

Souder, Miller & Associates+201 S. Halagueno St.+Carlsbad, NM 88220 (575) 689-8801

June 12, 2019

NMOCD District 1 1625 N. French Drive Hobbs, NM 88240

SUBJECT: Amended Remediation Closure Report for the Caudill 8 #002 Release (1RP-4418), Lea County, New Mexico

To Whom It May Concern,

On behalf of Matador Resources, Souder, Miller & Associates (SMA) has prepared this Remediation Closure Report that describes the remediation of a release of liquids related to oil and gas production activities at the Caudill 8 #002 site. The site is in Unit L, Section 8, Township 16S, Range 37E, Lea County, New Mexico, on private land. Figures 1 and 2 illustrate the vicinity and site location on an USGS 7.5-minute quadrangle map.

Table 1 summarizes release information and Closure Criteria.

	Table 1: Release Information	on and Closure	Criteria	
Name	Caudill 8 #002	Company	Matador Resources	
API Number	30-025-30406	Location	32.9348221 -103.278389	
Incident Number		1RP-4418		
Estimated Date of Release	8/24/2016	Date Reported to NMOCD	8/24/2016	
Land Owner	Private	Reported To	NMOCD District I	
Source of Release	Recirculation pump			
Released Volume	56 bbls	Released Material	produced water	
Recovered Volume	35 bbls	Net Release	21 bbls	
NMOCD Closure Criteria	<50 feet to groundwater			
SMA Response Dates	8/24/2016, 2/24/2017, 3/19/2019, 4/18/2019, 5/27/2019			

## 1.0 Background

On August 24, 2016, a release was discovered at the Caudill 8 #002 site due to equipment failure. The connection to the water dump valve failed, which caused an excess amount of fluid in the produced water tank. Initial response activities included source elimination and site security. The leak was contained within the bermed containment and all standing fluid was vacuumed up and disposed of at an NMOCD approved facility. Figure 1 illustrates the regional vicinity and well head protection in the area, Figure 2 illustrates the surface water protection in the area, and Figure 3 illustrates the site and sample locations. The C-141 form is included in Appendix A

## 2.0 Site Information and Closure Criteria

The Caudill 8 #002 site is located approximately 4 miles east of Lovington, New Mexico on private land with a land elevation of approximately 3865 feet above mean sea level.

As summarized in Table 2 and illustrated in Figure 1, depth to groundwater in the area is estimated to be 54 feet below grade surface (bgs). There are two known water sources within 1000 feet of the location, according to the New Mexico Office of the State Engineer (NMOSE) online water well database (https://gis.ose.state.nm.us/gisapps/ose\_pod\_locations/; accessed 11/8/2018). The nearest significant watercourse is an unnamed pond, located approximately 2700 feet to the south. Figure 1 illustrates the site with 1000-foot radii to indicate that it does lie within a sensitive area as described in 19.15.29.12.C(4) NMAC.

Based on the information presented herein, the applicable NMOCD Closure Criteria for this site is for a groundwater depth of less than 50 feet bgs. The site has been restored to meet the standards of Table I of 19.15.29.12 NMAC. Table 2 demonstrates the Closure Criteria applicable to this location. Pertinent well data is attached in Appendix B.

## 3.0 Release Characterization Activities and Findings

On August 24, 2016, SMA field personnel assessed the release area. A total of 3 sample locations (L1-L3) were established for collection of surface samples. A total of 3 samples were collected for laboratory analysis for motor oil, diesel and gasoline range organics (MRO, DRO, and GRO) by EPA Method 8015D to depths up to six inches. Table 3 itemizes these initial samples and locations are depicted on Figure 3a. This data was submitted to NMOCD by SMA in the form of a remediation work plan dated November 11, 2016 with the proposed work to be the excavation of impacted materials.

After review of the submitted workplan, NMOCD requested further delineation. On June 30, 2017, SMA returned to the Caudill 8 #002 location, at which time an additional sample location (L4) was established and surface samples were recollected from sample locations L1, L2 and L3. A total of 4 samples were collected for laboratory analysis for diesel and gasoline range organics (DRO, and GRO) by EPA Method 8015D.

These results still yielded levels of TPH above NMOCD closure criteria and lacked analysis for all required constituents. An in-situ remediation approach was then taken as the excavation of the release area could cause safety issues or major facility destruction.

## 4.0 Soil Remediation Summary

On March 19, 2019, SMA returned to the site to guide the application of the bioremediation solution to the release area (Figure 3b). Thirty days after the application, the location was visited on April 18, 2019 to track progress of treatment. NMOCD was notified on May 21, 2019 that closure samples were expected to be collected.

Approximately sixty days after the application, the release area was resampled to ensure proper treatment of contamination. On May 27, 2019, SMA conducted confirmation sampling of the location. The confirmation samples were collected from within the release area in accordance with a systematic sampling approach as defined by SW846 (using Gilbert, 1987 equation 5.2.3 for Stratified Random Sampling which is detailed in Appendix C). This systematic method meets the EPAs data quality assessment standards (DQA) for composite sampling (Myers 1997). Confirmation samples were comprised of five-point composites of the horizontal extents of the release area (SW1 & SW2) and a variety of depths (surface to 2 feet) along the release path and previous sampling locations (L1 - L4) (seen in Figure 3b.)

A total of 8 sample were analyzed for total chloride using EPA Method 300.0; benzene, toluene, ethylbenzene and total xylenes (BTEX) using EPA Method 8021B; and motor, diesel and gasoline range organics (MRO, DRO, and GRO) by EPA Method 8015D. Laboratory reports are included in Appendix D.

The sample results in Table 3 indicate that the treatment was effective, and the release meets closure criteria. SMA proposes no further action be taken.

## 5.0 Scope and Limitations

The scope of our services included: assessment sampling; verifying release stabilization; regulatory liaison; remediation; and preparing this closure report. 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 Melodie Sanjari at 574-370-9782 or Shawna Chubbuck at 505-325-7535.

Submitted by: SOUDER, MILLER & ASSOCIATES

Janyan

Melodie Sanjari Staff Scientist

Reviewed by:

hauna Chubbuck

Shawna Chubbuck Senior Scientist

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### **ATTACHMENTS:**

### Figures:

Figure 1: Vicinity and Well Head Protection Map Figure 2: Surface Water Radius Map Figure 3a: Site and 2016 Sample Location Map Figure 3b: Closure Sample Location Map

### Tables:

Table 2: NMOCD Closure Criteria Justification Table 3: Summary of Sample Results

### Appendices:

Appendix A: C141 Forms Appendix B: NMOSE Wells Report Appendix C: VSP Closure Sampling Protocol Appendix D: Laboratory Analytical Reports Page 4 of 63

# FIGURES



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# TABLES

Site Information (19.15.29.11.A(2, 3, and 4) NMAC)	Source/Notes	
Depth to Groundwater (feet bgs)	54	OSE
Hortizontal Distance From All Water Sources Within 1/2 Mile (ft)	890 & 960	OSE (POD 05621 & POD 10363 Respectively)
Hortizontal Distance to Nearest Significant Watercourse (ft)	2700	Unnamed pond

Closure Criteria (19.15.	29.12.B(4) and	d Table 1 NMAC)				
· · · · · ·		Close	ure Criteria	a (units in n	ng/kg)	
Depth to Groundwater		Chloride *numerical limit or background, whichever is greater	ТРН	GRO + DRO	BTEX	Benzene
< 50' BGS	х	600	100		50	10
51' to 100'		10000	2500	1000	50	10
>100'		20000	2500	1000	50	10
Surface Water		if ye	s, then			
<300' from continuously flowing watercourse or other significant watercourse? <200' from lakebed, sinkhole or playa lake? Water Well or Water Source	no no					
<500 feet from spring or a private, domestic fresh water well used by less than 5 households for domestic or stock watering purposes? <1000' from fresh water well or spring? Human and Other Areas	no yes	600	100		50	10
<300' from an occupied permanent residence, school, hospital, institution or church?	no		100		50	10
within incorporated municipal boundaries or within a defined municipal fresh water well field?	no					
<100' from wetland?	no					
within area overlying a subsurface mine	no					
within an unstable area?	no					
within a 100-year floodplain?	no					

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Table 3: Summary of Sample Results

Matador Resources Caudill #002 (1RP-4418)

Sample	Sample	Depth	BTEX	Benzene	GRO	DRO	MRO	Total TPH	CI-
ID	Date	(feet bgs)	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
NMO	OCD Closure	e Criteria	50	10	10	00		100	600
L1		surface			<4.7	65	83	148	
L2	8/24/2016	surface	<10.8	<1.2	<240	18000	12000	30000	
L3		surface			<250	5900	4400	10300	
L1		surface			<3.9	2700		2700	
L2	6/30/2017	surface			<4.8	15		15	
L3	0/30/2017	surface			<4.0	1900		1900	
L4		surface			<4.3	200		200	
-			60 I	Days After	Applicatior	l			-
L1		surface	<0.207	<0.023	<4.6	<9.9	<49	<63.5	<60
LI		1.5	<0.225	<0.025	<5.0	<9.8	<49	<63.8	<60
L2		surface	<0.212	<0.024	<4.7	<9.8	<49	<63.5	<60
LZ		2	<0.208	<0.023	<4.6	<9.9	<50	<64.5	<60
L3	5/27/2019	surface	<0.225	<0.025	<5.0	<9.9	<50	<64.9	<60
LS	5/27/2019	1.5	<0.217	<0.024	<4.8	67	55	122	<60
1.4		surface	<0.219	<0.024	<4.9	<9.8	<49	<63.7	<60
L4		2	<0.222	<0.025	<4.9	31	<49	31	<60
SW1		sidewall	<0.221	<0.025	<4.9	<10	<50	<64.9	<60
SW2		sidewall	<0.213	<0.024	<4.7	<9.8	<49	<63.5	<60

"--" = Not Analyzed \* = per Reclamation Standard (19.15.29.13.D(1) NMAC)

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# APPENDIX A FORM C141

State of New Mexico **Energy Minerals and Natural Resources** 

> Oil Conservation Division 1220 South St. Francis Dr.

