

AE Order Number Banner

Report Description

This report shows an AE Order Number in Barcode format for purposes of scanning. The Barcode format is Code 39.



App Number: pCS1616649946

3RP⁻ 1039

ROBERT L BAYLESS

8/19/2016

State of New Mexico Energy Minerals and Natural Resources 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.

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

				case nouni	cation	and Co	orrective A	CHOI	1				
						OPERA	ΓOR		🗌 Initi	al Report	\boxtimes	Final R	
Name of Co	ompany	Robert L.	Bayless,	Producer LLC		Contact	Helen Tru	ijillo					
Address		PO Box 1	68			Telephone No. 505-326-2659							
Facility Na	me	Tocito Ce	ntral Tan	k Battery		Facility Type Central Tank Battery							
Surface Ow	ner Na	vajo Nation		Mineral (Owner	ner API No.							
				LOC	ATION	OF RE	LEASE						
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	_ Longitud	le <u>-108.775919</u>	2					
				NAT	FURE	OF REL	EASE						
Type of Rele	ase Oi	1 & Water				Volume of	Release 41 bbls	s ttl	Volume I	Recovered	41 bl	bls ttl	
Source of Re	lease Se	parator				Date and H	lour of Occurrence	ce	Date and	Hour of Dis	scovery		
Was Immedi	ate Notice (Given?				If YES, To	Whom?		01/03/20	15 @ 11:00	AM		
		\boxtimes	Yes [No 🗌 Not R	equired	Cory Smith	n, District III						
By Whom?	He	elen Trujillo				Date and H	lour 01/05/20	015@3	:00 PM				
Was a Water	course Read	ched?				If YES, Vo	lume Impacting t	the Wat	ercourse.				
			Yes 🖄	No									
If a Watercou n/a	urse was Im	pacted, Descr	ibe Fully.	*									
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From: Steve Austin <<u>nnepawq@frontiernet.net</u>> Date: June 14, 2016 at 8:33:27 AM MDT To: 'John Thomas' <<u>jthomas@rlbayless.com</u>>, "'Smith, Cory, EMNRD''' <<u>Cory.Smith@state.nm.us</u>> 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 (<u>Cory.Smith@state.nm.us</u>) <<u>Cory.Smith@state.nm.us</u>>; <u>nnepawq@frontiernet.net</u> 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 <u>ithomas@rlbayless.com</u>

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. 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.

Engineering • Environmental • Surveying

www.soudermiller.com

Tocito Central Tank Battery Addendum to Contamination Delineation Report Page 2

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

R.I.I.alle

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



C Copyright 2015 Souder, Miller & Associates - All Rights Reserved

P-IS-Bayless Toolto Sampling 5123892*CAD/Civil/5123892 TOCITO SAMPLING.dwg DJB, 6/10/2016 4:45 P



Copyright 2015 Souder, Miller & Associates - All Rights Reserved

P:6-Bayless Toolto Sampling 5123892/CAD/Civil/Soil Boring Log.dwg, DJB, 6/10/2016 5:29 PM



pyright 2015 Souder, Miller & Associates - All Rights Reserved

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P:\S-Baylesa Tocito Sampling 5123892\CAD\Civil\Soil Boring Log.dwg, DJB, 6/10/2016 5:03

Table

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

Tocito Central Tank Battery Contamination Delineation 6/8/2016

			Sample	Method	Method	Method	Method	Method	Method
Date	Time	Sample ID	Depth	8015	8015	8015	8021	8021	300.0
			(Feet BGS)	GRO	DRO	MRO	Benzene	BTEX	Chlorides
NMOCD G	uidelines	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

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 <u>www.hallenvironmental.com</u> 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

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

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@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

