

November 17, 2017

#5E26084-BG6

NMOCD District I Ms. Olivia Yu 1625 N. French Drive Hobbs, New Mexico 88240

SUBJECT: SOIL REMEDIATION WORK PLAN FOR THE PRESIDENTE PIPELINE RELEASE (1RP-XXXX), LEA COUNTY, NEW MEXICO

Dear Ms. Yu:

On behalf of Lucid Energy Group (Lucid), Souder, Miller & Associates (SMA) has prepared this WORK PLAN that describes the assessment, initial delineation and proposed remediation for a release associated with the Presidente Pipeline. The site is in UNIT C, SECTION 32, TOWNSHIP 25S, RANGE 32E, NMPM, Lea County, New Mexico, on State land. Figure 1 illustrates the vicinity and location of the site.

Table 1, below, summarizes information regarding the release.

Table 1: Rel	ease information and Site Ranking
Name	Presidente Pipeline Release
Company	Lucid Energy Group
Incident Number	1RP- (not assigned yet)
API Number	
Location	32.09401, -103.69991
Estimated Date of Release	October 31, 2017
Date Reported to NMOCD	11/14/2017
Land Owner	State
Reported To	NM Oil Conservation Division (NMOCD)
Source of Release	Pipeline release
Released Material	Pipeline liquids
Released Volume	unknown
Recovered Volume	0
Net Release	unknown
Nearest Waterway	An unnamed drainage feature is 2000 feet East
Depth to Groundwater	Estimated to be greater than 100 feet
Nearest Domestic Water Source	Greater than 1,000 feet
NMOCD Ranking	0
SMA Response Dates	Initial: November 1, 2017

1.0 Background

A pipeline leak occurred along the right-of-way (ROW) of the buried Presidente pipeline. The pipeline segment was isolated, blown down, and repaired. During excavation and repair of the pipeline, it was discovered that pipeline liquids were also released. The excavation area surrounding the pipeline is approximately 45 feet long by 15 feet wide. Figure 1 illustrates the vicinity and well head protection while Figure 2 illustrates the site and sample locations. The initial C-141 form is included in Appendix A.

2.0 Site Ranking and Land Jurisdiction

Malaga is approximately 23 miles southeast of the release location. The elevation of the release site is approximately 3,330 feet above sea level. After evaluation of the site using aerial photography and topographic maps, depth to groundwater is estimated to be greater than 200 feet below ground surface (bgs). NMOSE data in the area are indicates four water wells within the 3 mile radius of the release location, all of which have groundwater 300 feet bgs or deeper.

Recommended Remediation Action Levels (RRALs) are determined by the site ranking according to the NMOCD *Guidelines for Remediation of Leaks, Spills, and Releases* (1993). Below in Table 2 are the remediation standards and the site ranking for this location. Justification for this site ranking is found in Figure 1 and Appendix B.

Table 2.

Soil Remediation Standards	0 to 9	10 to 19	>19
Benzene	10 PPM	10 PPM	10 PPM
BTEX	50 PPM	50 PPM	50 PPM
ТРН	5000 PPM	1000 PPM	100 PPM

Depth to Groundwater	NMOCD Numeric Rank
< 50 BGS = 20	
50' to 99' = 10	
>100' = 0	0
Distance to Nearest Surface Water	NMOCD Numeric Rank
< 200' = 20	
200' - 1000' = 10	
>1000' = 0	0
Well Head Protection	NMOCD Numeric Rank
<1000' (or <200' domestic) = 20	
> 1000' = 0	0
Total Site Ranking	0

3.0 Release Characterization

On November 1, 2017, after receiving 811 clearance, SMA field personnel assessed the release area. Soil samples were field-screened using an EC meter. Five samples were collected to a maximum depth

of 8 feet bgs within the open pipeline excavation. Samples were collected to characterize and delineate the release. One discreet sample was collected from beneath the release point of the pipeline, at 8 feet bgs; four composite samples were collected from each of the sidewalls of the excavation. All samples were collected and processed according to NMOCD soil sampling procedures. The samples were sent under chain-of-custody protocols to Hall Environmental Analysis Laboratory for analysis for BTEX by EPA Method 8021, TPH EPA Method 8015 and chlorides EPA Method 300.0. Sample locations are depicted on Figure 2. All laboratory results are summarized in Table 3. Laboratory reports are included in Appendix C.

