

January 11, 2021

#5E29133-BG20

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

SUBJECT: Remediation Closure Report for the Salado Draw 6 Fed #001H Release (NRM2012242719), Lea, New Mexico

To Whom it May Concern:

On behalf of Devon Production Company (Devon), 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 Salado Draw 6 Fed #001H site. The site is in Unit M, Section 06, Township 26S, Range 34E, Lea County, New Mexico, on Federal land. Figure 1 illustrates the vicinity and site location on an USGS 7.5-minute quadrangle map.

	Table 1: Release Informati	on and Closure	Criteria		
Name	Salado Draw 6 Federal #001H	Company	Devon Energy Production Company		
API Number	30-025-41293	Location	32.0657196 -103.5146942		
Incident Number	Ν	RM2012242719			
Estimated Date of Release	April 24, 2020	Date Reported to NMOCD	May 1, 2020		
Land Owner	Federal	Reported To	NMOCD, BLM		
Source of Release	Water Transfer Pump				
Released Volume	6.45 BBLS	Released Material	Produced Water		
Recovered Volume	4.8 BBLS	Net Release	1.65 BBLS		
NMOCD Closure Criteria	<50 feet to groundwater				
SMA Response Dates	June 5, July 2, July 17, December 23, 2020				

Table 1 summarizes release information and Closure Criteria.

### 1.0 Background

On April 24, 2020, a release was discovered at the Salado Draw 6 Fed #001H site due to a leak on the water transfer pump. Initial response activities were conducted by Devon Energy, and included source elimination, containment and site stabilization activities, which recovered approximately 4.8 barrels of fluid. 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 Salado Draw 6 Fed #001H is located approximately 19 miles southwest from Jal, New Mexico on Federal (BLM) land at an elevation of approximately 3,316 feet above mean sea level (amsl).

### Depth to Groundwater

Based upon New Mexico Office of the State Engineer data (Appendix B), depth to groundwater in the area is estimated to be 148-170 feet below grade surface (bgs).

### Wellhead Protection Area

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. There are 7 water wells (C-02295, USGS 320419103302202, USGS 320419103302201, C-02292, C-03442, C-03441, and C-02291) with depth to groundwater information within 1.02 miles from the point of release. Using depth-to-groundwater data from these wells, and elevational differences, depth-to-groundwater calculations for this area are included in Table 4.

The depth to groundwater determination also included a design of groundwater level well network utilizing ordinary kriging and creating a potentiometric surface map of groundwater elevation. The design comes from NMOSE observational data of groundwater levels used to estimate the potential state of the groundwater system. Ordinary kriging provides estimates of the variable and a standard error of the estimate, kriging standard deviation is used as a criterion for the determination of well density, and the GIS-based method was analyzed, results of the method are seen in Figure 1A. A potentiometric surface map was created utilizing thirteen (13) NMOSE water wells in the area. Based on the location of each well and its groundwater elevation, the groundwater gradient for the vicinity of the release is 0.02671 ft/ft with flow direction 196 degrees from North (positive y axis) gradient, which was calculated using EPA On-line Tools for Site Assessment Calculation (Appendix D), see Figure 1B.

### Distance to Nearest Significant Watercourse

The nearest significant watercourse is an unnamed playa, located approximately 2,824 feet to the southwest. 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.

Table 2 demonstrates the Closure Criteria applicable to this location. Figure 2 illustrates the site with 200 and 300-foot radii to indicate that it does not lie within a sensitive area as described 19.15.29.12.C(4) NMAC. Pertinent well data is attached in Appendix B.

Despite the information presented herein, the applicable NMOCD Closure Criteria for this site is for a groundwater depth of less than 50 feet bgs. The site has been restored to meet the standards of Table I of 19.15.29.12 NMAC.

### 3.0 Release Characterization and Remediation Activities

On June 5 and July 2, 2020, SMA personnel arrived on site in response to the release associated with Salado Draw 6 Fed #001H. SMA performed site delineation by conducting a liner inspection and collecting soil samples, which where field-screened for chloride using an electrical conductivity (EC) meter, titration, and a MiniRAE 3000 Photoionization Detector (PID) equipped with a 10.6 eV lamp.

One sample location (SL1) was investigated within the visually impacted area outside of the secondary containment and within associated aboveground electrical lines using a hand-auger, to a depth of two (2) feet bgs. A background sample was also collected at 2 feet bgs, for analysis of chloride only. A total of five (5) 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. On July 2, 2020 SMA returned to further delineate sample location (SL1). As summarized in Table 3, initial sample results indicated that the area around SL1 required excavation due to high levels of chlorides that exceed the NMOCD Closure Criteria applicable to the Salado Draw 6 Federal #001H site. The site and initial sample locations are shown on Figure 3.

On July 17, 2020, SMA conducted a liner integrity inspection per the requirements of 19.15.29.11.A(5)(a) NMAC. Notice was given to New Mexico Oil Conservation Division on July 14, 2020 that the inspection was to occur on the date mentioned above. After a thorough visual inspection of the containment structure, the liner appeared to be intact and had the ability to contain the leak. The containment did have some standing water due to recent rain event, supporting evidence of liner integrity. A photo log documenting the inspection is included in Appendix C.

With the liner integrity remaining intact, excavation to remove contaminated soils was scheduled for December 23, 2020. NMOCD was notified on December 21, 2020 that closure samples were expected to be collected in two (2) business days following excavation. On December 23, 2020, SMA returned to the site to guide the excavation of contaminated soil and collect confirmation samples from the walls and base of the excavation. The area around SL1 was excavated until field-screening results indicated that the NMOCD Closure Criteria would be met. The final area of excavation measured 6 by 11 feet with a depth of 2 feet bgs. Confirmation samples were comprised of five-point composites of the base (CS1) and walls (SW1 – SW4).

A total of five 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 3A shows the extent of the final excavation and confirmation sample locations. All laboratory results are summarized in Tables 3. Laboratory reports are included in Appendix E.

### 4.0 Site Recommendations

As demonstrated in Table 3, all confirmation samples meet the NMOCD Closure Criteria. The release area outside the secondary containment has been delineated and remediated to meet the standards of Table I of 19.15.29.12 NMAC.

Salado Draw #6 Federal #001H Remediation Closure Report (NRM2012242719) January 11, 2021

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 Northern Delaware Basin Landfill near Jal, NM, an NMOCD-permitted disposal facility.

On behalf of Devon Energy, SMA recommends no further action for the referenced release, and requests NMOCD closure of NRM2012242719.

### 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 Ashley Maxwell at 505-325-7535 or Shawna Chubbuck at 970-565-4465, extension 1604.

Submitted by: SOUDER, MILLER & ASSOCIATES Reviewed by:

Ashley Maxwell Project Scientist

nauna Chubbuck

Shawna Chubbuck Senior Scientist

#### **ATTACHMENTS:**

#### Figures:

Figure 1: Vicinity and Well Head Protection Map Figure 1A: NMOSE Depth to Groundwater Figure 1B: Potentiometric Surface Map Figure 2: Surface Water Protection Map Figure 3: Site and Initial Sample Location Map Figure 3A: Site and Confirmation Sample Location Map

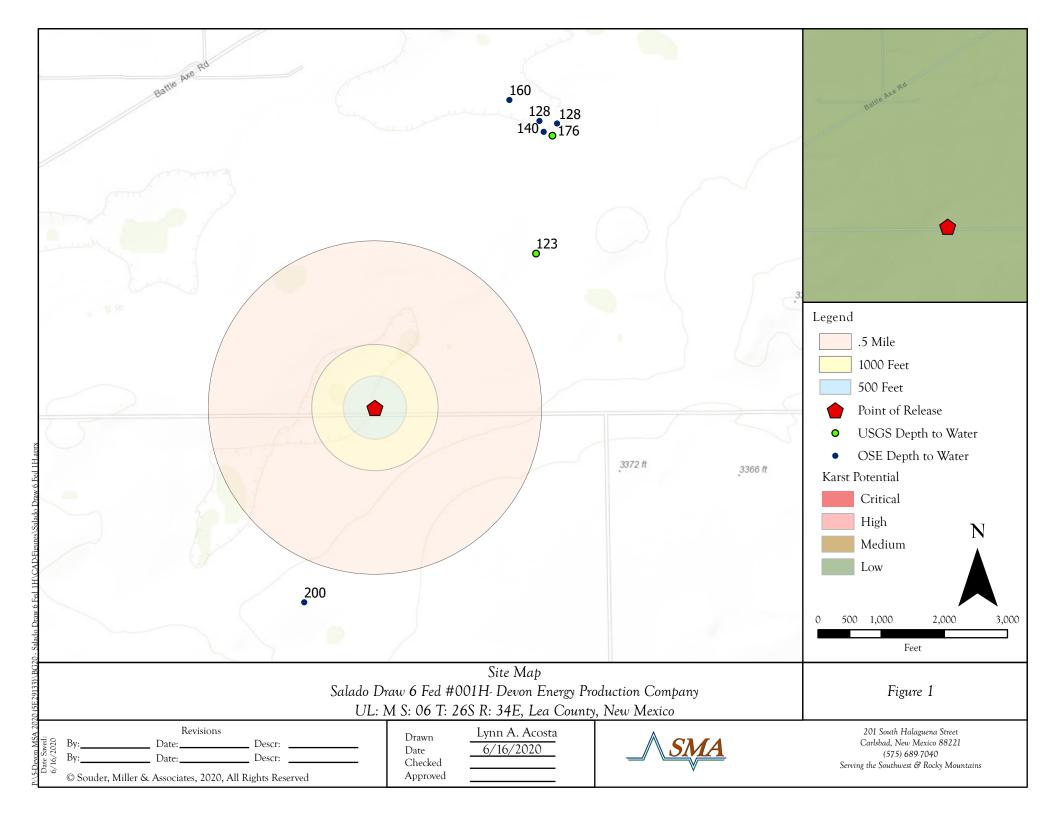
#### Tables:

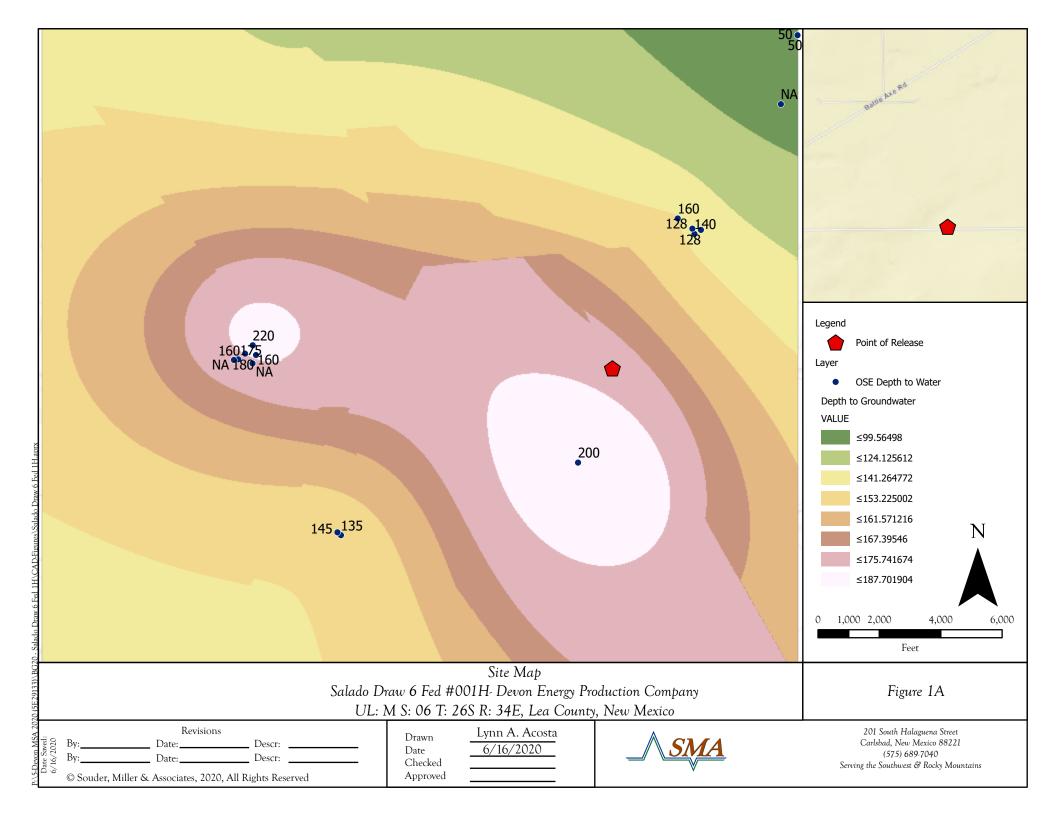
Table 2: NMOCD Closure Criteria Justification Table 3: Summary of Sample Results Table 4: Potential Depth to Groundwater