Form C-141 Revised August 8, 2011

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

Santa Fe, NM 87505

### **Release Notification and Corrective Action**

	OPERATOR	Initial Report	Final Report
Name of Company Matador Resources	Contact Casey Snow		
Address 500 N Main St Suite 1Roswell NM 88201	Telephone No. (972) 371-5439		
Facility Name Caudill # 002	Facility Type Oil Well		

#### Surface Owner

Mineral Owner

API No. 30-025-30406

### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
L	8	16S	37E	1980	FSL	810	FWL	Lea

Latitude\_32.9348221\_\_\_ Longitude\_ ,-103.278389 \_\_\_

#### NATURE OF RELEASE

Type of Release overflow of produced water tank	Volume of Release ~56 barrels	Volume Re	ecovered 35 barrels
Source of Release Recirculation pump	Date and Hour of Occurrence		lour of Discovery August 24,
	August 24, 2016	2016 9am	
Was Immediate Notice Given?	If YES, To Whom?		
x Yes No Not	Catherine Green		
Required			
By Whom? Rickie Anguiano	Date and Hour August 24, 2016 1	0am	
Was a Watercourse Reached?	If YES, Volume Impacting the Wa	tercourse.	
$\Box$ Yes x $\Box$ No			
If a Watercourse was Impacted, Describe Fully.*			
If a watercourse was impacted, Describe Funy.			
Describe Cause of Problem and Remedial Action Taken.*Connection br	oke to water dump valve. Gas lost on	treater, circula	ating pump pumped oil out of
oil tank to treater putting excess fluid in water tank.			
Describe Area Affected and Cleanup Action Taken.*			
Leak was contained in containment area. Excess fluid was vacuumed up	and removed Soil containing unsatis	factory levels	of BTEX DROs and
chlorides will be removed and replaced. See attached.	and removed. Son containing unsaus	lactory levels	of BTEA, DROS, and
enformes will be removed and replaced. See addened.			
I hereby certify that the information given above is true and complete to	the best of my knowledge and underst	and that pursu	ant to NMOCD rules and
regulations all operators are required to report and/or file certain release	notifications and perform corrective ad	ctions for relea	ases which may endanger
public health or the environment. The acceptance of a C-141 report by t	he NMOCD marked as "Final Report"	does not relie	ve the operator of liability
should their operations have failed to adequately investigate and remedia			
or the environment. In addition, NMOCD acceptance of a C-141 report	does not relieve the operator of respon	sibility for co	mpliance with any other
federal, state, or local laws and/or regulations.			
	OIL CONSER	VATION I	DIVISION
<b>G</b> . <b>A</b>			
Signature:			
Printed Name: Casey Snow	Approved by Environmental Special	ist:	
Printed Name: Casey Snow			
Title: Manager Regulatory, Environmental, & Safety	Approval Date:	Expiration D	ate
The manager Regulatory, Environmental, & Salety		Expiration D	
E-mail Address: csnow@matadorresources.com	Conditions of Approval:		
	conditions of Approval.		Attached
Date: August 2, 2017, 2017 Phone: (972) 371-5439			

\* Attach Additional Sheets If Necessary

Received by OCD: 12/7/2022 10:45:59 AM

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 Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Page 15 of 63

Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

)

Incident ID	
District RP	1RP-4418
Facility ID	
Application ID	N

## **Release Notification**

## **Responsible Party**

Responsible Party Matador Resources Company	OGRID 228937			
Contact Name: John Hurt	Contact Telephone 972-371-5200			
Contact email Jhurt@matadorresources.com	Incident # (assigned by OCD) 1RP-4418			
Contact mailing address 5400 LBJ Freeway, Suite 1500 Dallas, TX 75240				

## **Location of Release Source**

Latitude 32.9348221

Longitude <u>-103.278389</u> (NAD 83 in decimal degrees to 5 decimal places)

Site Name Caudill #002	Site Type oil well	ĺ
Date Release Discovered 8/24/2016	API# (if applicable) 30-025-30406	Ĺ

Unit Letter	Section	Township	Range	County
L	8	16S	37E	Lea

Surface Owner: State Federal Tribal Private (Name:

## Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
Produced Water	Volume Released (bbls) 56	Volume Recovered (bbls) 35
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
🗌 Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Cause of Release		

Equipment failure (recirculation pump) causing excess fluid in the produced water tank

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible party consider this a major release? >25						
🛛 Yes 🗌 No							
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Yes. To NMOCD by Catherine Greene on 8/24/2016							
Initial Response							

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

The source of the release has been stopped.							
The impacted area has been secured to protect human health and the environment.							
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.							
All free liquids and recoverable materials have been removed and managed appropriately.							
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation							
has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred							
within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.							
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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.							
Printed Name: John Hurt Title: RES Specialist							
Al 11- 11-1							
Signature: Date: Date:							
email: JHurt@matadorresources.com Telephone: 972-371-5499							
OCD Only							
Received by: Date:							

# Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>54</u> (ft bgs)
Did this release impact groundwater or surface water?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🔀 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🖾 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗌 Yes 🖾 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🛛 Yes 🗌 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🛛 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🛛 No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	🗌 Yes 🛛 No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

#### Characterization Report Checklist: Each of the following items must be included in the report.

Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.

Data table of soil contaminant concentration data

- Depth to water determination
- Determination of water sources and significant watercourses within <sup>1</sup>/<sub>2</sub>-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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. Printed Name: John Hurt **Title: RES Specialist** Date: 6/24/19 Signature: Telephone: 972-371-5499 email: JHurt@matadorresources.com **OCD Only** Jocelyn Harimon Date: 12/07/2022 Received by:

## Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.

A scaled site and sampling diagram as described in 19.15.29.11 NMAC

Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection) N/A

Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: John Hurt Title: RES Specialist									
Signature: Date: Date:									
email: JHurt@matadorresources.com Telephone: 972-371-5499									
OCD Only									
Received by: Jocelyn Harimon Date:12/07/2022									
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.									
Closure Approved by: Ashley Maxwell Date: 2/03/2023									
Printed Name: Ashley Maxwell Title: Environmental Specialist									

# 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	(R=POD h been repla O=orphane C=the file i	ced, ed,						3=SW 4=SE					
water right file.)	closed)	_	(qua	rters	ares	smalles	st to la	rgest) (N	AD83 UTM in me	eters)	(	In feet)	_
	PO Sub		Q	Q	2						Depth	Depth	Water
POD Number	Code bas					: Tws	Rng	х	Y	Distance			Column
L 05621	L	LE			3 08	16S	37E	661147	3645185* 🌍	271	94	60	34
L 10903	L	LE			3 08	16S	37E	661147	3645185* 🌍	271	128	60	68
L 10363	L	LE	1	2	3 08	16S	37E	661235	3645486* 🌍	301	156	50	106
L 10364	L	LE	1	2	3 08	16S	37E	661235	3645486* 🌍	301	112	55	57
L 14276 POD1	L	LE	2	3	3 08	16S	37E	660993	3645027 🌍	351	155	60	95
L 00823	L	LE		2	4 07	′ 16S	37E	660526	3645376* 🌍	427	105	47	58
<u>L 10230</u>	L	LE	4	3	3 08	16S	37E	661045	3644883* 🌍	501	100	51	49
<u>L 11615</u>	L	LE	2	4	3 08	16S	37E	661444	3645085* 🌍	570	165		
L 14120 POD1	L	LE	3	4	3 08	16S	37E	661246	3644840 🌍	610	186	70	116
<u>L 10559</u>	L	LE			1 08	16S	37E	661128	3645985* 🌍	633	90		
L 10559 POD2	L	LE			1 08	16S	37E	661128	3645985* 🌍	633	113		
<u>L 10561</u>	L	LE	3	2	1 08	16S	37E	661217	3646087* 🌍	757	120	60	60
L 12166 POD1	L	LE	3	2	1 08	16S	37E	661267	3646075 🌍	766	193		
L 13540 POD1	R L	LE	3	2	1 08	16S	37E	661203	3646104 🌍	769	128	60	68
L 13540 POD2	L	LE	3	1	2 08	16S	37E	661547	3645991 🌍	854	202	120	82
L 00702 S	L	LE	3	2	2 07	′ 16S	37E	660410	3646077* 🌍	886	120	40	80
L 10124	L	LE		2	1 17	′ 16S	37E	661347	3644580* 🌍	888	157	70	87
L 10601	L	LE	1	1	1 08	16S	37E	660816	3646283* 🌍	917	120	120	0
L 09568	L	LE		3	2 07	′ 16S	37E	660110	3645770* 🌍	931	150	42	108
L 09630	L	LE		3	2 07	′ 16S	37E	660110	3645770* 🌍	931	105	68	37
L 13621 POD1	L	LE	4	1	2 07	′ 16S	37E	660208	3646006 🌍	975	155	63	92
L 09680	L	LE			1 17	' 16S	37E	661150	3644372* 🌍	1023	144		
L 00702	L	LE		1	2 07	′ 16S	37E	660105	3646171* 🌍	1162	118		
L 01889 POD1	L	LE		1	2 07	′ 16S	37E	660105	3646171* 🌍	1162	90	36	54
L 09276	L	LE		1	2 07	′ 16S	37E	660105	3646171* 🌍	1162	115	56	59
<u>L 08165</u>	L	LE	2	1	2 07	′ 16S	37E	660204	3646270* 🌍	1166	103	58	45
*UTM location was derived from PLSS - see Help													

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water right file.)

been replaced, O=orphaned, C=the file is

closed)

(quarters are smallest to largest) (NAD83 UTM in meters) (In feet)

		POD Sub-		Q	QQ							Denth	Depth	Water
POD Number	Code		County			Sec	Tws	Rng	Х	Y	Distance	-	-	Column
L 00703		L	LE			07	16S	37E	659794	3645553* 🌍	1173	125		
L 00703	R	L	LE			07	16S	37E	659794	3645553* 🌍	1173	125		
L 00703 POD4		L	LE			07	16S	37E	659794	3645553* 🌍	1173	100		
L 00703 S		L	LE			07	16S	37E	659794	3645553* 🌍	1173	93	60	33
L 00703 S	R	L	LE			07	16S	37E	659794	3645553* 🌍	1173	93	60	33
L 00824		L	LE			07	16S	37E	659794	3645553* 🌍	1173	135	80	55
L 00824	R	L	LE			07	16S	37E	659794	3645553* 🌍	1173	135	80	55
L 04669		L	LE			07	16S	37E	659794	3645553* 🌍	1173	100	75	25
L 06852		L	LE		4 1	07	16S	37E	659705	3645763* 🌍	1307	90	65	25
L 13622 POD1		L	LE	1	2 1	08	16S	37E	659930	3646356 🌍	1417	190		
L 13910 POD1		L	LE	2	21	07	16S	37E	659783	3646285 🌍	1482	169	60	109
L 03479		L	LE		1	07	16S	37E	659385	3645956* 🌍	1672	85	15	70
L 04853		L	LE		1	07	16S	37E	659385	3645956* 🌍	1672	88	78	10
L 13718 POD1		L	LE		1	07	16S	37E	659385	3645956* 🌍	1672	92	44	48
L 13719 POD1		L	LE		1	07	16S	37E	659385	3645956* 🌍	1672	92	44	48
L 13720 POD1		L	LE		1	07	16S	37E	659385	3645956* 🌍	1672	92	46	46
L 13721 POD1		L	LE		1	07	16S	37E	659385	3645956* 🌍	1672	80	45	35
L 13722 POD1	R	L	LE		1	07	16S	37E	659385	3645956* 🌍	1672	80	45	35
L 13690 POD1		L	LE	2	1 1	07	16S	37E	659459	3646293 🌍	1753	164	60	104
										Avera	ge Depth to	Water:	60	feet
											Minimum	Depth:	15	feet
											Maximum	Depth:	120	feet
Record Count: 45														
UTMNAD83 Radius Search (in meters):														

Easting (X): 660953.85

Northing (Y): 3645376.3

Radius: 1800

#### \*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 SAMPLING PROTOCOL



## **Sampling Protocol**

Representatives from SMA chose the Judgmental Sampling Method as described in EPA's Final Sampling Guidance for SW-846, 2002 to adequately quantify contaminant concentrations on the Wabash 20 Fed Com #1H Location. The utility of this particular method functions on the sufficient knowledge of the contaminant, which we possess. This design is also useful when identifying the composition of a release, which we have documented. In addition, this sampling design was chosen for this project because of the locations uniform soil type, the release being contained within a bermed area thus reducing the possibility of migration, and the several operational considerations (such as the liner within the battery and the construction of a new facility) that precluded the implementation of a different statistical design.