The sample from the floor of the open pipeline excavation (L1) resulted in laboratory results above RRALs for TPH, BTEX, and chlorides. All four sidewall samples (SW1 to SW4) returned laboratory results below RRAL's.

4.0 Proposed Soil Remediation Work Plan

SMA proposes to further delineate the area surrounding sample point L1. The proposed area to delineate is within the open excavation and is shown in Figure 2. SMA will continuously guide the delineation activities by collecting composite soil samples for field screening with a mobile titration unit (EPA 4500). During delineation activities, all clearly impacted soils will also be excavated and added to spill pile #2 (SP2). These impacted soils will be disposed of at an NMOCD approved facility.

5.0 Scope and Limitations

The scope of our services consisted of the performance of assessment sampling, verification of release stabilization, regulatory liaison, and preparation of this work plan. All work has been performed in accordance with generally accepted professional environmental consulting practices for oil and gas releases in the Permian Basin in New Mexico.

If there are any questions regarding this report, please contact either Austin Weyant at 575-689-8801 or Shawna Chubbuck at 505-325-7535.

Submitted by: SOUDER, MILLER & ASSOCIATES

J. Austr Weyant

Austin Weyant Project Scientist

Reviewed by:

Nauna Chubbuck

Shawna Chubbuck Senior Scientist

ATTACHMENTS:

Figures:

Figure 1: Vicinity and Well Head Protection Map Figure 2: Site and Sample Location Map

Tables:

Table 3: Summary of Sample Results

Appendices:

Appendix A: Form C141 Initial Appendix B: NMOSE Wells Report Appendix C: Laboratory Analytical Reports

FIGURE 1 VICINITY AND NMOSE DATA MAP



FIGURE 2 SITE AND SAMPLE LOCATION MAP

a contract to the second	SW1	and prover a	
and the second	SW4 L1	SW2	Contraction of the second
	SW3		
NORTH 0 12.5 25 50 Feet			Legend —— Pipeline —— Open Excavation
Pres	nd Sample Location Map idente Pipeline - Lucid 25S-R32E, New Mexico		Figure 2
By: Date: Descr:	Drawn Heather Patterson Checked	SMA	201 South Halaguena Street Carlsbad, New Mexico 88221 (575) 689-7040 www.soudermiller.com erving the Southwest & Rocky Mountains

TABLE 3 SUMMARY SAMPLE RESULTS

Presidente Pipeline ROW

Table 3.

Sample	Sample		BTEX	Benzene	GRO	DRO	MRO	Total TPH	CI-	CI-	
Number on Figure 2	Sample Date	Depth (feet bgs)	Proposed Action	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	Field Screens (ppm)	Laboratory mg/Kg
Ν	NMOCD RRAL's for Site Ranking 0		50 mg/Kg	10 mg/Kg				5000 mg/Kg			
L1	11/1/2017	8	excavate	67.5	2	620	26000	13000	39620	6135	9300
SW1	11/1/2017	comp	in-situ	<0.22	<0.024	<4.8	120	56	176	<132	
SW2	11/1/2017	comp	in-situ	<0.22	<0.024	<4.9	43	<50	43	<132	
SW3	11/1/2017	comp	in-situ	<0.22	<0.024	<4.8	<9.2	<46	<61	<132	
SW4	11/1/2017	comp	in-situ	1.76	<0.048	27	1,900	680	2,607	<132	
SP1	11/1/2017	comp	in-situ	1.73	<0.046	28	770	560	1358	541	560
SP2	11/1/2017	comp	disposal	1.34	<0.025	27	1100	390	1517	1214	1300

"--" = Not Analyzed

APPENDIX A FORM C141 INITIAL

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

	OPERATOR	Х	Initial Report	Final Report
Name of Company: Lucid Energy Delaware	Contact Kerry Egan			
Address 326 West Quay Artesia, NM 88210	Telephone No. 575 513-8988			
Facility Name: Presidente 10" Line	Facility Type: Pipeline ROW			

Mineral Owner

Surface Owner: State of NM

API No.