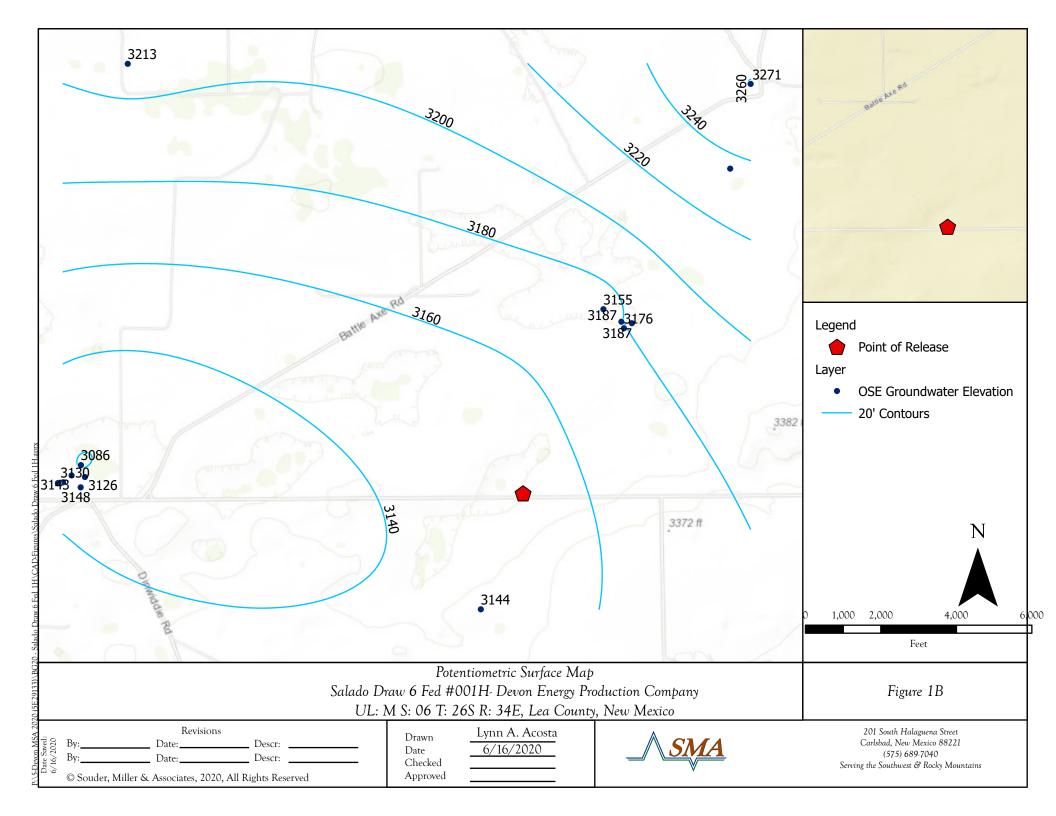
#### Appendices:

Appendix A: Form C141 Appendix B: NMOSE Wells Report Appendix C: Sampling Protocol, Liner Inspection Form & Liner Inspection Photo Log Appendix D: EPA On-line Tools for Site Assessment Calculation Appendix E: Laboratory Analytical Reports Appendix F: Excavation Photo Log

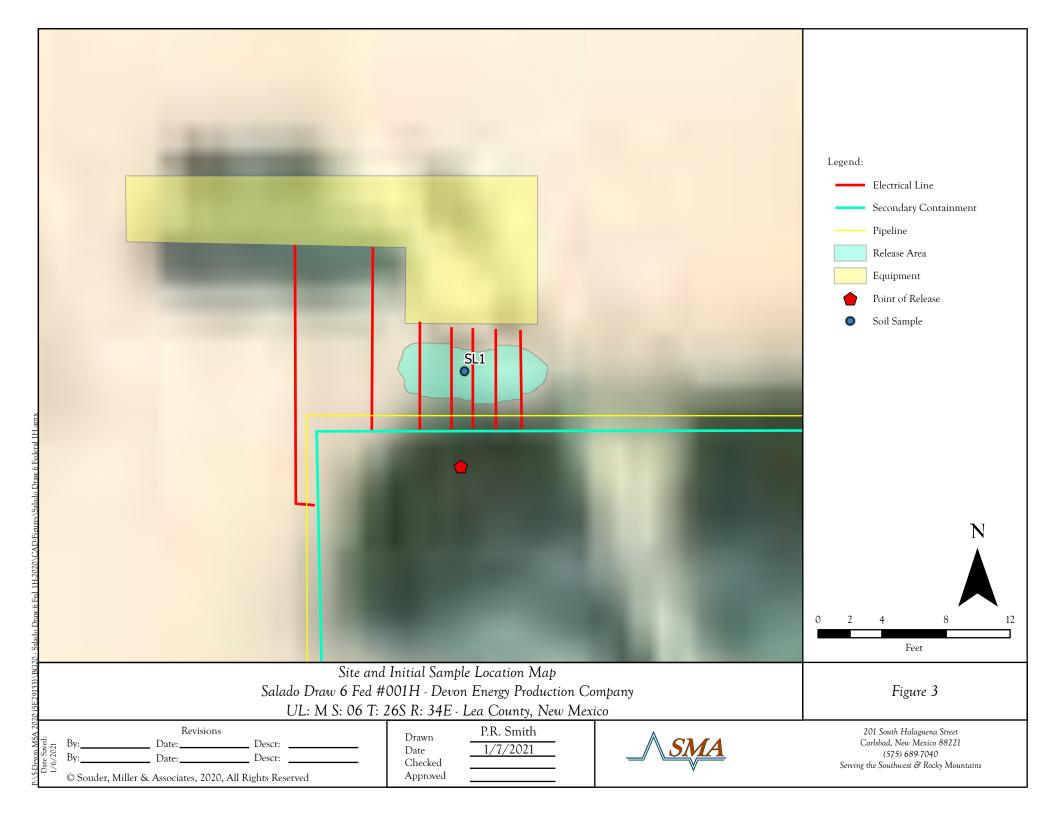
## FIGURES

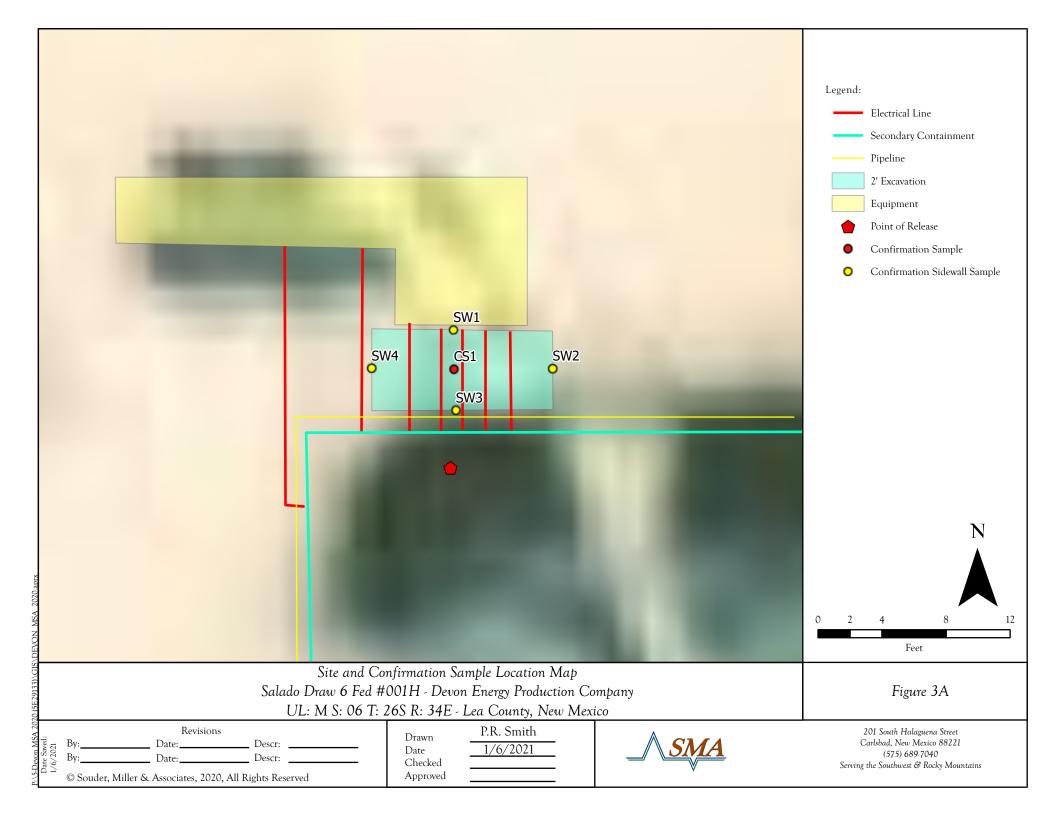






	/	J.	
		,3324 R	
		1	Point of Release
			Buffer Distance
			300 Feet
3533 ft			200 Feet
			100 Feet
			<ul> <li>Springs &amp; Seeps</li> </ul>
			Rivers
			Flowlines SENM
)			NM Wetlands
			Lakes & Playas
			FEMA Flood Zones 2011
			TEMA Flood Zones 2011
E f			
1			
			N
			0 170 340 680 1,020
			Feet
Saladi	Surface Water Protection Ma o Draw 6 Fed #001H- Devon Energy Pro		Figure 2
	JL: M S: 06 T: 26S R: 34E Lea County		I ignic 2
Revisions	Drawn Lynn A. Acosta		201 South Halaguena Street Carlsbad, New Mexico 88221
By: Date: Descr:	Date <u>7/8/2020</u> Checked	_/\ <u>SMA</u>	Carlsbad, New Mexico 88221 (575) 689-7040 Serving the Southwest & Rocky Mountains
ල් ි © Souder, Miller & Associates, 2020, All Rights Reserved	Approved	v	Serving the Southwest & Rocky Mountains





## 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)	148-170	New Mexico Office of the State Engineer
Hortizontal Distance From All Water Sources Within 1/2 Mile (ft)	N/A	United States Geological Survey
Hortizontal Distance to Nearest Significant Watercourse (ft)	2,824	Un-named Playa to the Southwest

Closure Criteria (19.15.2	.9.12.B(4) an	d Table 1 NMAC)				
			ure Criteria	a (units in n	ng/kg)	
Depth to Groundwater	Chloride *numerical limit or background, whichever is greater	ТРН	GRO + DRO	BTEX	Benzene	
< 50' BGS	Х	600	100		50	10
51' to 100'		10000	2500	1000	50	10
>100'		20000	2500	1000	50	10
Surface Water		if ye	s, then			
<300' from continuously flowing watercourse or other significant						
watercourse?	No					
<200' from lakebed, sinkhole or playa 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		1				
fresh water well field? No						
<100' from wetland?	No	1				
within area overlying a subsurface mine No						
within an unstable area? No		]				
within a 100-year floodplain?	No	7				

### Table 3: Sample Results

Sample ID	Sample Date	Depth of Sample	Action	Metho	od 8021B		Metho	d 8015D		Method 300.0
Sample ID	Sample Date	(feet bgs)	Taken	BTEX	Benzene	GRO	DRO	MRO	Total TPH	CI-
				mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
	NMOCD	Closure Criteria		50	10		-		100	600
		Surface	Excavate	<0.222	<0.025	<4.9	12	<48	12	16000
	6/5/2020	0.5	Excavate	<0.221	<0.025	<4.9	<9.4	<47	<61.3	4100
SL1	0/3/2020	1	Excavate	<0.225	<0.025	<5.0	<9.3	<46	<60.3	4300
		1.5	Excavate	<0.222	<0.025	<4.9	<9.1	<46	<60	1400
	7/2/2020	2	In-Situ	-	-	-	-	-	-	<60
BG	7/2/2020	1 - 1.5	In-Situ	-	-	-	-	-	-	<61
				Confirma	ation Samples					
CS1		2		<0.216	<0.024	<4.8	<9.8	<49	<63.6	<60
SW1				<0.216	<0.024	<4.8	<9.8	<49	<63.6	<60
SW2	12/23/2020	0 - 2	In-Situ	<0.221	<0.025	<4.9	<9.2	<46	<60.1	<60
SW3		0-2		<0.216	<0.024	<4.8	<9.5	<47	<61.3	<60
SW4				<0.219	<0.024	<4.9	<9.9	<49	<63.8	<60

"-" = Not Analyzed

BG: Background sample

### Table 4: Potential Depth to Groundwater

Depth To Groundwater			indwater	Calculations		
Location Elevation	n (ft):	3320		Calc	Calculations	
Well Name	Well Elev	/ation (ft)	Well Depth to GW	Groundwater Elevation	Depth to GW at Location	Distance (miles)
C 02295	33	47	200	3147	173	0.62
JSGS 320419103302202	33	29	123	3206	114	0.67
JSGS 320419103302201	33	19	176	3143	177	0.97
C 02292	33	15	140	3175	145	0.97
C 03442	33	16	128	3188	132	0.99
C 03441	33	15	128	3187	133	1.01
C 02291	33	15	160	3155	165	1.02
					3320	
Total # of Wells	7				1039	

Potential Depth to GW at Release: 148.428571428571

## APPENDIX A FORM C141

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

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

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Incident ID	NRM2012242719
District RP	
Facility ID	
Application ID	

### **Release Notification**

### **Responsible Party**

Responsible Party Devon Energy Production Company	OGRID <sub>6137</sub>
Contact Name Lupe Carrasco	Contact Telephone 575-748-0165
Contact email Lupe.Carrasco@dvn.com	Incident # (assigned by OCD)
Contact mailing address 6488 Seven Rivers HWY	

### **Location of Release Source**

Latitude \_\_\_\_\_32.0657196

(NAD 83 in decimal degrees to 5 decimal places) -103.5146942

Site Name Salado Draw 6 Fed #001H	Site Type Oil
Date Release Discovered 4/24/2020	API# (if applicable) <b>30-025-41293</b>

Unit Letter	Section	Township	Range	County
М	06	26S	34E	Lea

Surface Owner: State Federal Tribal Private (Name:

### **Nature and Volume of Release**

Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
Produced Water	Volume Released (bbls) 6.45	Volume Recovered (bbls) <sub>4.8</sub>
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Cause of Release Leal	A on water transfer pump. Fluid released intition in the discharge side intition.	to containment and some fluid sprayed of pump.