Result	PQL Q	ual Units	DF	Date Analyzed	Batch
				Analyst	LGT
2000	75	mg/Kg	50	5/17/2016 5:53:26 AM	25305
ORGANICS	6			Analyst:	KJH
240	9.6	mg/Kg	1	5/17/2016 11:15:19 AM	25234
110	48	mg/Kg	1	5/17/2016 11:15:19 AM	25234
98.7	70-130	%Rec	1	5/17/2016 11:15:19 AM	25234
				Analyst:	NSB
13	4.9	mg/Kg	1	5/12/2016 10:55:37 AM	25265
307	80-120	S %Rec	1	5/12/2016 10:55:37 AM	25265
				Analyst:	NSB
0.051	0.025	mg/Kg	1	5/12/2016 10:55:37 AM	25265
ND	0.049	mg/Kg	1	5/12/2016 10:55:37 AM	25265
0.13	0.049	mg/Kg	1	5/12/2016 10:55:37 AM	25265
0.13	0.098	mg/Kg	1	5/12/2016 10:55:37 AM	25265
113	80-120	%Rec	1	5/12/2016 10:55:37 AM	25265
	Result 2000 ORGANICS 240 110 98.7 5 13 307 0.051 ND 0.13 0.13 0.13 113	Result PQL Q 2000 75 ORGANICS 240 240 9.6 110 48 98.7 70-130 13 4.9 307 80-120 0.051 0.025 ND 0.049 0.13 0.098 113 80-120	Result PQL Qual Units 2000 75 mg/Kg ORGANICS	Result PQL Qual Units DF 2000 75 mg/Kg 50 ORGANICS 240 9.6 mg/Kg 1 110 48 mg/Kg 1 98.7 70-130 %Rec 1 13 4.9 mg/Kg 1 307 80-120 S %Rec 1 0.051 0.025 mg/Kg 1 1 0.13 0.049 mg/Kg 1 1 0.13 0.098 mg/Kg 1 1 113 80-120 %Rec 1 1	Result PQL Qual Units DF Date Analyzed 2000 75 mg/Kg 50 5/17/2016 5:53:26 AM ORGANICS Analyst: 240 9.6 mg/Kg 1 5/17/2016 11:15:19 AM 110 48 mg/Kg 1 5/17/2016 11:15:19 AM 98.7 70-130 %Rec 1 5/17/2016 11:15:19 AM 2 98.7 70-130 %Rec 1 5/17/2016 11:15:19 AM 307 80-120 S %Rec 1 5/12/2016 10:55:37 AM 307 80-120 S %Rec 1 5/12/2016 10:55:37 AM 0.051 0.025 mg/Kg 1 5/12/2016 10:55:37 AM ND 0.049 mg/Kg 1 5/12/2016 10:55:37 AM 0.13 0.098 mg/Kg 1 5/12/2016 10:55:37 AM 0.13 0.098 mg/Kg 1 5/12/2016 10:55:37 AM 113 80-120 %Rec 1 5/12/2016 10:55:37 AM

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

Oua	li	fiers:
Qua		IICI S.

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- 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
- В Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits Page 1 of 9 J
- Р Sample pH Not In Range
- Reporting Detection Limit RL
- Sample container temperature is out of limit as specified W

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:** Collection Date: 5/9/2016 5:18:00 PM Tocito Lab ID: 1605432-002 Matrix: SOIL Received Date: 5/11/2016 8:00:00 AM Analyses Docult POL Qual Unite DE Date Analyzed

Analyses	Result	PQL Qu	al 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 RANG		5			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 RAN	GE				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.

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- 6.1	11.0	16	£1.	h 2*	67 4
	ua				3.

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- 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
- В Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits Page 2 of 9 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 1605432 Date Reported: 5/19/2016

CLIENT: Souder, Miller and Associates			С	lient Sampl	e ID: SB	-9@40'	
Project: Tocito				Collection I	Date: 5/1	0/2016 10:11:00 AM	
Lab ID: 1605432-003	Matrix:	SOIL		Received I	Date: 5/1	1/2016 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 RANG		5				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 RANG	E					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.	В	Analyte detected in the associated Method	Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range	
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	Page 3 of 0
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range	rage 5 01 9
	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	it as specified

Analytical Report Lab Order 1605432

Hall Environmental Analysis Laboratory, Inc.

Lab Order 1605432 Date Reported: 5/19/2016

CLIENT: Souder, Miller and Associates Client Sample ID: SB-9@50' Collection Date: 5/10/2016 10:40:00 AM **Project:** Tocito Lab ID: 1605432-004 Matrix: SOIL Received Date: 5/11/2016 8:00:00 AM Analyses Result **PQL Qual Units DF** Date Analyzed Batch Analyst: LGT EPA METHOD 300.0: ANIONS

Chloride	910	30	mg/Kg	20	5/13/2016 5:14:35 PM	25305
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS	3			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 RAN	GE				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.