The soil samples were collected in laboratory supplied containers in accordance with this sampling protocol, immediately placed on ice and sent under standard chain-of-custody protocols to Hall Environmental Analysis Laboratory (HEAL) in Albuquerque, New Mexico for analysis. A total of fourteen (14) samples were collected for laboratory analysis for total chloride using EPA Method 300.0; benzene, toluene, ethylbenzene and total xylenes (BTEX) using EPA Method 8021B; and motor, diesel and gasoline range organics (MRO, DRO, and GRO) by EPA Method 8015D.

## Sampling Analysis Field Quality Assurance Procedures

A unique sample numbering was used to identify each sample collected and designated for on-site and off-site laboratory analysis. The purpose of this numbering scheme was to provide a tracking system for the retrieval of analytical and field data on each sample. Sample identification numbers were recorded on sample labels or tags, field notes, chain-of-custody records (COC) and all other applicable documentation used during the project. Sample labels were affixed to all sample containers during sampling activities. Information was recorded on each sample container label at the time of sample collection. The information recorded on the labels were as follows: sample identification number; sample type (discrete or composite); site name and area/location number; analysis to be performed; type of chemical preservative present in container; date and time of sample collection; and sample collector's name and initials. All samples were packed in ice in an approved rigid body container, custody sealed signed and shipped to the appropriate laboratory via insured currier service.

COC procedures implemented for the project provided documentation of the handling of each sample from the time of collection until completion of laboratory analysis. A COC form serves as a legal record of possession of the sample. A sample is considered to be under custody if one or more of the following criteria are met: the sample is in the sampler's possession; the sample is in the sampler's view after being in possession; the sample was in the sampler's possession and then was placed into a locked area to prevent tampering; and/or the sample is in a designated secure area. Custody was documented throughout the project field sampling activities by a chain-of custody form initiated each day during which samples are collected. Container custody seals placed on either individual samples or on the rigid body container were used to ensure that no sample tampering occurs between the time the samples are placed into the containers and the time the containers are opened for analysis at the laboratory. Container custody seals were signed and dated by the individual responsible for completing the COC form contained within the container.

# APPENDIX D LABORATORY ANALYTICAL REPORTS



October 19, 2016

Austin Weyant Souder, Miller & Associates 201 S Halagueno Carlsbad, NM 88221 TEL: (575) 689-7040 FAX Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: <u>www.hallenvironmental.com</u>

RE: Caudill #2

OrderNo.: 1610720

Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 3 sample(s) on 10/14/2016 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

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Hall Environmental Analysi	s Labora	tory, Ir	nc.			Analytical Report Lab Order 1610720 Date Reported: 10/19	
CLIENT: Souder, Miller & AssociatesProject: Caudill #2Lab ID: 1610720-001	Matrix:	SOIL	C	00110011011	Date: 8/2	24/2016 2:00:00 PM /14/2016 8:45:00 AI	
Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS	5				Analy	/st: TOM
Diesel Range Organics (DRO)	65	9.8	Н	mg/Kg	1	10/19/2016 12:22:26	AM 28076
Motor Oil Range Organics (MRO)	83	49	Н	mg/Kg	1	10/19/2016 12:22:26	AM 28076
Surr: DNOP	103	70-130	Н	%Rec	1	10/19/2016 12:22:26	AM 28076
EPA METHOD 8015D: GASOLINE RANG	GE					Analy	/st: NSB
Gasoline Range Organics (GRO)	ND	4.7	н	mg/Kg	1	10/18/2016 7:43:16 I	PM 28072
Surr: BFB	85.1	68.3-144	Н	%Rec	1	10/18/2016 7:43:16 I	PM 28072

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	Е	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 1 of 6
	ND	Not Detected at the Reporting Limit	t 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

#### **Released to Imaging: 2/3/2023 8:46:29 AM**

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**Analytical Report** Lab Order 1610720

Hall Environmental Analysis Laborat	tory, Inc. Date Reported: 10/19/2016
CLIENT, Souder Miller & Associates	Client Somula ID: 1-2

CLIENT:Souder, Miller & AssociatesProject:Caudill #2Lab ID:1610720-002	Client Sample ID: L2   Collection Date: 8/24/2016 2:00:00 PM   Matrix: SOIL Received Date: 10/14/2016 8:45:00 AM							
Analyses	Result	PQL	Qual	Units	DF Date Analyzed Batc	:h		
EPA METHOD 8015M/D: DIESEL RANG	E ORGANIC	S			Analyst: TON	Λ		
Diesel Range Organics (DRO)	18000	1000	н	mg/Kg	100 10/17/2016 8:49:01 PM 2807	76		
Motor Oil Range Organics (MRO)	12000	5000	н	mg/Kg	100 10/17/2016 8:49:01 PM 2807	76		
Surr: DNOP	0	70-130	SH	%Rec	100 10/17/2016 8:49:01 PM 2807	76		
EPA METHOD 8015D: GASOLINE RANG	θE				Analyst: <b>NSB</b>	3		
Gasoline Range Organics (GRO)	ND	240	ΗD	mg/Kg	50 10/18/2016 8:07:22 PM 2807	72		
Surr: BFB	86.3	68.3-144	ΗD	%Rec	50 10/18/2016 8:07:22 PM 2807	72		
EPA METHOD 8021B: VOLATILES					Analyst: NSB	3		
Benzene	ND	1.2	ΗD	mg/Kg	50 10/18/2016 8:07:22 PM 2807	72		
Toluene	ND	2.4	ΗD	mg/Kg	50 10/18/2016 8:07:22 PM 2807	72		
Ethylbenzene	ND	2.4	ΗD	mg/Kg	50 10/18/2016 8:07:22 PM 2807	72		
Xylenes, Total	ND	4.8	ΗD	mg/Kg	50 10/18/2016 8:07:22 PM 2807	72		
Surr: 4-Bromofluorobenzene	100	80-120	ΗD	%Rec	50 10/18/2016 8:07:22 PM 2807	72		

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Refer to the QC Summary report and sample login checklist for flagged QC data and preservation inform
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Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 2 of 6
	ND	Not Detected at the Reporting Limit	Р	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

Project:

Lab ID:

**CLIENT:** Souder, Miller & Associates

Caudill #2 1610720-003

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**Analytical Report** Lab Order 1610720

Hall Environmental Analysis Laboratory, Inc.	

Date Reported: 10/19/2016

	Client Sample ID: L3
	Collection Date: 8/24/2016 2:00:00 PM
Matrix: SOIL	<b>Received Date:</b> 10/14/2016 8:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS	6				Analy	st: TOM
Diesel Range Organics (DRO)	5900	97	н	mg/Kg	10	10/17/2016 9:34:59 P	M 28076
Motor Oil Range Organics (MRO)	4400	480	н	mg/Kg	10	10/17/2016 9:34:59 P	M 28076
Surr: DNOP	0	70-130	SH	%Rec	10	10/17/2016 9:34:59 P	M 28076
EPA METHOD 8015D: GASOLINE RA	ANGE					Analy	st: NSB
Gasoline Range Organics (GRO)	ND	250	ΗD	mg/Kg	50	10/18/2016 8:31:28 P	M 28072
Surr: BFB	84.8	68.3-144	ΗD	%Rec	50	10/18/2016 8:31:28 P	M 28072

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

Qu	ualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
		D	Sample Diluted Due to Matrix	Е	Value above quantitation range
		Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 3 of 6
		ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
			RPD outside accepted recovery limits	RL	Reporting Detection Limit
			% 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.