Page 1 of 3

	Page 2 of
Incident ID	NRM2012242719
District RP	
Facility ID	
Application ID	

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

The source of the release has been stopped.

The impacted area has been secured to protect human health and the environment.

Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

All free liquids and recoverable materials have been removed and managed appropriately.

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

Fluid that was released into containment remained in containment.

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: Kendra DeHoyos	Title: EHS Associate
Signature: Kendra DeHoyos	Date: 5/1/2020
email: kendra.dehoyos@dvn.com	Telephone: 575-748-3371
	·
OCD Only	
Received by:Ramona Marcus	Date: $\frac{5/1/2020}{2000}$

State of New Mexico Oil Conservation Division

Incident ID	NRM2012242719
District RP	
Facility ID	
Application ID	

### 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?	148-170 (ft bgs)
Did this release impact groundwater or surface water?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🔀 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🔀 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🔀 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗌 Yes 🔀 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🔀 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🔀 No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🔀 No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🔀 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🔀 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🔀 No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	🗌 Yes 🔀 No

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

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

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. Field data
- $\overline{\mathbf{\nabla}}$  Data table of soil contaminant concentration data
- $\checkmark$  Depth to water determination
- Determination of water sources and significant watercourses within <sup>1</sup>/<sub>2</sub>-mile of the lateral extents of the release
- \_\_\_\_\_ Boring or excavation logs
- $\checkmark$  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 N	lexico	Г	Incident ID	T
		Oil Conservation Division			NRM2012242719
Page 4	Oil Conservation	Division		District RP	
				Facility ID	
				Application ID	
regulations all operators and public health or the enviro failed to adequately invest addition, OCD acceptance and/or regulations. Printed Name: Signature:	formation given above is true and co re required to report and/or file certai nment. The acceptance of a C-141 r igate and remediate contamination th of a C-141 report does not relieve th Lupe Carrasco De Carrasco asco@dvn.com	n release notifications and eport by the OCD does not lat pose a threat to groundw e operator of responsibility Title: Date:1	perform cor relieve the o vater, surfac for complia EHS Profe	rective actions for rele operator of liability she e water, human health ance with any other fee	eases 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	NRM2012242719
District RP	
Facility ID	
Application ID	

### 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: \_\_\_\_\_Lupe Carrasco\_\_\_\_\_\_ Title: \_\_\_\_\_EHS Professional\_\_\_\_\_ Signature: \_\_\_\_\_\_ Date: \_\_\_1/11/21\_\_\_\_\_ email: Lupe.Carrasco@dvn.com Telephone: 575-748-0165 **OCD Only** Received by: 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: Kazen Collins Date: 03/23/2021

Printed Name: Karen Collins Title: Environmental Scientist & Specialist

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### NRM2012242719

1.1	AND ADDRESS STORESS	Bbls) Calculator Outputs in red		
Co	ntaminated S	oil measurement		
Length(Ft)	Width(Ft)	Depth(Ft)		
<u>36</u>	20.000	<u>0.083</u>		
Cubic Feet of	Soil Impacted	<u>59.760</u>		
Barrels of So	il Impacted	10.65		
Soil	Гуре	Clay/Sand		
Barrels of O 100% Sat		<u>1.60</u>		
Saturation	Fluid pres	ent with shovel/backhoe		
Estimated Ba Relea		1.60		
	Free Standi	ng Fluid Only		
Length(Ft)	Width(Ft)	Depth(Ft)		
<u>0</u>	<u>0.000</u>	0.000		
Standin	ng fluid	0.000		
Total fluid	ds spilled	<u>1.598</u>		

Spills In Lined Containn	nent
Measurements Of Standing	g Fluid
Length (Ft)	125
Width(Ft)	30
Depth(in.)	0.125
Total Capacity without tank displacements (bbls)	6.96
No. of 500 bbl Tanks In	
Standing Fluid	e
No. of Other Tanks In	
Standing Fluid	
OD Of Other Tanks In Standing Fluid(feet)	12.417
Total Volume of standing fluid accounting for tank displacement.	4.86

## APPENDIX B NMOSE WELLS REPORT



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

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POE been rej O=orpha C=the fi closed)	olaced, aned,	(quarters are 1=NW 2=N (quarters are smallest to largest)			)	I=SE) IAD83 UTM	l in i	meters)	(In feet)						
		POD Sub-		~	Q	~										
POD Number	Code		County				Sec	Tws	Rng	х	Y		DistanceDept	hWellDepthW	Wa aterColu/	
<u>C 02295</u>		CUB	LE		2		12	26S	33E	639865	3547624	Ħ	1074	250	200	50
C 02292 POD1		CUB	LE	4	1	2	06	26S	34E	640992	3549987	я	1561	200	140	60
<u>C 03441 POD1</u>		С	LE	4	1	2	06	26S	34E	640971	3550039	8	1596	250		
											l	Ave	rage Depth to Wa	ter:	170 feet	
													Minimum Dep	th:	140 feet	
													Maximum Dep	ih:	200 feet	
Record Count:3																
UTMNAD83 Radiu	us Search	(in mete	ers):													
Easting (X): 64	10183		Nort	hing	) (Y)	): 3	3548	8651			Radius: 1	600	I			

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

7/8/20 8:58 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER



## WELL RECORD & LOG

IT BEAT			OFFICE O	F THE STAT				PO PO	AT SHE WE WE WE	Por		
LOCATION	POD NUMBER	NAME(S)	C.	(BER(S)	411 <u>.</u>							
MELL LOC	Dinwiddie WELL OWNER PO Box 96	RMAILING	· -	<u></u>			слту Capitan		state NM	883	zip 316	
I. GENERAL AND WELL	WELL       DEGREES       MENUTES       SECONDS       40,224         LOCATION       LATITUDE       N32       04       41.0 N       • ACCURACY REQUIRED: ONE TENTH OF A SECOND         (FROM GPS)       LONGITUDE       W103       30       00.9 W       • ACCURACY REQUIRED: WGS 84       (05E GP3)         DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS       22.867											
OPTIONAL	(2.5 ACRE)	5	(10 ACRE) E 1/2	(40 ACRE) NW 4	(160 ACRE) NE %	SECTION	6 (Ber	TOWNSHIP 26 BLOCK NUMBER	☐ №ОКТН У БОИЛН	RANGE 34 UNIT/TRAC	east west	
7 OI	HYDROGRAP									TRACT NU	MBER	
	LICENSE NUMBER NAME OF LICENSED DRILLER WD1044 Alan Eades							NAME OF WELL DRILLING COMPANY Eades Drilling & Pump Service				
N	DRILLING ST 05-03		DRILLING ENI 05-03-1		DEPTH OF COMPLETED WELL (FT) BORE 250			DEPTH WATER FIRST ENCOUNTERED (FT)				
INFORMATION	COMPLETED	WELL IS:	ARTESIAN		Shallow (UNC		STATIC WATER LEVEL IN COMPLETED WELL (FT)					
INFO	DRILLING FL	UID:			ADDITIVES - SP							
BNG	DRILLING MI		ROTARY		CABLE TOOL		R - SPECIFY:	r				
DRILLING	DEPTH FROM	(FT) TO	BORE HOL DIA. (IN)		CASING CC MATERIAL TYI			INSIDE DIA. CASING (IN)		G WALL NESS (IN)	SLOT SIZE (IN)	
ъ.	0	20	11		PVC		p joint	6.166		255		
	20 190	190 250	9.75 9.75		PVC C - screen		p joint p joint	6.166 6.166		255 255	.035	
		200	9.75				P Joan	0.100				
	DEPTH	(FT)	THICKNES	SS FC	ORMATION DESCRI						YIELD	
ATA	FROM	TO	(FT)		(INCLUDE WATER			R FRACTURE Z	DNES)		(GPM)	
STR	128	189	· 61			ly red clay		<del>.</del>				
ING			- •i.		,		·					
BEARING STRATA			 	······								
ER B	·											
4. WATER	METHOD US	ED TO EST	IMATE YIELD OF	WATER-BEARING STRA	ATA			TOTAL ESTIMAT	'ED WELL YIE	LD (GPM)		
	FOR OSE I	NTERNA	L USE				~	WELL REC	CORD & 1.00	G (Version 6/	/9/08)	

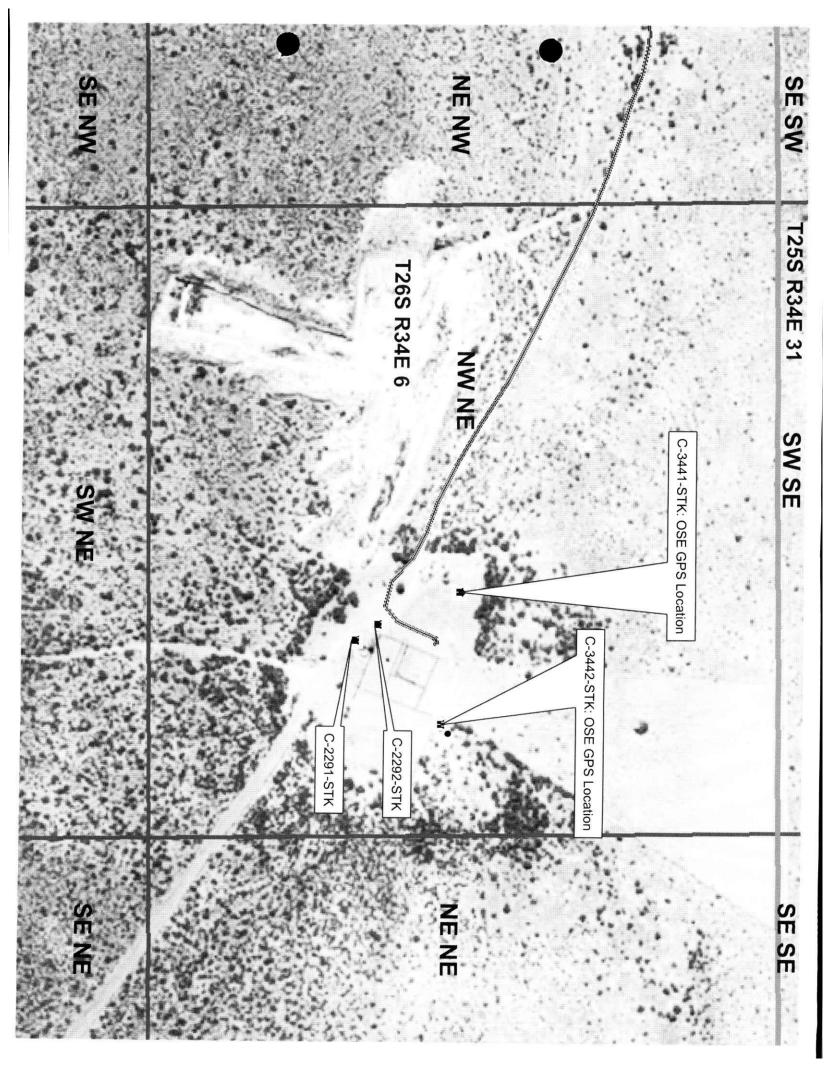
FOR OSE INTERNAL USE		WELL RECORD & LOG	(Version 6/9/08)
FILE NUMBER C-3941	POD NUMBER POD_1	TRN NUMBER	
LOCATION 26.34.6.2141122			PAGE 1 OF 2

		<u> </u>		ISIBLE	JET	NO PUMP – WELL NOT EQUIPPED							
E	TYPE OI	f PUMP:				$\Box \text{ OTHER} - \text{SPECIFY:}$							
5													
SEAL AND PUMP	ANNI	II.AR	DEPTH	TO	BORE HOLE DIA. (IN)	MATERIAL TYPE AND SIZE	AMOUNT (CUBIC FT)	METHOD OF PLACEMENT					
<b>V</b>	SEAL	AND	0	20	11	bentonite chips - hydrated	9	gravit	ty fed				
S. SF	GRAVE	L PACK	20	250	9.75	gravel	84	gravi					
	DEPT	н (FT)	THICK	NESS		COLOR AND TYPE OF MATERIAL ENCOUNT							
	FROM	то	(F1		Į	JDE WATER-BEARING CAVITIES OR FRACTU			WATER BEARING?				
	0	1	1			U YES							
	1	25	24	4	·	top soil sandy clay							
	25	37	12	2	[	caliche & sand	<u> </u>	S YES	D NO				
	37	85	48	В		sand & sandstone stringers		T YES	NO I				
1	85	108	23	3		red sandstone with red clay streak	S	YES	ОИ 🗖				
6. GEOLOGIC LOG OF WELL	108	128	20	0		sandstone with yellow clay streak	s	T YES					
OF	128	189	6	1		sandy red clay		T YES					
EQ	189	249	60 white sandstone with red clay streaks					U YES	D NO				
CIC	249	250	1	 	<u> </u>	red clay		U YES					
DL0		ļ				······································		VES					
E E		<u> </u>						I YES					
¢		ļ	L					T YES					
						·		C YES	D NO				
		ļ			Į	······		I YES					
								I YES					
					ļ			TYES					
	·	<u> </u>	l					T YES	ON 🔲				
			ATTACH	ADDITION	IAL PAGES AS N	SEDED TO FULLY DESCRIBE THE GEOLOGIC	LOG OF THE WELL						
2			METHOD:				····· ··· ·		·····				
13	WELI	_ TEST	TEST RESU	ILTS - ATTA BLE SHOWI	ACH A COPY OF I NG DISCHARGE	DATA COLLECTED DURING WELL TESTING, I AND DRAWDOWN OVER THE TESTING PERIO	NCLUDING START TI	ME, END T	ime,				
ADDITTONAL			MENTS OR EXPL					72	<u></u>				
Ĕ	125.110						MVA	201					
<u> </u>							NY C	NG					
	ĺ							N.					
7. TEST &								с П					
7. T													
	<u> </u>			· · · ·				<u> </u>					
32	CORRE	CT RECOR	D OF THE AL	BOVE DESC	RIBED HOLE AN	EST OF HIS OR HER KNOWLEDGE AND BELIE D THAT HE OR SHE WILL FILE THIS WELL RI	EF, THE FOREGOING- ECORD WITH THE ST	STA TRUE A ATE ENGIN	ND EER AND				
	THE PE	RMIT HOL	DER WITHIN	20 DAYS A	FTER COMPLET	ION OF WELL DRILLING:		•* -=					
SIGNATURE		//	Van	Yad	16 hr	May 14, 2010							
00 . 00		/	SIGNATUI	RE OF DRIL	LEX	TA FA DATE							
L	<u> </u>				man	in cherry		<u> </u>					

. 1

• •

FOR OSE INTERNAL USE			WELL RECORD & LO	OG (Version 6/9/08)
FILE NUMBER C-3941	POD NUMBER	PODI	TRN NUMBER	
LOCATION 26.34.6.24.392		•		PAGE 2 OF 2
2141122				



### Locator Tool Report

#### General Information:

Application ID:29 Date: 02-01-2011

Time: 11:32:20

.