ers:	*	Value exceeds Maximum Contaminant Level.	
	D	Sample Diluted Due to Matrix	
	Н	Holding times for preparation or analysis exceeded	

ND Not Detected at the Reporting Limit

Qualifi

- 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 Page 4 of 9
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall I	Envir	onmental	Anal	ysis	Labora	tory,	Inc.
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Client: Project:	Souder, Tocito	Miller and Asso	ociates						
Sample ID	MB-25305	SampType:	mblk	Tes	tCode: EPA Method	1 300.0: Anions			
Client ID:	PBS	Batch ID:	25305	F	RunNo: 34210				
Prep Date:	5/13/2016	Analysis Date:	5/13/2016	S	SeqNo: 1054885	Units: mg/Kg			
Analyte		Result PC	L SPK value	SPK Ref Val	%REC LowLimit	HighLimit %	6RPD	RPDLimit	Qual
Chloride		ND	1.5						N
Sample ID	LCS-25305	SampType:	Ics	Tes	Code: EPA Method	300.0: Anions			
Client ID:	LCSS	Batch ID:	25305	R	RunNo: 34210				
Prep Date:	5/13/2016	Analysis Date:	5/13/2016	S	BeqNo: 1054886	Units: mg/Kg			
Analyte		Result PC	L SPK value	SPK Ref Val	%REC LowLimit	HighLimit %	6RPD	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

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

WO#: 1605432 19-May-16

Page 5 of 9

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#: 1605432

Page 6 of 9

19-May-16

Client: Project:	Souder, Tocito	Miller and A	Associa	ites										
Sample ID	MB-25234	SamnTy	ne MF	RI K	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	_			
Client ID:	PBS	Batch	ID: 25	234	RunNo: 34242									
Prep Date:	5/11/2016	Analysis Da	ate: 5/	16/2016	5	SegNo: 1	056603	Units: ma/Ka						
Anabda		Popult	POL	SDK value	SPK Ref Val	XPEC	Low imit	Highl imit	% PPD	PPDI imit	Qual			
Diesel Range	Organics (DRO)	ND	10	SFR value	SFR Rei Val	MREC	LOWLINI	riiginaitiit	MALD	Kr Deimit	Quar			
Motor Oil Rang	ge Organics (MRO)	ND	50											
Surr: DNOP		9.1	_	10.00		90.9	70	130						
Sample ID	LCS-25234	LCS-25234 SampType: LCS					PA Method	8015M/D: Di	esel Rang	e Organics				
Client ID:	LCSS	Batch	234	F	RunNo: 3	4242								
Prep Date:	5/11/2016	Analysis Da	ate: 5/	16/2016	5	SeqNo: 1	056604	Units: mg/h	(g					
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	SampTy	pe: LC	S	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics				
Client ID:	nt ID: LCSS Batch ID: 25321				F	RunNo: 3	4313							
Prep Date:	5/16/2016	Analysis Da	ate: 5/	18/2016	5	SeqNo: 1	058336	Units: %Re	с					
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	SampTy	/pe: LC	S	TestCode: EPA Method 8015M/D: Diesel Range Organics									
Client ID:	LCSS	Batch	ID: 25	322	F	RunNo: 3	4313							
Prep Date:	5/16/2016	Analysis Da	ate: 5/	18/2016	5	SeqNo: 1	058337	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	SampTy	pe: ME	BLK	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics				
Client ID:	PBS	Batch	ID: 25	321	F	RunNo: 3	4313							
Prep Date:	5/16/2016	Analysis Da	ate: 5/	18/2016	S	SeqNo: 1	058338	Units: %Re	с					
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	SampTy	/pe: ME	BLK	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics				
Client ID:	PBS	Batch	ID: 25	322	F	RunNo: 3	4313							
Prep Date:	5/16/2016	Analysis Da	ate: 5/	18/2016	5	SeqNo: 1	058339	Units: mg/k	(g					
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.
- 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
 - Sample pH Not In Range
- RL Reporting Detection Limit

P

W Sample container temperature is out of limit as specified

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Project:	Souder, Tocito	Miller and	Associa	ites							
Sample ID	MB-25322	Samp1	ype: ME	BLK	Tes	tCode: E	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID:	PBS	Batc	h ID: 25	322	F	RunNo: 3	4313				
Prep Date:	5/16/2016	Analysis D)ate: 5/	18/2016	S	SeqNo: 1	058339	Units: mg/h	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qua
Motor Oil Rang	e Organics (MRO)	ND	50								
Surr: DNOP		9.5		10.00		95.1	70	130			

