

August 20, 2019

3BYD5-190830-C-1410

#5E26084-BG23

NMOCD District 2 811 S. First St. Artesia, NM 88210

SUBJECT: Remediation Closure Report for the Julie #1 Pipeline Release (2RP-5569), Eddy County, New Mexico

To Whom It May Concern:

On behalf of Lucid Energy Group (Lucid), 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 Julie #1 pipeline release site. The site is in Section 9, Township 19S, Range 25E, Eddy County, New Mexico, on private land. Figure 1 illustrates 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 and Closure Criteria			
Name	Julie #1 Pipeline	Company	Lucid Energy Group
API Number	Not Applicable	Location	32.669415 -104.495793
Incident Number		2RP-5569	
Estimated Date of Release	7/17/2019	Date Reported to NMOCD	7/17/2019
Land Owner	Private Land	Reported To	NMOCD District 2
Source of Release	Pipeline line leak due to corrosion near a weld		
Released Volume	15 bbls	Released Material	Condensate
Recovered Volume	None	Net Release	15 bbls
NMOCD Closure Criteria	51-100 feet to groundwater		
SMA Response Dates	1/10/2019 - 7/17/2019		

1.0 Background

On January 10, 2019, a suspected release was investigated at the Julie #1 pipeline release site due to soil staining at the ground surface. Initial response activities were conducted by SMA, included hand digging and excavating in the stained area, and collecting soil samples. Figure 1 illustrates the vicinity and site location; Figure 2 illustrates the release location. The C-141 form is included in Appendix A.

2.0 Site Information and Closure Criteria

The Julie #1 Pipeline release is located approximately 13 miles southeast of Artesia, New Mexico on privately-owned land at an elevation of approximately 3525 feet above mean sea level (amsl).

Based upon nearby groundwater wells (Appendix B), depth to groundwater in the area is estimated to be 70 feet below grade surface (bgs). There are no known water sources within ½-mile 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 8/24/2019). The nearest significant watercourse is Fourmile Draw, located approximately 3650 feet to the south. Figure 2 illustrates the site with 200 and 300-foot radii to indicate that it does not 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 between 51-100 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 and Remediation Activities

On January 10, 2019, SMA conducted a site investigation of the suspected release. Soil samples were field-screened for chloride using an electrical conductivity (EC) and for hydrocarbon impacts using a calibrated MiniRAE 3000 photoionization detector (PID) equipped with a 10.6 eV lamp.

A total of two (2) sample locations (L1-L2) were investigated using excavated test pits. Test pit 1 was located directly adjacent to the pipeline and was excavated to four (4) feet bgs. Two samples were collected for laboratory analysis (L1 at 2' and L1 at 4'). Test pit 2 was located approximately 8 feet south of L1 and was excavated to eight (8) feet bgs. Two samples were collected (L2 at 6' and L2 at 8')

On April 29, 2019 location L1 was further investigated using a direct-push drill rig, to a total of 10 feet bgs. Two samples were collected from the borehole (BH1) and field-screened using the methods above. A total of six (6) samples were collected during site investigation activities 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.

On July 17, 2019, SMA returned to the site to further investigate and provide excavation oversight of the suspected release. Through further excavation of the Julie #1 pipeline release, SMA and Lucid Energy concluded that a reportable amount of pipeline fluid had been released from the Julie pipeline. SMA continued to guide the excavation activities by collecting soil samples for field screening. Samples were screened for chloride and hydrocarbon impacts using the methods above. The walls and base were excavated until field screening results indicated that the NMOCD Closure Criteria would be met. NMOCD

Julie #1 Remediation Closure Report (2RP-5569) August 20, 2019

was not notified of the closure sampling due to the unknown nature and extent of the release prior to excavation of the site.

On July 19, 2019, SMA conducted confirmation sampling of the walls and base of the excavation, which measured approximately 31 x 16 x 15 feet.

Confirmation samples were comprised of five-point composites of the base (CL1 and CL2) and walls (CSW1, 2, 3, and 4).

A total of six (6) 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. Laboratory samples were collected in accordance with the sampling protocol included in Appendix C. Samples were placed into laboratory supplied glassware, labeled, and maintained on ice until delivery to Hall Environmental Analysis Laboratory in Albuquerque, New Mexico (Appendix D).

Figure 3 shows the extent of the excavation and sample locations. Laboratory results are summarized in Table 3. Laboratory reports are included in Appendix D.

In addition to meeting the Closure Criteria, the top four (4) feet of impacted areas off of the well pad meet the reclamation requirement of 19.15.29.13(D)(1). Contaminated soils were removed and replaced with clean backfill material to return the surface to previous contours. The contaminated soil was transported and disposed of at R360 Environmental Solutions near Hobbs, NM, an NMOCD permitted disposal facility.

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 Heather Patterson at 575-200-5343 or Shawna Chubbuck at 505-325-7535.

Submitted by: SOUDER, MILLER & ASSOCIATES Reviewed by:

Jon Alto

Lynn A. Acosta Staff Geoscientist

Shawna Chubbuck

Shawna Chubbuck Senior Scientist

ATTACHMENTS:

Figures:

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

Tables:

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

Appendices:

Appendix A: Form C141 Appendix B: NMOSE Wells Report Appendix C: Sampling Protocol and Field Notes Appendix D: Laboratory Analytical Reports

FIGURES







TABLES

Table 2: NMOCD Closure Criteria

Site Information (19.15.29.11.A(2, 3, and 4) NMAC)		Source/Notes
Depth to Groundwater (feet bgs)	70	New Mexico Office of the State Engineer
Hortizontal Distance From All Water Sources Within 1/2 Mile (ft)	NA	USGS
Hortizontal Distance to Nearest Significant Watercourse (ft)	3500	Four Mile Draw

Closure Criteria (19.15.29.12.B(4) and Table 1 NMAC)						
Depth to Groundwater		Closure Criteria (units in mg/kg)				
		Chloride *numerical limit or background, whichever is greater	ТРН	GRO + DRO	BTEX	Benzene
< 50' BGS		600	100		50	10
51' to 100'	Х	10000	2500	1000	50	10
>100'		20000	2500	1000	50	10
Surface Water yes or no			if ye	s, then		
<300' from continuously flowing watercourse or other significant watercourse?	No					
<200' from lakebed, sinkhole or plava lake?	No					
Water Well or Water Source						
<500 feet from spring or a private, domestic fresh water well used by						
less than 5 households for domestic or stock watering purposes?	No					
<1000' from fresh water well or spring?	No					
Human and Other Areas		600	100		50	10
<300' from an occupied permanent residence, school, hospital,		600	100		50	10
institution or church?	No					
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					

Table 3: Summary of Sample Results

Sample	Sample	Depth	Action	BTEX	Benzene	GRO	DRO	MRO	Total TPH	CI-
ID	Date	(feet bgs)	Taken	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
	NMOCD C	losure Criteria		50	10	1,0	000		2,500	10,000
	1/10/2019	2	Excavate	3490	590	15000	1100	690	16790	5500
	1/10/2019	4	Excavate	5490	1200	24000	2900	500	27400	
	4/26/2019	8	In-situ	<0.225	<0.025	<5.0	<10	<50	<65.0	370
	4/26/2019	10	In-situ	<0.216	<0.024	<4.8	<9.8	<49	<63.6	180
12	1/10/2019	6	In-situ	1.83	0.11	7.5	<10	<50	7.5	
LZ	1/10/2019	8	In-situ	1.127	0.097	<5.0	<10	<50	<65	100
				Closu	re Samples	S				
CL 1	7/19/2019	15'	In-situ	<0.224	<0.025	<5.0	<9.7	<49	<58.7	<60
CL 2	7/19/2019	15'	In-situ	<0.225	<0.025	<5.0	<9.9	<50	<64.9	<60
CSW 1	7/19/2019	0-15'	In-situ	<0.224	<0.025	<5.0	<9.9	<50	<64.9	<60
CSW 2	7/19/2019	0-15'	In-situ	<0.219	<0.020	<4.9	<9.1	<45	<59	<60
CSW 3	7/19/2019	0-15'	In-situ	<0.221	<0.025	<4.9	<9.8	<49	<63.7	<60
CSW 4	7/19/2019	0-15'	In-situ	< 0.224	<0.025	<5.0	<9.9	<50	<64.9	<59

"--" = Not Analyzed

APPENDIX A FORM C141

Received by OCD: 7/29/2019 3:21:00 PM

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

** AMENDED

Incident ID	NAB1922143961
District RP	2RP-5569
Facility ID	fAB1922143477
Application ID	pAB1922143677

Release Notification CW9

CW9QD-190729-C-1410

Responsible Party

Responsible Party	Lucid Artesia Company	OGRID 147831	
Contact Name	Michael Gant	Contact Telephone 575 748 4555	
Contact email	Mgant@lucid-energy.com	Incident # (assigned by OCD) NAB1922143961	
^{Contact mailing address} 201 S. 4th St., Artesia, NM 88210			

Location of Release Source

Latitude 32.669415°

Longitude -104.495793°

(NAD 83 in decimal degrees to 5 decimal places)

Site Name Julie #1 Pipeline release	Site Type Abandoned natural gas gathering
Date Release Discovered 7/17/2019	API# (if applicable)

Unit Letter	Section	Township	Range	County
М	9	19S	25E	Eddy

Surface Owner: State Federal Tribal Private (Name: Howell Ranch

** BLM verified Surface Owner to be correct as Private. O.C.D. revised to show

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)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls) 15 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 The re bottom	lease was caused by corrsion near a weld in the pi of the pipe.	Pe which led to a pinhole leak forming on the

Page 2

State of New Mexico Oil Conservation Division

Incident ID	NAB1922143961
District RP	2RP-5569
Facility ID	fAB1922143477
Application ID	pAB1922143677

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?
🗌 Yes 🛛 No	
If YES, was immediate n	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?

Initial Response

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

 \checkmark The source of the release has been stopped.

 \checkmark 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.

If all the actions described above have <u>not</u> been undertaken, explain why:

There were no free liquids to be recovered. The affected area has been barricaded with fencing to prevent entrance by livestock and the public.

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: Michael Gant

Signature:

Title: Environmental Field Coordinator

_{email:} mgant@lucid-energy.com

Date: 7.29.19

Telephone: 314 330 7876

OCD Only

Received by:

Amalia Bustamante

Date: 8/9/2019

State of New Mexico Oil Conservation Division

Incident ID	nAB1922143961
District RP	2RP-5569
Facility ID	fAB1922143477
Application ID	pAB1922143677

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>70</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 not 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.
- Field data
- Data table of soil contaminant concentration data
- \square Depth to water determination
- Determination of water sources and significant watercourses within ¹/₂-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.