Client: Project:	Souder, I Caudill #	Miller & As ‡2	sociate	es							
Sample ID	LCS-28085	SampTy	/pe: <b>LC</b>	s	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID:	LCSS	Batch	ID: 28	085	F	RunNo: 3	7982				
Prep Date:	10/17/2016	Analysis Da	ate: 1	0/17/2016	5	SeqNo: 1	183862	Units: %Re	C		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		4.7		5.000		94.5	70	130			
Sample ID	MB-28085	SampTy	/pe: <b>MI</b>	BLK	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID:	PBS	Batch	ID: 28	085	F	RunNo: 3	7982				
Prep Date:	10/17/2016	Analysis Da	ate: 1	0/17/2016	5	SeqNo: 1	183863	Units: %Re	C		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		8.9		10.00		89.5	70	130			
	ID MB-28076 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics										
Sample ID	MB-28076	SampTy	/pe: <b>MI</b>	BLK	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Sample ID Client ID:			/pe: <b>MI</b> ID: <b>28</b>			tCode: El RunNo: 3		8015M/D: Di	esel Rang	e Organics	
	PBS		ID: 28	076	F		7981	8015M/D: Die Units: mg/H	U	e Organics	
Client ID:	PBS	Batch	ID: 28	076 0/17/2016	F	RunNo: <b>3</b> SeqNo: <b>1</b>	7981		U	e Organics RPDLimit	Qual
Client ID: Prep Date: Analyte Diesel Range	PBS 10/14/2016 Organics (DRO)	Batch Analysis Da Result ND	ID: <b>28</b> ate: <b>1</b> 0 PQL 10	076 0/17/2016	F	RunNo: <b>3</b> SeqNo: <b>1</b>	7981 184449	Units: <b>mg/k</b>	(g	U	Qual
Client ID: Prep Date: Analyte Diesel Range Motor Oil Range	PBS 10/14/2016 Organics (DRO) ge Organics (MRO)	Batch Analysis Da Result ND ND	ID: <b>28</b> ate: <b>1</b> 0 PQL	076 0/17/2016 SPK value	F	RunNo: 3 SeqNo: 1 %REC	7981 184449 LowLimit	Units: <b>mg/⊮</b> HighLimit	(g	U	Qual
Client ID: Prep Date: Analyte Diesel Range	PBS 10/14/2016 Organics (DRO) ge Organics (MRO)	Batch Analysis Da Result ND	ID: <b>28</b> ate: <b>1</b> 0 PQL 10	076 0/17/2016	F	RunNo: <b>3</b> SeqNo: <b>1</b>	7981 184449	Units: <b>mg/k</b>	(g	U	Qual
Client ID: Prep Date: Analyte Diesel Range Motor Oil Rang Surr: DNOP	PBS 10/14/2016 Organics (DRO) ge Organics (MRO)	Batch Analysis Da Result ND ND	ID: <b>28</b> ate: <b>1</b> 0 PQL 10 50	076 0/17/2016 SPK value 10.00	F S SPK Ref Val	RunNo: <b>3</b> SeqNo: <b>1</b> %REC 85.7	7981 184449 LowLimit 70	Units: <b>mg/⊮</b> HighLimit	S Sg %RPD	RPDLimit	Qual
Client ID: Prep Date: Analyte Diesel Range Motor Oil Rang Surr: DNOP	PBS 10/14/2016 Organics (DRO) ge Organics (MRO) LCS-28076	Batch Analysis Da Result ND ND 8.6 SampTy	ID: <b>28</b> ate: <b>1</b> 0 PQL 10 50	076 0/17/2016 SPK value 10.00	F SPK Ref Val Tes	RunNo: <b>3</b> SeqNo: <b>1</b> %REC 85.7	7981 184449 LowLimit 70 PA Method	Units: <b>mg/k</b> HighLimit 130	S Sg %RPD	RPDLimit	Qual
Client ID: Prep Date: Analyte Diesel Range Motor Oil Rang Surr: DNOP	PBS 10/14/2016 Organics (DRO) ge Organics (MRO) LCS-28076 LCSS	Batch Analysis Da Result ND ND 8.6 SampTy	ID: 28 ate: 10 PQL 10 50 /pe: LC ID: 28	076 0/17/2016 SPK value 10.00 CS 076	F SPK Ref Val Tes F	RunNo: <b>3</b> SeqNo: <b>1</b> %REC 85.7 tCode: <b>E</b> l	7981 184449 LowLimit 70 PA Method 8007	Units: <b>mg/k</b> HighLimit 130	Kg %RPD esel Rang	RPDLimit	Qual
Client ID: Prep Date: Analyte Diesel Range Motor Oil Rang Surr: DNOP Sample ID Client ID:	PBS 10/14/2016 Organics (DRO) ge Organics (MRO) LCS-28076 LCSS	Batch Analysis Da Result ND ND 8.6 SampTy Batch	ID: 28 ate: 10 PQL 10 50 /pe: LC ID: 28	076 0/17/2016 SPK value 10.00 CS 076 0/18/2016	F SPK Ref Val Tes F	RunNo: 3 SeqNo: 1 %REC 85.7 tCode: El	7981 184449 LowLimit 70 PA Method 8007	Units: mg/k HighLimit 130 8015M/D: Die	Kg %RPD esel Rang	RPDLimit	Qual
Client ID: Prep Date: Analyte Diesel Range Motor Oil Rang Surr: DNOP Sample ID Client ID: Prep Date: Analyte	PBS 10/14/2016 Organics (DRO) ge Organics (MRO) LCS-28076 LCSS 10/14/2016	Batch Analysis Da Result ND ND 8.6 SampTy Batch Analysis Da	ID: 28 ate: 10 PQL 10 50 //pe: LC ID: 28 ate: 10	076 0/17/2016 SPK value 10.00 CS 076 0/18/2016	F SPK Ref Val Tes F S	RunNo: 3 SeqNo: 1 %REC 85.7 tCode: El RunNo: 3 SeqNo: 1	7981 184449 LowLimit 70 PA Method 8007 184792	Units: mg/k HighLimit 130 8015M/D: Dia Units: mg/k	Kg %RPD esel Range	RPDLimit	

#### **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

1610720

19-Oct-16

WO#:

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# **QC SUMMARY REPORT** Hall Environmental Analysis Laboratory, Inc.

,	Souder, Miller & Associates Caudill #2											
Sample ID MB-28072	SampT	ype: ME	BLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch	ID: 28	072	RunNo: <b>38021</b>								
Prep Date: 10/14/2016	Analysis D	ate: 10	)/18/2016	S	eqNo: 1	185981	Units: mg/K	g				
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		84.1	68.3	144					
Sample ID LCS-28072	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e			
Client ID: LCSS	Batch	ID: 28	072	R	unNo: 3	8021						
Prep Date: 10/14/2016	Analysis D	ate: 10	)/18/2016	S	eqNo: 1	185995	Units: mg/K	ģ				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Gasoline Range Organics (GRO)	27	5.0	25.00	0	106	74.6	123					
Surr: BFB	r: BFB 930 1000					68.3	144					

#### **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

1610720

19-Oct-16

WO#:

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## **QC SUMMARY REPORT** Hall Environmental Analysis Laboratory, Inc.

Client: Souder Project: Caudil	r, Miller & A l #2	ssociate	es							
Sample ID MB-28072	Samp	Гуре: МЕ	BLK	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: PBS	Batc	h ID: 28	072	RunNo: 38021						
Prep Date: 10/14/2016	Analysis E	Date: 10	0/18/2016	5	SeqNo: 1	186010	Units: mg/h	٢g		
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	0.98		1.000		97.7	80	120			
Sample ID LCS-28072	Samp	Гуре: <b>LC</b>	s	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Batc	h ID: 28	072	F	RunNo: 3	8021				
Prep Date: 10/14/2016	Analysis E	Date: 10	0/18/2016	S	SeqNo: 1	186011	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.025	1.000	0	92.0	75.2	115			
Toluene	0.93	0.050	1.000	0	93.5	80.7	112			
Ethylbenzene	0.96	0.050	1.000	0	95.9	78.9	117			
Xylenes, Total	2.8	0.10	3.000	0	94.9	79.2	115			
Surr: 4-Bromofluorobenzene	1.0		1.000		104	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
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- W Sample container temperature is out of limit as specified

1610720

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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	Sam	ple Log-In C	heck List
Client Name: SMA-CARLSBAD V	ork Order Number: 1610720		RcptNo:	1
Received by/date:	· · · · · · · · · · · · · · · · · · ·			
Logged By: Michelle Garcia 10/1	4/2016 8:45:00 AM 4/2016 8:45:00 AM	Nurul Ga	num)	
	4/2016 12:48:13 PM 1	Niereelo Ga Niereelo Ga	nun)	
Reviewed By: a.J (C	114116			
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?	UPS			
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 🗌		
8. Are samples (except VOA and ONG) properly pre-	served? 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 bottles checked	
12.Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes 🔽	No 🗌	for pH: (<2 o	r >12 unless note
13. Are matrices correctly identified on Chain of Cust	•	No 🗌	Adjusted?	
14. Is it clear what analyses were requested?	Yes 🗹	No 🗌	Checked by	
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 o	rder? Yes	No 🗌	NA 🗹	
Person Notified: By Whom:	Date Date Via: eMail Phon	ne 🗌 Fax	🔲 In Person	
Regarding: Client Instructions:		· · · ·	······································	
17. Additional remarks:				
18. <u>Cooler Information</u>				
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HALL ENVIRONMENTAL	ANALYSIS LABORATORY							(1	or N	2)	səlddu8 1jA									 Remarks: Verified analysis with Austin.	ma talitalita		sport.
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01-640	MA -								□ Other		Matrix	50-1		~						Relinquished by	Relinquished by:		samples submi
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Analytical Report Lab Order 1707B17

## Date Reported:

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Project: Caudill 2			C	lient Sampl Collection 1		80/2017 12:00:00 PM					
Lab ID: 1707B17-001	Matrix: MEOH (SOIL) Received D					Date: 7/21/2017 9:45:00 AM					
Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch				
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS					Analyst	TOM				
Diesel Range Organics (DRO)	2700	99	н	mg/Kg	10	7/21/2017 1:11:20 PM	32943				
Surr: DNOP	0	70-130	SH	%Rec	10	7/21/2017 1:11:20 PM	32943				
EPA METHOD 8015D: GASOLINE RAM	IGE					Analyst	NSB				
Gasoline Range Organics (GRO)	ND	3.9	н	mg/Kg	1	7/21/2017 12:31:14 PM	R44391				
Surr: BFB	84.5	54-150	н	%Rec	1	7/21/2017 12:31:14 PM	R44391				

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	T B	Analyte detected in the associated Method Blank
	D	Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix	A	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 1 of (

- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- J Analyte detected below quantitation limits Page 1 of 0
- P Sample pH Not In RangeRL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report Lab Order 1707B17

Date Reported:

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & As Project: Caudill 2	sociates		C	Client Sampl		80/2017 1:00:00 PM				
Lab ID: 1707B17-002	Matri	Matrix: MEOH (SOIL) Received Date: 7/21/2017 9:45:00 AM								
Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch			
EPA METHOD 8015M/D: DIES	EL RANGE ORGAN	NICS				Analyst	TOM			
Diesel Range Organics (DRO)	1:	5 9.6	6 Н	mg/Kg	1	7/21/2017 2:44:46 PM	32943			
Surr: DNOP	87.0	70-130	н с	%Rec	1	7/21/2017 2:44:46 PM	32943			
EPA METHOD 8015D: GASOL	INE RANGE					Analyst	NSB			
Gasoline Range Organics (GRO)	NE	9.4.8	B H	mg/Kg	1	7/21/2017 12:55:14 PM	R44391			
Surr: BFB	80.7	54-150	н с	%Rec	1	7/21/2017 12:55:14 PM	R44391			

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix RELIMINAE Value above quantitation range			
	D				
		Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	Page 2 of 0
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range	
	PQL	Practical Quanitative Limit	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 1707B17

Date Reported:

Hall Environmental Analys	sis Laboratory, Inc.
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Client Sample ID: L3 CLIENT: Souder, Miller & Associates Collection Date: 6/30/2017 2:00:00 PM **Project:** Caudill 2 Matrix: MEOH (SOIL) Received Date: 7/21/2017 9:45:00 AM Lab ID: 1707B17-003 PQL Qual Units **DF** Date Analyzed Batch Analyses Result Analyst: TOM EPA METHOD 8015M/D: DIESEL RANGE ORGANICS 10 7/21/2017 1:55:46 PM 1900 32943 Diesel Range Organics (DRO) 96 н mg/Kg Surr: DNOP 0 70-130 SH 10 7/21/2017 1:55:46 PM 32943 %Rec