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

19-May-16

1605432

WO#:

Page 7 of 9

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client:	Souder, N	Miller and	Associa	ites								
Project:	Tocito											
Sample ID M	B-25265	SampT	ype: ME	BLK	TestCode: EPA Method 8015D: Gasoline Range							
Client ID: Pl	BS	Batch	ID: 25	265	F	RunNo: 3	4190					
Prep Date:	5/11/2016	Analysis D	ate: 5/	12/2016	S	SeqNo: 1	054189	Units: mg/M	g			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Basoline Range C Surr: BFB	Organics (GRO)	ND 1000	5.0	1000		102	80	120				
Sample ID LO	CS-25265	SampT	ype: LC	S	Tes	tCode: E	PA Method	8015D: Gaso	line Rang	e		
Client ID: LO	CSS	Batch	ID: 25	265	F	RunNo: 3	4190					
Prep Date:	5/11/2016	Analysis D	ate: 5/	12/2016	S	SeqNo: 1054190		Units: mg/M	(g			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range C	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.
- Sample Diluted Due to Matrix D
- Holding times for preparation or analysis exceeded Н
- Not Detected at the Reporting Limit ND
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank В
- E Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Page 8 of 9

WO#: 1605432

19-May-16

QC SUMMARY REPORT

Hall	Environmental	Analysis	Labora	tory, Ir	IC.
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Client:	Souder,	Miller and	Associa	ates										
Project:	Tocito													
Sample ID	MB-25265	Samp	Гуре: МІ	BLK	TestCode: EPA Method 8021B: Volatiles									
Client ID:	PBS	Batc	h ID: 25	265	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		-									
Foluene		ND	0.050											
Ethylbenzene		ND	0.050											
Vilenes, Total		ND	0.10											
Surr: 4-Brom	nofluorobenzene	1.0		1.000		104	80	120						
Sample ID	LCS-25265	Samp	Type: LC	s	Tes	tCode: E	PA Method	8021B: Vola	tiles					
Client ID:	LCSS	265	F	RunNo: 3	4190									
Prep Date:	e: 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						
(ylenes, Total		3.0	0.10	3.000	0	101	83.9	122						
Surr: 4-Brom	nofluorobenzene	1.1		1.000		111	80	120						
Sample ID	1605432-001AMS	Samp1	Type: MS	5	Tes	tCode: E	PA Method	8021B: Vola	tiles					
Client ID:	SB-8@40'	Batc	h ID: 25	265	RunNo: 34190									
Prep Date:	5/11/2016	Analysis D	Date: 5/	12/2016	S	SeqNo: 1	054208	Units: mg/l	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						
(ylenes, Total		3.3	0.096	2.871	0.1286	112	72.4	131						
Surr: 4-Brom	ofluorobenzene	1.1		0.9569		119	80	120						
Sample ID	1605432-001AMS	SD Samp1	Type: MS	SD	Tes	tCode: E	PA Method	8021B: Vola	tiles					
Client ID:	SB-8@40'	Batch	h ID: 25	265	F	RunNo: 3	4190							
Prep Date:	5/11/2016	Analysis D	Date: 5/	12/2016	S	SeqNo: 1	054209	Units: mg/l	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				
ylenes, Total		3.0	0.096	2.868	0.1286	102	72.4	131	9.12	20				
Surr: 4-Brom	ofluorobenzene	1.2		0.9560		120	80	120	0	0	S			

Qualifiers:

- ٠ 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
- В Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- Page 9 of 9