Form C-141	State of New Mexico		A D 10001 400 (1	
Dage 4	Oil Conservation Division	Incident ID	nAB1922143961	
Page 4	On Conservation Division	District RP	2RP-5569	
		Facility ID	fAB1922143477	
		Application ID	pAB1922143677	
I hereby certify that the infor- regulations all operators are public health or the environn failed to adequately investig addition, OCD acceptance of and/or regulations. Printed Name:M Signature:M email:mgant@luci	rmation given above is true and complete to the best of my kn required to report and/or file certain release notifications and j ment. The acceptance of a C-141 report by the OCD does not ate and remediate contamination that pose a threat to groundw f a C-141 report does not relieve the operator of responsibility Aichael Gant Title:En d-energy.com Telephone:	owledge and understand that purst perform corrective actions for rele relieve the operator of liability sho vater, surface water, human health for compliance with any other feo wironmental Field Coordinator 8/27/2019	uant to OCD rules and ases which may endanger ould their operations have or the environment. In deral, state, or local laws	
OCD Only Received by:	Dat	e:		

State of New Mexico Oil Conservation Division

Incident ID	nAB1922143961
District RP	2RP-5569
Facility ID	fAB1922143477
Application ID	pAB1922143677

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)
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:Michael Gant Title:Environmental Field Coordinator
Signature: Date:8/27/2019
email:mgant@lucid-energy.com Telephone:314-330-7876
OCD Only
Received by: Date: Date: 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: Date:
Printed Name: Title:

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	(R=POD been rep O=orpha) has blaced, aned,			(orto		ro 1 N							
serves a water right file.)	C=the fil closed)	e is			(qua (qua larg	arte arte Jest	ers al ers al)	re 1=N re sma	allest to	NE 3=5VV 2) (N	IAD83 UTM in I	meters)	(In f	eet)	
		POD Sub-	_	Q	Q	Q		_	_					N	/ater
POD Number	Code	basin	County	64	16 2	54 2	Sec 16	105	Rng	X 548442	Y 361/12/* 🦱	DistanceDe	othWellDep	thWaterCo	olumn
<u>RA 06418</u>		RA	ED	1	2	3	17	190 19S	25E	545925	3613710*	1681	120	72	48
RA 05333		RA	ED		2	2	09	19S	25E	548430	3616046* 🌍	1756	315	260	55
<u>RA 05331</u>		RA	ED	1	1	4	05	19S	25E	546308	3616955* 🌍	2405	460	305	155
<u>RA 05450</u>		RA	СН		4	2	15	19S	25E	550057	3614015* 🌍	2897	204	80	124
											Ave	rage Depth to W	/ater:	162 fe	et
												Minimum De	epth:	72 fe	et
												Maximum De	pth:	305 fe	et
Record Count:5															
UTMNAD83 Radiu	is Search	(in mete	ers):												
Easting (X): 54	7252		Nort	hin	g ()	():	3614	4743			Radius: 3000)			
*UTM location was derive	ed from PLS	SS - see	Help												
The data is furnished by th concerning the accuracy, of	ne NMOSE/I	SC and is s, reliabil	s acceptec ity, usabilit	l by ty, o	the r su	rec itab	ipient ility fo	t with t or any	ne expre particula	essed under ar purpose c	rstanding that the of the data.	e OSE/ISC make i	no warranties,	expressed or i	implied,
8/9/19 12:49 PM												WATER CO WATER	LUMN/ AVEF	AGE DEPTH	Н ТО



National Water Information System: Web Interface

USGS Water Resources

Data Category:		Geographic Area:		
Groundwater	•	United States	•	GO

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Groundwater levels for the Nation

Search Results -- 1 sites found

Agency code = usgs

Minimum number of levels = 1

Date range = 01/01/1994 . 07/19/2019 Save file of selected sites to local disk for future upload

USGS 323948104302801 19S.25E.17.321212

Eddy County, New Mexico Latitude 32°39'48", Longitude 104°30'28" NAD27 Land-surface elevation 3,526 feet above NAVD88 This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer. **Output formats**

Table of data	
Tab-separated data	
Graph of data	

Reselect period

Date	Time	? Water- level date- time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water- level accuracy	? Status	? Method of measurement	? Measuring agency	? Source o measuro
1994-02-21		D	70.27			2	2	S	5	
2006-02-08	12:30 MST	m	69.87			2	2	S	5 NM001	
2007-02-13	11:15 MST	m	71.50			2	2	S	5 NM001	
2009-01-06	12:15 MST	m	73.88			2	2	S	5 NM001	
2010-01-20	11:20 MST	m	75.23			2	2	S	5 NM001	

		Explanation
Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot

https://nwis.waterdata.usgs.gov/nwis/gwlevels?site_no=323948104302801&agency_cd=USGS&begin_date=1994-01-01&end_date=2019-07-19&form... 1/2

7/19/2019

USGS Groundwater for USA: Water Levels -- 1 sites

Section	Code	Description
Status		The reported water-level measurement represents a static level
Method of measurement	S	Steel-tape measurement.
Measuring agency		Not determined
Measuring agency	NM001	New Mexico State Engineers Office
Source of measurement	А	Reported by another government agency (do not use "A" if reported by owner, use "O").
Source of measurement	U	Source is unknown.
Water-level approval status	А	Approved for publication Processing and review completed.

Questions about sites/data? Feedback on this web site Automated retrievals Help Data Tips Explanation of terms Subscribe for system changes News

Accessibility Plug-Ins FOIA Privacy Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey Title: Groundwater for USA: Water Levels URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2019-07-19 12:40:09 EDT 0.77 0.42 nadww01 USA.gov



National Water Information System: Web Interface

USGS Water Resources

Data Category:	Geographic Area:		
Groundwater	 United States 	•	GO

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Groundwater levels for the Nation

Search Results -- 1 sites found

Agency code = usgs

Minimum number of levels = 1

Date range = 01/01/1994 . 07/19/2019 Save file of selected sites to local disk for future upload

USGS 324041104294801 19S.25E.08.42222

Eddy County, New Mexico Latitude 32°40'41", Longitude 104°29'48" NAD27 Land-surface elevation 3,539 feet above NAVD88 The depth of the well is 142 feet below land surface. This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period

Date	Time	? Water- level date- time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water- level accuracy	? Status	? Method of measurement	? Measuring agency	? Source (measure
1001.00.01			100.07							
1994-02-21		D	109.37			2		S		
1999-01-14		D	112.62			2		S	USGS	
2003-01-25		D	111.28			2		S	USGS	
2004-02-04		D	113.45			2		S	USGS	
2005-02-08	08:50 MST	m	111.00			2		S	NM001	
2006-02-08	12:45 MST	m	111.70			2		S	NM001	
2007-02-13	11:30 MST	m	112.90			2		S	NM001	
2008-01-14	09:55 MST	m	114.38			2		S	NM001	
2009-01-06	13:30 MST	m	115.44			2		S	NM001	
2010-01-20	14:20 MST	m	117.36			2		S	NM001	
2012-01-05	10:35 MST	m	119.83			2		S	NM001	

USGS Groundwater for USA: Water Levels -- 1 sites

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status		The reported water-level measurement represents a static level
Method of measurement	S	Steel-tape measurement.
Measuring agency		Not determined
Measuring agency	NM001	New Mexico State Engineers Office
Measuring agency	USGS	U.S. Geological Survey
Source of measurement	А	Reported by another government agency (do not use "A" if reported by owner, use "O").
Source of measurement	R	Reported by person other than the owner, driller, or another government agency.
Source of measurement	S	Measured by personnel of reporting agency.
Source of measurement	U	Source is unknown.
Water-level approval status	А	Approved for publication Processing and review completed.

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U.S. Department of the Interior | U.S. Geological Survey Title: Groundwater for USA: Water Levels URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2019-07-19 12:41:59 EDT 0.88 0.6 nadww01 USA.gov



National Water Information System: Web Interface

USGS Water Resources

Data Category:	Geographic Area:		
Groundwater	United States	•	GO

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Groundwater levels for the Nation

Search Results -- 1 sites found

Agency code = usgs

Minimum number of levels = 1

Date range = 01/01/1994 . 07/19/2019 Save file of selected sites to local disk for future upload

USGS 324004104285801 19S.25E.16.22332

Eddy County, New Mexico Latitude 32°40'04", Longitude 104°28'58" NAD27 Land-surface elevation 3,487 feet above NAVD88 This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer. **Output formats**

Table of data	
Tab-separated data	
Graph of data	
Reselect period	

? Water Water level, 2 level, ? ? ? Waterfeet ? Referenced feet Date Time level above vertical Waterbelow Method of Measuring Source of datespecific datum Status level land measurement agency measure time vertical accuracy surface accuracy datum

1994-02-21	D	100.37	2	S	
1999-01-14	D	100.48	2	S	
2004-02-04	D	99.74	2	S	
2006-02-14 12:05 MST	m	98.53	2	S	Ν
2007-02-13 12:00 MST	m	99.24	2	S	N
2008-01-14 10:15 MST	m	97.04	2	S	Ν
2009-01-06 13:45 MST	m	89.77	2	S	N
2010-01-20 13:25 MST	m	96.84	2	S	Ν
2012-01-05 13:20 MST	m	95.67	2	S	٢

Explanation

7/19/2019

USGS Groundwater for USA: Water Levels -- 1 sites

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status		The reported water-level measurement represents a static level
Method of measurement	S	Steel-tape measurement.
Measuring agency		Not determined
Measuring agency	NM001	New Mexico State Engineers Office
Measuring agency	USGS	U.S. Geological Survey
Source of measurement	А	Reported by another government agency (do not use "A" if reported by owner, use "O").
Source of measurement	S	Measured by personnel of reporting agency.
Source of measurement	U	Source is unknown.
Water-level approval status	А	Approved for publication Processing and review completed.

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U.S. Department of the Interior | U.S. Geological Survey Title: Groundwater for USA: Water Levels URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2019-07-19 12:44:28 EDT 0.92 0.75 nadww01 USA.gov

APPENDIX C SAMPLING PROTOCOL & FIELD NOTES



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 Julie 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.

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 twelve (12) 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.