			101100			
					Analyst	NSB
ND	4.0	н	mg/Kg	1	7/21/2017 1:19:22 PM	R44391
84.4	54-150	н	%Rec	1	7/21/2017 1:19:22 PM	R44391
		ND 4.0	ND 4.0 H	5.5	ND 4.0 H mg/Kg 1	Analyst ND 4.0 H mg/Kg 1 7/21/2017 1:19:22 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	T AB	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	NAI	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 3 o
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	PQL	Practical Quanitative Limit	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 1707B17

### Date Reported:

Hall Environmental Analysis L	aboratory, Inc.
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CLIENT: Souder, Miller & Associates Client Sample ID: L4							
Project: Caudill 2				Collection l	Date: 6/3	0/2017 3:00:00 PM	
Lab ID: 1707B17-004	Matrix:	MEOH (S	OIL)	Received I	Date: 7/2	21/2017 9:45:00 AM	
Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANG		S				Analyst	TOM
Diesel Range Organics (DRO)	200	96	н	mg/Kg	10	7/21/2017 2:17:50 PM	32943
Surr: DNOP	0	70-130	SH	%Rec	10	7/21/2017 2:17:50 PM	32943
EPA METHOD 8015D: GASOLINE RAN	GE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.3	н	mg/Kg	1	7/21/2017 1:43:32 PM	R44391
Surr: BFB	85.7	54-150	н	%Rec	1	7/21/2017 1:43:32 PM	R44391

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	Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix	VA	Value above quantitation range	
	н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page	4 of (
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range	4010
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit	
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as spec	cified



June 12, 2019

Melodie Sanjari Souder, Miller & Associates 201 S Halagueno Carlsbad, NM 88221 TEL: FAX Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

RE: Caudill 5 27

OrderNo.: 1905E76

Dear Melodie Sanjari:

Hall Environmental Analysis Laboratory received 10 sample(s) on 5/31/2019 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued June 05, 2019.

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. 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. All samples are reported as received unless otherwise indicated.

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

#### Hall Environmental Analysis Laboratory, Inc.

Lab Order 1905E76

Date Reported: 6/12/2019

CLIENT: Souder, Miller & Associates Project: Caudill 5 27			ent Sample II ollection Dat		-Surface 27/2019 8:50:00 AM	
Lab ID: 1905E76-001	Matrix: SOIL	-	81/2019 8:50:00 AM			
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	smb
Chloride	ND	60	mg/Kg	20	6/7/2019 12:08:07 PM	45437
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	6/4/2019 1:50:49 PM	45333
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	6/4/2019 1:50:49 PM	45333
Surr: DNOP	96.7	70-130	%Rec	1	6/4/2019 1:50:49 PM	45333
EPA METHOD 8015D: GASOLINE RANG	θE				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	6/3/2019 2:49:38 PM	45310
Surr: BFB	98.9	73.8-119	%Rec	1	6/3/2019 2:49:38 PM	45310
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.023	mg/Kg	1	6/3/2019 2:49:38 PM	45310
Toluene	ND	0.046	mg/Kg	1	6/3/2019 2:49:38 PM	45310
Ethylbenzene	ND	0.046	mg/Kg	1	6/3/2019 2:49:38 PM	45310

ND

111

0.092

80-120

mg/Kg

%Rec

1

1

6/3/2019 2:49:38 PM

6/3/2019 2:49:38 PM

45310

45310

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

**Qualifiers:** 

Xylenes, Total

Surr: 4-Bromofluorobenzene

- \* 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
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 1 of 12

Surr: 4-Bromofluorobenzene

**Analytical Report** 

#### Hall Environmental Analysis Laboratory, Inc.

Lab Order 1905E76

6/3/2019 6:22:36 PM

45310

Date Reported: 6/12/2019

CLIENT: Souder, Miller & Associates		Cl	ient Sample II	<b>D:</b> L1	-1.5'	
Project: Caudill 5 27		(	Collection Dat	<b>e:</b> 5/2	27/2019 9:00:00 AM	
Lab ID: 1905E76-002	Matrix: SOIL		<b>Received Dat</b>	<b>e:</b> 5/3	31/2019 8:50:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	: smb
Chloride	ND	60	mg/Kg	20	6/7/2019 12:20:32 PM	45437
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analys	: BRM
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	6/4/2019 2:12:45 PM	45333
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	6/4/2019 2:12:45 PM	45333
Surr: DNOP	90.4	70-130	%Rec	1	6/4/2019 2:12:45 PM	45333
EPA METHOD 8015D: GASOLINE RANG	E				Analys	: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	6/3/2019 6:22:36 PM	45310
Surr: BFB	94.3	73.8-119	%Rec	1	6/3/2019 6:22:36 PM	45310
EPA METHOD 8021B: VOLATILES					Analys	: NSB
Benzene	ND	0.025	mg/Kg	1	6/3/2019 6:22:36 PM	45310
Toluene	ND	0.050	mg/Kg	1	6/3/2019 6:22:36 PM	45310
Ethylbenzene	ND	0.050	mg/Kg	1	6/3/2019 6:22:36 PM	45310
Xylenes, Total	ND	0.10	mg/Kg	1	6/3/2019 6:22:36 PM	45310

107

80-120

%Rec

1

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

**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
- 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
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 2 of 12

#### Hall Environmental Analysis Laboratory, Inc.

Lab Order 1905E76

Date Reported: 6/12/2019

CLIENT: Souder, Miller & Associates	s Client Sample ID: L2-Surface					
Project: Caudill 5 27		(	Collection Dat	e: 5/2	27/2019 10:00:00 AM	
Lab ID: 1905E76-003	Matrix: SOIL		<b>Received Dat</b>	<b>e:</b> 5/3	31/2019 8:50:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	:: smb
Chloride	ND	60	mg/Kg	20	6/7/2019 12:57:45 PM	45437
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	6/4/2019 2:34:48 PM	45333
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	6/4/2019 2:34:48 PM	45333
Surr: DNOP	70.5	70-130	%Rec	1	6/4/2019 2:34:48 PM	45333
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	6/3/2019 6:46:09 PM	45310
Surr: BFB	91.0	73.8-119	%Rec	1	6/3/2019 6:46:09 PM	45310
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	6/3/2019 6:46:09 PM	45310
Toluene	ND	0.047	mg/Kg	1	6/3/2019 6:46:09 PM	45310
Ethylbenzene	ND	0.047	mg/Kg	1	6/3/2019 6:46:09 PM	45310
Xylenes, Total	ND	0.094	mg/Kg	1	6/3/2019 6:46:09 PM	45310
Surr: 4-Bromofluorobenzene	103	80-120	%Rec	1	6/3/2019 6:46:09 PM	45310

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

**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
- 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
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 3 of 12

#### Hall Environmental Analysis Laboratory, Inc.

Lab Order 1905E76

Date Reported: 6/12/2019

CLIENT: Souder, Miller & Associates	<b>ENT:</b> Souder, Miller & Associates Client Sample ID: L2-2'					
<b>Project:</b> Caudill 5 27		(	Collection Dat	e: 5/2	27/2019 10:15:00 AM	
Lab ID: 1905E76-004	Matrix: SOIL		<b>Received Date</b>	e: 5/3	31/2019 8:50:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: smb
Chloride	ND	60	mg/Kg	20	6/7/2019 1:34:58 PM	45437
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analys	t: BRM
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	6/4/2019 2:56:59 PM	45333
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	6/4/2019 2:56:59 PM	45333
Surr: DNOP	122	70-130	%Rec	1	6/4/2019 2:56:59 PM	45333
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	6/3/2019 7:56:47 PM	45310
Surr: BFB	91.2	73.8-119	%Rec	1	6/3/2019 7:56:47 PM	45310
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.023	mg/Kg	1	6/3/2019 7:56:47 PM	45310
Toluene	ND	0.046	mg/Kg	1	6/3/2019 7:56:47 PM	45310
Ethylbenzene	ND	0.046	mg/Kg	1	6/3/2019 7:56:47 PM	45310
Xylenes, Total	ND	0.093	mg/Kg	1	6/3/2019 7:56:47 PM	45310
Surr: 4-Bromofluorobenzene	104	80-120	%Rec	1	6/3/2019 7:56:47 PM	45310

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

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 Limit

Page 4 of 12

#### Hall Environmental Analysis Laboratory, Inc.

Lab Order 1905E76

Date Reported: 6/12/2019

CLIENT: Souder, Miller & Associates Project: Caudill 5 27	Materia COU			<b>e:</b> 5/2	27/2019 10:50:00 AM	
Lab ID: 1905E76-005	Matrix: SOIL	DI	Qual Units		31/2019 8:50:00 AM Date Analyzed	Batch
Analyses	Kesuit	KL	Qual Units	DF	v	
EPA METHOD 300.0: ANIONS					Analys	t: smb
Chloride	ND	60	mg/Kg	20	6/7/2019 1:47:23 PM	45437
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analys	t: BRM
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	6/4/2019 3:19:08 PM	45333
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	6/4/2019 3:19:08 PM	45333
Surr: DNOP	87.8	70-130	%Rec	1	6/4/2019 3:19:08 PM	45333
EPA METHOD 8015D: GASOLINE RANG	E				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	6/3/2019 8:20:20 PM	45310
Surr: BFB	93.8	73.8-119	%Rec	1	6/3/2019 8:20:20 PM	45310
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.025	mg/Kg	1	6/3/2019 8:20:20 PM	45310
Toluene	ND	0.050	mg/Kg	1	6/3/2019 8:20:20 PM	45310
Ethylbenzene	ND	0.050	mg/Kg	1	6/3/2019 8:20:20 PM	45310
Xylenes, Total	ND	0.10	mg/Kg	1	6/3/2019 8:20:20 PM	45310
Surr: 4-Bromofluorobenzene	106	80-120	%Rec	1	6/3/2019 8:20:20 PM	45310

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

**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
- 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
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 5 of 12

**Analytical Report** 

#### Hall Environmental Analysis Laboratory, Inc.

Lab Order 1905E76

Date Reported: 6/12/2019

CLIENT: Souder, Miller & Associates	Client Sample ID: L4-Surface					
Project: Caudill 5 27		(	Collection Dat	e: 5/2	27/2019 11:10:00 AM	
Lab ID: 1905E76-007	Matrix: SOIL		<b>Received Dat</b>	<b>e:</b> 5/3	31/2019 8:50:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	: smb
Chloride	ND	60	mg/Kg	20	6/7/2019 2:37:01 PM	45437
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analys	BRM
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	6/4/2019 4:03:05 PM	45333
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	6/4/2019 4:03:05 PM	45333
Surr: DNOP	95.1	70-130	%Rec	1	6/4/2019 4:03:05 PM	45333
EPA METHOD 8015D: GASOLINE RANGE					Analys	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	6/3/2019 9:07:23 PM	45310
Surr: BFB	96.2	73.8-119	%Rec	1	6/3/2019 9:07:23 PM	45310
EPA METHOD 8021B: VOLATILES					Analys	: NSB
Benzene	ND	0.024	mg/Kg	1	6/3/2019 9:07:23 PM	45310
Toluene	ND	0.049	mg/Kg	1	6/3/2019 9:07:23 PM	45310
Ethylbenzene	ND	0.049	mg/Kg	1	6/3/2019 9:07:23 PM	45310
Xylenes, Total	ND	0.097	mg/Kg	1	6/3/2019 9:07:23 PM	45310
Surr: 4-Bromofluorobenzene	108	80-120	%Rec	1	6/3/2019 9:07:23 PM	45310