WR File Number: C-03441-STK Purpose: POINT OF DIVERSION

Applicant First Name: DINWIDDIE CATTLE CO Applicant Last Name: NEW STOCK WELL (OSE FIELD GPS)

> GW Basin: CARLSBAD County: LEA

Critical Management Area Name(s): NONE Special Condition Area Name(s): NONE Land Grant Name: NON GRANT

#### **PLSS Description (New Mexico Principal Meridian):**

NW 1/4 of SE 1/4 of NW 1/4 of NE 1/4 of Section 06, Township 26S, Range 34E.

#### **Coordinate System Details:**

#### Geographic Coordinates:

32 Degrees 4 Minutes 40.2 Seconds N Latitude: Longitude: 103 Degrees 30 Minutes 22.9 Seconds W

#### Universal Transverse Mercator Zone: 13N

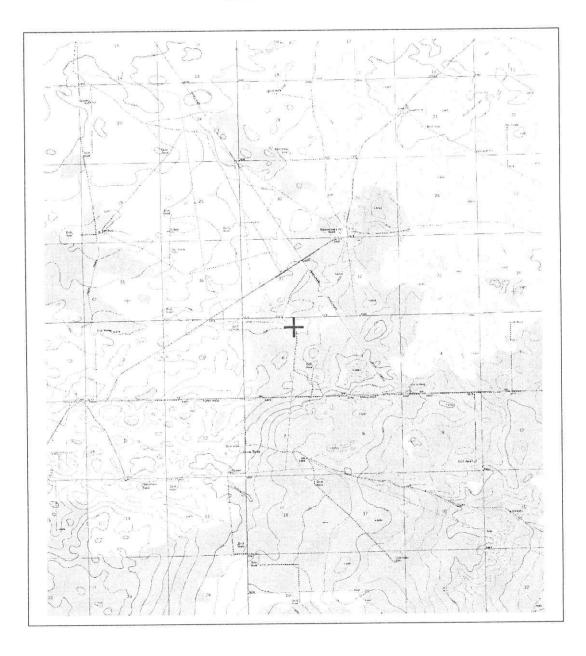
NAD 1983(92) (Meters)	N: 3,550,040	E: 640,971
NAD 1983(92) (Survey Feet)	N: 11,647,089	E: 2,102,918
NAD 1927 (Meters)	N: 3,549,839	E: 641,018
NAD 1927 (Survey Feet)	N: 11,646,429	E: 2,103,073

#### State Plane Coordinate System Zone: New Mexico East

NAD 1983(92) (Meters)	N: 119,798	E: 243,072
NAD 1983(92) (Survey Feet)	N: 393,037	E: 797,479
NAD 1927 (Meters)	N: 119,780	E: 230,518
NAD 1927 (Survey Feet)	N: 392,980	E: 756,292

### NEW MEXICO OFFICE OF STATE ENGINEER

### Locator Tool Report





WR File Number: C-03441-STK Sc.	ale: 1:77,058	
Northing/Easting: UTM83(92) (Meter):	N: 3,550,040	E: 640,971
Northing/Easting: SPCS83(92) (Feet):	N: 393,037	E: 797,479
GW Basin: Carlsbad		

Page 2 of 2

Print Date: 02/01/2011



**USGS Water Resources** 

USGS Home Contact USGS Search USGS

### **National Water Information System: Web Interface**

Data Category	Geographic	Area:	
Groundwate	r 🗸 United St	ates 🗸 🗸	GO

Click to hideNews Bulletins

- Introducing The Next Generation of USGS Water Data for the Nation
- Full News 🔊

Groundwater levels for the Nation

### Search Results -- 1 sites found

site\_no list =

• 320419103302201

### **Minimum number of levels =** 1

Save file of selected sites to local disk for future upload

### USGS 320419103302201 26S.34E.06.21414

Available data for this site Groundwater: Field measurements GO Lea County, New Mexico Hydrologic Unit Code 13070007 Latitude 32°04'37.9", Longitude 103°30'20.5" NAD83 Land-surface elevation 3,319.00 feet above NGVD29 The depth of the well is 360 feet below land surface. This well is completed in the Chinle Formation (231CHNL) local aquifer.

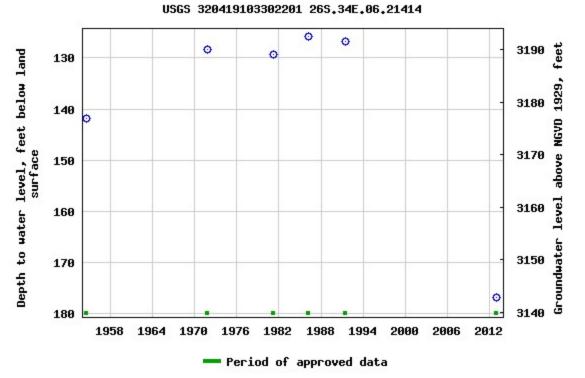
### **Output formats**

Table of data

Tab-separated data

Graph of data

Reselect period



Breaks in the plot represent a gap of at least one year between field measurements.

Download a presentation-quality graph

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

AccessibilityPlug-InsFOIAPrivacyPolicies and NoticesU.S. Department of the InteriorU.S. Geological SurveyTitle:Groundwater for USA:Water LevelsURL:https://nwis.waterdata.usgs.gov/nwis/gwlevels?



Page Contact Information: USGS Water Data Support Team Page Last Modified: 2020-06-16 09:05:55 EDT 0.66 0.58 nadww01



**USGS Water Resources** 

USGS Home Contact USGS Search USGS

### **National Water Information System: Web Interface**

	Data Category:	Geographic Area:		
<u>•</u>	Groundwater $\vee$	United States	└   GO	

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- Full News 🔝

Groundwater levels for the Nation

### Search Results -- 1 sites found

site\_no list =

• 320419103302202

### **Minimum number of levels =** 1

Save file of selected sites to local disk for future upload

### USGS 320419103302202 26S.34E.06.21414A

Available data for this site Groundwater: Field measurements V GO Lea County, New Mexico Hydrologic Unit Code 13070007 Latitude 32°04'19", Longitude 103°30'22" NAD27

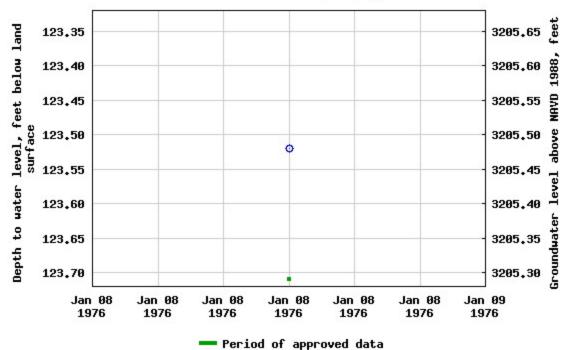
Land-surface elevation 3,329 feet above NAVD88

This well is completed in the Chinle Formation (231CHNL) local aquifer.

### **Output formats**

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

USGS 320419103302202 265.34E.06.21414A



Breaks in the plot represent a gap of at least one year between field measurements.

Download a presentation-quality graph

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

AccessibilityPlug-InsFOIAPrivacyPolicies and NoticesU.S. Department of the InteriorU.S. Geological SurveyTitle:Groundwater for USA:Water LevelsURL:https://nwis.waterdata.usgs.gov/nwis/gwlevels?



Page Contact Information: USGS Water Data Support Team Page Last Modified: 2020-06-16 09:04:13 EDT 0.67 0.55 nadww01

# APPENDIX C SAMPLING PROTOCOL, LINER INSPECTION FORM & LINER INSPECTION PHOTO LOG



### **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 Salado Draw 6 Fed #001H 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, and the several operational considerations (such as the liner within the battery and the construction of a new facility) that precluded the implementation of a different statistical design.

The soil samples were collected in laboratory supplied containers in accordance with this sampling protocol, immediately placed on ice and sent under standard chain-of-custody protocols to Hall Environmental Analysis Laboratory (HEAL) in Albuquerque, New Mexico for analysis. A total of one (1) 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.

# Souder, Miller & Associates

Souder, Miller & Associates Liner Inspection Form	∧ SMA
Project Name: Salado Inspection	Date: 7/16/2020
Client Name: Devon	
Client Representative(s):	57
SMA Inspector(s): Alicia A Lopez /Sebastion O	
	2.06540/ Longitude: <u>-103. 51480</u> / NRIN 20122. 42719
Inspection Parameters as Outlined in 19.15.29.11.A(5) NMAC	
PRIOR TO INSPECTION: Two (2) Business Day Notification of Inspection to Appropriate I Date of Notice: <u>7/14/20</u> 20	Division Office $(Y/N)$ : $\bigvee$
Material Covering Liner Removed by Client	(Y/N):
Affected Areas Exposed by Client	(Y/N): <u> </u>
INSPECTION: Liner Thoroughly Inspected for Damage	(Y/N):
All Damaged Areas Observed Marked in White Paint on Liner Photos and Field Notes Detailing Failures Attached to Thi	s Form
<b>To Be Completed by Client Representative:</b> Can Responsible Party Demonstrate:	
Liner Integrity Was Maintained (per SMA Inspection) Release Was Contained to Lined Containment Area Liner Was Able to Contain the Leak	(Y/N): (Y/N): (Y/N):
If <b>YES</b> : Certify on Form C-141 That Liner Remains Intact	
If <b>NO</b> to Any of Above: Responsible Party Must Delineate Horizontal & Vo Depending on Release: See Table 1 19.15.29.12 NMAC See Subparagraph (e) Paragraph (5) of Sul	

**Additional Comments:** 

Date:

SMA INSPECTOR SIGNATÜRE

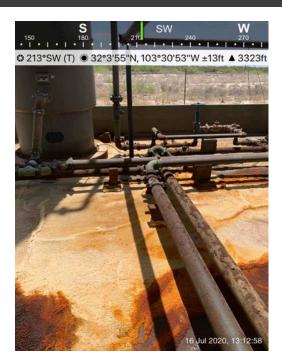
7/18/202

**CLIENT REPRESENTATIVE** 

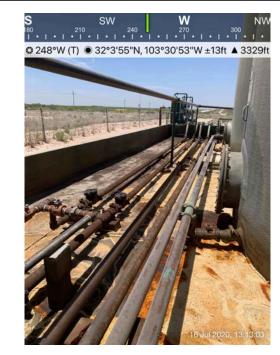
Date: 7777/20









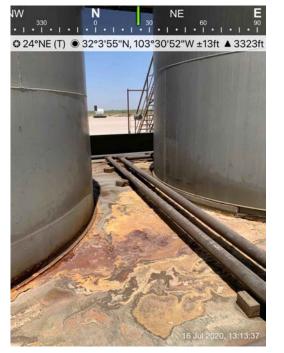


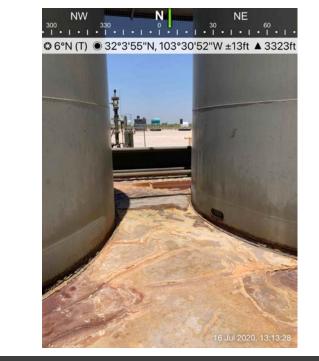


















# APPENDIX D EPA ON-LINE TOOLS FOR SITE ASSESSMENT CALCULATION

### **EPA On-line Tools for Site Assessment Calculation**

Hydraulic Gradient -- Magnitude and Direction

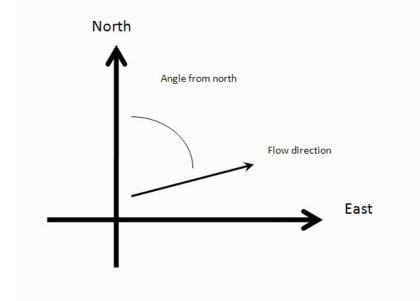
Gradient Calculation from fitting a plane to as many as thirty points

where  $(\boldsymbol{x}_i,\boldsymbol{y}_i)$  are the coordinates of the well and  $\boldsymbol{h}_i$  is the head

i = 1,2,3, ... , 30

The coefficients a, b, and c are calculated by a least-squares fitting of the the data to a plane