		5	SMA	Field Scr	eening			
Location Name: Julie # J	T			Date:	p1/ P1/ 7			
Sample Name:	Collection Time:	EC (mS)	Temp (°C)	PID Reading /PF	Sail Color	Primary Soil Type	Moisture Level	Other Remarks/Notes:
Sw 3.1	10:30			13.0	Light Dark Tan Brown Gray Olive Yellow Red	Gravel Rock Sand Silt Clay	Dry Moist Wet	
SW 3.2	10:33			10-9	Light Dark Tan Brown Gray Olive Yellow Red	Gravel Rock Sand Silt Clay	Dry Moist Wet	
SW 3.3	52:01			25	Light Dark Tan Brown Gray Olive Yellow Red	Gravel Rock Sand Silt Clay	Dry Moist Wet	
5W 3.4 🗶	10-45	D.091	31.2	b E1	Light Dark Tan Brown Gray Olive Yellow Red	Gravel Rock Sand Silt Clay	Dry Moist Wet	
1 2-10'	1240			heh	Light Dark Tan Brown Gray Olive Yellow Red	Gravel Rock Sand Silt Clay	Dry Moist Wet	
- CSJ -	1245			531	Light Dark Tan Brown Gray Olive Yellow Red	Gravel Rock Sand Silt Clay	Dry Moist Wet	
CS2.1×	1306	0.10	71.9	2.16	Light Dark Tan Brown Gray Olive Yellow Red	Gravel Rock Sand Silt Clay	Dry Moist Wet	
					Light Dark Tan Brown Gray Olive Yellow Red	Gravel Rock Sand Silt Clay	Dry Moist Wet	
					Light Dark Tan Brown Gray Olive Vellow Red	Gravel Rock Sand Silt Clay	Dry Moist Wet	

			FYVS	Field Scr	eening			
Location Name:				Date:				
Sample Name:	Collection Time:	EC (mS)	Temp (°C)	PID Reading /PF	Sail Calar	Primary Soil Type	Moisture Level	Other Remarks/Notes:
SW3-5 composite	1200	0.11	21.6	25.7	Light Dark Tan Brown Gray Olive Yeliow Red	Gravel Rock Sand Silt Clay	Dry Moist Wet	2
Swall - comp	1330			52.7	Light Dark Tan Brown Gray Olive Yellow Red	Graveł Rock Sand Silt Clay	Dry Moist Wet	
SW 2.2 - comp	1519	0.19	32.8	37.6	Light Dark Tan Brown Gray Olive Yellow Red	Gravel Rock Sand Silt Clay	Dry Moist Wet	
(S 2.1	1535			62.3	Light Dark Tan Brown Gray Olive Yellow Red	Gravel Rock Sand Silt Clay	Dry Moist Wet	
5W H.1	155 8			98.8	Light Dark Tan Brown Gray Olive Yellow Red	Gravel Rock Sand Silt Clay	Dry Moist Wet	
5w 4.2	622			e bb	Light Dark Tan Brown Gray Olive Yellow Red	Gravel Rock Sand Silt Clay	Dry Moist Wet	÷.,
5w 4.3 *	1646	0.16	25.2	12.7	Light Dark Tan Brown Gray Olive Yellow Red	Gravel Rock Sand Silt Clay	Dry Moist Wet	
					Light Dark Tan Brown Gray Olive Yellow Red	Gravel Rock Sand Silt Clay	Dry Moist Wet	
					Light Dark Tan Brown Gray Olive	Gravel Rock Sand Silt	Dry Moist	
					Yellow Red	Clay	Wet	

		>	1 2 10					
		5	N/A	Field Scr	eening			
Location Name:				Date:				
Sample Name:	Collection Time:	EC (mS)	Temp (°C)	PID Reading /PF	Soil Color	Primary Soil Type	Moisture Level	Other Remarks/Notes:
					Light Dark Tan Brown	Gravel Rock	Dry	
(1-11')	910			653	Gray Olive Yellow Red	Sand Silt Clay	Wet	
					Light Dark	Gravel Rock	Dry	
					Grav Olive	Sand Silt	Moist	
(1-12.	415			252	Yellow Red	Clay	Wet	
					Light Dark	Gravel Rock	ŧ	
	0 7 7			, ,	Gray Olive	Sand Silt	Moist	
	19-0	0.00	9.0	54.6	Yellow Red			
					Light Dark Tan Brown	Gravel Rock	Dry	
L - 3.5	6200			206	Gray Olive Yellow Red	Sand Silt Clay	Wet	
					Light Dark	Gravel Rock	חיע	
L - H	0945			5	Grav Olive	Sand Silt	Moist	
				144	Yellow Red	Clay	Wet	
	Š)))) 		Light Dark Tan Brown	Gravel Rock	Dry	
	loco	C.a.T	d/	50.0	Gray Olive Yellow Red	Clay	Wet	
<u> </u>			00		Light Dark	Gravel Rock	Dry	
X 21-17	0/01	6.25	20- (39.4	Gray Olive Yellow Red	Sand Silt Clay	Moist Wet	
3					Light Dark	Grave! Rock	Dry	
5w4 - 5	1045	0,11	22.8	29	Gray Olive Yellow Red	Sand Silt Clay	Moist Wet	
				0	Light Dark	Gravel Rock	Dry	
SW 3-5 comp	1126			67.1	Gray Olive	Sand Silt Clay	Moist Wet	
	Č.				1 - 110 - 11			

	1				:			
		5	SMA	Field Scr	eening	3		
Location Name: Julie #1	1			Date:	2/17/1c			
Sample Name:	Collection Time:	EC (mS)	Temp (°C)	PID Reading /PF	Sail Calar	Primary Soil Type	Moisture Level	Other Remarks/Notes:
1 12-6,	1130	0,13	25	31.7	Light Dark Tan Brown Gray Olive Yellow Red	Gravel Rock Sand Silt Clay	Dry Moist Wet	
* Sw-1	1135	0.1	25.9	30.1	Light Dark Tan Brown Gray Olive Yellow Red	Gravel Rock Sand Silt Clay	Dry Moist Wet	
SW 2 Composite	1225	11.0	20.2	7.8	Light Dark Tan Brown Gray Olive Yellow Red	Gravel Rock Sand Silt Clay	Dry Moist Wet	
Sw3 1	1600	1	40	186	Light Dark Tan Brown Gray Olive Yellow Red	Gravel Rock Sand Silt Clay	Dry Moist Wet	
L1-6'	1550			(400	Light Dark Tan Brown Gray Olive Yellow Red	Gravel Rock Sand Silt Clay	Dry Moist Wet	
61-8	626	 		£818	Light Dark Tan Brown Gray Olive Yellow Red	Gravel Rock Sand Silt Clay	Dry Moist Wet	
1-1	1635			1013	Light Dark Tan Brown Gray Olive Yellow Red	Gravel Rock Sand Silt Clay	Dry Moist Wet	
L - 10	635			1813	Light Dark Fan Brown Gray Olive fellow Red	Gravel Rock Sand Silt Clay	Dry Moist Wet	
					-Ight Dark Fan Brown Sray Olive fellow Red	Gravel Rock Sand Silt Clay	Dry Molst Wet	

APPENDIX D LABORATORY ANALYTICAL REPORTS



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

January 17, 2019

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

RE: Julie 1

OrderNo.: 1901421

Dear Heather Patterson:

Hall Environmental Analysis Laboratory received 4 sample(s) on 1/11/2019 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 <u>www.hallenvironmental.com</u> or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/17/2019

CLIENT: Souder, Miller & Associates		Cli	ient Sa	imple II): L1-	-2 0/2019 10:30:00 AM	
Lab ID: 1901421-001	Matrix: SOIL	(Receiv	ved Date	e: 1/1	1/2019 9:00:00 AM	
Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	MRA
Chloride	5500	300		mg/Kg	200	1/16/2019 7:02:39 PM	42605
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS					Analyst	Irm
Diesel Range Organics (DRO)	1100	99		mg/Kg	10	1/15/2019 9:21:44 AM	42564
Motor Oil Range Organics (MRO)	690	500		mg/Kg	10	1/15/2019 9:21:44 AM	42564
Surr: DNOP	0	50.6-138	S	%Rec	10	1/15/2019 9:21:44 AM	42564
EPA METHOD 8015D: GASOLINE RANGE	E					Analyst	NSB
Gasoline Range Organics (GRO)	15000	2300		mg/Kg	500	1/15/2019 5:59:24 PM	42555
Surr: BFB	136	73.8-119	S	%Rec	500	1/15/2019 5:59:24 PM	42555
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	590	12		mg/Kg	500	1/14/2019 5:36:48 PM	42555
Toluene	1500	23		mg/Kg	500	1/14/2019 5:36:48 PM	42555
Ethylbenzene	300	4.6		mg/Kg	100	1/14/2019 10:09:33 AM	42555
Xylenes, Total	1100	9.3		mg/Kg	100	1/14/2019 10:09:33 AM	42555
Surr: 4-Bromofluorobenzene	156	80-120	S	%Rec	100	1/14/2019 10:09:33 AM	42555

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 D
- Н
- Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 1 of 8 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/17/2019

CLIENT: S	Souder, Miller & Associates		Cl	ient Sa	ample II): L1-	-4	
Project: J	ulie 1		(Collect	ion Dat	e: 1/1	0/2019 10:41:00 AM	
Lab ID: 1	901421-002	Matrix: SOIL		Receiv	ved Dat	e: 1/1	1/2019 9:00:00 AM	
Analyses		Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METH	OD 8015M/D: DIESEL RANGE	ORGANICS					Analyst	: Irm
Diesel Ran	ge Organics (DRO)	2900	100	D	mg/Kg	10	1/15/2019 9:53:09 AM	42564
Motor Oil R	Range Organics (MRO)	ND	500	D	mg/Kg	10	1/15/2019 9:53:09 AM	42564
Surr: DN	IOP	0	50.6-138	SD	%Rec	10	1/15/2019 9:53:09 AM	42564
EPA METH	OD 8015D: GASOLINE RANG	E					Analyst	NSB
Gasoline R	ange Organics (GRO)	24000	4600		mg/Kg	1E	1/15/2019 7:53:00 PM	42555
Surr: BF	В	126	73.8-119	S	%Rec	1E	1/15/2019 7:53:00 PM	42555
EPA METH	OD 8021B: VOLATILES						Analyst	NSB
Benzene		1200	23		mg/Kg	1E	1/14/2019 6:00:25 PM	42555
Toluene		2500	46		mg/Kg	1E	1/14/2019 6:00:25 PM	42555
Ethylbenze	ene	390	4.6		mg/Kg	100	1/14/2019 10:33:23 AM	42555
Xylenes, To	otal	1400	93		mg/Kg	1E	1/14/2019 6:00:25 PM	42555
Surr: 4-E	Bromofluorobenzene	162	80-120	S	%Rec	100	1/14/2019 10:33:23 AM	42555

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 Page 2 of 8
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/17/2019