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

**Qualifiers:** 

- \* Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
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- в Analyte detected in the associated Method Blank
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- Р Sample pH Not In Range

RL Reporting Limit Page 6 of 12

#### Hall Environmental Analysis Laboratory, Inc.

Lab Order 1905E76

Date Reported: 6/12/2019

CLIENT: Souder, Miller & Associates Project: Caudill 5 27			ient Sample II Collection Date		V1 27/2019 12:00:00 PM		
Lab ID: 1905E76-009	1905E76-009         Matrix: SOIL         Received Date: 5/31/201						
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analys	t: <b>smb</b>	
Chloride	ND	60	mg/Kg	20	6/7/2019 3:01:50 PM	45437	
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analys	t: BRM	
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	6/4/2019 4:47:01 PM	45333	
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	6/4/2019 4:47:01 PM	45333	
Surr: DNOP	83.1	70-130	%Rec	1	6/4/2019 4:47:01 PM	45333	
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: NSB	
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	6/3/2019 9:54:41 PM	45310	
Surr: BFB	94.5	73.8-119	%Rec	1	6/3/2019 9:54:41 PM	45310	
EPA METHOD 8021B: VOLATILES					Analys	t: NSB	
Benzene	ND	0.025	mg/Kg	1	6/3/2019 9:54:41 PM	45310	
Toluene	ND	0.049	mg/Kg	1	6/3/2019 9:54:41 PM	45310	
Ethylbenzene	ND	0.049	mg/Kg	1	6/3/2019 9:54:41 PM	45310	
Xylenes, Total	ND	0.098	mg/Kg	1	6/3/2019 9:54:41 PM	45310	
Surr: 4-Bromofluorobenzene	107	80-120	%Rec	1	6/3/2019 9:54:41 PM	45310	

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

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Page 7 of 12

#### Hall Environmental Analysis Laboratory, Inc.

Lab Order 1905E76

Date Reported: 6/12/2019

CLIENT: Souder, Miller & Associates Project: Caudill 5 27			ient Sample II Collection Dat		V2 27/2019 12:15:00 PM	
Lab ID: 1905E76-010	Matrix: SOIL	·			31/2019 8:50:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: smb
Chloride	ND	60	mg/Kg	20	6/7/2019 3:14:14 PM	45437
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	: BRM
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	6/4/2019 5:08:59 PM	45333
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	6/4/2019 5:08:59 PM	45333
Surr: DNOP	96.4	70-130	%Rec	1	6/4/2019 5:08:59 PM	45333
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	6/3/2019 10:18:27 PM	45310
Surr: BFB	94.3	73.8-119	%Rec	1	6/3/2019 10:18:27 PM	45310
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	6/3/2019 10:18:27 PM	45310
Toluene	ND	0.047	mg/Kg	1	6/3/2019 10:18:27 PM	45310
Ethylbenzene	ND	0.047	mg/Kg	1	6/3/2019 10:18:27 PM	45310
Xylenes, Total	ND	0.095	mg/Kg	1	6/3/2019 10:18:27 PM	45310
Surr: 4-Bromofluorobenzene	107	80-120	%Rec	1	6/3/2019 10:18:27 PM	45310

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

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	ouder, Miller & Associates audill 5 27
Sample ID: MB-45437	SampType: MBLK TestCode: EPA Method 300.0: Anions
Client ID: PBS	Batch ID: 45437 RunNo: 60474
Prep Date: 6/7/2019	Analysis Date: 6/7/2019 SeqNo: 2047364 Units: mg/Kg
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	ND 1.5
Sample ID: LCS-4543	7 SampType: LCS TestCode: EPA Method 300.0: Anions
Client ID: LCSS	Batch ID: 45437 RunNo: 60474
Prep Date: 6/7/2019	Analysis Date: 6/7/2019 SeqNo: 2047365 Units: mg/Kg
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	15 1.5 15.00 0 97.3 90 110

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1905E76

12-Jun-19

	ider, Miller & A idill 5 27	Associate	es							
Sample ID: LCS-45333	Samp	Type: LC	S	Tes	tCode: EF	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: LCSS	Bato	h ID: 45	333	F	RunNo: 6	0392				
Prep Date: 6/3/2019	Analysis	Date: 6/	4/2019	S	BeqNo: 20	042252	Units: <b>mg/k</b>	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	10	50.00	0	103	63.9	124			
Surr: DNOP	4.9		5.000		97.8	70	130			
Sample ID: MB-45333	Samp	Туре: <b>МЕ</b>	BLK	Tes	tCode: EF	PA Method	8015M/D: Di	esel Range	e Organics	
Client ID: PBS	Bato	h ID: 45	333	F	RunNo: 6	0392				
Prep Date: 6/3/2019	Analysis	Date: 6/	4/2019	S	SeqNo: 20	042253	Units: <b>mg/</b> #	٤g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MR	0) ND	50								
Surr: DNOP	10		10.00		105	70	130			

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Page 10 of 12

1905E76

12-Jun-19

Client:	Souder, N	Iiller & As	ssociate	es							
Project:	Caudill 5	27									
Sample ID:	1905E76-001AMS	SampT	ype: <b>M</b> \$	3	Tes	Code: El	PA Method	8015D: Gasol	ine Rang	e	
Client ID:	L1-Surface	Batch	D: 45	310	R	unNo: 6	0347				
Prep Date:	5/31/2019	Analysis D	ate: 6/	3/2019	S	eqNo: 2	041211	Units: mg/Kg	I		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	19	4.8	23.97	0	81.2	69.1	142			
Surr: BFB		1000		958.8		109	73.8	119			
Sample ID:	1905E76-001AMS	<b>)</b> SampT	ype: <b>M</b> \$	SD	Tes	Code: El	PA Method	8015D: Gasol	ine Rang	e	
Client ID:	L1-Surface	Batch	D: 45	310	R	unNo: 6	0347				
Prep Date:	5/31/2019	Analysis D	ate: 6/	3/2019	S	eqNo: 2	041212	Units: mg/Kg	I		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	21	4.9	24.34	0	85.6	69.1	142	6.77	20	
Surr: BFB		1000		973.7		105	73.8	119	0	0	
Sample ID:	LCS-45303	SampT	ype: LC	s	Tes	Code: El	PA Method	8015D: Gasol	ine Rang	e	
Client ID:	LCSS	Batch	n ID: 45	303	R	unNo: 6	0347				
Prep Date:	5/31/2019	Analysis D	ate: 6/	3/2019	S	eqNo: 2	041225	Units: %Rec			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		1100		1000		109	73.8	119			
Sample ID:	MB-45303	SampT	ype: ME	BLK	Tes	Code: El	PA Method	8015D: Gasol	ine Rang	e	
Client ID:	PBS	Batch	D: 45	303	R	unNo: 6	0347				
Prep Date:	5/31/2019	Analysis D	ate: 6/	3/2019	S	eqNo: 2	041226	Units: %Rec			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
7 analyto								3			

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1905E76

12-Jun-19

WO#:

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Client: Project:	Souder, N Caudill 5		ssociate	es							
Sample ID:	1905E76-003AMS	SampT	Гуре: <b>МS</b>	3	Tes	tCode: El	PA Method	8021B: Volati	les		
Client ID:	L2-Surface	Batch	h ID: 45:	310	F	RunNo: 6	0347				
Prep Date:	5/31/2019	Analysis D	Date: 6/	3/2019	S	SeqNo: 20	041235	Units: mg/Kg	9		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.80	0.025	0.9852	0	81.6	63.9	127			
Toluene		0.89	0.049	0.9852	0.01130	89.4	69.9	131			
Ethylbenzene		0.94	0.049	0.9852	0	95.3	71	132			
Xylenes, Total		2.9	0.099	2.956	0	96.7	71.8	131			
Surr: 4-Brom	ofluorobenzene	1.0		0.9852		106	80	120			
Sample ID:	1905E76-003AMS	<b>)</b> SampT	Гуре: <b>МS</b>	SD.	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID:	ent ID: L2-Surface Batch ID: 45310 RunNo: 60347										
Prep Date:	5/31/2019	Analysis D	Date: 6/	3/2019	S	SeqNo: 20	041236	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.72	0.024	0.9434	0	76.8	63.9	127	10.4	20	
Toluene		0.84	0.047	0.9434	0.01130	87.6	69.9	131	6.30	20	
Ethylbenzene		0.90	0.047	0.9434	0	95.6	71	132	3.97	20	
Xylenes, Total		2.8	0.094	2.830	0	97.4	71.8	131	3.68	20	
Surr: 4-Brom	ofluorobenzene	1.0		0.9434		110	80	120	0	0	
Sample ID:	LCS-45303	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID:	LCSS	Batch	h ID: 45:	303	F	RunNo: 6	0347				
Prep Date:	5/31/2019	Analysis D	Date: 6/	3/2019	S	SeqNo: 20	041246	Units: %Rec			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Brom	ofluorobenzene	1.1		1.000		108	80	120			
Sample ID:	MB-45303	SampT	Гуре: <b>МЕ</b>	BLK	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID:	PBS	Batch	h ID: 45	303	F	RunNo: 6	0347				
Prep Date:	5/31/2019	Analysis D	Date: 6/	3/2019	S	SeqNo: 20	041247	Units: %Rec			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Brom	ofluorobenzene	1.1		1.000		110	80	120			

