayless.com>, "'Smith, Cory, EMNRD'" <Cory.Smith@state.nm.us>

Subject: RE: Tocito Addendum Report

John,

Thanks for this addendum report. Based on the lab results, no further delineation will be required by Navajo EPA at this time. Feel free to contact me if you have any questions.

--Steve

Steve Austin

Senior Hydrologist

NNEPA WQ/NPDES Program

505-368-1037

From: John Thomas [<mailto:jthomas@rlbayless.com>]

Sent: Monday, June 13, 2016 4:43 PM

To: Smith, Cory, EMNRD (Cory.Smith@state.nm.us) <Cory.Smith@state.nm.us>;
nnepawq@frontiernet.net

Subject: Tocito Addendum Report

See Attached Tocito Pit Addendum. Let us know if you have any questions.

JT

John D Thomas

Production and Asset Manager

Robert L. Bayless, Producer LLC

2700 N. Farmington Ave. Building F Suite 1

Farmington, NM 87401

505-326-2659 Main

505-564-7806 Direct

505-320-5234 Cell

jthomas@rlbayless.com

From: Ashley Maxwell [<mailto:ashley.maxwell@soudermiller.com>]

Sent: Friday, June 10, 2016 6:00 PM

To: John Thomas

Cc: Shawna Chubbuck; Reid Allan

Subject: Tocito Addendum Report

Good Evening,

Please see the attached addendum report for the Tocito site. Feel free to contact me with any questions.

Thanks,
Ashley

Ashley Maxwell
Staff Scientist
401 W Broadway Farmington, NM, 87401

Office: (505) 325-7535
Cell: (505) 320-9241

www.soudermiller.com

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June 10, 2016

SMA #5123892

Robert L. Bayless, Producer LLC
Attn: Mr. John Thomas 2700
Farmington Avenue
Building F. Suite 1
PO Box 168
Farmington, NM 87401

**RE: ADDENDUM LETTER REPORT TO CONTAMINATION DELINEATION REPORT
TOCITO CENTRAL TANK BATTERY (DATED OCTOBER 23, 2015)**

Dear Mr. Thomas:

Souder, Miller & Associates (SMA) is submitting this letter report as an addendum to the Contamination Delineation Report dated October 23, 2015 to summarize the May 9th and 10th, 2016 soil boring and sampling activities at the Tocito Central Tank Battery release site. The site is located in the NE ¼ NE ¼ (Unit Letter A) Section 20 T26N R18W, near Shiprock, New Mexico.

Due to soil contamination in soil borings to the northwest and west of the remedial excavation during the September, 2015 investigation, New Mexico Oil Conservation Division (NMOCD) requested additional soil borings to define the extents of contamination.

1.0 SUMMARY OF FIELD ACTIVITIES

On May 9th and 10th, 2016, SMA conducted additional soil boring and sampling activities at the Tocito Central Tank Battery site. A total of two soil borings were drilled. Details for soil borings SB-8 and SB-9 are attached in the figures section of this report. A total of four samples, two from each soil boring, were collected. A summary of laboratory analysis is attached in Table 3. The depths from which samples were collected ranged from 40 to 55 feet below ground surface (bgs). The samples were collected in laboratory provided glassware and submitted to Hall Environmental Analysis Laboratory in Albuquerque, NM for analysis via Method 8021 BTEX, 8015 GRO/DRO/MRO and 300.1 chlorides. Figure 3 provides the locations of the soil borings and contains a table detailing sample depths and results.

The laboratory report is included in Appendix A.

2.0 RESULTS/ CONCLUSION

The results of the additional soil investigation conducted on May 9th and 10th, 2016 indicate that subsurface contaminant concentrations are all below NMOCD soil remediation action levels (RALs). SMA recommends no further action at Tocito Central Tank Battery site.

The scope of our services consisted of oversight and logging of soil borings, soil sample collection, and preparation of this summary report. All work has been performed in accordance with generally accepted professional environmental consulting practices for oil and gas pipeline releases in the San Juan Basin in New Mexico.