CLIENT: Souder, Miller & Associates		Cl	ient Sample II): L2	2-6	
Project: Julie 1		(Collection Date	e: 1/1	10/2019 11:05:00 AM	
Lab ID: 1901421-003	Matrix: SOIL		Received Date	e: 1/1	1/2019 9:00:00 AM	
Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGI	E ORGANICS				Analyst	: Irm
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	1/14/2019 4:51:49 PM	42564
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	1/14/2019 4:51:49 PM	42564
Surr: DNOP	97.3	50.6-138	%Rec	1	1/14/2019 4:51:49 PM	42564
EPA METHOD 8015D: GASOLINE RANG	E				Analyst	: NSB
Gasoline Range Organics (GRO)	7.5	4.9	mg/Kg	1	1/15/2019 8:15:42 PM	42555
Surr: BFB	117	73.8-119	%Rec	1	1/15/2019 8:15:42 PM	42555
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	0.11	0.024	mg/Kg	1	1/14/2019 6:24:03 PM	42555
Toluene	0.54	0.049	mg/Kg	1	1/14/2019 6:24:03 PM	42555
Ethylbenzene	0.22	0.049	mg/Kg	1	1/14/2019 6:24:03 PM	42555
Xylenes, Total	0.96	0.098	mg/Kg	1	1/14/2019 6:24:03 PM	42555
Surr: 4-Bromofluorobenzene	102	80-120	%Rec	1	1/14/2019 6:24:03 PM	42555

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 D
- Н
- Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 3 of 8 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/17/2019

CLIENT: Souder, Miller & Associates		Cl	ient Sample II): L2	-8	
Lab ID: 1901421-004	Matrix: SOIL	,	Received Date	e: 1/1	1/2019 9:00:00 AM	
Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: smb
Chloride	100	30	mg/Kg	20	1/15/2019 2:06:24 PM	42605
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	: Irm
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	1/14/2019 5:16:01 PM	42564
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	1/14/2019 5:16:01 PM	42564
Surr: DNOP	88.5	50.6-138	%Rec	1	1/14/2019 5:16:01 PM	42564
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	1/15/2019 8:38:23 PM	42555
Surr: BFB	104	73.8-119	%Rec	1	1/15/2019 8:38:23 PM	42555
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	0.097	0.025	mg/Kg	1	1/14/2019 6:47:38 PM	42555
Toluene	0.44	0.050	mg/Kg	1	1/14/2019 6:47:38 PM	42555
Ethylbenzene	0.12	0.050	mg/Kg	1	1/14/2019 6:47:38 PM	42555
Xylenes, Total	0.47	0.10	mg/Kg	1	1/14/2019 6:47:38 PM	42555
Surr: 4-Bromofluorobenzene	96.6	80-120	%Rec	1	1/14/2019 6:47:38 PM	42555

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 D
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 4 of 8 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client:	Souder,	der, Miller & Associates 2 1							
Project:	Julie I								
Sample ID	MB-42605	SampType: MBL	к	TestCode	EPA Method	300.0: Anions	;		
Client ID:	PBS	Batch ID: 4260	5	RunNc	57023				
Prep Date:	1/15/2019	Analysis Date: 1/15	/2019	SeqNo	: 1907760	Units: mg/Kg	9		
Analyte		Result PQL S	PK value SF	PK Ref Val %RI	EC LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND 1.5							
Sample ID	LCS-42605	SampType: LCS		TestCode	EPA Method	300.0: Anions	5		
Client ID:	LCSS	Batch ID: 4260	5	RunNc	57023				
Prep Date:	1/15/2019	Analysis Date: 1/15	/2019	SeqNo	1907761	Units: mg/Kg	9		
Analyte		Result PQL S	PK value SF	PK Ref Val %RI	EC LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14 1.5	15.00	0 93	3.7 90	110			

Qualifiers:

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

Page 5 of 8

Client:	Souder, N	Ailler & A	ssociate	es							
Project:	Julie 1										
Sample ID LCS-42	2564	SampT	Type: LC	s	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: LCSS		Batcl	h ID: 42	564	F	RunNo: 5	6978				
Prep Date: 1/11/2	2019	Analysis E	Date: 1/	/14/2019	5	SeqNo: 1	906020	Units: mg/ł	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics ((DRO)	42	10	50.00	0	83.6	70	130			
Surr: DNOP		4.7		5.000		94.1	50.6	138			
Sample ID MB-42	564	SampT	Гуре: М	BLK	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: PBS		Batcl	h ID: 42	564	F	RunNo: 5	6978				
Prep Date: 1/11/2	2019	Analysis E	Date: 1/	/14/2019	S	SeqNo: 1	906021	Units: mg/ł	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics ((DRO)	ND	10								
Motor Oil Range Organio	cs (MRO)	ND	50								
Surr: DNOP		9.4		10.00		94.0	50.6	138			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified
- Page 6 of 8

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

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Chent: Project:	Souder, Julie 1	Miller & Ass	sociate	es							
Sample ID	MB-42579	SampTy	pe: ME	BLK	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	e	
Client ID:	PBS	Batch	ID: 42	579	F	RunNo: 5	7015				
Prep Date:	1/14/2019	Analysis Da	ite: 1/	15/2019	S	SeqNo: 1	907269	Units: %Re	с		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		1000		1000		100	73.8	119			
Sample ID	LCS-42579	SampTy	pe: LC	S	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	e	
Client ID:	LCSS	Batch	ID: 42	579	F	RunNo: 5	7015				
Prep Date:	1/14/2019	Analysis Da	ite: 1/	15/2019	S	SeqNo: 1	907270	Units: %Re	с		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		1100		1000		115	73.8	119			
Sample ID	MB-42555	SampTy	pe: ME	BLK	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	e	
Sample ID Client ID:	MB-42555 PBS	SampTy Batch	pe: ME ID: 42	3LK 555	Tes F	tCode: El RunNo: 5	PA Method 7016	8015D: Gaso	oline Rang	e	
Sample ID Client ID: Prep Date:	MB-42555 PBS 1/11/2019	SampTy Batch Analysis Da	pe: ME ID: 42 ite: 1/	3LK 555 15/2019	Tes F S	tCode: El RunNo: 5 SeqNo: 1	PA Method 7016 907340	8015D: Gaso Units: mg/F	bline Rang	e	
Sample ID Client ID: Prep Date: Analyte	MB-42555 PBS 1/11/2019	SampTy Batch Analysis Da Result	pe: ME ID: 42 ite: 1/ PQL	BLK 555 15/2019 SPK value	Tes F S SPK Ref Val	tCode: El RunNo: 5 SeqNo: 1 %REC	PA Method 7016 907340 LowLimit	8015D: Gaso Units: mg/k HighLimit	oline Rang (g %RPD	e RPDLimit	Qual
Sample ID Client ID: Prep Date: Analyte Gasoline Rang	MB-42555 PBS 1/11/2019 e Organics (GRO)	SampTy Batch Analysis Da Result ND	pe: ME ID: 42: ite: 1/ PQL 5.0	3LK 555 15/2019 SPK value	Tes F S SPK Ref Val	tCode: El RunNo: 5 SeqNo: 1 %REC	PA Method 7016 907340 LowLimit	8015D: Gaso Units: mg/ł HighLimit	oline Rang (g %RPD	e RPDLimit	Qual
Sample ID Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB	MB-42555 PBS 1/11/2019 e Organics (GRO)	SampTy Batch Analysis Da Result ND 910	pe: ME ID: 42 Ite: 1/ PQL 5.0	BLK 555 15/2019 SPK value 1000	Tes F SPK Ref Val	tCode: El RunNo: 5 SeqNo: 1 %REC 90.6	PA Method 7016 907340 LowLimit 73.8	8015D: Gaso Units: mg/ł HighLimit 119	oline Rang Kg %RPD	e RPDLimit	Qual
Sample ID Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB Sample ID	MB-42555 PBS 1/11/2019 e Organics (GRO) LCS-42555	SampTy Batch Analysis Da Result ND 910 SampTy	pe: ME ID: 42: Ite: 1/ PQL 5.0 pe: LC	BLK 555 15/2019 SPK value 1000	Tes F SPK Ref Val Tes	tCode: El RunNo: 5 SeqNo: 1 %REC 90.6 tCode: El	PA Method 7016 907340 LowLimit 73.8 PA Method	8015D: Gaso Units: mg/k HighLimit 119 8015D: Gaso	oline Rang (g %RPD oline Rang	e RPDLimit e	Qual
Sample ID Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB Sample ID Client ID:	MB-42555 PBS 1/11/2019 e Organics (GRO) LCS-42555 LCSS	SampTy Batch Analysis Da Result ND 910 SampTy Batch	pe: ME ID: 42: Ite: 1/ PQL 5.0 pe: LC ID: 42:	BLK 555 15/2019 SPK value 1000 SS 555	Tes F SPK Ref Val Tes F	tCode: El RunNo: 5 SeqNo: 1 %REC 90.6 tCode: El RunNo: 5	PA Method 7016 907340 LowLimit 73.8 PA Method 7016	8015D: Gaso Units: mg/F HighLimit 119 8015D: Gaso	oline Rang Kg %RPD Dine Rang	e RPDLimit e	Qual
Sample ID Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB Sample ID Client ID: Prep Date:	MB-42555 PBS 1/11/2019 e Organics (GRO) LCS-42555 LCSS 1/11/2019	SampTy Batch Analysis Da Result ND 910 SampTy Batch Analysis Da	pe: ME ID: 42: tite: 1/ PQL 5.0 pe: LC ID: 42: tite: 1/	BLK 555 15/2019 SPK value 1000 SS 555 15/2019	Tes F SPK Ref Val Tes F S	tCode: El RunNo: 5 SeqNo: 1 %REC 90.6 tCode: El RunNo: 5 SeqNo: 1	PA Method 7016 907340 LowLimit 73.8 PA Method 7016 907341	8015D: Gaso Units: mg/k HighLimit 119 8015D: Gaso Units: mg/k	oline Rang (g %RPD oline Rang	e RPDLimit e	Qual
Sample ID Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB Sample ID Client ID: Prep Date: Analyte	MB-42555 PBS 1/11/2019 e Organics (GRO) LCS-42555 LCSS 1/11/2019	SampTy Batch Analysis Da Result ND 910 SampTy Batch Analysis Da Result	pe: ME ID: 42: tte: 1/ PQL 5.0 pe: LC ID: 42: tte: 1/ PQL	3LK 555 15/2019 SPK value 1000 :S 555 15/2019 SPK value	Tes F SPK Ref Val Tes F SPK Ref Val	tCode: El RunNo: 5 SeqNo: 1 %REC 90.6 tCode: El RunNo: 5 SeqNo: 1 %REC	PA Method 7016 907340 LowLimit 73.8 PA Method 7016 907341 LowLimit	8015D: Gaso Units: mg/k HighLimit 119 8015D: Gaso Units: mg/k HighLimit	Soline Rang %RPD Soline Rang %RPD	e RPDLimit e RPDLimit	Qual
Sample ID Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB Sample ID Client ID: Prep Date: Analyte Gasoline Rang	MB-42555 PBS 1/11/2019 e Organics (GRO) LCS-42555 LCSS 1/11/2019 e Organics (GRO)	SampTy Batch Analysis Da Result ND 910 SampTy Batch Analysis Da Result 26	pe: ME ID: 42: tte: 1/ PQL 5.0 pe: LC ID: 42: tte: 1/ PQL 5.0	3LK 555 15/2019 SPK value 1000 :S 555 15/2019 SPK value 25.00	Tes F SPK Ref Val Tes F SPK Ref Val 0	tCode: El RunNo: 5 SeqNo: 1 %REC 90.6 tCode: El RunNo: 5 SeqNo: 1 %REC 103	PA Method 7016 907340 LowLimit 73.8 PA Method 7016 907341 LowLimit 80.1	8015D: Gaso Units: mg/k HighLimit 119 8015D: Gaso Units: mg/k HighLimit 123	oline Rang %RPD oline Rang %RPD	e RPDLimit e RPDLimit	Qual