1.--

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
	29	25S	32E					Lea

Latitude 32.094010 Longitude -103.69991

NATURE OF RELEASE

Type of Release: Natural Gas	Volume of Release: < 500MCF of	Volume Recovered: None					
	gas, minimal (<5 bbl) liquids						
Source of Release: External corrosion leak in 10" steel line	Date and Hour of Occurrence:	Date and Hour of Discovery: 10/31/2017					
	10/31/2017						
Was Immediate Notice Given?	If YES, To Whom?						
🗌 Yes 🔲 No 🔀 Not Required							
By Whom?	Date and Hour						
Was a Watercourse Reached?	If YES, Volume Impacting the Wat	tercourse.					
🗌 Yes 🛛 No							
If a Watercourse was Impacted, Describe Fully.*							
Describe Cause of Problem and Remedial Action Taken.* The leak was a	pparently cause by external corrosion	of the pipeline, due to a defect in the pipe					
wrap. Upon discovery of the leak the line was shut-in and depressurized.							
The release was primarily of natural gas, and potentially a minor amount							
there were no free-standing liquids and the soil was not saturated. Soil sta							
Describe Area Affected and Cleanup Action Taken.*	initig, and odor is very minimul, it pre-	sont at an.					
During the response and repair of the line, an area approximately 45' L x	15' W was excavated along the ROW	The sidewalls floor and spoil pile were					
all sampled to determine the extent of contamination. Pending the results							
an sampled to determine the extent of contamination. I chang the results	of the sampling a work plan will be us	eveloped for the site.					
I hereby certify that the information given above is true and complete to t	he hast of my knowledge and underste	and that mumment to NMOCD miles and					
Thereby certify that the information given above is the and complete to the	notifications and perform competitive actions for releases which may an decomp						
regulations all operators are required to report and/of the certain release r	notifications and perform corrective actions for releases which may endanger						
	ne NMOCD marked as "Final Report" does not relieve the operator of liability						
should their operations have failed to adequately investigate and remediat							
or the environment. In addition, NMOCD acceptance of a C-141 report of	loes not relieve the operator of respons	sibility for compliance with any other					
federal, state, or local laws and/or regulations.							
	OIL CONSERV	VATION DIVISION					
	(Production)						
Signature: Nory W							
	Approved by Environmental Specialist:						
Printed Name: Kerry Egan	reproved by Environmental Special						
Title: Environmental Compliance Coordinator	Approval Date: Expiration Date:						
F	FT						
E-mail Address: KEgan@lucid-energy.com	Conditions of Approval:						
	conditions of reprovul.	Attached 🗌					
Date: 11/14/2017 Phone: 575 810-6021							

* Attach Additional Sheets If Necessary

APPENDIX B NMOSE WELLS REPORT



New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD has been replaced, O=orphaned, C=the file is closed)	· ·					2=NE 3 st to lar	3=SW 4=SE) gest) (NA) AD83 UTM in me	ters)	(1	n feet)	
	POD Sub-			Q				gool) (·	Depth	Depth	
POD Number	Code basin Cou	unty 64	416	64	Sec	Tws	Rng	Х	Y	Distance	Well	Water (Column
C 03829 POD1	CUB L	.E 3	3 3	3 1	06	26S	32E	620628	3549186 🌍	3077	646	350	296
C 03554 POD1	CUB E	D 2	2 1	4	01	26S	31E	620547	3549148 🌍	3158	630	300	330
C 03639 POD1	CUB E	D 3	34	2	01	26S	31E	620168	3549279 🌍	3318	700	365	335
<u>C 02090</u>	E	D	4	4	01	26S	31E	620329	3548533* 🌍	3779	350	335	15
									Averaç	ge Depth to	Water:	337 1	feet
										Minimum	•	300 f	
										Maximum	Depth:	365 1	feet
Record Count: 4													
UTMNAD83 Radius	Search (in meters)	<u>):</u>											