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

Sincerely,

Souder, Miller & Associates



Ashley Maxwell
Staff Scientist



Reid Allan
Principal Scientist

Figures:

Figure 3: Soil Boring Map
SB-8 Soil Boring Log
SB-9 Soil Boring Log

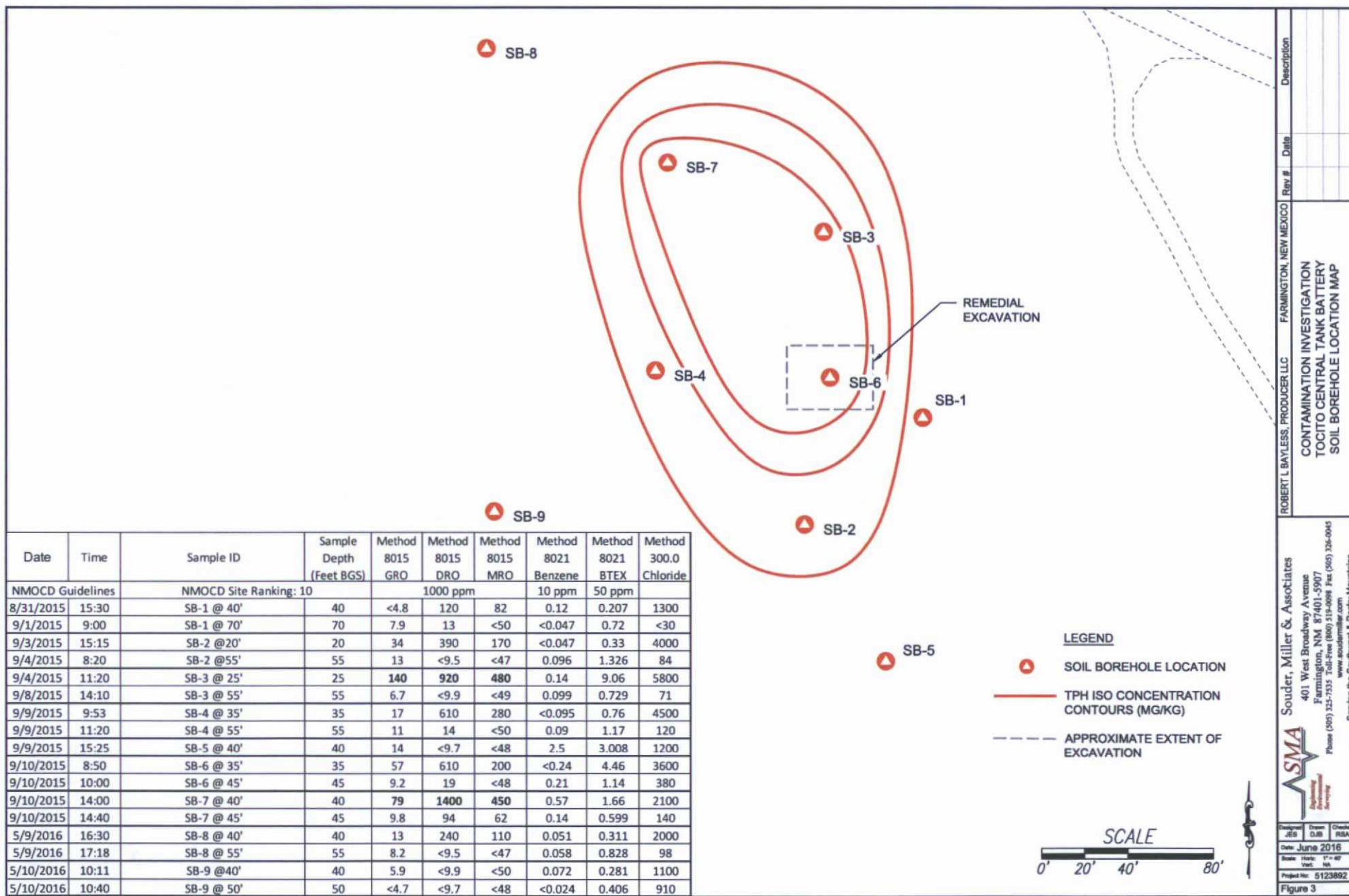
Table:

Table 3: Summary of Laboratory Analysis

Appendix

Appendix A: Laboratory Report

FIGURES



Rev #	Date	Description

ROBERT L BAYLESS, PRODUCER LLC FARMINGTON, NEW MEXICO

CONTAMINATION INVESTIGATION
TOCITO CENTRAL TANK BATTERY
SOIL BOREHOLE LOCATION MAP

Souder, Miller & Associates
401 West Broadway Avenue
Farmington, NM 87401-5907
Phone (505) 325-7337 Toll-Free (800) 513-0098 Fax (505) 326-0045
www.soudermiller.com
Serving the Southwest & Rocky Mountains