Qualifiers:

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

Page 7 of 8

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client:	Souder, I	Miller & A	ssociate	es							
Project:	Julie 1										
Sample ID	MB-42555	SampT	ype: ME	BLK	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID:	PBS	Batch	h ID: 42	555	F	RunNo: 5	6983				
Prep Date:	1/11/2019	Analysis D	Date: 1/	14/2019	S	SeqNo: 1	906183	Units: mg/k	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-Bron	nofluorobenzene	1.0		1.000		104	80	120			
Sample ID	LCS-42555	SampT	ype: LC	s	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID:	LCSS	Batch	h ID: 42	555	F	RunNo: 5	6983				
Prep Date:	1/11/2019	Analysis D	Date: 1/	14/2019	5	SeqNo: 1	906184	Units: mg/	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	80	120			
Toluene		0.97	0.050	1.000	0	97.0	80	120			
Ethylbenzene		0.97	0.050	1.000	0	97.2	80	120			
Xylenes, Total		3.0	0.10	3.000	0	99.2	80	120			
Surr: 4-Bron	nofluorobenzene	1.1		1.000		107	80	120			
Sample ID	MB-42579	SampT	ype: ME	BLK	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID:	PBS	Batch	h ID: 42	579	F	RunNo: 5	7015				
Prep Date:	1/14/2019	Analysis D	Date: 1/	15/2019	S	SeqNo: 1	907310	Units: % Re	C		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bron	nofluorobenzene	1.0		1.000		101	80	120			
Sample ID	LCS-42579	SampT	ype: LC	s	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID:	LCSS	Batch	h ID: 42	579	F	RunNo: 5	7015				
Prep Date:	1/14/2019	Analysis D	Date: 1/	15/2019	S	SeqNo: 1	907311	Units: %Re	C		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bron	nofluorobenzene	1.1		1.000		106	80	120			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix D

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

- Practical Quanitative Limit PQL
- S % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank

Е Value above quantitation range

- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Page 8 of 8

WO#: 17-Jan-19

HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environme TEL: 505-345-, Website: ww	ental Analysis Labora 4901 Hawkin. Albuquerque, NM 87 3975 FAX: 505-345-4 w.hallenvironmental.	utory s NE 7109 San 4107 .com	Sample Log-In Check List					
Client Name: SMA-CARLSBAD	Work Order Num	iber: 1901421		RcptNo: 1					
Received By: Desiree Dominguez Completed By: Erin Melendrez	z 1/11/2019 9:00:00 1/11/2019 10:05:2	AM 9 AM	Ba						
LB: DAD 1/11/19									
Chain of Custody									
1. Is Chain of Custody complete?		Yes 🗹	No 🗌	Not Present					
2. How was the sample delivered?		Courier							
Log In			N. [""]						
J. Was an attempt made to cool the sa	mpies?	Yes 🔽							
4. Were all samples received at a temp	erature of >0° C to 6.0°C	Yes 🔽	No 🗌						
5. Sample(s) in proper container(s)?		Yes 🗹	No 🗌						
6. Sufficient sample volume for indicate	d test(s)?	Yes 🖌	No 🗌						
7. Are samples (except VOA and ONG)	properly preserved?	Yes 🗹	No 🛄						
8. Was preservative added to bottles?		Yes 🗌	No 🗹	NA 🗌					
9. VOA vials have zero headspace?		Yes	No 🗌	No VOA Vials 🗹					
10. Were any sample containers receive	d broken?	Yes 🗌	No 🗹	# of preserved					
11. Does paperwork match bottle labels? (Note discrepancies on chain of custo) pdv)	Yes 🗹	• No 🗌	for pH: (<2 or ≥	2 unless noted)				
12. Are matrices correctly identified on C	hain of Custody?	Yes 🗹	No 🗔	Adjusted?					
13. Is it clear what analyses were reques	ted?	Yes 🗹	No 🗆						
14. Were all holding times able to be met (If no, notify customer for authorization	t? on.)	Yes 🗹	No 🗌	Checked by: DP	10 1/11/19				
Special Handling (if applicable)									
15. Was client notified of all discrepance	es with this order?	Yes 🗌	No 🗌	NA 🗹					
Person Notified: By Whom: Regarding: Client Instructions:	Date Via:	eMail P	hone 🗍 Fax	In Person					
16. Additional remarks:									
17. Cooler Information									

 Cooler No
 Temp %
 Condition
 Seal Intact
 Seal No
 Seal Date
 Signed By

 1
 3.1
 Good
 Not Present
 Image: Condition
 Seal No
 Seal Date
 Signed By

ວັ	ain-c	of-C(ust	ody Re	ecord	Turn-Aroun	d Time:	I das 3	Lung		Ľ.		i I								1	
Client: <	S.M.	4	\Box	ber (□ Standar	d 🛛 Ru	sh						∃ Ā	Z	5 2	X ₹			ĒË	70	
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Mailing A	ddress:					(⁻)	ر م ز	/#			4901	Hawl	vwv V	v.nall uF	alhin	unme n	ntal. I e l	om M 87	001			
						Project #:		• ,			Tel.	505-3	45-33	975 975	Ea.	x 20	- 24 5-34	5-4107	3			
Phone #:														Ar	alysi	s Re	due	st				
email or F	Fax#:					Project Man	lager:			()	(0				⁺O		(tr					
QA/QC Pa	ackage: ard			Level 4 (Ful	ll Validation)	Hea	Heil	h Hen	du	.208) s'			SMISC		 S '⁺Od							
Accredita	ution:	D Az Co Other	cmpli ar	iance		Sampler: On Ice:	Hmy west			amt .	2808/ 2808/	(1.4()7 <u>2</u> 8 10		^{'7} ON	(6						
	Type)					# of Coolers	i S S	2		BE /	eeki Sehi)g po	01:	slais	10 ³	0/\-	i) w.					
						Cooler Tem	D(malualing CF):	3, l°C	3.9° C	TM /	Ditee Ditee	yətho	by 83	9M 8	Br, 1	ime2	ofilo					
Date T	ïme M	/atrix	Sa	mple Nan	ne	Container Type and #	Preservativ Type		AL No.	BTEX	8:H9T 1 1808	EDB (I	۶HA۹	∀ыск) 0228) letoT		<u> </u>		-	
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Date: Ti	me: Ma	elinduish	the by	, \		Received a	Via: Courier	'Daté 1 / 11 / Î	Time 1992:00													
	ecéssary, sai	Ins spids	ubmitted	to Hall Environr	mental may be subc	ontracted to other	accredited laborat	ories. This serve	es as notice of this	s possibili	ty. Any	sub-con	tracted	data w	ll be cle	arly noi	tated o	n the ana	lytical re	sport.		I



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

May 06, 2019

Jacqui Haris Souder, Miller & Associates 201 S Halagueno Carlsbad, NM 88221 TEL: FAX

OrderNo.: 1904D90

RE: Julie 1

Dear Jacqui Haris:

Hall Environmental Analysis Laboratory received 2 sample(s) on 4/30/2019 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

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/6/2019

CLIENT: Souder, Miller & Associates		Cl	ient Sample II): BF	H1@ 8'	
Project: Julie 1		(Collection Dat	e: 4/2	26/2019 10:48:00 AM	
Lab ID: 1904D90-001	Matrix: SOIL		Received Date	e: 4/3	80/2019 9:00:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analysi	: MRA
Chloride	370	60	mg/Kg	20	5/1/2019 9:31:58 PM	44662
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	: TOM
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	5/1/2019 8:17:51 PM	44624
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	5/1/2019 8:17:51 PM	44624
Surr: DNOP	71.3	70-130	%Rec	1	5/1/2019 8:17:51 PM	44624
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/2/2019 1:45:43 AM	44616
Surr: BFB	89.0	73.8-119	%Rec	1	5/2/2019 1:45:43 AM	44616
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	5/2/2019 1:45:43 AM	44616
Toluene	ND	0.050	mg/Kg	1	5/2/2019 1:45:43 AM	44616
Ethylbenzene	ND	0.050	mg/Kg	1	5/2/2019 1:45:43 AM	44616
Xylenes, Total	ND	0.10	mg/Kg	1	5/2/2019 1:45:43 AM	44616
Surr: 4-Bromofluorobenzene	89.2	80-120	%Rec	1	5/2/2019 1:45:43 AM	44616

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

- 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

S % Recovery outside of range due to dilution or matrix

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/6/2019

CLIENT: Souder, Miller & Associates		Cl	ient Sa	mple II	D: BF	H1@ 10'	
Project: Julie 1		(Collect	ion Dat	e: 4/2	26/2019 11:05:00 AM	
Lab ID: 1904D90-002	Matrix: SOIL		Recei	ved Dat	e: 4/3	80/2019 9:00:00 AM	
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analysi	MRA
Chloride	180	60		mg/Kg	20	5/1/2019 9:44:23 PM	44662
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS					Analyst	: ТОМ
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	5/4/2019 3:13:03 AM	44624
Motor Oil Range Organics (MRO)	ND	49 mg/Kg				5/4/2019 3:13:03 AM	44624
Surr: DNOP	63.1	70-130	S	%Rec	1	5/4/2019 3:13:03 AM	44624
EPA METHOD 8015D: GASOLINE RANGE	E					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/2/2019 2:09:10 AM	44616
Surr: BFB	90.5	73.8-119		%Rec	1	5/2/2019 2:09:10 AM	44616
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	0.024		mg/Kg	1	5/2/2019 2:09:10 AM	44616
Toluene	ND	0.048		mg/Kg	1	5/2/2019 2:09:10 AM	44616
Ethylbenzene	ND	0.048		mg/Kg	1	5/2/2019 2:09:10 AM	44616
Xylenes, Total	ND	0.096		mg/Kg	1	5/2/2019 2:09:10 AM	44616
Surr: 4-Bromofluorobenzene	91.3	80-120		%Rec	1	5/2/2019 2:09:10 AM	44616