Easting (X): 622546.43

Northing (Y): 3551593.66

Radius: 5000

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

APPENDIX C LABORATORY ANALYTICAL REPORTS



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

November 14, 2017

Austin Weyant Souder, Miller & Associates 201 S Halagueno Carlsbad, NM 88221 TEL: (575) 689-7040 FAX

OrderNo.: 1711231

RE: Presidente

Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 7 sample(s) on 11/4/2017 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 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

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Project: Presidente

Client Sample ID: Spill Pile 1 Collection Date: 11/1/2017 9:45:00 AM Received Date: 11/4/2017 12:20:00 PM

Lab ID: 1711231-001	Matrix: S	SOIL	Received	Received Date: 11/4/2017 12:20:00 PM					
Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch			
EPA METHOD 300.0: ANIONS					Analyst	t: MRA			
Chloride	560	30	mg/Kg	20	11/10/2017 1:33:22 PN	1 34942			
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS	5			Analyst	t: TOM			
Diesel Range Organics (DRO)	770	9.8	mg/Kg	1	11/7/2017 4:55:31 PM	34843			
Motor Oil Range Organics (MRO)	280	49	mg/Kg	1	11/7/2017 4:55:31 PM	34843			
Surr: DNOP	105	70-130	%Rec	1	11/7/2017 4:55:31 PM	34843			
EPA METHOD 8015D: GASOLINE RAI	NGE				Analyst	t: NSB			
Gasoline Range Organics (GRO)	28	9.2	mg/Kg	2	11/7/2017 2:45:41 PM	34834			
Surr: BFB	180	15-316	%Rec	2	11/7/2017 2:45:41 PM	34834			
EPA METHOD 8021B: VOLATILES					Analyst	t: NSB			
Methyl tert-butyl ether (MTBE)	ND	0.18	mg/Kg	2	11/7/2017 2:45:41 PM	34834			
Benzene	ND	0.046	mg/Kg	2	11/7/2017 2:45:41 PM	34834			
Toluene	ND	0.092	mg/Kg	2	11/7/2017 2:45:41 PM	34834			
Ethylbenzene	ND	0.092	mg/Kg	2	11/7/2017 2:45:41 PM	34834			
Xylenes, Total	1.5	0.18	mg/Kg	2	11/7/2017 2:45:41 PM	34834			
Surr: 4-Bromofluorobenzene	93.9	80-120	%Rec	2	11/7/2017 2:45:41 PM	34834			

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

- * 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
- PQL Practical Quanitative Limit
- 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 1 of 11
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Project: Presidente

Client Sample ID: Spill Pile 2 Collection Date: 11/1/2017 9:50:00 AM Received Date: 11/4/2017 12:20:00 PM

Lab ID: 1711231-002	Matrix:	SOIL	Received	Received Date: 11/4/2017 12:20:00 PM					
Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch			
EPA METHOD 300.0: ANIONS					Analyst	MRA			
Chloride	1300	75	mg/Kg	50	11/13/2017 1:55:16 PM	34942			
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS	6			Analyst	ТОМ			
Diesel Range Organics (DRO)	1100	36	mg/Kg	4	11/9/2017 4:13:38 PM	34843			
Motor Oil Range Organics (MRO)	390	180	mg/Kg	4	11/9/2017 4:13:38 PM	34843			
Surr: DNOP	117	70-130	%Rec	4	11/9/2017 4:13:38 PM	34843			
EPA METHOD 8015D: GASOLINE RAM	NGE				Analyst	NSB			
Gasoline Range Organics (GRO)	27	5.0	mg/Kg	1	11/7/2017 5:05:40 PM	34834			
Surr: BFB	268	15-316	%Rec	1	11/7/2017 5:05:40 PM	34834			
EPA METHOD 8021B: VOLATILES					Analyst	NSB			
Methyl tert-butyl ether (MTBE)	ND	0.10	mg/Kg	1	11/7/2017 5:05:40 PM	34834			
Benzene	ND	0.025	mg/Kg	1	11/7/2017 5:05:40 PM	34834			
Toluene	0.086	0.050	mg/Kg	1	11/7/2017 5:05:40 PM	34834			
Ethylbenzene	0.13	0.050	mg/Kg	1	11/7/2017 5:05:40 PM	34834			
Xylenes, Total	1.1	0.10	mg/Kg	1	11/7/2017 5:05:40 PM	34834			
Surr: 4-Bromofluorobenzene	100	80-120	%Rec	1	11/7/2017 5:05:40 PM	34834			