Sample pH Not In Range RL Reporting Detection Limit

Ρ

W Sample container temperature is out of limit as specified WO#: 1605432

19-May-16

HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environmental Albi TEL: 505-345-3975 Website: www.ha	Analysis Labo 4901 Hawk uquerque, NM FAX: 505-34 dlenvironment	ratory ins Nf. 87109 Sam 5-1107 al.com	Sample Log-In Check List							
Client Name: SMA-FARM	Work Order Number	1605432		RcptNo	: 1						
Received by/date:	05/11/16										
Logged By: Joe Archuleta	5/11/2016 8:00:00 AM		11. 161								
Completed By: Joe Archuleta	5/11/2016 8:32:19 AM		11.24								
Reviewed By:	T stulic		1								
Chain of Custody	5 0)/11/6										
1. Custody seals intact on sample bottle	es?	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 sa	imples?	Yes 😹	No []	NA []							
5. Were all samples received at a temp	erature of >0° C to 6.0°C	Yes 🐼	No 🗌	NA L							
6. Sample(s) in proper container(s)?		Yes 🛃	No []								
7. Sufficient sample volume for indicate	ed 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 receive	ed broken?	Yes	No 🚮								
			-	# of preserved bottles checked							
12. Does paperwork match bottle labels?		Yes 🛃	No	for pH: (<2	or >12 unless noted)						
13. Are matrices correctly identified on C	hain of Custody?	Yes 🗶	No	Adjusted?							
14. Is it clear what analyses were reques	ited?	Yes 💌	No [_]								
15. Were all holding times able to be me (If no, notify customer for authorization	t? on.)	Yes 🖈	No []	Checked by:							
Special Handling (if applicable)											
16. Was client notified of all discrepancie	as with this order?	Yes [_]	No [_]	NA 😾							
Person Notified:	Date	البواريس وبلولا بعات متأليات	- en vitaritarian bandari dari andari dari								
By Whom:	Via:	eMail	Phone Fax	In Person							
Regarding:			e en lais general le religion de marcelans	na ba ar da bha a sin ist an Shaka' at Sala b.							
Client Instructions:	inis filia finali fra filia na maina ana ana ana ana ana ana ana ana ana	rion Jarlie I, Mar Janu marananan	a a a a a da transférencial type (a construir a se a da	e fore-se face call refer fides i file can data francés de							
17. Additional remarks:											
18. Cooler Information											
Cooler No Temp °C Conditio	on Seal Intact Seal No	Seal Date	Signed By								
1.9 Good	Yes										
Page 1 of I											

Chain-of-Custody Record		Turn-Around Time:									-		TE	0	DI D		NT	AL			
Client:	SMA	+		Standard	C Rush		ANALYSIS LABORATORY											/			
-	JEn		1000	Project Name:				www.hallenvironmental.com													
Mailing	Address	1101	NBranduall	TACI				40		outi	www	r.nai	Alb	TOTI	nem	a M	M 97	100			
E	woolr	VIDO	NN DIOGAWAR	Project #:				Tel 505-345-3975 Fax 505-345-4107													
Phone	# EAC	1910	5 7525				100	16	a. 50	5-34	0-32	A	nalv	sis	Rea	-345 UES	4 10				
email o	r Fax#:	KNR	maximplia	Project Mana	ger			2	6					-							
QA/QC Package: Schichermiller. com			idermiller.com					uo s	MR					S	B's			.0			
Standard Level 4 (Full Validation)				Jesse Spraque				(Ga:	102			SIMS		PO	PC			ž			
Accred	Accreditation				ESTAPP	(WB.	H	101	=	÷	70 8		NO2	3082			DLIC			5
O NEL	AP	□ Othe	er	On Ice: XYes D No			Ŧ	L +	N2	418.	504.	r 82	so	031	ss / 8		(YO	2			or
	(Type)	-		Sample Tem	perature: [,	9	TBE	TBE	B	por	por	10 0	letal	CI,N	cide	(YC	ni-V	0			s (Y
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO.	BTEXH M	BTEX + M	TPH 8015	TPH (Meth	EDB (Meth	PAH's (83	RCRA 8 M	Anions (F,	8081 Pest	8260B (VC	8270 (Sen	300.0			Air Bubble
Siglib	110:30	Soil	58-8 Q 40'	402	contid	-001	X	_	X		-	_	-	-			-	×		1	
519/11	17:18	501	56-8 955'	1	1	-00 2	X		V									X		-	
510116	10:11	501	58-9 3 40'		1	-003	V		X									X			
Similar	15:40	55.1	58-9 Q 51'	1	1	-004	ÎŶ		X									X			
home	10.10	- Carl					1		~									-	+	+	
										_	_	_	_	_					+	+	
							+			-	-	-	-	-					+	+	+
S/10/14	Time:	Relinquiat	fle	Received by:	trelike	Data Time 14 5/14/16 1731	Rer	nark	S:												
Stoliu	Time: 1812	Relinquish	the Waller	Received by:	let o	5/11/16 0900															