The gradient is calculated from the square root of  $(a^2 + b^2)$  and the angle from the arctangent of a/b or b/a depending on the quadrant



Inputs

Inputs									
Example Data Set 1 Example Data Set 2 Calculate Clear									
Save Data	Recall Data Go Back								
Site Name	Salado Draw 6	Salado Draw 6							
Date	6/16/2020	Curre	ent Date						
Calculation basis	Head	Head V							
Coordinates  ft ~	Coordinates ft V								
I.D.	x-coordinate	y-coordinate	head ft 🗸						
1) C-02313	636971	3552098	3213						
2) C-02316	642003	3551967	3260						
3) C-02316	642003	3551967	3271						
4) C-02291	640825	3550140	3155						
5) C-03441	640970.7	3550039.6	3187						
6) C-03442	641055.8	3550028.1	3187						
7) C-02292	640991.6	3549987.2	3176						
8) C-02295	639850	3547710	3144						
9) C-02287	636612	3548675	3148						
10) C-02288	636645.9	3548758.5	3126						
11) C-02285	636612.9	3548855	3086						
12) C-2290	636538	3548770.9	3143						
13) C-02286	636469.5	3548714.8	3130						
14)									
15)									
16)									
17)									

18)			
19)			
20)			
21)			
22)			
23)			
24)			
25)			
26)			
27)			
28)			
29)			
30)			
Results			
Number of Points Us	sed in Calculation	n	13

Number of Points Used in Calculation	13
Max. Difference Between Head Values	56.39
Gradient Magnitude (i)	0.02671
Flow direction as degrees from North (positive y axis)	) 196.0
Coefficient of Determination (R <sup>2</sup> )	0.837
WCMS	

Last updated on 2/23/2016

# APPENDIX E LABORATORY ANALYTICAL REPORTS



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

June 17, 2020

Ashley Maxwell Souder, Miller & Associates 201 S Halagueno Carlsbad, NM 88221 TEL: FAX

OrderNo.: 2006370

RE: Salado Draw 6

Dear Ashley Maxwell:

Hall Environmental Analysis Laboratory received 2 sample(s) on 6/6/2020 for the analyses presented in the following report.

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

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

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report

Lab Order 2006370

Date Reported: 6/17/2020

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates		Cl	ient Sample II	D: SL	.1-1'		
<b>Project:</b> Salado Draw 6	Collection Date: 6/5/2020 10:49:00 AM						
Lab ID: 2006370-001	Matrix: SOIL		<b>Received Dat</b>	<b>e:</b> 6/6	5/2020 9:00:00 AM		
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analyst	MRA	
Chloride	4300	150	mg/Kg	50	6/15/2020 9:39:23 PM	53073	
EPA METHOD 8015D MOD: GASOLINE	RANGE				Analyst	: JMR	
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	6/8/2020 6:55:38 AM	52926	
Surr: BFB	102	70-130	%Rec	1	6/8/2020 6:55:38 AM	52926	
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst	BRM	
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	6/8/2020 1:38:10 PM	52935	
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	6/8/2020 1:38:10 PM	52935	
Surr: DNOP	97.9	55.1-146	%Rec	1	6/8/2020 1:38:10 PM	52935	
EPA METHOD 8260B: VOLATILES SHO	RTLIST				Analyst	: JMR	
Benzene	ND	0.025	mg/Kg	1	6/8/2020 6:55:38 AM	52926	
Toluene	ND	0.050	mg/Kg	1	6/8/2020 6:55:38 AM	52926	
Ethylbenzene	ND	0.050	mg/Kg	1	6/8/2020 6:55:38 AM	52926	
Xylenes, Total	ND	0.10	mg/Kg	1	6/8/2020 6:55:38 AM	52926	
Surr: 1,2-Dichloroethane-d4	92.9	70-130	%Rec	1	6/8/2020 6:55:38 AM	52926	
Surr: 4-Bromofluorobenzene	95.2	70-130	%Rec	1	6/8/2020 6:55:38 AM	52926	
Surr: Dibromofluoromethane	99.2	70-130	%Rec	1	6/8/2020 6:55:38 AM	52926	
Surr: Toluene-d8	95.1	70-130	%Rec	1	6/8/2020 6:55:38 AM	52926	

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

Qualifiers:

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

S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 6

Analytical Report

Lab Order 2006370

Date Reported: 6/17/2020

CLIENT: Souder, Miller & Associates		Cl	ient Sample II	D: SL	.1-1.5'			
<b>Project:</b> Salado Draw 6	Collection Date: 6/5/2020 10:50:00 AM							
Lab ID: 2006370-002	Matrix: SOIL		<b>Received Dat</b>	<b>e:</b> 6/6	5/2020 9:00:00 AM			
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS					Analysi	CAS		
Chloride	1400	60	mg/Kg	20	6/15/2020 1:52:53 AM	53073		
EPA METHOD 8015D MOD: GASOLINE I	RANGE				Analyst	: JMR		
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	6/8/2020 7:24:15 AM	52926		
Surr: BFB	97.0	70-130	%Rec	1	6/8/2020 7:24:15 AM	52926		
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	BRM		
Diesel Range Organics (DRO)	ND	9.1	mg/Kg	1	6/8/2020 2:02:25 PM	52935		
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	6/8/2020 2:02:25 PM	52935		
Surr: DNOP	97.4	55.1-146	%Rec	1	6/8/2020 2:02:25 PM	52935		
EPA METHOD 8260B: VOLATILES SHOP					Analyst	: JMR		
Benzene	ND	0.025	mg/Kg	1	6/8/2020 7:24:15 AM	52926		
Toluene	ND	0.049	mg/Kg	1	6/8/2020 7:24:15 AM	52926		
Ethylbenzene	ND	0.049	mg/Kg	1	6/8/2020 7:24:15 AM	52926		
Xylenes, Total	ND	0.099	mg/Kg	1	6/8/2020 7:24:15 AM	52926		
Surr: 1,2-Dichloroethane-d4	96.0	70-130	%Rec	1	6/8/2020 7:24:15 AM	52926		
Surr: 4-Bromofluorobenzene	91.4	70-130	%Rec	1	6/8/2020 7:24:15 AM	52926		
Surr: Dibromofluoromethane	105	70-130	%Rec	1	6/8/2020 7:24:15 AM	52926		
Surr: Toluene-d8	91.4	70-130	%Rec	1	6/8/2020 7:24:15 AM	52926		

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

2006370	WO#:
17-Jun-20	

Client: Project:		er, Miller & As o Draw 6	ssociate	es							
Sample ID: MB	-53073	SampT	ype: <b>m</b> k	olk	Tes	tCode: EP	A Method	300.0: Anion	s		
Client ID: PB	s	Batch	n ID: 53	073	F	RunNo: <b>6</b> 9	641				
Prep Date: 6/	14/2020	Analysis D	ate: 6/	14/2020	S	SeqNo: 24	17494	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID: LC	S-53073	SampT	ype: Ics	;	Tes	tCode: EP	A Method	300.0: Anion	s		
Client ID: LC:	SS	Batch	n ID: 53	073	F	RunNo: <b>69</b>	641				
Prep Date: 6/	14/2020	Analysis D	ate: 6/	14/2020	S	SeqNo: 24	17495	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	95.6	90	110			

#### **Qualifiers:**

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- RL Reporting Limit

WO#:	2006370

17-Jun-20

	er, Miller & A o Draw 6	ssociate	es							
Sample ID: MB-52935	SampT	Гуре: МЕ	BLK	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: PBS	Batcl	h ID: 52	935	F	RunNo: <b>6</b>	9465				
Prep Date: 6/7/2020	Analysis D	Date: 6/	8/2020	S	SeqNo: 2	410165	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 Range Organics (MRO)	ND	50								
Surr: DNOP	7.9		10.00		79.0	55.1	146			
Sample ID: LCS-52935	SampT	Гуре: <b>LC</b>	s	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: LCSS	Batcl	h ID: 52	935	F	RunNo: 6	9465				
Prep Date: 6/7/2020	Analysis D	Date: 6/	8/2020	5	SeqNo: 2	410166	Units: mg/K	íg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	91.0	70	130			
Surr: DNOP	3.9		5.000		77.4	55.1	146			

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- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

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- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

WO#:	2006370

17 <b>-</b> J	un-20
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Client: Project:	Souder, Miller & Salado Draw 6	Associate	es									
-												
Sample ID: mb-52	<b>926</b> Sam	рТуре: МВ	BLK	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: PBS	Ва	tch ID: 52	926	RunNo: 69467								
Prep Date: 6/6/2	020 Analysis	Date: 6/	7/2020	S	SeqNo: 24	410169	Units: mg/K	(g				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	ND	0.025										
Toluene	ND	0.050										
Ethylbenzene	ND	0.050										
Xylenes, Total	ND	0.10										
Surr: 1,2-Dichloroetha	ane-d4 0.46		0.5000		92.5	70	130					
Surr: 4-Bromofluorobe	enzene 0.48		0.5000		95.3	70	130					
Surr: Dibromofluorom	ethane 0.49		0.5000		98.8	70	130					
Surr: Toluene-d8	0.48		0.5000		96.3	70	130					
Surr: Toluene-d8 Sample ID: Ics-52		pType: LC		Tes		-	130 8260B: Volat	iles Short	List			
	<b>926</b> Sam	pType: <b>LC</b> tch ID: <b>52</b>	:S4			PA Method		iles Short	List			
Sample ID: Ics-52	<b>926</b> Sam <b>QC</b> Ba		:S4 926	F	tCode: El	PA Method 9467			List			
Sample ID: Ics-52	<b>926</b> Sam <b>QC</b> Ba	tch ID: 52 Date: 6/	:S4 926 7/2020	F	tCode: El	PA Method 9467	8260B: Volat		List	Qual		
Sample ID: Ics-52 Client ID: Batch Prep Date: 6/6/20	926 Sam QC Ba 020 Analysis	tch ID: 52 Date: 6/	:S4 926 7/2020	F S	tCode: El RunNo: 69 SeqNo: 24	PA Method 9467 410170	8260B: Volat	g		Qual		
Sample ID: Ics-529 Client ID: Batcho Prep Date: 6/6/20 Analyte	926 Sam QC Ba 020 Analysis Result	tch ID: <b>52</b> Date: <b>6</b> /	: <b>S4</b> 926 7/2020 SPK value	R S SPK Ref Val	tCode: El RunNo: 69 SeqNo: 24 %REC	PA Method 9467 410170 LowLimit	8260B: Volat Units: mg/K HighLimit	g		Qual		
Sample ID: Ics-529 Client ID: Batch Prep Date: 6/6/20 Analyte Benzene	926 Sam QC Ba 020 Analysis Result 1.0	tch ID: <b>52</b> Date: <b>6/</b> PQL 0.025	354 926 7/2020 SPK value 1.000	F S SPK Ref Val 0	tCode: El RunNo: 69 SeqNo: 24 %REC 101	PA Method 9467 410170 LowLimit 80	8260B: Volat Units: mg/K HighLimit 120	g		Qual		
Sample ID: Ics-529 Client ID: Batch Prep Date: 6/6/20 Analyte Benzene Toluene	926 Sam QC Ba 020 Analysis Result 1.0 0.99	tch ID: <b>52</b> Date: <b>6</b> / PQL 0.025 0.050	<b>54</b> 926 7/2020 SPK value 1.000 1.000	F S SPK Ref Val 0 0	tCode: <b>El</b> RunNo: <b>6</b> SeqNo: <b>2</b> %REC 101 98.9	PA Method 9467 410170 LowLimit 80 80	8260B: Volat Units: mg/K HighLimit 120 120	g		Qual		
Sample ID: Ics-529 Client ID: Batch Prep Date: 6/6/20 Analyte Benzene Toluene Ethylbenzene	926 Sam QC Ba 020 Analysis Result 1.0 0.99 1.0 3.1	tch ID: <b>52</b> Date: <b>6/</b> <u>PQL</u> 0.025 0.050 0.050 0.10	<b>54</b> 926 7/2020 SPK value 1.000 1.000 1.000	F S SPK Ref Val 0 0 0	tCode: <b>El</b> RunNo: <b>6</b> SeqNo: <b>2</b> %REC 101 98.9 101	PA Method 9467 410170 LowLimit 80 80 80	8260B: Volat Units: mg/K HighLimit 120 120 120	g		Qual		
Sample ID: Ics-529 Client ID: Batcho Prep Date: 6/6/20 Analyte Benzene Toluene Ethylbenzene Xylenes, Total	926 Sam QC Ba 020 Analysis Result 1.0 0.99 1.0 3.1 ane-d4 0.46	tch ID: <b>52</b> Date: <b>6/</b> <u>PQL</u> 0.025 0.050 0.050 0.10	<b>54</b> <b>926</b> <b>7/2020</b> SPK value 1.000 1.000 1.000 3.000	F S SPK Ref Val 0 0 0	tCode: El RunNo: 6 SeqNo: 2 %REC 101 98.9 101 103	PA Method 9467 410170 LowLimit 80 80 80 80 80	8260B: Volat Units: mg/K HighLimit 120 120 120 120	g		Qual		
Sample ID: Ics-529 Client ID: Batche Prep Date: 6/6/20 Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 1,2-Dichloroetha	926         Sam           QC         Ba           020         Analysis           Result         1.0           0.99         1.0           3.1         3.1           ane-d4         0.46           enzene         0.47	tch ID: <b>52</b> Date: <b>6/</b> <u>PQL</u> 0.025 0.050 0.050 0.10	<b>S4</b> <b>926</b> <b>7/2020</b> SPK value 1.000 1.000 1.000 3.000 0.5000	F S SPK Ref Val 0 0 0	tCode: <b>EI</b> RunNo: <b>6</b> SeqNo: <b>2</b> %REC 101 98.9 101 103 92.8	PA Method 9467 410170 LowLimit 80 80 80 80 70	8260B: Volat Units: mg/K HighLimit 120 120 120 120 130	g		Qual		