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 2 of 6

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client:	Souder,	Miller & As	ssociate	es								
Project:	Julie I											_
Sample ID:	MB-44662	SampT	ype: m t	olk	Tes	tCode: El	PA Method	300.0: Anion	S			
Client ID:	PBS	Batch	n ID: 44	662	F	RunNo: 5 9	9556					
Prep Date:	5/1/2019	Analysis D	ate: 5/	1/2019	S	SeqNo: 2	007930	Units: mg/K	٤g			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Chloride		ND	1.5									
Sample ID:	LCS-44662	SampT	ype: Ics	5	Tes	tCode: El	PA Method	300.0: Anion	s			-
Client ID:	LCSS	Batch	n ID: 44	662	F	RunNo: 5 9	9556					
Prep Date:	5/1/2019	Analysis D	ate: 5/	1/2019	S	SeqNo: 2	007931	Units: mg/K	٤g			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Chloride		14	1.5	15.00	0	94.9	90	110				

Qualifiers:

- Value exceeds Maximum Contaminant Level. *
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- 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

06-May-19

1904D90

WO#:

Page 3 of 6

RL Reporting Limit

WO#:	1904D90

Client: So	uder, Miller & Asso	ciate	es							
Project: Jul	ie 1									
Sample ID: LCS-44624	SampType	: LC	S	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: LCSS	Batch ID	: 44	624	F	unNo: 5	9549				
Prep Date: 4/30/2019	Analysis Date	: 5/	1/2019	5	eqNo: 2	006946	Units: mg/ #	٢g		
Analyte	Result P	QL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO	48	10	50.00	0	96.3	63.9	124			
Surr: DNOP	3.8		5.000		75.6	70	130			
Sample ID: MB-44624	SampType	: ME	BLK	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: PBS	Batch ID	: 44	624	F	unNo: 5	9549				
Prep Date: 4/30/2019	Analysis Date	: 5/	1/2019	5	eqNo: 2	006948	Units: mg/k	٢g		
Analyte	Result P	QL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO) ND	10								
Motor Oil Range Organics (M	RO) ND	50								
Surr: DNOP	8.2		10.00		81.9	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- 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

WO#:	1904D90

Client:	Souder, N	/liller & A	ssociate	s							
Project:	Julie 1										
Sample ID: LC	CS-44616	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015D: Gasc	line Rang	e	
Client ID: LC	CSS	Batch	n ID: 44	616	F	RunNo: 5	9560				
Prep Date: 4	4/30/2019	Analysis D	Date: 5/	1/2019	S	SeqNo: 2	008126	Units: mg/K	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range O	organics (GRO)	24	5.0	25.00	0	97.8	80.1	123			
Surr: BFB		1000		1000		101	73.8	119			
Sample ID: MI	B-44616	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015D: Gasc	line Rang	e	
Client ID: PE	BS	Batch	n ID: 44	616	F	RunNo: 5	9560				
Prep Date: 4	4/30/2019	Analysis D	Date: 5/	1/2019	S	SeqNo: 2	008129	Units: mg/K	íg		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range O	Organics (GRO)	ND	5.0								
Surr: BFB		890		1000		88.9	73.8	119			

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

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Souder, Miller & Associates

Qualifiers:

Client:

- 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

Project: Julie 1	l									
Sample ID: LCS-44616	Samp	Type: LC	S	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Batc	h ID: 44	616	F	RunNo: 5	9560				
Prep Date: 4/30/2019	Analysis [Date: 5/	1/2019	S	SeqNo: 2	008175	Units: mg/k	٤g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.025	1.000	0	91.0	80	120			
Toluene	0.94	0.050	1.000	0	93.9	80	120			
Ethylbenzene	0.94	0.050	1.000	0	93.7	80	120			
Xylenes, Total	2.8	0.10	3.000	0	94.2	80	120			
Surr: 4-Bromofluorobenzene	0.92		1.000		92.2	80	120			
Sample ID: MB-44616	Samp	Туре: МЕ	BLK	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: PBS	Batc	h ID: 44	616	F	RunNo: 5	9560				
Prep Date: 4/30/2019	Analysis [Date: 5/	1/2019	S	SeqNo: 2	008177	Units: mg/k	٤g		
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	0.89		1.000		89.2	80	120			

WO#: 1904D90

06-May-19

HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environmental . Albu TEL: 505-345-3975 Website: www.hat	Analysis Laborat 4901 Hawkins querque, NM 87 FAX: 505-345-41 llenvironmental.c	ory NE 109 San 107 om	nple Log-In C	heck List
Client Name: SMA-CARLSBAD Wo	ork Order Number:	1904D90		RcptNo:	1
Received By: Isaiah Ortiz 4/30/2	2019 9:00:00 AM		I_O	\prec	
Completed By: Victoria Zellar 4/30/2	2019 9:19:41 AM		Victoria Bel	lan 1 0	1
Reviewed By: DAD 4/30/19				ENM	4/30/19
<u>Chain of Custody</u>			_		Tradeauseniewski sta
1. Is Chain of Custody complete?		Yes 🖌	No 🗌	Not Present	
2. How was the sample delivered?		<u>Courier</u>			
<u>Log In</u>					
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 🗌		
5. Sample(s) in proper container(s)?		Yes 🗹	No 🗌		
6. Sufficient sample volume for indicated test(s)?		Yes 🔽	No 🗌		
7. Are samples (except VOA and ONG) properly preser	rved?	Yes 🗹	No 🗌		
8. Was preservative added to bottles?		Yes	No 🔽	NA	
9 VOA vials have zero headenace?	16	Vaa 🗌			
10. Were any sample containers received broken?					
		103		# of preserved	10
11. Does paperwork match bottle labels?	3	Yes 🗸	No 🗌	for pH:	2011
(Note discrepancies on chain of custody)				(<2 pr	12 unless noted)
12. Are matrices correctly identified on Chain of Custody	17	Yes 🗹			
14. Were all holding times able to be met?		Yes V		Checked by:	
(If no, notify customer for authorization.)				y	
Special Handling (if applicable)					
15. Was client notified of all discrepancies with this orde	er?	Yes	No 🗌	NA 🗹	_
Person Notified:	Date:				
By Whom:	Via:	eMail 🗌 Pho	one 🗌 Fax	In Person	
Regarding:					
Client Instructions:					
16. Additional remarks:					
17. Cooler Information					
Cooler No Temp °C Condition Seal Intac	t Seal No Se	eal Date S	Signed By		
1 0.1 Good Yes					

	ANALYSIS LABORATORY	www.hallenvironmental.com	vkins NE - Albuquerque, NM 87109	345-3975 Fax 505-345-4107	Analysis Request	,tn	ZMI20 Z ,₄Oq 92dA\tr	01 827 01 827 , NO ₂ , , Presei		y 83 Me Mo Mo Mifoi Mifoi	PAHs by RCRA 8 CDF, B 8260 (V 8260 (V 70tal Cc	×							ucid		PLI TO LACIO morrared data will be clearly instant on the analytical report
			101 Haw	el. 505-			PCB's	2808/s	eebi:	oite	8081 Pe					 			J .:s:	(the con-	Any slib-or
			40	Н		(0) (1)	208) e'i 7M \ OS	AD \ DF	פא) דב	TM	BTEX)	44	44			 	 	 	Remark	/	Acceler lility
Turn-Around Time: 5 day	□ Standard 🗹 Rush	Project Name:	Judie #1	Project #:		Project Manager:	Lacqui Harris	Sampler: LS On Ice: A Yes D No	# of Coolers: ((-O.1.)	Cooler Temp(including CF):	Container Preservative 004000	Glass 4cr - COV	$CUU \uparrow$						Received by Via: Date Time F	Received by: Via: Date Time	1. O OUTIU 430/19 2900
Chain-of-Custody Record	Client: SMA		Mailing Address: Cav 15/2ad		Phone #:	email or Fax#:	QA/QC Package:	Accreditation:	EDD (Type)		Date Time Matrix Sample Name	HIRLIA 10:48 201 BHI @ 8'	4/19/19 11:05 Seil BHI @ 10'						Date: Time: Relinquished by:	Date: Time: Relinquished by:	121/1 (94) AM



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

July 30, 2019

Heather Patterson Souder, Miller & Associates 201 S Halagueno Carlsbad, NM 88221 TEL: FAX:

RE: Julie 1

OrderNo.: 1907B38

Dear Heather Patterson:

Hall Environmental Analysis Laboratory received 6 sample(s) on 7/23/2019 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

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 7/30/2019

CLIENT: Souder, Miller & Associates		Client Sample ID: CL 1-15									
Project: Julie 1		(Collection Date	e: 7/1	9/2019 10:10:00 AM						
Lab ID: 1907B38-001	Matrix: SOIL		Received Dat	e: 7/2	23/2019 8:50:00 AM						
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch					
EPA METHOD 300.0: ANIONS					Analyst	CAS					
Chloride	ND	60	mg/Kg	20	7/26/2019 3:39:06 PM	46414					
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	BRM					
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	7/26/2019 1:17:54 PM	46394					
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	7/26/2019 1:17:54 PM	46394					
Surr: DNOP	85.9	70-130	%Rec	1	7/26/2019 1:17:54 PM	46394					
EPA METHOD 8015D: GASOLINE RANG	E				Analyst	: NSB					
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	7/24/2019 2:03:44 PM	46343					
Surr: BFB	109	73.8-119	%Rec	1	7/24/2019 2:03:44 PM	46343					
EPA METHOD 8021B: VOLATILES					Analyst	: NSB					
Benzene	ND	0.025	mg/Kg	1	7/24/2019 2:03:44 PM	46343					
Toluene	ND	0.050	mg/Kg	1	7/24/2019 2:03:44 PM	46343					
Ethylbenzene	ND	0.050	mg/Kg	1	7/24/2019 2:03:44 PM	46343					
Xylenes, Total	ND	0.099	mg/Kg	1	7/24/2019 2:03:44 PM	46343					
Surr: 4-Bromofluorobenzene	91.8	80-120	%Rec	1	7/24/2019 2:03:44 PM	46343					