Figure 3

SB-8 SOIL BORING LOG

(FEET) DEPTH	SOIL TYPE	PID (PPM)	COLOR	SAMPLE DESCRIPTION
0				NS
5		1.7	10YR 5/4	-
10				NS
15		-	-	NO RECOVERY, SAND
20		2.5	10YR 5/1 10YR 5/3	DARK GRAY SHALE FRAGMENTS BROWN SAND
25				NS
30		1.7	10YR 5/3	BROWN WELL SORTED SAND w/SANDSTONE COBBLE FRAGMENTS
35				NS
40		2.1	10YR 4/3	UNCONSOLIDATED SAND WITH CLAY FRAGMENTS
45				NS
50		2.5	10YR 5/3	EVAPORITE DEPOSITS
55				NS
60		-	-	BROWN SAND, SILT
				NS
		323	10YR 4/3	GRAY/BROWN SANDY, CLAYEY SHALE. EVAPORITE ACCRETIONS.
				NS
		49.8	10YR 4/2	NO ODOR, GRAY, SILTY SHALE
				NS
		53	10YR 4/2	GRAY SILTY SHALE
				NS
		-	-	-

END OF HOLE

LOG LEGEND



SAND



SILT



COBBLE



CLAY



SHALE



EVAPORITE

WATER NOT
ENCOUNTERED
DURING DRILLING

DRILLER: YELLOW JACKET
DATE COMPLETED: MAY 10, 2016
BOREHOLE DIAMETER: 8" O.D.
SAMPLER TYPE: SPLIT SPOON
DRILLING METHOD: HOLLOW STEM AUGER
TOTAL BORING DEPTH: 55 FT.
LOGGED BY: JES
NS = NOT SAMPLED



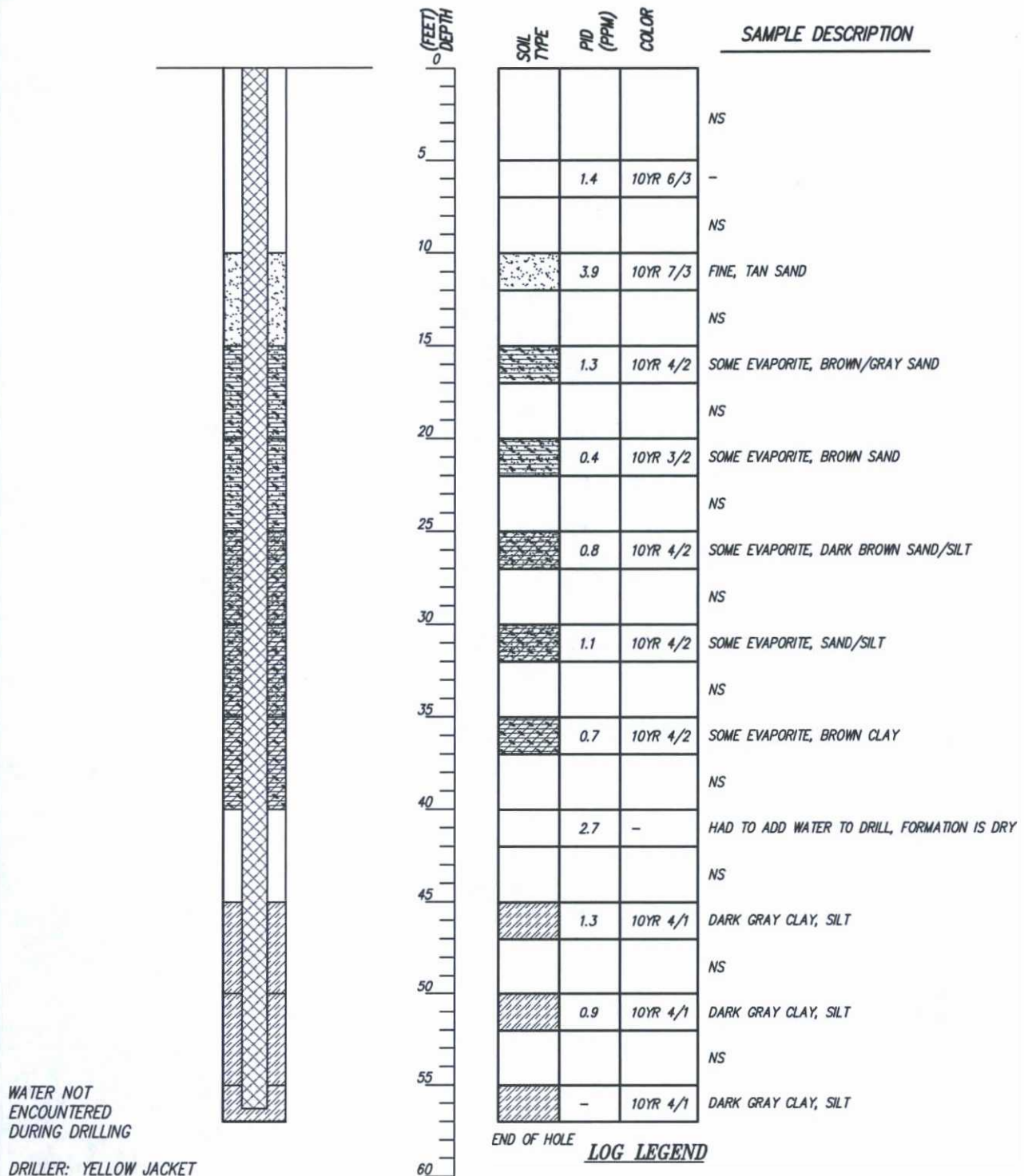
SOUDER, MILLER & ASSOCIATES
401 West Broadway Avenue
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ROBERT L. BAYLESS PRODUCER LLC FARMINGTON, NEW MEXICO