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RL Reporting Limit

WO#: 1905E76

12-Jun-19

HALL ENVIRONMENTAL ANALYSIS LABORATORY	TEL: 505-34	ımental Analysis Labor 4901 Hawkin Albuquerque, NM 8 15-3975 FAX: 505-345- www.hallenvironmenta	<sup>7109</sup> San	nple Log-In Chec	k List
Client Name: SMA-CARLSB	AD Work Order N	lumber: 1905E76		RcptNo: 1	2
Received By: Jevon Campie	si 5/31/2019 8:50:	00 AM	Jum Campisi		
Completed By: Leah Baca	5/31/2019 9:46:	24 AM	In Bace		
Reviewed By: DAD 5/31	/19	· · · ·	Lui Ja		
Chain of Custody					
1. Is Chain of Custody complete?	?	Yes 🗹	No 🗌	Not Present	
2. How was the sample delivered	1?				
Log In 3. Was an attempt made to cool		¥			
5. Was an altempt made to cool	the samples?	Yes 🗹	No	NA 🗌	
4. Were all samples received at a	temperature of >0° C to 6.0°C	Yes 🗹	No 🗌		
5. Sample(s) in proper container(	s)?	Yes 🔽	No 🗌		
6. Sufficient sample volume for in	dicated test(s)?	Yes 🗹	No 🗌		
7. Are samples (except VOA and	ONG) properly preserved?	Yes 🗹	No 🗌		
8. Was preservative added to both	tles?	Yes 🗌	No 🗹	NA 🗌	
9. VOA vials have zero headspace	e?	Yes	No 🗌	No VOA Vials	TG
10. Were any sample containers re	eceived broken?	Yes	No 🗹	# of preserved	31/19
11. Does paperwork match bottle la		Yes 🔽	No 🗌	bottles checked 5 (	311
(Note discrepancies on chain o	(A. 1993)			(<2 or >12 un Adjusted?	less noted)
12. Are matrices correctly identified		Yes 🗹		Adjusted?	
<ul><li>13. Is it clear what analyses were r</li><li>14. Were all holding times able to b</li></ul>	(31)	Yes ✔ Yes ✔	No 🗌 No 🗌	Checked by:	
(If no, notify customer for autho		res 💌		Checked by.	
Special Handling (if applica	able)				
15. Was client notified of all discre	pancies with this order?	Yes	No 🗌	NA 🔽	
Person Notified:	D	ate			
By Whom:	Vi	ia: 🗌 eMail 🔲 F	hone 🗌 Fax	In Person	
Regarding:					
Client Instructions:					

17. Cooler Information

	Chain-of Client:	Chain-of-Custody Record	Turn-Around Ti	Time:		HALL		ENVIRONMEN	ENTAL
Image: Second	AM	.A - Carlsbad	□ Standard Project Name:	Rush 2 AM		ANA	LYSIS		
Project #:     Tel. 666-385-3975     Fax 506-346-4101       Project #:     Project #:     Project #:     Analysis Returned       Bath Project #:     Project #:     Project #:     Project #:       Project #:     Project #:     Project #:     Project #:     Project #:       Project #:     Project #:     Project #:     Project #:     Project #:       Project #:     Project #:     Project #:     Project #:     Project #:       Project #:     Project #:     Project #:     Project #:     Project #: <td>ress:</td> <td></td> <td>Caud</td> <td>II S</td> <td>4901 H</td> <td>awkins NE</td> <td>1</td> <td>erque, NM 871</td> <td>60</td>	ress:		Caud	II S	4901 H	awkins NE	1	erque, NM 871	60
Analysis Request       Image:     Project Manager:       Image:     Project Manage			Project #:		Tel. 50	15-345-397	10	505-345-4107	
Project Manager:         McLoddi Carry ari         Project Manager:           ACompliance         Record (Full Valitation)         McLoddi Carry ari           Intervention         McLoddi Carry ari         Intervention           Intervention         McLoddi Carry ari         Intervention           Intervention         Intervention         McLoddi Carry ari           Intervention         Intervention         Intervention           Intervention         Intervention         Interventintervention           Interven							Analysis	Request	
Intervision     Melodit Sanjari     Melodit Sanjari       Intervaluation     Bampter MES:     No       Intervaluation     Sampter MES:     No       Matrix     Sampter ME     No       Matrix     Sampter MES:     No       Matrix     Sampter ME     No       Matrix     Sampter MS     No       Matrix     Sampter MS     No       Matrix     Matrix     No       M	ax#:		Project Manage	er:			<sup>†</sup> O <sup>4</sup>	(ìn	
Recompliance     Sampler: MES:     AZ Compliance       Induction of the second	kage: d	Level 4 (Full Validation)		odie Sanjari	ЯМ / O	SMISC	PO₄, S	iəzdA\tr	
Imatrix     Contert     On los:     Drytes     No       Matrix     Sample Name     # of Coolenes:     3     No       Matrix     Sample Name     Preservative     HEAL No.     Rec (CRO Second)       Matrix     Sample Name     Container     Preservative     Preservative       Matrix     Sample Name     Container     Preservative     Preservative       Sail     UL-Li-Surface     An     Container     Preservative       Lul-Surface     An     - 000     EDB (Matrix Oct 500     Recentron 50, 30, 50       Lul-Surface     An     - 000     EDB (Matrix Oct 500     Recentron 50, 50       Lul-Surface     An     - 000     EDB (Matrix Oct 500     Recentron 50, 50       Lul-Surface     An     - 000     EDB (Matrix Oct 500     Recentron 50, 50       Lul-Surface     An     - 000     EDB (Matrix Oct 500     Recentron 50, 50       Lul-Surface     An     - 000     EDB (Matrix Oct 500     Recentron 50, 50       Lul-Surface     An     - 000     EDB (Matrix Oct 50)     Recentron 50, 50       Lul-Surface     An     - 000     EDB (Matrix Oct 50)     Recentron 50, 50       Lul-L-Surface     An     - 000     EDB (Matrix Oct 50)     Recentron 50, 50       Lul-L-Surface </td <td></td> <td>Az Compliance</td> <td>Sampler: MC</td> <td>S.</td> <td>אם /</td> <td></td> <td>10<sup>5</sup></td> <td></td> <td></td>		Az Compliance	Sampler: MC	S.	אם /		10 <sup>5</sup>		
Matrix     Bandle Name     # of Cooleres:     2 %       Matrix     Sample Name     Cooler Temponements:     2 %       Matrix     Sample Name     Cooler Temponements:     2 %       Matrix     Sample Name     Trope and #     Trope and #       Kail     U1-SWYFALE     Am     0000     EDB (Melhodi       Kail     U1-SWYFALE     Am     -000     EDB (Melhodi       Lul: S'     badggy     -000     EDB (Melhodi     2000       La: -SwyFaLe     Am     -000     EDB (Melhodi       La: -SwyFaLe     Am     -000     EDB (Melhodi       L: -SwyFaLe     Am     <		Other		es	05	OL 9			
Matrix     Sample Name     Cooler Tempusatione CFI:     2, % C     MIT     Matrix     Sample Name       Anti-     Type and #     Type a	ype)		# of Coolers:		(GF	018	10 <sup>3</sup>	-	
Matrix Sample Name Sample Name Type and # Type Tul L1-Strate L1-L1-Strate L2-Sturfate L2-S			Cooler Temp(ind	à	٩۶٢	y 83	3r, 1		
sail U-SWYFALE An -0000				ervative 1 0/	08.HJI	d eHA9	Che' E		
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$				- 00	17		<u>)</u> .		
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$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	Q	L2-Surface	400-	8	24-1		Ha		tai -
L3-Surface     And     - 005     1     1       L3-LiS'     baggy     - 006     1     1       L4-2'     briggy     - 006     1     1       Switz     4n     - 000     1     1       Switz     4n     - 000     1     1       Switz     1     1     1     1       Switz     1     1     1     1       Munit     Reinfiguished by:     Received by:     1     1       Reinfiguished by:     Received by:     1     1     1       Reinfiguished by:     Received by:     1     1     1       Received by:     Nait add by:     Per Met MMT     1     1	2	12-21	baggy		- H		ų ţ		
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	ŝ	1	( nh	- 500 -	5		) ju	- Box ( 1 - 2	
L4-2 <sup>1</sup> bersuntate 400 - 000 -	D)	1	baggu	- 000	- M		M		
IA-21     berson     0.00     1       SWI     4m     -0.01     1     1       Relinquished by:     SWI     Per Miel Remarks:     Per Miel Remarks:       Relinquished by:     Nation     Solf     1500       Relinquished by:     Nation     Per Miel Remarks:     Per Miel Remarks:	[0	4	the J	- 00 -	94		4		
J     Sw1     40     000     1     1       d     Sw2     4-m     -000     1     1     1       Relinguished by:     Sw02     4-m     -010     1     1     1       Relinguished by:     Received by:     Main     10 at p     1     1     1       Relinguished by:     Received by:     Main     1     1     1     1       Relinguished by:     Received by:     Main     1     1     1     1       Relinguished by:     Received by:     1     1     1     1     1       Relinguished by:     Received by:     1     1     1     1     1       Relinguished by:     Received by:     1     1     1     1     1	30	14-2'	bessy.		8		he		
SW22 4-0 -010	q	SWI	40,0		011		T#		
Relinquished by: Relinquished by: Received by: Via: Courie Date Time Remarks: Relinquished by: Via: Courie Date Time X PLACE MM TH FINST 100 46/6/	sil si	ZMZ	402	-010	+ +		_¥		
Relinquished by: Relinquished by: Relinquished by: Relinquished by: Relinquished by: Relinquished by: Received by: Via: Courier Date Time S-31-19 8:50 S-31-19 8:50									
M. Janyan . Received by: Via: Courier Date Time X PLACE MM TPH FINSH !! + 46/6/		quished by:	0	Date	Remarks:	_		lemore -	-008-
Relifeduished by: Repetived by: Via: Courier Date Time X PLACK MN 1 MAT: 96/6/		any an	2	2/30/19	Matagu	-	IFF	100	the fefort.
		golished by:		Courier Date Tim	$\star$	r MW			9-6/6/1

Released to Imaging: 2/3/2023 8:46:29 AM



June 14, 2019

Melodie Sanjari Souder, Miller & Associates 201 S Halagueno Carlsbad, NM 88221 TEL: (575) 689-8801 FAX

RE: Caudill Reanalysis

OrderNo.: 1906464

Hall Environmental Analysis Laboratory

TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Melodie Sanjari:

Hall Environmental Analysis Laboratory received 2 sample(s) on 6/8/2019 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 #NM0901