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

- * 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
- PQL Practical Quanitative Limit
- 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 2 of 11
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

5 11/7/2017 11:14:27 AM 34834

CLIENT: Souder, Miller & Associates Project: Presidente			C	lient Sampl		1/2017 10:05:00 AM	
Lab ID: 1711231-003	Matrix:	SOIL		Collection Date: 11/1/2017 10:05:00 AM Received Date: 11/4/2017 12:20:00 PM			
Analyses	Result	PQL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	MRA
Chloride	9300	300		mg/Kg	200	11/13/2017 2:07:40 PM	34942
EPA METHOD 8015M/D: DIESEL RANG		6				Analyst	: ТОМ
Diesel Range Organics (DRO)	26000	970		mg/Kg	100	11/7/2017 5:39:56 PM	34843
Motor Oil Range Organics (MRO)	13000	4800		mg/Kg	100	11/7/2017 5:39:56 PM	34843
Surr: DNOP	0	70-130	S	%Rec	100	11/7/2017 5:39:56 PM	34843
EPA METHOD 8015D: GASOLINE RANG	GE					Analyst	: NSB
Gasoline Range Organics (GRO)	620	24		mg/Kg	5	11/7/2017 11:14:27 AN	34834
Surr: BFB	476	15-316	S	%Rec	5	11/7/2017 11:14:27 AM	34834
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Methyl tert-butyl ether (MTBE)	ND	0.49		mg/Kg	5	11/7/2017 11:14:27 AN	34834
Benzene	2.0	0.12		mg/Kg	5	11/7/2017 11:14:27 AN	34834
Toluene	20	0.24		mg/Kg	5	11/7/2017 11:14:27 AN	34834
Ethylbenzene	6.5	0.24		mg/Kg	5	11/7/2017 11:14:27 AN	
Xylenes, Total	39	0.49		mg/Kg	5	11/7/2017 11:14:27 AN	34834

80-120

S

%Rec

131

Hall Environmental Analysis Laboratory, Inc.

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

Qualifiers:

*

Surr: 4-Bromofluorobenzene

- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

Value exceeds Maximum Contaminant Level.

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 3 of 11
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Project: Presidente

Client Sample ID: SW1 Collection Date: 11/1/2017 10:08:00 AM

Lab ID: 1711231-004	Matrix:	SOIL	Received	Date: 11/	4/2017 12:20:00 PM	
Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RAM	NGE ORGANICS	;			Analyst	: TOM
Diesel Range Organics (DRO)	120	9.8	mg/Kg	1	11/7/2017 6:46:03 PM	34843
Motor Oil Range Organics (MRO)	56	49	mg/Kg	1	11/7/2017 6:46:03 PM	34843
Surr: DNOP	92.3	70-130	%Rec	1	11/7/2017 6:46:03 PM	34843
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	11/8/2017 12:25:14 PM	34834
Surr: BFB	114	15-316	%Rec	1	11/8/2017 12:25:14 PM	34834
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Methyl tert-butyl ether (MTBE)	ND	0.097	mg/Kg	1	11/8/2017 12:25:14 PM	34834
Benzene	ND	0.024	mg/Kg	1	11/8/2017 12:25:14 PM	34834
Toluene	ND	0.048	mg/Kg	1	11/8/2017 12:25:14 PM	34834
Ethylbenzene	ND	0.048	mg/Kg	1	11/8/2017 12:25:14 PM	34834
Xylenes, Total	ND	0.097	mg/Kg	1	11/8/2017 12:25:14 PM	34834
Surr: 4-Bromofluorobenzene	111	80-120	%Rec	1	11/8/2017 12:25:14 PM	34834

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

- * 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
- PQL Practical Quanitative Limit
- 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 11
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Project: Presidente