SB-8 SOIL BORING LOG TOCITO CENTRAL TANK BATTERY

Designed JES	Drawn GJF	Checked RSA
Date: MAY 2016		
Scale: Horiz: n/a Vert: n/a		
Project No: 5123892		
Figure: 8		

SB-9 SOIL BORING LOG



LOG LEGEND



<p>SOUDER, MILLER & ASSOCIATES 401 West Broadway Avenue Farmington, NM 87401-5907 Phone (505) 325-7535 Toll-Free (800) 519-0098 Fax (505) 326-0045 www.soudermiller.com Serving the Southwest & Rocky Mountains Albuquerque, Carlsbad, Farmington, Las Cruces, Roswell, Santa Fe, NM • El Paso, TX Cortez, Grand Junction, CO • Safford, AZ • Moab, UT</p>	ROBERT L. BAYLESS PRODUCER LLC FARMINGTON, NEW MEXICO		Designed JES	Drawn GJF	Checked RSA
	SB-9 SOIL BORING LOG TOCITO CENTRAL TANK BATTERY		Date: MAY 2016		
			Scale: Horiz: n/a Vert: n/a		
			Project No: 5123892		
				Figure: 9	

Table

Bayless Producers
Table 3: Summary of Laboratory Analysis
Results in mg/Kg

Tocito Central Tank Battery
Contamination Delineation
6/8/2016

Date	Time	Sample ID	Sample Depth (Feet BGS)	Method 8015 GRO	Method 8015 DRO	Method 8015 MRO	Method 8021 Benzene	Method 8021 BTEX	Method 300.0 Chlorides
NMOCD Guidelines		NMOCD Site Ranking: 10		1000 ppm			10 ppm	50 ppm	
8/31/2015	15:30	SB-1 @ 40'	40	<4.8	120	82	0.12	0.207	1300
9/1/2015	9:00	SB-1 @ 70'	70	7.9	13	<50	<0.047	0.72	<30
9/3/2015	15:15	SB-2 @ 20'	20	34	390	170	<0.047	0.33	4000
9/4/2015	8:20	SB-2 @ 55'	55	13	<9.5	<47	0.096	1.326	84
9/4/2015	11:20	SB-3 @ 25'	25	140	920	480	0.14	9.06	5800
9/8/2015	14:10	SB-3 @ 55'	55	6.7	<9.9	<49	0.099	0.729	71
9/9/2015	9:53	SB-4 @ 35'	35	17	610	280	<0.095	0.76	4500
9/9/2015	11:20	SB-4 @ 55'	55	11	14	<50	0.09	1.17	120
9/9/2015	15:25	SB-5 @ 40'	40	14	<9.7	<48	2.5	3.008	1200
9/10/2015	8:50	SB-6 @ 35'	35	57	610	200	<0.24	4.46	3600
9/10/2015	10:00	SB-6 @ 45'	45	9.2	19	<48	0.21	1.14	380
9/10/2015	14:00	SB-7 @ 40'	40	79	1400	450	0.57	1.66	2100
9/10/2015	14:40	SB-7 @ 45'	45	9.8	94	62	0.14	0.599	140
5/9/2016	16:30	SB-8 @ 40'	40	13	240	110	0.051	0.311	2000
5/9/2016	17:18	SB-8 @ 55'	55	8.2	<9.5	<47	0.058	0.828	98
5/10/2016	10:11	SB-9 @ 40'	40	5.9	<9.9	<50	0.072	0.281	1100
5/10/2016	10:40	SB-9 @ 50'	50	<4.7	<9.7	<48	<0.024	0.406	910