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

- 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 11

S % Recovery outside of range due to dilution or matrix

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 7/30/2019

CLIENT:	Souder, Miller & Associates	Client Sample ID: CSW 1 Collection Date: 7/19/2019 11:35:00 AM										
Project: Lab ID:	1907B38-002	Matrix: SOIL Received Date: 7/23/2019 8:50:00 AM										
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch					
EPA MET	HOD 300.0: ANIONS					Analyst	CAS					
Chloride		ND	60	mg/Kg	20	7/26/2019 3:51:31 PM	46414					
EPA MET	HOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	BRM					
Diesel Ra	ange Organics (DRO)	ND	9.9	mg/Kg	1	7/26/2019 2:30:45 PM	46394					
Motor Oil	Range Organics (MRO)	ND	50	mg/Kg	1	7/26/2019 2:30:45 PM	46394					
Surr: D	NOP	79.2	70-130	%Rec	1	7/26/2019 2:30:45 PM	46394					
EPA MET	HOD 8015D: GASOLINE RANG	E				Analyst	NSB					
Gasoline	Range Organics (GRO)	ND	5.0	mg/Kg	1	7/24/2019 3:12:18 PM	46343					
Surr: B	BFB	105	73.8-119	%Rec	1	7/24/2019 3:12:18 PM	46343					
EPA MET	HOD 8021B: VOLATILES					Analyst	NSB					
Benzene		ND	0.025	mg/Kg	1	7/24/2019 3:12:18 PM	46343					
Toluene		ND	0.050	mg/Kg	1	7/24/2019 3:12:18 PM	46343					
Ethylbenz	zene	ND	0.050	mg/Kg	1	7/24/2019 3:12:18 PM	46343					
Xylenes,	Total	ND	0.099	mg/Kg	1	7/24/2019 3:12:18 PM	46343					
Surr: 4	-Bromofluorobenzene	88.9	80-120	%Rec	1	7/24/2019 3:12:18 PM	46343					

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 2 of 11

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 7/30/2019

CLIENT: Souder, Miller & Associates Project: Julie 1	Client Sample ID: CSW 2 Collection Date: 7/19/2019 3:19:00 PM									
Lab ID: 1907B38-003	Matrix: SOIL	Received Date: 7/23/2019 8:50:00 AM								
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch				
EPA METHOD 300.0: ANIONS					Analyst	CAS				
Chloride	ND	60	mg/Kg	20	7/26/2019 4:03:55 PM	46414				
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	BRM				
Diesel Range Organics (DRO)	ND	9.1	mg/Kg	1	7/26/2019 2:55:04 PM	46394				
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	7/26/2019 2:55:04 PM	46394				
Surr: DNOP	81.5	70-130	%Rec	1	7/26/2019 2:55:04 PM	46394				
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst	: NSB				
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/24/2019 4:20:57 PM	46343				
Surr: BFB	107	73.8-119	%Rec	1	7/24/2019 4:20:57 PM	46343				
EPA METHOD 8021B: VOLATILES					Analyst	: NSB				
Benzene	ND	0.024	mg/Kg	1	7/24/2019 4:20:57 PM	46343				
Toluene	ND	0.049	mg/Kg	1	7/24/2019 4:20:57 PM	46343				
Ethylbenzene	ND	0.049	mg/Kg	1	7/24/2019 4:20:57 PM	46343				
Xylenes, Total	ND	0.097	mg/Kg	1	7/24/2019 4:20:57 PM	46343				
Surr: 4-Bromofluorobenzene	88.3	80-120	%Rec	1	7/24/2019 4:20:57 PM	46343				

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 3 of 11

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 7/30/2019

CLIENT: Souder, Miller & Associates		Cl	ient Sample II	D: CS	SW 3				
Project: Julie 1		(Collection Dat	e: 7/1	9/2019 10:45:00 AM				
Lab ID: 1907B38-004	Matrix: SOIL	Matrix: SOIL Received Date: 7/23/2019 8:50:0							
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch			
EPA METHOD 300.0: ANIONS					Analyst	CAS			
Chloride	ND	60	mg/Kg	20	7/26/2019 4:16:19 PM	46414			
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst	BRM			
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	7/26/2019 3:19:32 PM	46394			
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	7/26/2019 3:19:32 PM	46394			
Surr: DNOP	87.5	70-130	%Rec	1	7/26/2019 3:19:32 PM	46394			
EPA METHOD 8015D: GASOLINE RANG	BE				Analyst	: NSB			
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/24/2019 4:43:47 PM	46343			
Surr: BFB	107	73.8-119	%Rec	1	7/24/2019 4:43:47 PM	46343			
EPA METHOD 8021B: VOLATILES					Analyst	: NSB			
Benzene	ND	0.025	mg/Kg	1	7/24/2019 4:43:47 PM	46343			
Toluene	ND	0.049	mg/Kg	1	7/24/2019 4:43:47 PM	46343			
Ethylbenzene	ND	0.049	mg/Kg	1	7/24/2019 4:43:47 PM	46343			
Xylenes, Total	ND	0.098	mg/Kg	1	7/24/2019 4:43:47 PM	46343			
Surr: 4-Bromofluorobenzene	88.8	80-120	%Rec	1	7/24/2019 4:43:47 PM	46343			

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 11

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 7/30/2019

CLIENT: Souder, Miller & Associates Project: Julie 1 Lab ID: 1907B38-005	Client Sample ID: CSW 4 Collection Date: 7/19/2019 4:46:00 PM Matrix: SOIL Received Date: 7/23/2019 8:50:00 AM									
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch				
EPA METHOD 300.0: ANIONS					Analyst	CAS				
Chloride	ND	59	mg/Kg	20	7/26/2019 4:53:34 PM	46427				
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	BRM				
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	7/26/2019 3:43:53 PM	46394				
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	7/26/2019 3:43:53 PM	46394				
Surr: DNOP	95.5	70-130	%Rec	1	7/26/2019 3:43:53 PM	46394				
EPA METHOD 8015D: GASOLINE RANG	E				Analyst	NSB				
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	7/24/2019 7:23:31 PM	46343				
Surr: BFB	107	73.8-119	%Rec	1	7/24/2019 7:23:31 PM	46343				
EPA METHOD 8021B: VOLATILES					Analyst	: NSB				
Benzene	ND	0.025	mg/Kg	1	7/24/2019 7:23:31 PM	46343				
Toluene	ND	0.050	mg/Kg	1	7/24/2019 7:23:31 PM	46343				
Ethylbenzene	ND	0.050	mg/Kg	1	7/24/2019 7:23:31 PM	46343				
Xylenes, Total	ND	0.099	mg/Kg	1	7/24/2019 7:23:31 PM	46343				
Surr: 4-Bromofluorobenzene	89.0	80-120	%Rec	1	7/24/2019 7:23:31 PM	46343				

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 5 of 11

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 7/30/2019

CLIENT: Souder, Miller & Associates Project: Julie 1	Client Sample ID: CS 2 Collection Date: 7/19/2019 1:06:00 PM									
Lab ID: 1907B38-006	Matrix: SOIL		Received Dat	e: 7/2	23/2019 8:50:00 AM					
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch				
EPA METHOD 300.0: ANIONS					Analyst	CAS				
Chloride	ND	60	mg/Kg	20	7/26/2019 5:30:47 PM	46427				
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	BRM				
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	7/26/2019 4:08:09 PM	46394				
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	7/26/2019 4:08:09 PM	46394				
Surr: DNOP	93.7	70-130	%Rec	1	7/26/2019 4:08:09 PM	46394				
EPA METHOD 8015D: GASOLINE RANG	E				Analyst	NSB				
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	7/24/2019 7:46:20 PM	46343				
Surr: BFB	106	73.8-119	%Rec	1	7/24/2019 7:46:20 PM	46343				
EPA METHOD 8021B: VOLATILES					Analyst	: NSB				
Benzene	ND	0.025	mg/Kg	1	7/24/2019 7:46:20 PM	46343				
Toluene	ND	0.050	mg/Kg	1	7/24/2019 7:46:20 PM	46343				
Ethylbenzene	ND	0.050	mg/Kg	1	7/24/2019 7:46:20 PM	46343				
Xylenes, Total	ND	0.10	mg/Kg	1	7/24/2019 7:46:20 PM	46343				
Surr: 4-Bromofluorobenzene	87.9	80-120	%Rec	1	7/24/2019 7:46:20 PM	46343				

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

- 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 11

S % Recovery outside of range due to dilution or matrix

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Project:	Souder, Julie 1	Miller & Ass	ociate	es							
Sample ID:	MB-46414	SampTyp	be: ME	BLK	Tes	tCode: E	PA Method	300.0: Anion	s		
Client ID:	PBS	Batch I	D: 46	414	F	RunNo: 6	61674				
Prep Date:	7/26/2019	Analysis Dat	te: 7/	26/2019	S	SeqNo: 2	2091616	Units: mg/K	g		
Analyte Chloride		Result ND	PQL 1.5	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sample ID:	LCS-46414	SampTyp	be: LC	S	Tes	tCode: E	PA Method	300.0: Anion	s		
Client ID:	LCSS	Batch I	D: 46	414	F	RunNo: 6	61674				
Prep Date:	7/26/2019	Analysis Dat	te: 7/	26/2019	S	SeqNo: 2	2091617	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	92.7	90	110			
Sample ID:	MB-46427	SampTyp	De: ME	BLK	Tes	tCode: E	PA Method	300.0: Anion	s		
Client ID:	PBS	Batch I	D: 46	427	F	RunNo: 6	61674				
Prep Date:	7/26/2019	Analysis Dat	te: 7/	26/2019	S	SeqNo: 2	2091646	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-46427	SampTyp	be: LC	S	Tes	tCode: E	PA Method	300.0: Anion	s		
Client ID:	LCSS	Batch I	D: 46	427	F	RunNo: 6	61674				
Prep Date:	7/26/2019	Analysis Dat	te: 7/	26/2019	S	SeqNo: 2	2091647	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	93.2	90	110			

Qualifiers:

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- % 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

Page 7 of 11

WO#: 1907B38

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

30-Jul-19

Client: Project:	Souder, N Julie 1	filler & As	sociate	es							
Sample ID:	1907B38-001AMS	SampT	ype: MS	6	Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID:	CL 1-15	Batch	ID: 46	394	F	RunNo: 61	1668				
Prep Date:	7/25/2019	Analysis D	ate: 7/	26/2019	S	SeqNo: 20	091162	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Surr: DNOP	Organics (DRO)	40 2.8	9.9	49.36 4.936	0	81.0 56.9	57 70	142 130			S
Sample ID:	1907B38-001AMSI	SampT	ype: MS	SD	Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID:	CL 1-15	Batch	ID: 46	394	F	RunNo: 61	1668				
Prep Date:	7/25/2019	Analysis D	ate: 7/	26/2019	S	SeqNo: 20	091163	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range	Organics (DRO)	34	9.8	48.78	0	69.6	57	142	16.3	20	
Surr: DNOP		2.0		4.878		41.6	70	130	0	0	S
Sample ID:	LCS-46394	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID:	LCSS	Batch	ID: 46	394	F	RunNo: 61	1668				
Prep Date:	7/25/2019	Analysis D	ate: 7/	26/2019	S	SeqNo: 20	091169	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range	Organics (DRO)	49	10	50.00	0	98.7	63.9	124			
Surr: DNOP		4.4		5.000		88.6	70	130			
Sample ID:	MB-46394	SampT	уре: МЕ	BLK	Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID:	PBS	Batch	ID: 46	394	F	RunNo: 61	1668				
Prep Date:	7/25/2019	Analysis D	ate: 7/	26/2019	S	SeqNo: 20	091171	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range	Organics (DRO)	ND	10								
Motor Oil Rang	ge Organics (MRO)	ND	50								
Surr: DNOP		9.1		10.00		90.7	70	130			
Sample ID:	LCS-46401	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID:	LCSS	Batch	ID: 464	401	F	RunNo: 61	1669				
Prep Date:	7/25/2019	Analysis D	ate: 7/	26/2019	S	SeqNo: 20	091395	Units: %Red	;		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		4.3		5.000		85.9	70	130			
Sample ID:	MB-46401	SampT	ype: ME	BLK	Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID:	PBS	Batch	ID: 464	401	F	RunNo: 61	1669				
Prep Date:	7/25/2019	Analysis D	ate: 7/	26/2019	S	SeqNo: 20	091396	Units: %Red	;		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