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- S % Recovery outside of range due to dilution or matrix

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- J Analyte detected below quantitation limits
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- RL Reporting Limit

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WO#:	2006370
	17-Jun-20

	er, Miller & A lo Draw 6	ssociate	S							
Sample ID: mb-52926	Samp	Гуре: МЕ	BLK	Tes	tCode: El	PA Method	8015D Mod:	Gasoline	Range	
Client ID: PBS	Batc	Batch ID: 52926			RunNo: 6	9467				
Prep Date: 6/6/2020	Analysis [	Date: 6/	7/2020	S	SeqNo: 24	410208	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO	) ND	5.0								
Surr: BFB	470		500.0		94.3	70	130			
Sample ID: Ics-52926	Samp	Гуре: <b>LC</b>	S	Tes	tCode: El	PA Method	8015D Mod:	Gasoline	Range	
Client ID: LCSS	Batc	h ID: 52	926	F	RunNo: <b>6</b> 9	9467				
Prep Date: 6/6/2020	Analysis [	Date: 6/	7/2020	S	SeqNo: 24	410209	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO	) 21	5.0	25.00	0	82.2	70	130			
Surr: BFB	490		500.0		98.6	70	130			

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- J Analyte detected below quantitation limits
- P Sample pH Not In Range
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HALL ENVIRO ANALY LABOR		AL.	TEL	L: 505-345-3	490. Albuquerqu 975 FAX:	is Laboratory 1 Hawkins NI ue, NM 87109 505-345-4107 onmental.com	s Sar	nple Log-In C	heck List
Client Name:	SMA-CARL	SBAD	Work	Order Num	ber: 2006	370		RcptNo:	1
Received By:	Desiree Do	ominguez	6/6/202	0 9:00:00 A	M	-	EP2		
Completed By:	Desiree Do	ominguez	6/6/202	0 9:24:42 A	M	-	P>		
Reviewed By:	F 6/6/2	2020							
Chain of Cust	ody								
1. Is Chain of Cus	stody compl	ete?			Yes	$\checkmark$	No 🗌	Not Present	
2. How was the s	ample delive	ered?			Cour	er			
Log In								_	
3. Was an attemp	ot made to co	ool the sample	es?		Yes	$\checkmark$	No 🗌	NA 🗌	
4. Were all sample	es received	at a temperati	ure of ≥0° C t	o 6.0°C	Yes	$\checkmark$	No 🗌		
5. Sample(s) in pr	oper contair	ner(s)?			Yes	$\checkmark$	No 🗌		
6. Sufficient samp	le volume fo	r indicated tes	st(s)?		Yes	$\checkmark$	No 🗌		
7. Are samples (ex	xcept VOA a	nd ONG) prop	erly preserve	d?	Yes	$\checkmark$	No 🗌		
8. Was preservativ	ve added to	bottles?			Yes		No 🗹	NA 🗌	
9. Received at lea	st 1 vial with	headspace <	1/4" for AQ V	OA?	Yes		No 🗌	NA 🗹	
10. Were any samp	ole containe	rs received bro	oken?		Yes		No 🗹	# of preserved	
11.Does paperworl (Note discrepan					Yes	$\checkmark$	No 🗌	bottles checked for pH:	>12 unless noted)
12. Are matrices co		••	of Custody?		Yes	$\checkmark$	No 🗌	Adjusted?	,
13. Is it clear what a	analyses we	re requested?			Yes	$\checkmark$	No 🗌		
14. Were all holding (If no, notify cus					Yes	$\checkmark$	No 🗌	Checked by: D	AD 6/6120
<u>Special Handlir</u>	ng (if app	licable)							
15. Was client noti	fied of all dis	crepancies wi	th this order?		Yes		No 🗌	NA 🗹	
Person N	lotified:			Date			erene automotional		
By Whom	n: 🗍			Via:	eMa	il 🗌 Phon	e 🗌 Fax	In Person	
Regardin	g: [								
Client Ins	tructions:		J						
16. Additional rem	arks:								
17. <u>Cooler Inform</u> Cooler No	nation Temp ºC	Condition	Seal Intact	Seal No	Seal Da	te Sig	ned By		5. 
1	3.0	Good	Not Present						

	ANALYSIS LABORATORY	www.hallenvironmental.com	4901 Hawkins NE - Albuquerque, NM 87109	505-345-3975 Fax 505-345-4107	Analysis		PO4, S	10 <sup>5,</sup>	or 8 ,, N ,, N	- \C 10 <sup>3</sup> 10 <sup>3</sup>	y 83 3 Me 5 (AO) 9 (AO)	EDB (M PAHs b RCRA 8 8260 (V 8250 (V Total Co	~~							s: hreet Bill: Devon Erovay	(Hold Samples)
			901 Ha	Tel. 505				280	)8/s	əbi	oitee	9 1808 Pe								s: Arect	t
			4	-								ВТЕХ / ТРН:80 <sup>,</sup>					_			Remarks:	
Turn-Around Time:	D Standard Rush 5 day furn	Project Name:	Salado Drow #6		W10# 36859194		AShley Manusch	AA	The Angle An		Cooler Temp(including CF): $2\sqrt{8} + 0\sqrt{2} = 3\sqrt{0}$ (°C)	Container Preservative 2006340	100-	200-				-	0	Received by Viar Date Time F	Time: Relinquished by: Received by via: Date Time (HUL Carm Nes)
Chain-of-Custody Record	Client: SMA- Carlshaud		Mailing Address:		Phone #:	email or Fax#:	QA/QC Package:	Accreditation:	=	EDD (Type)		Date Time Matrix Sample Name	4/2/201 04 2011 22275 1'	1 84 54 - 1.51					(	Pate: Time: Relinquished by:	Date: Time: Relinquished by:



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

June 17, 2020

Ashley Maxwell Souder, Miller & Associates 201 S Halagueno Carlsbad, NM 88221 TEL: FAX

OrderNo.: 2006371

RE: Salado Draw 6

Dear Ashley Maxwell:

Hall Environmental Analysis Laboratory received 2 sample(s) on 6/6/2020 for the analyses presented in the following report.

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

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

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report

### Hall Environmental Analysis Laboratory, Inc.

Lab Order **2006371** Date Reported: **6/17/2020** 

CLIENT: Souder, Miller & Associates		Cl	ient Sample II	D: SI	L1-Surface	
<b>Project:</b> Salado Draw 6		(	Collection Dat	<b>e:</b> 6/.	5/2020 10:46:00 AM	
Lab ID: 2006371-001	Matrix: SOIL		<b>Received Dat</b>	<b>e:</b> 6/	6/2020 9:00:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: MRA
Chloride	16000	600	mg/Kg	20	0 6/15/2020 9:51:48 PM	53073
EPA METHOD 8015D MOD: GASOLIN	NE RANGE				Analyst	: JMR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	6/8/2020 7:53:02 AM	52926
Surr: BFB	99.8	70-130	%Rec	1	6/8/2020 7:53:02 AM	52926
EPA METHOD 8015M/D: DIESEL RAM	IGE ORGANICS				Analyst	BRM
Diesel Range Organics (DRO)	12	9.7	mg/Kg	1	6/8/2020 2:26:39 PM	52935
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	6/8/2020 2:26:39 PM	52935
Surr: DNOP	97.6	55.1-146	%Rec	1	6/8/2020 2:26:39 PM	52935
EPA METHOD 8260B: VOLATILES SI	HORT LIST				Analyst	: JMR
Benzene	ND	0.025	mg/Kg	1	6/8/2020 7:53:02 AM	52926
Toluene	ND	0.049	mg/Kg	1	6/8/2020 7:53:02 AM	52926
Ethylbenzene	ND	0.049	mg/Kg	1	6/8/2020 7:53:02 AM	52926
Xylenes, Total	ND	0.099	mg/Kg	1	6/8/2020 7:53:02 AM	52926
Surr: 1,2-Dichloroethane-d4	93.5	70-130	%Rec	1	6/8/2020 7:53:02 AM	52926
Surr: 4-Bromofluorobenzene	97.4	70-130	%Rec	1	6/8/2020 7:53:02 AM	52926
Surr: Dibromofluoromethane	101	70-130	%Rec	1	6/8/2020 7:53:02 AM	52926
Surr: Toluene-d8	92.5	70-130	%Rec	1	6/8/2020 7:53:02 AM	52926

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

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- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 6

Analytical Report

Lab Order 2006371

Date Reported: 6/17/2020

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates		Cl	ient Sample II	D: SL	.1-0.5'	
<b>Project:</b> Salado Draw 6		(	Collection Dat	<b>e:</b> 6/5	5/2020 10:48:00 AM	
Lab ID: 2006371-002	Matrix: SOIL		<b>Received Dat</b>	<b>e:</b> 6/6	5/2020 9:00:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	4100	150	mg/Kg	50	6/15/2020 10:04:13 PM	53073
EPA METHOD 8015D MOD: GASOLINE	RANGE				Analyst	: JMR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	6/8/2020 8:21:38 AM	52926
Surr: BFB	97.2	70-130	%Rec	1	6/8/2020 8:21:38 AM	52926
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	6/8/2020 2:51:01 PM	52935
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	6/8/2020 2:51:01 PM	52935
Surr: DNOP	92.5	55.1-146	%Rec	1	6/8/2020 2:51:01 PM	52935
EPA METHOD 8260B: VOLATILES SHO	RT LIST				Analyst	: JMR
Benzene	ND	0.025	mg/Kg	1	6/8/2020 8:21:38 AM	52926
Toluene	ND	0.049	mg/Kg	1	6/8/2020 8:21:38 AM	52926
Ethylbenzene	ND	0.049	mg/Kg	1	6/8/2020 8:21:38 AM	52926
Xylenes, Total	ND	0.098	mg/Kg	1	6/8/2020 8:21:38 AM	52926
Surr: 1,2-Dichloroethane-d4	93.5	70-130	%Rec	1	6/8/2020 8:21:38 AM	52926
Surr: 4-Bromofluorobenzene	91.2	70-130	%Rec	1	6/8/2020 8:21:38 AM	52926
Surr: Dibromofluoromethane	101	70-130	%Rec	1	6/8/2020 8:21:38 AM	52926
Surr: Toluene-d8	91.8	70-130	%Rec	1	6/8/2020 8:21:38 AM	52926

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
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- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

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- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 2 of 6

WO#:	2006371
	17 7 20

	ider, Miller & Associates ado Draw 6				
Sample ID: MB-53073	SampType: <b>mblk</b>	TestCode: EPA Method	300.0: Anions		
Client ID: PBS	Batch ID: 53073	RunNo: 69641			
Prep Date: 6/14/2020	Analysis Date: 6/14/2020	SeqNo: 2417494	Units: mg/Kg		
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit	Qual
Chloride	ND 1.5				
Sample ID: LCS-53073	SampType: Ics	TestCode: EPA Method	300.0: Anions		
Client ID: LCSS	Batch ID: 53073	RunNo: 69641			
Prep Date: 6/14/2020	Analysis Date: 6/14/2020	SeqNo: 2417495	Units: mg/Kg		
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit	Qual
Chloride	14 1.5 15.00	0 95.6 90	110		