Client Sample ID: SW2 Collection Date: 11/1/2017 10:10:00 AM

Lab ID: 1711231-005	Matrix:	SOIL	Received	Date: 11	/4/2017 12:20:00 PM	
Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS	5			Analys	t: TOM
Diesel Range Organics (DRO)	43	9.9	mg/Kg	1	11/7/2017 7:08:12 PM	34843
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	11/7/2017 7:08:12 PM	34843
Surr: DNOP	94.5	70-130	%Rec	1	11/7/2017 7:08:12 PM	34843
EPA METHOD 8015D: GASOLINE RA	ANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	11/7/2017 5:52:29 PM	34834
Surr: BFB	81.4	15-316	%Rec	1	11/7/2017 5:52:29 PM	34834
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Methyl tert-butyl ether (MTBE)	ND	0.097	mg/Kg	1	11/7/2017 5:52:29 PM	34834
Benzene	ND	0.024	mg/Kg	1	11/7/2017 5:52:29 PM	34834
Toluene	ND	0.049	mg/Kg	1	11/7/2017 5:52:29 PM	34834
Ethylbenzene	ND	0.049	mg/Kg	1	11/7/2017 5:52:29 PM	34834
Xylenes, Total	ND	0.097	mg/Kg	1	11/7/2017 5:52:29 PM	34834
Surr: 4-Bromofluorobenzene	84.8	80-120	%Rec	1	11/7/2017 5:52:29 PM	34834

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

- * 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
- PQL Practical Quanitative Limit
- 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 5 of 11
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Project: Presidente

Client Sample ID: SW3 Collection Date: 11/1/2017 10:15:00 AM

Lab ID: 1711231-006	Matrix: S	SOIL	Received I	Date: 11/	/4/2017 12:20:00 PM	
Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANICS	5			Analyst	том
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	11/7/2017 7:30:15 PM	34843
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	11/7/2017 7:30:15 PM	34843
Surr: DNOP	87.3	70-130	%Rec	1	11/7/2017 7:30:15 PM	34843
EPA METHOD 8015D: GASOLINE RAN	IGE				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	11/7/2017 6:16:02 PM	34834
Surr: BFB	84.3	15-316	%Rec	1	11/7/2017 6:16:02 PM	34834
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Methyl tert-butyl ether (MTBE)	ND	0.097	mg/Kg	1	11/7/2017 6:16:02 PM	34834
Benzene	ND	0.024	mg/Kg	1	11/7/2017 6:16:02 PM	34834
Toluene	ND	0.048	mg/Kg	1	11/7/2017 6:16:02 PM	34834
Ethylbenzene	ND	0.048	mg/Kg	1	11/7/2017 6:16:02 PM	34834
Xylenes, Total	ND	0.097	mg/Kg	1	11/7/2017 6:16:02 PM	34834
Surr: 4-Bromofluorobenzene	88.4	80-120	%Rec	1	11/7/2017 6:16:02 PM	34834

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

- * 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
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 6 of 11 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Project: Presidente

Client Sample ID: SW4 Collection Date: 11/1/2017 10:13:00 AM Received Date: 11/4/2017 12:20:00 PM

Lab ID: 1711231-007	Matrix: S	SOIL	Received	Date: 11/	4/2017 12:20:00 PM	
Analyses	Result	PQL Q	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS	;			Analyst	: TOM
Diesel Range Organics (DRO)	1900	97	mg/Kg	10	11/8/2017 2:07:26 PM	34843
Motor Oil Range Organics (MRO)	680	480	mg/Kg	10	11/8/2017 2:07:26 PM	34843
Surr: DNOP	0	70-130	S %Rec	10	11/8/2017 2:07:26 PM	34843
EPA METHOD 8015D: GASOLINE RAI	NGE				Analyst	: NSB
Gasoline Range Organics (GRO)	27	9.6	mg/Kg	2	11/7/2017 6:39:30 PM	34834
Surr: BFB	198	15-316	%Rec	2	11/7/2017 6:39:30 PM	34834
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Methyl tert-butyl ether (MTBE)	ND	0.19	mg/Kg	2	11/7/2017 6:39:30 PM	34834
Benzene	ND	0.048	mg/Kg	2	11/7/2017 6:39:30 PM	34834
Toluene	0.10	0.096	mg/Kg	2	11/7/2017 6:39:30 PM	34834
Ethylbenzene	0.11	0.096	mg/Kg	2	11/7/2017 6:39:30 PM	34834
Xylenes, Total	1.5	0.19	mg/Kg	2	11/7/2017 6:39:30 PM	34834
Surr: 4-Bromofluorobenzene	97.5	80-120	%Rec	2	11/7/2017 6:39:30 PM	34834