Red indicates that laboratory detection limit exceeded at least one screening level/standard



APPENDIX A
LABORATORY REPORT



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

May 19, 2016

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

RE: Tocito

OrderNo.: 1605432

Dear Jesse Sprague:

Hall Environmental Analysis Laboratory received 4 sample(s) on 5/11/2016 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1605432

Date Reported: 5/19/2016

CLIENT: Souder, Miller and Associates

Client Sample ID: SB-8@40'

Project: Tocito

Collection Date: 5/9/2016 4:30:00 PM

Lab ID: 1605432-001

Matrix: SOIL

Received Date: 5/11/2016 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	2000	75		mg/Kg	50	5/17/2016 5:53:26 AM	25305
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	240	9.6		mg/Kg	1	5/17/2016 11:15:19 AM	25234
Motor Oil Range Organics (MRO)	110	48		mg/Kg	1	5/17/2016 11:15:19 AM	25234
Surr: DNOP	98.7	70-130		%Rec	1	5/17/2016 11:15:19 AM	25234
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	13	4.9		mg/Kg	1	5/12/2016 10:55:37 AM	25265
Surr: BFB	307	80-120	S	%Rec	1	5/12/2016 10:55:37 AM	25265
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	0.051	0.025		mg/Kg	1	5/12/2016 10:55:37 AM	25265
Toluene	ND	0.049		mg/Kg	1	5/12/2016 10:55:37 AM	25265
Ethylbenzene	0.13	0.049		mg/Kg	1	5/12/2016 10:55:37 AM	25265
Xylenes, Total	0.13	0.098		mg/Kg	1	5/12/2016 10:55:37 AM	25265
Surr: 4-Bromofluorobenzene	113	80-120		%Rec	1	5/12/2016 10:55:37 AM	25265

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

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

Analytical Report

Lab Order 1605432

Date Reported: 5/19/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Client Sample ID: SB-8@55'

Project: Tocito

Collection Date: 5/9/2016 5:18:00 PM

Lab ID: 1605432-002

Matrix: SOIL

Received Date: 5/11/2016 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	98	30		mg/Kg	20	5/13/2016 4:49:46 PM	25305
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	5/16/2016 6:44:07 PM	25234
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	5/16/2016 6:44:07 PM	25234
Surr: DNOP	98.4	70-130		%Rec	1	5/16/2016 6:44:07 PM	25234
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	8.2	4.8		mg/Kg	1	5/12/2016 12:06:02 PM	25265
Surr: BFB	119	80-120		%Rec	1	5/12/2016 12:06:02 PM	25265
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	0.058	0.024		mg/Kg	1	5/12/2016 12:06:02 PM	25265
Toluene	0.21	0.048		mg/Kg	1	5/12/2016 12:06:02 PM	25265
Ethylbenzene	0.14	0.048		mg/Kg	1	5/12/2016 12:06:02 PM	25265
Xylenes, Total	0.42	0.096		mg/Kg	1	5/12/2016 12:06:02 PM	25265
Surr: 4-Bromofluorobenzene	109	80-120		%Rec	1	5/12/2016 12:06:02 PM	25265

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

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

Analytical Report

Lab Order 1605432

Date Reported: 5/19/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Client Sample ID: SB-9@40'