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- 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

WO#:	1907B38
	30- <i>Jul-19</i>

Client: Project:	Souder, N Julie 1	Miller & A	ssociat	es							
Sample ID: MB-4	46401	SampT	ype: M	BLK	Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: PBS		Batch	n ID: 46	6401	R	unNo: 61	1669				
Prep Date: 7/2	5/2019	Analysis D	ate: 7	//26/2019	S	eqNo: 20	091396	Units: %Red	;		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		10		10.00		103	70	130			

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- Р Sample pH Not In Range
- RL Reporting Limit

Page 9 of 11

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client:	Souder, N	Miller & As	ssociate	es							
Project:	Julie 1										
Sample ID:	MB-46343	SampT	ype: ME	BLK	Tes	tCode: EF	PA Method	8015D: Gasc	line Rang	e	
Client ID:	PBS	Batch	D: 46	343	F	≀unNo: 6 ′	1629				
Prep Date:	7/23/2019	Analysis D	ate: 7/	24/2019	S	eqNo: 20	088935	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	ND	5.0								
Surr: BFB		1100		1000		106	73.8	119			
Sample ID:	LCS-46343	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8015D: Gasc	line Rang	е	
Client ID:	LCSS	Batch	D: 46	343	F	≀unNo: 6′	1629				
Prep Date:	7/23/2019	Analysis D	ate: 7/	24/2019	S	3eqNo: 20	088936	Units: mg/#	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	21	5.0	25.00	0	84.5	80.1	123			
Surr: BFB		1200		1000		118	73.8	119			
Sample ID:	1907B38-001AMS	SampT	ype: MS	6	Tes	tCode: Ef	PA Method	8015D: Gasc	line Rang	е	
Client ID:	CL 1-15	Batch	D: 46	343	F	≀unNo: 6′	1629				
Prep Date:	7/23/2019	Analysis D	ate: 7/	24/2019	S	3eqNo: 20	088951	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	26	4.9	24.44	0	106	69.1	142			
Surr: BFB		1200		977.5		124	73.8	119			S
Sample ID:	1907B38-001AMS	D SampT	ype: MS	SD	Tes	tCode: El	PA Method	8015D: Gasc	line Rang	e	
Client ID:	CL 1-15	Batch		3/13	6		1620				

Client ID: CL 1-15	Batch	n ID: 463	343	R	RunNo: 6	1629				
Prep Date: 7/23/2019	Analysis D	ate: 7/	24/2019	S	SeqNo: 2	088952	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	4.9	24.46	0	106	69.1	142	0.401	20	
Surr: BFB	1200		978.5		127	73.8	119	0	0	S

Qualifiers:

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- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
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Page 10 of 11

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#:	1907B38
	AA T 1 10

Client: Project:	Souder, I	Miller & A	ssociate	es							
	Julie 1										
Sample ID:	MB-46343	Samp	Type: ME	BLK	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID:	PBS	Batc	h ID: 46	343	F	RunNo: 6	1629				
Prep Date:	7/23/2019	Analysis [Date: 7/	24/2019	S	SeqNo: 2	088963	Units: mg/l	٨g		
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-Bron	nofluorobenzene	0.89		1.000		89.5	80	120			
Sample ID:	LCS-46343	Samp	Type: LC	S	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID:	LCSS	Batc	h ID: 46	343	F	RunNo: 6	1629				
Prep Date:	7/23/2019	Analysis [Date: 7/	24/2019	S	SeqNo: 2	088964	Units: mg/l	٨g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.89	0.025	1.000	0	89.5	80	120			
Toluene		0.95	0.050	1.000	0	94.9	80	120			
Ethylbenzene		0.93	0.050	1.000	0	93.2	80	120			
Xylenes, Total		2.8	0.10	3.000	0	91.9	80	120			
Surr: 4-Bron	nofluorobenzene	0.96		1.000		96.4	80	120			
Sample ID:	1907B38-002AMS	Samp	Туре: МS	3	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID:	CSW 1	Batc	h ID: 46	343	F	RunNo: 6	1629				
Prep Date:	7/23/2019	Analysis [Date: 7/	24/2019	S	SeqNo: 2	088971	Units: mg/ł	۲g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		1.0	0.025	0.9990	0	102	63.9	127			
Toluene		1.0	0.050	0.9990	0.006558	103	69.9	131			
Ethylbenzene		1.0	0.050	0.9990	0.007361	101	71	132			
Xylenes, Total		3.1	0.10	2.997	0.02012	101	71.8	131			
Surr: 4-Bron	nofluorobenzene	1.0		0.9990		99.7	80	120			
Sample ID:	1907B38-002AMS	D Samp	Гуре: М S	SD	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID:	CSW 1	Batc	h ID: 46	343	F	RunNo: 6	1629				
Prep Date:	7/23/2019	Analysis [Date: 7/	24/2019	S	SeqNo: 2	088972	Units: mg/ł	۲g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		1.1	0.025	0.9852	0	107	63.9	127	3.04	20	
Toluene		1.1	0.049	0.9852	0.006558	112	69.9	131	7.26	20	
Ethylbenzene		1.1	0.049	0.9852	0.007361	110	71	132	7.17	20	
Xylenes, Total		3.3	0.099	2.956	0.02012	110	71.8	131	6.37	20	
Surr: 4-Bron	nofluorobenzene	0.95		0.9852		96.9	80	120	0	0	

Qualifiers:

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HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environmental Alb TEL: 505-345-3975 Website: www.ha	Analysis Labor 4901 Hawkin uquerque, NM & FAX: 505-345- illenvironmenta	ratory ns NE 87109 San -4107 1.com	nple Log-In Che	ck List
Client Name: SMA-CARLSBAD	Work Order Number	: 1907B38		RcptNo: 1	۰.
Received By: Daniel Ra Completed By: Desiree Doming Reviewed By: AB	merit 7/23/2019 8:50:00 AM guez 7/23/2019 9:44:48 AM $\mathcal{F}[\mathcal{V}_{3}]$ (9		Pz		
Chain of Custody					
1. Is Chain of Custody complete?		Yes 🗸	No	Not Present	
2. How was the sample delivered?		<u>Courier</u>			
Log In 3. Was an attempt made to cool the	e samples?	Yes 🔽	No 🗌		
4. Were all samples received at a te	emperature of >0° C to 6.0°C	Yes 🗹	No 🗌	NA 🗌	
5. Sample(s) in proper container(s)	?	Yes 🗹	No 🗌		
6. Sufficient sample volume for indic	cated test(s)?	Yes 🗹	No 🗌		
7. Are samples (except VOA and OI	NG) properly preserved?	Yes 🖌	No 🗌		
8. Was preservative added to bottle	s?	Yes	No 🗹	NA 🗌	
9. VOA vials have zero headspace?		Yes 🗌	No 🗌	No VOA Vials 🗹 🖊	
10. Were any sample containers reco	eived broken?	Yes	No 🗸	# . (
11. Does paperwork match bottle lab (Note discrepancies on chain of c	els? sustody)	Yes 🗹	No 🗌	# of preserved bottles checked for pH: (<2 or >12	unless noted)
12. Are matrices correctly identified o	n Chain of Custody?	Yes 🗹	No 🗌	Adjusted?	
13. Is it clear what analyses were req	uested?	Yes 🗹	No 🗌	Charles NC	120/16
14. Were all holding times able to be (If no, notify customer for authoriz)	met? zation.)	Yes ⊻	No 🗋	Checked by: 10-	16211
Special Handling (if applicab	ble)			/	
15. Was client notified of all discrepa	ancies with this order?	Yes	No 🗌	NA 🗹	
Person Notified: By Whom: Regarding: Client Instructions:	Date: T Via:] eMail 🗍 F	Phone 🗌 Fax	In Person	
16. Additional remarks:					
17. Cooler Information					

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.8	Good	Not Present			

	AALL ENVIRONMENIAL ANALYSIS LABORATORY	www.hallenvironmental.com	kins NE - Albuquerque, NM 87109	345-3975 Fax 505-345-4107	Analysis Request	0₄	SMIS PO ₄ , S	93240 93240 93220	or 8 3 (Pre	310 - VC - VC - VC - VC	y 83 I Me AO AO Dilfo	PAHs by RCRA 8 CD F, B 8260 (V 8270 (S 70tal Cc	×	×	×		×	<u>ک</u>			L'heel
			1901 Hawl	Tel. 505-3		(0	BCB's	ا 280 (۲.	8/s	abic bc	oite	EDB (W 8084 be	~		~	2		,		rks:	Dil 1
			7	0 NA.N		()	.208) s	, DD,	L /	BE	TM	BTEXY	X	XX	×	XX	×	イメ		Remai	3100
ne:	KRUSH 5 DAY TURN		の生				Patterson	/JT	Yes 🛛 No	7.00.2 - 2.80	iding CF):	eservative 1903B38	- 001	200 -	- 003	-004	-005	-006		Via: Daje Time	1ia: / Date Time 2000.05/17 8:50
Turn-Around Tir	□ Standard	Project Name:	JUL	Project #:		Project Manage	Heather	Sampler: LA	On Ice: X	# of Coolers(1)	Cooler Temp(indu	Container Pr Type and # Ty	402	(\rightarrow		Received by	Received by
Chain-of-Custody Record	lient: SMA - CARLSBAD		1ailing Address:		hone #:	mail or Fax#:	A/QC Package: 1 Standard □ Level 4 (Full Validation)	ccreditation: Az Compliance	1 NELAC 🗆 Other	TEDD (Type)		ate Time Matrix Sample Name	7/A/A 1010 SOIL CL2-15	7/9/10/135 1 CSW 2	1 1519 CSW2	1045 CSW3	1646 CSW4	V 1306 V CS3		ate: Time: Relinquished by:	22/14 0256 UNLINE ate: Time: Relinderished by: 22/17 199 20