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

- * 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
- PQL Practical Quanitative Limit
- 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 7 of 11
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Client: Project:	Souder Preside	r, Miller & As ente	sociate	es							
Sample ID	MB-34942	SampTy	/pe: m k	olk	Tes	tCode: EF	PA Method	300.0: Anion	s		
Client ID:	PBS	Batch	ID: 34	942	R	RunNo: 47	7043				
Prep Date:	11/10/2017	Analysis Da	ate: 1 1	1/10/2017	S	SeqNo: 1	501826	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID	LCS-34942	SampTy	/pe: Ics	5	Tes	tCode: EF	PA Method	300.0: Anion	s		
Client ID:	LCSS	Batch	ID: 34	942	R	RunNo: 47	7043				
Prep Date:	11/10/2017	Analysis Da	ate: 1 1	1/10/2017	S	eqNo: 1	501827	Units: mg/K	ģ		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		15	1.5	15.00	0	97.6	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
- PQL Practical Quanitative Limit
- 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

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-			14 1107 17
Souder, Presider	, Miller & Associates nte		
4843	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics	
	Batch ID: 34843	RunNo: 46928	

Prep Date: 11/6/2017	Analysis D	Date: 1'	1/7/2017	S	SeqNo: 1	497169	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	42	10	50.00	0	84.4	73.2	114			
Surr: DNOP	4.1		5.000		82.5	70	130			
Sample ID MB-34843	SampT	ype: ME	BLK	Tes	tCode: E	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: PBS	Batch	n ID: 34	843	F	RunNo: 4	6928				
Prep Date: 11/6/2017	Analysis D	ate: 1	1/7/2017	S	SeqNo: 1	497170	Units: mg/H	٢g		
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	8.1		10.00		80.8	70	130			

Qualifiers:

Client:

Project:

Sample ID LCS-34843

Client ID: LCSS

- Value exceeds Maximum Contaminant Level. *
- Sample Diluted Due to Matrix D
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Practical Quanitative Limit PQL
- S % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Е 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

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Client: Souder, Project: Presider	Miller & A nte	ssociate	es							
Sample ID MB-34834	SampT	ype: ME	3LK	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	e	
Client ID: PBS	Batch	n ID: 34	834	R	RunNo: 4	6934				
Prep Date: 11/6/2017	Analysis D	ate: 1	1/7/2017	S	SeqNo: 1	497692	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	840		1000		83.9	15	316			
Sample ID LCS-34834	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	e	
Client ID: LCSS	Batch	n ID: 34	834	R	anNo: 4	6934				
Prep Date: 11/6/2017	Analysis D	ate: 1	1/7/2017	S	SeqNo: 1	497693	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	101	75.9	131			
Surr: BFB	930		1000		93.4	15	316			

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
- PQL Practical Quanitative Limit
- 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

Page 10 of 11

Client: Soud	ler, Miller & A	ssociate	es							
Project: Presi	dente									
Sample ID MB-34834	Samp	Гуре: МЕ	BLK	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: PBS	Batc	h ID: 34	834	F	RunNo: 4	6934				
Prep Date: 11/6/2017	Analysis [Date: 11	1/7/2017	S	SeqNo: 1	497712	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	0.10								
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.89		1.000		88.7	80	120			
Sample ID LCS-34834	Samp	Гуре: LC	S	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Batc	h ID: 34	834	F	RunNo: 4	6934				
Prep Date: 11/6/2017	Analysis [Date: 11	1/7/2017	5	SeqNo: 1	497713	Units: mg/ł	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	0.85	0.10	1.000	0	85.0	70.1	121			
Benzene	0.91	0.025	1.000	0	90.7	77.3	128			
Toluene	0.91	0.050	1.000	0	91.2	79.2	125			
Ethylbenzene	0.90	0.050	1.000	0	90.3	80.7	127			
Xylenes, Total	2.8	0.10	3.000	0	92.1	81.6	129			
Surr: 4-Bromofluorobenzene	0.89		1.000		89.2	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
- PQL Practical Quanitative Limit
- 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