Project: Tocito

Collection Date: 5/10/2016 10:11:00 AM

Lab ID: 1605432-003

Matrix: SOIL

Received Date: 5/11/2016 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	1100	30		mg/Kg	20	5/13/2016 5:02:11 PM	25305
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	5/16/2016 7:27:35 PM	25234
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	5/16/2016 7:27:35 PM	25234
Surr: DNOP	97.9	70-130		%Rec	1	5/16/2016 7:27:35 PM	25234
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	5.9	4.8		mg/Kg	1	5/12/2016 12:29:29 PM	25265
Surr: BFB	184	80-120	S	%Rec	1	5/12/2016 12:29:29 PM	25265
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	0.072	0.024		mg/Kg	1	5/12/2016 12:29:29 PM	25265
Toluene	ND	0.048		mg/Kg	1	5/12/2016 12:29:29 PM	25265
Ethylbenzene	0.065	0.048		mg/Kg	1	5/12/2016 12:29:29 PM	25265
Xylenes, Total	ND	0.096		mg/Kg	1	5/12/2016 12:29:29 PM	25265
Surr: 4-Bromofluorobenzene	113	80-120		%Rec	1	5/12/2016 12:29:29 PM	25265

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

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

Analytical Report

Lab Order 1605432

Date Reported: 5/19/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Client Sample ID: SB-9@50'

Project: Tocito

Collection Date: 5/10/2016 10:40:00 AM

Lab ID: 1605432-004

Matrix: SOIL

Received Date: 5/11/2016 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	910	30		mg/Kg	20	5/13/2016 5:14:35 PM	25305
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	5/18/2016 10:56:11 AM	25322
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	5/18/2016 10:56:11 AM	25322
Surr: DNOP	94.4	70-130		%Rec	1	5/18/2016 10:56:11 AM	25322
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	5/12/2016 12:52:53 PM	25265
Surr: BFB	117	80-120		%Rec	1	5/12/2016 12:52:53 PM	25265
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	5/12/2016 12:52:53 PM	25265
Toluene	0.091	0.047		mg/Kg	1	5/12/2016 12:52:53 PM	25265
Ethylbenzene	0.071	0.047		mg/Kg	1	5/12/2016 12:52:53 PM	25265
Xylenes, Total	0.22	0.095		mg/Kg	1	5/12/2016 12:52:53 PM	25265
Surr: 4-Bromofluorobenzene	108	80-120		%Rec	1	5/12/2016 12:52:53 PM	25265

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1605432

19-May-16

Client: Souder, Miller and Associates

Project: Tocito

Sample ID	MB-25305	SampType:	mblk	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	25305	RunNo:	34210					
Prep Date:	5/13/2016	Analysis Date:	5/13/2016	SeqNo:	1054885	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-25305	SampType:	lcs	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	25305	RunNo:	34210					
Prep Date:	5/13/2016	Analysis Date:	5/13/2016	SeqNo:	1054886	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.6	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1605432

19-May-16

Client: Souder, Miller and Associates

Project: Tocito

Sample ID	MB-25234	SampType:	MBLK	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	25234	RunNo:	34242					
Prep Date:	5/11/2016	Analysis Date:	5/16/2016	SeqNo:	1056603	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.1		10.00		90.9	70	130			

Sample ID	LCS-25234	SampType:	LCS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	25234	RunNo:	34242					
Prep Date:	5/11/2016	Analysis Date:	5/16/2016	SeqNo:	1056604	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	38	10	50.00	0	76.7	65.8	136			
Surr: DNOP	4.2		5.000		83.8	70	130			

Sample ID	LCS-25321	SampType:	LCS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	25321	RunNo:	34313					
Prep Date:	5/16/2016	Analysis Date:	5/18/2016	SeqNo:	1058336	Units:	%Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.4		5.000		88.6	70	130			

Sample ID	LCS-25322	SampType:	LCS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	25322	RunNo:	34313					
Prep Date:	5/16/2016	Analysis Date:	5/18/2016	SeqNo:	1058337	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	42	10	50.00	0	83.8	62.6	124			
Surr: DNOP	4.1		5.000		82.7	70	130			

Sample ID	MB-25321	SampType:	MBLK	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	25321	RunNo:	34313					
Prep Date:	5/16/2016	Analysis Date:	5/18/2016	SeqNo:	1058338	Units:	%Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.1		10.00		91.0	70	130			

Sample ID	MB-25322	SampType:	MBLK	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	25322	RunNo:	34313					
Prep Date:	5/16/2016	Analysis Date:	5/18/2016	SeqNo:	1058339	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1605432

19-May-16

Client: Souder, Miller and Associates

Project: Tocito

Sample ID	MB-25322	SampType:	MBLK	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	25322	RunNo:	34313					
Prep Date:	5/16/2016	Analysis Date:	5/18/2016	SeqNo:	1058339	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.5		10.00		95.1	70	130			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1605432