#### **Qualifiers:**

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

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

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WO#:	2006371

17-Jun-20

,	ssociate	es										
Samp	Гуре: МЕ	BLK	Tes	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Batc	h ID: 52	935	F	RunNo: 69								
Analysis I	Date: 6/	8/2020	S	SeqNo: 24	410165	Units: <b>mg/H</b>	٢g					
Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
ND	10											
)) ND	50											
7.9		10.00		79.0	55.1	146						
Samp	Гуре: LC	S	Tes	tCode: EF	PA Method	8015M/D: Di	esel Range	e Organics				
Batc	h ID: 52	935	F	RunNo: 69	9465							
Analysis [	Date: 6/	8/2020	S	SeqNo: 24	410166	Units: <b>mg/k</b>	٢g					
Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
46	10	50.00	0	91.0	70	130						
	do Draw 6 Samp Batc Analysis I Result ND ND 7.9 Samp Batc Analysis I Result	do Draw 6 SampType: ME Batch ID: 52 Analysis Date: 6/ Result PQL ND 10 D) ND 50 7.9 SampType: LC Batch ID: 52 Analysis Date: 6/ Result PQL	SampType: MBLK Batch ID: 52935 Analysis Date: 6/8/2020 Result PQL SPK value ND 10 ND 50 7.9 10.00 SampType: LCS Batch ID: 52935 Analysis Date: 6/8/2020 Result PQL SPK value	do Draw 6 SampType: MBLK Tes Batch ID: 52935 F Analysis Date: 6/8/2020 S Result PQL SPK value SPK Ref Val ND 10 ND 50 7.9 10.00 SampType: LCS Tes Batch ID: 52935 F Analysis Date: 6/8/2020 S Result PQL SPK value SPK Ref Val	do Draw 6 SampType: MBLK TestCode: EF Batch ID: 52935 RunNo: 69 Analysis Date: 6/8/2020 SeqNo: 24 Result PQL SPK value SPK Ref Val %REC ND 10 ND 50 7.9 10.00 79.0 SampType: LCS TestCode: EF Batch ID: 52935 RunNo: 69 Analysis Date: 6/8/2020 SeqNo: 24 Result PQL SPK value SPK Ref Val %REC	do Draw 6 SampType: MBLK TestCode: EPA Method Batch ID: 52935 RunNo: 69465 Analysis Date: 6/8/2020 SeqNo: 2410165 Result PQL SPK value SPK Ref Val %REC LowLimit ND 10 ND 50 7.9 10.00 79.0 55.1 SampType: LCS TestCode: EPA Method Batch ID: 52935 RunNo: 69465 Analysis Date: 6/8/2020 SeqNo: 2410166 Result PQL SPK value SPK Ref Val %REC LowLimit	do Draw 6          SampType:       MBLK       TestCode:       EPA Method 8015M/D: Dia         Batch ID:       52935       RunNo:       69465         Analysis Date:       6/8/2020       SeqNo:       2410165       Units:       mg/k         Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit         ND       10       ND       50       7.9       10.00       79.0       55.1       146         SampType:       LCS       TestCode:       EPA Method 8015M/D: Dia         Batch ID:       52935       RunNo:       69465         Analysis Date:       6/8/2020       SeqNo:       2410166       Units:       mg/k         Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit	do Draw 6         SampType: MBLK       TestCode: EPA Method 8015M/D: Diesel Range         Batch ID: 52935       RunNo: 69465         Analysis Date:       6/8/2020       SeqNo: 2410165       Units: mg/Kg         Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD         ND       10       ND       50       7.9       10.00       79.0       55.1       146         SampType:       LCS       TestCode:       EPA Method 8015M/D: Diesel Range         Batch ID:       52935       RunNo:       69465         Analysis Date:       6/8/2020       SeqNo:       2410166       Units: mg/Kg         Batch ID:       52935       RunNo:       69465         Analysis Date:       6/8/2020       SeqNo:       2410166       Units: mg/Kg         Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD	do Draw 6         SampType:       MBLK         Batch ID:       52935         RunNo:       69465         Analysis Date:       6/8/2020         SeqNo:       2410165         Units:       mg/Kg         Result       PQL         SPK value       SPK Ref Val         ND       10         ND       50         7.9       10.00         79.0       55.1         146         SampType:       LCS         TestCode:       EPA Method 8015M/D: Diesel Range Organics         Batch ID:       52935         RunNo:       69465         Analysis Date:       6/8/2020         SeqNo:       2410166         Units:       mg/Kg         Result       PQL         SPK value       SPK Ref Val         % REC       LowLimit         HighLimit       % RPD         Result       PQL         SPK value       SPK Ref Val         % REC       LowLimit         HighLimit       % RPD         Result       PQL         SPK value       SPK Ref Val			

Qualifiers:

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- D Sample Diluted Due to Matrix
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- J Analyte detected below quantitation limits
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- RL Reporting Limit

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WO#:	2000	5371
		• •

Client: Souder	, Miller & A	ssociate	s									
Project: Salado	Draw 6											
Sample ID: mb-52926	Samp	Гуре: <b>МЕ</b>	BLK	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: PBS	Batc	h ID: 529	926	F	RunNo: 69467							
Prep Date: 6/6/2020	Analysis [	Date: 6/	7/2020	S	SeqNo: 24	410169	Units: mg/K	٤g				
Analyte	Result	Result PQL SPK value S		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: 1,2-Dichloroethane-d4	0.46		0.5000		92.5	70	130					
Surr: 4-Bromofluorobenzene	0.48		0.5000		95.3	70	130					
Come Diharan after a second the second	0.40		0 5000		00.0	70	400					
Surr: Dibromofluoromethane	0.49		0.5000		98.8	70	130					
Surr: Dibromofluoromethane Surr: Toluene-d8	0.49 0.48		0.5000 0.5000		98.8 96.3	70 70	130 130					
	0.48	Гуре: <b>LC</b>	0.5000	Tes	96.3	70		tiles Short	List			
Surr: Toluene-d8	0.48 SampT	Гуре: <b>LC</b> h ID: <b>52</b>	0.5000		96.3	70 PA Method	130	tiles Short	List			
Surr: Toluene-d8 Sample ID: Ics-52926	0.48 SampT	h ID: 529	0.5000 S4 926	F	96.3 tCode: El	70 PA Method 9467	130		List			
Surr: Toluene-d8 Sample ID: Ics-52926 Client ID: BatchQC	0.48 SampT Batc	h ID: 529	0.5000 S4 926 7/2020	F	96.3 tCode: <b>Ef</b> RunNo: <b>6</b>	70 PA Method 9467	130 8260B: Volat		<b>List</b> RPDLimit	Qual		
Surr: Toluene-d8 Sample ID: Ics-52926 Client ID: BatchQC Prep Date: 6/6/2020	0.48 Samp Batc Analysis I	h ID: 529 Date: 6/	0.5000 S4 926 7/2020	F S	96.3 tCode: El RunNo: 69 SeqNo: 24	70 PA Method 9467 410170	130 8260B: Volat Units: mg/K	ζg		Qual		
Surr: Toluene-d8 Sample ID: Ics-52926 Client ID: BatchQC Prep Date: 6/6/2020 Analyte	0.48 Samp Batc Analysis I Result	h ID: 529 Date: 6/	0.5000 <b>S4</b> <b>926</b> <b>7/2020</b> SPK value	R S SPK Ref Val	96.3 tCode: <b>El</b> RunNo: <b>6</b> SeqNo: <b>2</b> %REC	70 PA Method 9467 410170 LowLimit	130 8260B: Volat Units: mg/K HighLimit	ζg		Qual		
Surr: Toluene-d8 Sample ID: Ics-52926 Client ID: BatchQC Prep Date: 6/6/2020 Analyte Benzene	0.48 SampT Batc Analysis I Result 1.0	h ID: <b>52</b> Date: <b>6</b> / PQL 0.025	0.5000 <b>S4</b> <b>926</b> <b>7/2020</b> SPK value 1.000	F S SPK Ref Val 0	96.3 tCode: El RunNo: 69 SeqNo: 24 %REC 101	70 PA Method 9467 410170 LowLimit 80	130 8260B: Volat Units: mg/K HighLimit 120	ζg		Qual		
Surr: Toluene-d8 Sample ID: Ics-52926 Client ID: BatchQC Prep Date: 6/6/2020 Analyte Benzene Toluene	0.48 SampT Batc Analysis E Result 1.0 0.99	h ID: <b>52</b> Date: <b>6</b> PQL 0.025 0.050	0.5000 <b>S4</b> <b>926</b> <b>7/2020</b> SPK value 1.000 1.000	F S SPK Ref Val 0 0	96.3 tCode: El RunNo: 69 SeqNo: 24 %REC 101 98.9	70 PA Method 9467 410170 LowLimit 80 80	130 8260B: Volat Units: mg/K HighLimit 120 120	ζg		Qual		
Surr: Toluene-d8 Sample ID: Ics-52926 Client ID: BatchQC Prep Date: 6/6/2020 Analyte Benzene Toluene Ethylbenzene	0.48 SampT Batc Analysis E Result 1.0 0.99 1.0	h ID: <b>52</b> Date: <b>6</b> PQL 0.025 0.050 0.050	0.5000 <b>S4</b> <b>926</b> <b>7/2020</b> SPK value 1.000 1.000 1.000	F S SPK Ref Val 0 0 0	96.3 tCode: <b>El</b> RunNo: <b>6</b> SeqNo: <b>2</b> %REC 101 98.9 101	70 PA Method 9467 410170 LowLimit 80 80 80	130 <b>8260B: Volat</b> Units: <b>mg/k</b> <u>HighLimit</u> 120 120 120	ζg		Qual		
Surr: Toluene-d8 Sample ID: Ics-52926 Client ID: BatchQC Prep Date: 6/6/2020 Analyte Benzene Toluene Ethylbenzene Xylenes, Total	0.48 SampT Batc Analysis I Result 1.0 0.99 1.0 3.1	h ID: <b>52</b> Date: <b>6</b> PQL 0.025 0.050 0.050	0.5000 <b>S4</b> <b>926</b> <b>7/2020</b> SPK value 1.000 1.000 1.000 3.000	F S SPK Ref Val 0 0 0	96.3 tCode: <b>EI</b> RunNo: <b>6</b> SeqNo: <b>2</b> %REC 101 98.9 101 103	70 PA Method 9467 410170 LowLimit 80 80 80 80 80	130 8260B: Volat Units: mg/K HighLimit 120 120 120 120	ζg		Qual		
Surr: Toluene-d8 Sample ID: Ics-52926 Client ID: BatchQC Prep Date: 6/6/2020 Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 1,2-Dichloroethane-d4	0.48 Samp Batc Analysis I Result 1.0 0.99 1.0 3.1 0.46	h ID: <b>52</b> Date: <b>6</b> PQL 0.025 0.050 0.050	0.5000 <b>S4</b> <b>926</b> <b>7/2020</b> SPK value 1.000 1.000 1.000 3.000 0.5000	F S SPK Ref Val 0 0 0	96.3 tCode: El RunNo: 6 SeqNo: 2 %REC 101 98.9 101 103 92.8	70 PA Method 9467 410170 LowLimit 80 80 80 80 80 70	130 8260B: Volat Units: mg/K HighLimit 120 120 120 120 130	ζg		Qual		

#### Qualifiers:

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- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

WO#:	2006371
	17-Jun-20

	ler, Miller & A do Draw 6	ssociate	2S									
Sample ID: mb-52926	Samp	Гуре: МЕ	BLK	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: PBS	F	RunNo: 69	9467									
Prep Date: 6/6/2020	S	SeqNo: 24	410208	Units: mg/K	(g							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Gasoline Range Organics (GRC	) ND	5.0										
Surr: BFB	470		500.0		94.3	70	130					
Sample ID: Ics-52926	Samp	Гуре: <b>LC</b>	S	Tes	tCode: EF	PA Method	8015D Mod:	Gasoline	Range			
Client ID: LCSS	Batc	h ID: 52	926	F	RunNo: 69	9467						
Prep Date: 6/6/2020	Analysis [	Date: 6/	7/2020	S	SeqNo: 24	410209	Units: mg/K	(g				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Gasoline Range Organics (GRC	) 21	5.0	25.00	0	82.2	70	130					
Surr: BFB	490		500.0		98.6	70	130					

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HALL ENVIRONMENTAL ANALYSIS LABORATORY	TEL: 505-345-3975	4901 Hawkins uquerque, NM 87	NE 109 <b>Sam</b> 107	ple Log-In Check List
Client Name: SMA-CARLSBAD	Work Order Number	2006371		RcptNo: 1
Received By: Desiree Dominguez	6/6/2020 9:00:00 AM		1Pm	
Completed By: Desiree Dominguez Reviewed By: 44/2020	6/6/2020 9:29:33 AM		Dr.	
Chain of Custody		_	_	_
1. Is Chain of Custody complete?		Yes 🖌	No 🗌	Not Present
2. How was the sample delivered?		Courier		
Log In 3. Was an attempt made to cool the samples?		Yes 🖌	No 🗌	NA 🗌
4. Were all samples received at a temperature	of >0° C to 6.0°C	Yes 🗹	No 🗌	NA 🗌
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	y preserved?	Yes 🖌	No 🗌	
8. Was preservative added to bottles?		Yes	No 🗹	NA 🗌
9. Received at least 1 vial with headspace <1/4	for AQ VOA?	Yes	No 🗌	NA 🔽
10. Were any sample containers received broke	n?	Yes	No 🗹	# of preserved bottles checked
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🗹	No 🗌	for pH: (<2 or >12 unless noted)
12. Are matrices correctly identified on Chain of (	Custody?	Yes 🗹	No 🗌	Adjusted?
13. Is it clear what analyses were requested?		Yes 🗹	No 🗌	
<ol> <li>Were all holding times able to be met? (If no, notify customer for authorization.)</li> </ol>		Yes 🗹	No 🗌	Checked by: DAD 6/6/20
Special Handling (if applicable)				
15. Was client notified of all discrepancies with t	his order?	Yes	No 🗌	NA 🗹
Person Notified:	Date:		and and the second second of	
By Whom:	Via:	eMail 🗌 Ph	one 🗌 Fax	In Person
Regarding:	NATURAL AND DESILATION OF A DESCRIPTION			
Client Instructions:				
16. Additional remarks:				
	eal Intact Seal No S Present	eal Date S	Signed By	

	AALL ENVIRONMENTAL	www hallenvironmental com	4901 Hawkins NE - Albuquerque, NM 87109	505-345-3975 Fax 505-345-4107	Analysis		PO₄, S SMISC	(1. ,201 ,201	406 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	-VC 103 103 103	ethe N 83 (AC	EDB (Mo EDB (Mo RCRA 8 B2C0 (Vo 8220 (Vo 8270 (So 70tal Co	×								marks: Drect Bill: Devon eneral		This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.
			4901	Tel.			O / MK	אם /	05	19)	٩D	r08:НЧТ 9Ч r808	$\times$	/							Remarks: Dred		bility. Any
	5					(1	.208) s'	I MB	/	98. 	C) TM	NX318	X	/					_		C Rer	0	f this possit
Turn-Around Time:	Destandard Rush 5 day turn	Project Name:	Salado Drew #6		NO# 20859194	Project Manager:	Ashley Medicell	Sampler: LAA	On Ice:	olers:	Cooler Temp(including cF): 2, & +0, Z = 3,0 (°(	Container Preservative ACOC 341	402, 16.e -001								Via: Date	Received by: Via: Via: Jate lime	
ecord	Client: SMA - Carlsbad	-	Mailing Address:		Phone #:	email or Fax#:	QA/QC Package:	on:	Other	EDD (Type)		Time Matrix Sample Name	H- & Surace	10418 1 PSHE 0.	5-1						20 1 3 30 A Marked by:	1 me. Keinquished by: 5/20 1900 6	If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories.