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ENVIRONMENTAL ANALYSIS LABORATORY	Albu TEL: 505-345-3975 i Website: www.hal		109 Sam 107	ple Log-In Check List
Client Name: SMA-CARLSBAD	Work Order Number:	1711231		RoptNo: 1
Received By: Andy Freeman 11	/4/2017 12:20:00 PM	I	andy	
Completed By: Anne Thorne 11	/6/2017 8:48:20 AM		Andy Anne Hr.	~
Reviewed By: SPL 11/06/17				
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?		<u>Courier</u>		
Log In				
4. Was an attempt made to cool the samples?		Yes 🗹	No 🗌	NA 🛄
5. Were all samples received at a temperature of	>0° C to 6.0°C	Yes 🗹	No 🗌	
6. Sample(s) in proper container(s)?		Yes 🗹	No 🗌	
7. Sufficient sample volume for indicated test(s)?		Yes 🔽	No 🗌	
$\boldsymbol{8}.$ Are samples (except VOA and ONG) properly \boldsymbol{p}	reserved?	Yes 🗹	No 🗌	
9. Was preservative added to bottles?		Yes 🗌	No 🗹	NA 🗌
10.VOA vials have zero headspace?		Yes 🗌	No 🗌	No VOA Vials 🗹
11. Were any sample containers received broken?		Yes	No 🗹	# of preserved
10 -				bottles checked
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🗹	No	for pH: (<2 or >12 unless noted
13. Are matrices correctly identified on Chain of Cus	stody?	Yes 🔽	No 🗔	Adjusted?
4. 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:
pecial Handling (if applicable)			🗆	
6. Was client notified of all discrepancies with this		Yes 🗌	No 🗌	NA 🗹
Person Notified:	Date	· · · · · · · ·	. — -	
By Whom: Regarding:	Via:	_ eMaii P	hone 🗌 Fax	In Person
Client Instructions:				adalaan ay ay aharan ay aharada
17. Additional remarks:				· · · · · · · · · · · · · · · · · · ·
8. <u>Cooler Information</u> Cooler No Temp °C Condition Seal II	ntact Seal No Se	eal Date	Signed By	
1 5.8 5.9 Good Yes 				

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Matrix Sample Termperature: S.7.4 rp. 2/6 r Set Matrix Sample Request ID Type and # Type and # Type and # Type and # Type and # Sample Request ID Type and # Sei I Spi I Sui Spi I Sui Sui Sui S	Accred	itation AP	□ Othe	a la	2	MLP &Yes	No D				(1.40	8 0728	² ON ^(E)	22222210		()	-	
Matrix Sample Request ID Container Preservative Type and # HEAL No. Soi I Spil Pile I 4.01. A.01. PRESErvative Type HEAL No. Soi I Spil Pile I 4.01. A.01. PRH's (8310) Soi I Spil Pile I 4.01. Container PRESErvative RCRX 8 Me Soi I Spil Pile I 4.01. Container PRESErvative RCRX 8 Me Soi I Spil Pile Z Top I PRH's (8310) Swi Z Swi Z Cold PRH's (8310) Swi Z Swi Z Cold PRH's (8310) Swi Z Swi Z Cold PRH's (8310) Reinnum Swi Z Cold PRH's (8310) Reinnum E Swi Z Cold PRH's (8310) Reinnum F Swi Z Cold PRH's (8310) Reinnum Reinnum PRH's (8110) PRH's (8110) Reinnum Reinnum Reinnum PRH's (8110) Reinnum Reinnum Reinnum PRH's (81		(Type).			Sample Tem		70 C+0.20C= 590C)9 p			3.3		100		
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