19-May-16

Client: Souder, Miller and Associates

Project: Tocito

Sample ID	MB-25265	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	25265	RunNo:	34190					
Prep Date:	5/11/2016	Analysis Date:	5/12/2016	SeqNo:	1054189	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		102	80	120			

Sample ID	LCS-25265	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	25265	RunNo:	34190					
Prep Date:	5/11/2016	Analysis Date:	5/12/2016	SeqNo:	1054190	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	92.6	80	120			
Surr: BFB	1100		1000		111	80	120			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1605432

19-May-16

Client: Souder, Miller and Associates

Project: Tocito

Sample ID	MB-25265	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	25265	RunNo:	34190					
Prep Date:	5/11/2016	Analysis Date:	5/12/2016	SeqNo:	1054205	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		104	80	120			

Sample ID	LCS-25265	SampType: LCS			TestCode: EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID: 25265			RunNo: 34190					
Prep Date:	5/11/2016	Analysis Date: 5/12/2016			SeqNo: 1054206		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	105	75.3	123			
Toluene	1.0	0.050	1.000	0	104	80	124			
Ethylbenzene	1.0	0.050	1.000	0	101	82.8	121			
Xylenes, Total	3.0	0.10	3.000	0	101	83.9	122			
Surr: 4-Bromofluorobenzene	1.1		1.000		111	80	120			

Sample ID	1605432-001AMS	SampType:	MS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	SB-8@40'	Batch ID:	25265	RunNo:	34190					
Prep Date:	5/11/2016	Analysis Date:	5/12/2016	SeqNo:	1054208	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.024	0.9569	0.05142	114	71.5	122			
Toluene	1.1	0.048	0.9569	0	114	71.2	123			
Ethylbenzene	1.2	0.048	0.9569	0.1290	114	75.2	130			
Xylenes, Total	3.3	0.096	2.871	0.1286	112	72.4	131			
Surr: 4-Bromofluorobenzene	1.1		0.9569		119	80	120			

Sample ID	1605432-001AMSD	SampType:	MSD	TestCode: EPA Method 8021B: Volatiles						
Client ID:	SB-8@40'	Batch ID:	25265	RunNo: 34190						
Prep Date:	5/11/2016	Analysis Date:	5/12/2016	SeqNo:	1054209	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.024	0.9560	0.05142	103	71.5	122	10.1	20	
Toluene	0.98	0.048	0.9560	0	102	71.2	123	10.8	20	
Ethylbenzene	1.1	0.048	0.9560	0.1290	101	75.2	130	10.1	20	
Xylenes, Total	3.0	0.096	2.868	0.1286	102	72.4	131	9.12	20	
Surr: 4-Bromofluorobenzene	1.2		0.9560		120	80	120	0	0	S

Qualifiers:

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



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: 1605432

RcptNo: 1

Received by/date:

Logged By: Joe Archuleta

5/11/2016 8:00:00 AM

Completed By: Joe Archuleta

5/11/2016 8:32:19 AM

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

Log In

4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
5. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
6. Sample(s) in proper container(s)? Yes ☒ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
8. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
9. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
10. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
11. Were any sample containers received broken? Yes ☐ No ☒
12. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐ # of preserved bottles checked for pH:
(<2 or >12 unless noted)
13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐ Adjusted?
14. Is it clear what analyses were requested? Yes ☒ No ☐
15. Were all holding times able to be met?
(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:

By Whom:

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

17. Additional remarks:

18. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.9	Good	Yes			

Client: SMA

Mailing Address: 401 W Broadway
Farmington, NM 87401

Phone #: 505-325-7535

email or Fax#: ashley.maxwell@schudermiller.com

QA/QC Package: Schudermiller.com

☐ Standard ☐ Level 4 (Full Validation)

Accreditation

☐ NELAP ☐ Other _____

☐ EDD (Type) _____

☒ Standard ☐ Rush

Tocito

Project #:

Project Manager:


Jesse Sprague

Sampler: JES/APM

On Ice: ☒ Yes ☐ No

Sample Temperature: 1.9

[illegible]

Date:	Time:	Relinquished by:
5/10/14	1731	

Date:	Time:	Relinquished by:
5/10/14	1812	Christa Wilson

Received by:	Date	Time
Christine White	5/16/16	1731

Received by:	Date	Time
<i>Jac. Ant</i>	05/11/16	0800

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

[illegible]

Remarks:

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