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report Lab Order 1906464

#### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 6/14/2019

CLIENT: Souder, Miller & Associates		Cl	ient Sa	ample II	<b>D:</b> L3	8-1.5'	
Project: Caudill Reanalysis		(	Collect	ion Dat	<b>e:</b> 5/2	27/2019 11:00:00 AM	
Lab ID: 1906464-001	Matrix: SOIL		Recei	ved Dat	<b>e:</b> 6/8	8/2019 10:00:00 AM	
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	MRA
Chloride	ND	60		mg/Kg	20	6/13/2019 1:41:21 PM	45561
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS					Analyst	BRM
Diesel Range Organics (DRO)	70	9.6		mg/Kg	1	6/14/2019 1:24:43 AM	45479
Motor Oil Range Organics (MRO)	68	48		mg/Kg	1	6/14/2019 1:24:43 AM	45479
Surr: DNOP	114	70-130		%Rec	1	6/14/2019 1:24:43 AM	45479
EPA METHOD 8015D: GASOLINE RANGE	l .					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.8	Н	mg/Kg	1	6/11/2019 3:37:26 PM	45462
Surr: BFB	109	73.8-119	н	%Rec	1	6/11/2019 3:37:26 PM	45462
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	ND	0.024	н	mg/Kg	1	6/11/2019 3:37:26 PM	45462
Toluene	ND	0.048	н	mg/Kg	1	6/11/2019 3:37:26 PM	45462
Ethylbenzene	ND	0.048	Н	mg/Kg	1	6/11/2019 3:37:26 PM	45462
Xylenes, Total	ND	0.097	Н	mg/Kg	1	6/11/2019 3:37:26 PM	45462
Surr: 4-Bromofluorobenzene	101	80-120	н	%Rec	1	6/11/2019 3:37:26 PM	45462

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

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 Limit

Page 1 of 6

### Hall Environmental Analysis Laboratory, Inc.

Lab Order 1906464

Date Reported:	6/14/2019
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CLIENT: Souder, Miller & Associates				ample II			
Project: Caudill Reanalysis Lab ID: 1906464-002	Matrix: SOIL	,				27/2019 11:30:00 AM 3/2019 10:00:00 AM	
Lau ID. 1900404-002	Matrix. SOIL		Neter	iveu Dai	<b>e.</b> 0/ c	5/2019 10:00:00 AM	
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	MRA
Chloride	ND	60		mg/Kg	20	6/13/2019 1:53:46 PM	45561
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS					Analyst	BRM
Diesel Range Organics (DRO)	32	9.8		mg/Kg	1	6/12/2019 7:24:46 PM	45479
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/12/2019 7:24:46 PM	45479
Surr: DNOP	112	70-130		%Rec	1	6/12/2019 7:24:46 PM	45479
EPA METHOD 8015D: GASOLINE RANGE	E					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	н	mg/Kg	1	6/11/2019 4:00:21 PM	45462
Surr: BFB	108	73.8-119	Н	%Rec	1	6/11/2019 4:00:21 PM	45462
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	0.025	н	mg/Kg	1	6/11/2019 4:00:21 PM	45462
Toluene	ND	0.049	н	mg/Kg	1	6/11/2019 4:00:21 PM	45462
Ethylbenzene	ND	0.049	н	mg/Kg	1	6/11/2019 4:00:21 PM	45462
Xylenes, Total	ND	0.099	Н	mg/Kg	1	6/11/2019 4:00:21 PM	45462
Surr: 4-Bromofluorobenzene	99.2	80-120	н	%Rec	1	6/11/2019 4:00:21 PM	45462

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

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
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- P Sample pH Not In Range
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Page 2 of 6

Client: Project:	Souder, Miller & A Caudill Reanalysis		es							
Sample ID: MB-455	61 Samp	Type: <b>m</b> t	olk	Tes	tCode: EP	A Method	300.0: Anion	s		
Client ID: PBS	Batc	h ID: 45	561	F	RunNo: <b>60</b>	629				
Prep Date: 6/13/2	019 Analysis I	Date: 6/	13/2019	S	BeqNo: <b>20</b>	52139	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-45	561 Samp	Type: Ics	5	Tes	tCode: EP	A Method	300.0: Anion	s		
Client ID: LCSS	Batc	h ID: 45	561	F	RunNo: <b>60</b>	629				
Prep Date: 6/13/2	019 Analysis I	Date: 6/	13/2019	S	SeqNo: 20	52140	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.7	90	110			

- \* 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 Limit

Page 3 of 6

1906464

14-Jun-19

	, Miller & A	ssociate	s							
Project: Caudill	Reanalysis									
Sample ID: MB-45479 SampType: MBLK				Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: PBS	Batch	Batch ID: 45479 RunNo: 60537								
Prep Date: 6/10/2019	Analysis D	0ate: <b>6/</b>	6/11/2019 SeqNo: 2049887 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	9.5		10.00		94.7	70	130			
Sample ID: LCS-45479	SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics									
Client ID: LCSS	Batch	h ID: 454	479	F	RunNo: <b>6</b>	0580				
Prep Date: 6/10/2019	Analysis D	Date: 6/	12/2019	5	SeqNo: 20	050992	Units: <b>mg/K</b>	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	52	10	50.00	0	105	63.9	124			
Surr: DNOP	4.9		5.000		98.8	70	130			

- \* 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 Limit

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1906464

14-Jun-19

	Miller & A Reanalysis	ssociate	S							
Sample ID: MB-45462	SampT	уре: МЕ	BLK	Test	tCode: EF	PA Method	8015D: Gaso	line Rang	e	
Client ID: PBS	Batch	Batch ID: 45462 RunNo: 60551								
Prep Date: 6/10/2019	Analysis D	Date: 6/	11/2019	S	eqNo: 20	049131	Units: mg/K	g		
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		104	73.8	119			
Sample ID: LCS-45462	SampT	ype: LC	S	Test	tCode: EF	PA Method	8015D: Gaso	line Rang	e	
Client ID: LCSS	Batch	n ID: 454	462	R	unNo: 60	0551				
Prep Date: 6/10/2019	Analysis D	0ate: 6/	11/2019	S	eqNo: 20	049132	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	93.7	80.1	123			
Surr: BFB	1100		1000		115	73.8	119			

- 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

- Analyte detected in the associated Method Blank в
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

1906464

14-Jun-19

	Souder, Miller & A		es							
Sample ID: MB-454	62 Samp	Type: ME	BLK	Tes	tCode: EF	PA Method	8021B: Volat	iles		
Client ID: PBS	Bat	Batch ID: 45462			RunNo: 60551					
Prep Date: 6/10/20	Analysis	Date: 6/	11/2019	S	eqNo: 20	049158	Units: mg/K	g		
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-Bromofluoroben	zene 0.99		1.000		98.6	80	120			
Sample ID: LCS-454	162 Samp	Type: LC	s	Tes	tCode: EF	PA Method	8021B: Volat	iles		
Client ID: LCSS	Bat	ch ID: 45	462	F	lunNo: 6	0551				
Prep Date: 6/10/20	Analysis	Date: 6/	/11/2019	S	eqNo: 20	049159	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	103	80	120			
Toluene	1.0	0.050	1.000	0	103	80	120			
Ethylbenzene	1.0	0.050	1.000	0	101	80	120			
Xylenes, Total	3.0	0.10	3.000	0	99.9	80	120			
Surr: 4-Bromofluoroben	zene 1.1		1.000		108	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 Limit

Page 6 of 6

1906464

14-Jun-19

Received by	• <b>OCD</b> :	12/7/2022	10:45:59 AM	Į
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HALL ENVIRONMENTAL ANALYSIS LABORATORY	TEL: 505-345	ental Analysis Labora 4901 Hawkin Albuquerque, NM 8 -3975 FAX: 505-345 ww.hallenvironmental	7109 <b>San</b> 4107	nple Log-In Check L	ist
Client Name: SMA-CARLSBAD	Work Order Nu	mber: <b>1906464</b>		RcptNo: 1	
Received By: Isaiah Ortiz Completed By: Leah Baca Reviewed By: 7WM 6-10-19	6/8/2019 10:00:0 6/9/2019 1:49:32		I-O Lail Stran	*	
Chain of Custody 1. Is Chain of Custody complete? 2. How was the sample delivered?		Yes 🗹 <u>Courier</u>	No 🗌	Not Present	
Log In 3. Was an attempt made to cool the samples?		Yes 🗹	No 🗌	NA 🗌	
4. Were all samples received at a temperature	of >0° C to 6.0°C	Yes 🗹	No 🗌		
<ol> <li>Sample(s) in proper container(s)?</li> <li>Sufficient sample volume for indicated test(s</li> </ol>	)?	Yes ✔ Yes ✔	No 🗌		
7. Are samples (except VOA and ONG) propert	5	Yes 🗹			
8. Was preservative added to bottles?	y preserved?	Yes	No 🗹		
9. VOA vials have zero headspace?		Yes	No 🗌	No VOA Vials 🗹	
10. Were any sample containers received broke	n?	Yes	No 🗹	# of preserved bottles checked	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🗹	No 🗌	for pH: (<2 or >12 unless	noted)
12. Are matrices correctly identified on Chain of	Custody?	Yes 🗹	No 🗌	Adjusted?	
<ul><li>13. Is it clear what analyses were requested?</li><li>14. Were all holding times able to be met? (If no, notify customer for authorization.)</li></ul>		Yes 🗹 Yes 🗹	No 🗌 No 🗌	Checked by: DAD 61	10/19
<u>Special Handling (if applicable)</u> 15. Was client notified of all discrepancies with	this order?	Yes	No 🗌	NA 🗹	
Person Notified: By Whom: Regarding: Client Instructions:	Dat Via		Phone 🗌 Fax	In Person	
16. Additional remarks:					
17. <u>Cooler Information</u> <u>Cooler No</u> Temp <sup>o</sup> C Condition Set 1 5.4 Good Yes	eal Intact Seal No	Seal Date	Signed By		

Page 1 of 1

<i>Received by OCD: 12/7/2022</i>	10:45:59 AM	Page 62 of 63
Additional and the second seco	EDB (Method 504.1) SMI20758 by 8310 or 8270SIMS SCRA 8 Metals S1560 (VOA) 3260 (VOA) (fresent/Absent) (fresedt/Absent) (fresent/Absent)	BLOR & CO & CO T POLO
1901 I	3081 Pesticides/8082 PCB's	A X X X X X X X X X X X X X X X X X X X
	(1030) 8'015D(500, 000) 8'021)	Remarks: Mald X Mald X Remarks: Le Eurulu possibility. And
Turn-Around Time:	Project Manager: MM M M K Sampler: WM On Ice: Sryes INO # of Coolers: / -0.2) Cooler Temp(Including CF): 5.4-5 Cooler Temp(Including CF): 5.4-5	
Chain-of-Custody Record	email or Fax#: QA/QC Package: Calandard Cachage: Candard Cachage: Accreditation: Cachage Compliance Cachage Name Date Time Matrix Sample Name	11.11e     Matux     Carinple Matux       11.11e     MML     L3-7.5       11.11e     MML     L4-2.1       11.11e     Elinquished by:       11.11e     Relinquished by:       11.11e     Relinquished by:       11.11e     Relinquished by:

**Released to Imaging:** 2/3/20

District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3470 Fax: (505) 476-3462

**State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division** 1220 S. St Francis Dr. Santa Fe, NM 87505

CONDITIONS

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	164830
	Action Type:
	[C-141] Release Corrective Action (C-141)

#### CONDITIONS

Created By		Condition Date
amaxwell	None	2/3/2023

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Action 164830