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

July 14, 2020

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

RE: Salado Draw 6 Fed 1H

OrderNo.: 2007223

Dear Ashley Maxwell:

Hall Environmental Analysis Laboratory received 2 sample(s) on 7/7/2020 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	s Laboratory, In	<b>C.</b>	Lab Order <b>2007223</b> Date Reported: <b>7/14/2020</b>								
CLIENT: Souder, Miller & Associates		Client	Sample II	D: SL	1-2'						
<b>Project:</b> Salado Draw 6 Fed 1H	Collection Date: 7/2/2020 1:30:00 PM										
Lab ID: 2007223-001	Matrix: SOIL	Rec	Received Date: 7/7/2020 9:40:00 AM								
Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch					
EPA METHOD 300.0: ANIONS					Analy	st: JMT					
Chloride	ND	60	mg/Kg	20	7/10/2020 6:34:10 PN	1 53632					

**Analytical Report** 

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

Qualifiers:

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- P Sample pH Not In Range
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Page 1 of 3

Analytical Report	
Lab Order 2007223	

Hall Environmental Analysis	s Laboratory, Inc	•	Date Reported: 7/14/2020								
CLIENT: Souder, Miller & Associates		Client	Sample II	<b>D:</b> BC	31						
<b>Project:</b> Salado Draw 6 Fed 1H		<b>Collection Date:</b> 7/2/2020 1:43:00 PM									
Lab ID: 2007223-002	Matrix: SOIL	Re	<b>Received Date:</b> 7/7/2020 9:40:00 AM								
Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch					
EPA METHOD 300.0: ANIONS					Analys	st: JMT					
Chloride	ND	61	mg/Kg	20	7/10/2020 7:11:12 PN	53632					

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

Qualifiers:

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Page 2 of 3

WO#:	2007223
	14 1.1.20

14-Jul-20

Client: Project:		Miller & As Draw 6 Fed		es								
Sample ID: MB-	Tes	tCode: EF	PA Method	300.0: Anion	s							
Client ID: PBS	Client ID: PBS Batch ID: 53632					RunNo: <b>7(</b>	0271					
Prep Date: 7/1	rep Date: <b>7/10/2020</b> Analysis Date: <b>7/10/2020</b>					SeqNo: 24	142502	Units: mg/Kg				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Chloride		ND	1.5									
Sample ID: LCS	-53632	SampT	ype: Ics	5	Tes	tCode: EF	PA Method	300.0: Anion	s			
Client ID: LCS	s	Batch	n ID: 53	632	F	RunNo: <b>7(</b>	0271					
Prep Date: 7/1	0/2020	Analysis D	ate: 7/	10/2020	S	SeqNo: 24	142503	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	95.5	90	110				

#### Qualifiers:

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ANAL	RONMENTA Ysis Ratory	AL.	TEL: 50:	ironmental Albu 5-345-3975 :: clients.ha	490 iquerq FAX:	l Hawki ue, NM 8 505-345	ins NE 87109 -4107	San	nple Log	-In C	heck List
Client Name:	Souder, Mil Associates	ler &	Work Orde	er Number:	2007	223				RcptNo:	1
Received By: Completed By:	Juan Roja Juan Roja		7/7/2020 9:4 7/7/2020 9:5				Gua	ray ray			
Reviewed By:	•		1112020 9.5	3.45 AW			r)	-y-			
Chain of Cus	tody										
1. Is Chain of C	ustody compl	ete?			Yes	$\checkmark$	N	<b>b</b>	Not Prese	nt 🗌	
2. How was the	sample delive	ered?			Cour	ier					
Log In 3. Was an atterr	npt made to co	ool the samples?			Yes	<b>v</b>	No		N		
4. Were all samp	oles received	at a temperature o	f >0° C to 6.0	٥°C	Yes	✓	No		Ν		
5. Sample(s) in p	proper contair	ner(s)?			Yes	✓	No				
6. Sufficient sam	iple volume fo	or indicated test(s)?			Yes	$\checkmark$	No				
7. Are samples (	except VOA a	and ONG) properly	preserved?		Yes	$\checkmark$	No				
8. Was preservat	tive added to	bottles?			Yes		No	$\checkmark$	NA		
9. Received at le	ast 1 vial with	headspace <1/4"	for AQ VOA?		Yes		No		N	A 🔽	
10. Were any san		AL 20-20 M A			Yes		No				
11. Does paperwo (Note discrepa	ork match bott	le labels?			Yes	✓	No		# of preserve bottles check for pH:	ked	12 unless noted)
12. Are matrices c			ustody?		Yes	$\checkmark$	No		Adjuste		,
13. Is it clear what						$\checkmark$	No		/	/	
14. Were all holdir (If no, notify cu					Yes	$\checkmark$	No		Checke	d by	PA 7.7.20
Special Handli	ing (if app	licable)									
15. Was client not	tified of all dis	crepancies with thi	s order?		Yes		No		N	A 🖌	
Person	Notified:			Date							
By Who	m: [			Via:	eMa	il 🗌 F	Phone	Fax	In Person		
Regardi	ng:										
Client In	structions:										
16. Additional ren	narks:										
17. Cooler Inform	mation										

 Cooler No
 Temp °C
 Condition
 Seal Intact
 Seal No
 Seal Date
 Signed By

 1
 1.1
 Good
 Image: Condition Seal Date
 Signed By

			4901 Hawkins NE - Albuquerque, NM 87109	Tel. 505-345-3975 Fax 505-345-4107	Analysis	(O)	SUIS SINS SINS SINS	יצרט 22,10 1) 2270 2220	от 8 104.7 104.7 10 10 10 10 10 10 10 10 10 10 10 10 10	ЛС ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) )	15D etho y 83 3r, 1 (AO)	08:H91 8081 Pd 8081 Pd PPHs b 8260 (V 8250 (S 70 (S Total Co								Durit Dill Doyon Energy	Juch in the second seco	ATTN: Lope Curresco	samiles submitted to Hall Environmental may be subconfracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report
Turn-Around Time:	D Standard Rush S dw THT	Project Name:	Salada Draw 6 Fed 14	Project #:	W10# 20859194		11/11/11	A	Pres DNO		Cooler Temp(including cF): /, / - 0 = 1, / (°C)	Container Preservative HEAL No. HEAL No. TVDe and # TVDe	166 -001	200-				2	10	Received by: Wa:Date Time Ren	Received by Va: Date Time	by course Flathe give	infracted to other accredited laboratories This serves as notice of this possi
Chain-of-Custody Record	client: Souder Muller 3 Assricht		Mailing Address: 20\$ S. Hakuven	(artsbad, NN 88230	Phone #: (SDS)S76-7469	email or Fax#:	QA/QC Package:					Date Time Matrix Sample Name	6 Soil SLI-21	1 1:43 7 361						Date: Time: Relinquished by:	Date: Time: Relinguished by:	7/6/20 1910 21	If necessary samples submitted to Hall Environmental may be subco

-2 5 2 5.



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

January 05, 2021

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

OrderNo.: 2012C36

RE: Salado Draw 6 Federal 1

Dear Ashley Maxwell:

Hall Environmental Analysis Laboratory received 5 sample(s) on 12/29/2020 for the analyses presented in the following report.

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

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

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report
Lab Order 2012C36

### Hall Environmental Analysis Laboratory, Inc.

Lab Order 2012C36

Date Reported: 1/5/2021

<ul><li>CLIENT: Souder, Miller &amp; Associates</li><li>Project: Salado Draw 6 Federal 1</li><li>Lab ID: 2012C36-001</li></ul>	Matrix: SOIL			<b>e:</b> 12	51 /23/2020 11:15:00 AM /29/2020 7:35:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	VP
Chloride	ND	60	mg/Kg	20	1/4/2021 11:14:57 AM	57297
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	mb
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	12/31/2020 3:26:13 PM	57276
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	12/31/2020 3:26:13 PM	57276
Surr: DNOP	78.7	30.4-154	%Rec	1	12/31/2020 3:26:13 PM	57276
EPA METHOD 8015D: GASOLINE RANGE	Ξ				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	12/31/2020 3:33:45 PM	57269
Surr: BFB	97.6	75.3-105	%Rec	1	12/31/2020 3:33:45 PM	57269
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.024	mg/Kg	1	12/31/2020 3:33:45 PM	57269
Toluene	ND	0.048	mg/Kg	1	12/31/2020 3:33:45 PM	57269
Ethylbenzene	ND	0.048	mg/Kg	1	12/31/2020 3:33:45 PM	57269
Xylenes, Total	ND	0.096	mg/Kg	1	12/31/2020 3:33:45 PM	57269
Surr: 4-Bromofluorobenzene	114	80-120	%Rec	1	12/31/2020 3:33:45 PM	57269

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

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 9

Analytical Report
Lab Order 2012C36

### Hall Environmental Analysis Laboratory, Inc.

Lab Order 2012C36

Date Reported: 1/5/2021

CLIENT: Souder, Miller & Associates		Cl	ient Sample II	D: SV	V1	
Project: Salado Draw 6 Federal 1		(	Collection Dat	<b>e:</b> 12,	/23/2020 11:20:00 AN	1
Lab ID: 2012C36-002	Matrix: SOIL		<b>Received Dat</b>			
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: VP
Chloride	ND	60	mg/Kg	20	1/4/2021 11:52:11 AM	57297
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analys	t: mb
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	12/31/2020 3:50:12 PM	1 57276
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	12/31/2020 3:50:12 PM	1 57276
Surr: DNOP	79.3	30.4-154	%Rec	1	12/31/2020 3:50:12 PM	1 57276
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	12/31/2020 4:44:59 PM	1 57269
Surr: BFB	97.0	75.3-105	%Rec	1	12/31/2020 4:44:59 PM	1 57269
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.024	mg/Kg	1	12/31/2020 4:44:59 PM	1 57269
Toluene	ND	0.048	mg/Kg	1	12/31/2020 4:44:59 PM	1 57269
Ethylbenzene	ND	0.048	mg/Kg	1	12/31/2020 4:44:59 PM	1 57269
Xylenes, Total	ND	0.096	mg/Kg	1	12/31/2020 4:44:59 PM	1 57269
Surr: 4-Bromofluorobenzene	115	80-120	%Rec	1	12/31/2020 4:44:59 PM	1 57269

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 2 of 9

S % Recovery outside of range due to dilution or matrix

Analytical Report
Lab Order 2012C36

### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/5/2021

CLIENT: Souder, Miller & Associates		Cl	ient Sample II	D: SV	V2	
Project: Salado Draw 6 Federal 1			Collection Dat	<b>e:</b> 12	/23/2020 11:25:00 AN	1
Lab ID: 2012C36-003	Matrix: SOIL		<b>Received Dat</b>	<b>e:</b> 12	/29/2020 7:35:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: VP
Chloride	ND	60	mg/Kg	20	1/4/2021 12:04:35 PM	57297
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analys	t: mb
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	12/31/2020 4:14:19 PM	1 57276
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	12/31/2020 4:14:19 PN	1 57276
Surr: DNOP	87.8	30.4-154	%Rec	1	12/31/2020 4:14:19 PN	1 57276
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	12/31/2020 5:55:57 PM	1 57269
Surr: BFB	96.4	75.3-105	%Rec	1	12/31/2020 5:55:57 PM	1 57269
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.025	mg/Kg	1	12/31/2020 5:55:57 PM	1 57269
Toluene	ND	0.049	mg/Kg	1	12/31/2020 5:55:57 PM	1 57269
Ethylbenzene	ND	0.049	mg/Kg	1	12/31/2020 5:55:57 PM	1 57269
Xylenes, Total	ND	0.098	mg/Kg	1	12/31/2020 5:55:57 PM	1 57269
Surr: 4-Bromofluorobenzene	113	80-120	%Rec	1	12/31/2020 5:55:57 PM	1 57269

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

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Analytical Report

### Hall Environmental Analysis Laboratory, Inc.

Lab Order 2012C36

Date Reported: 1/5/2021

CLIENT: Souder, Miller & Associates Project: Salado Draw 6 Federal 1			ient Sample II Collection Dat		V3 /23/2020 11:30:00 AM	
Lab ID: 2012C36-004	Matrix: SOIL				/29/2020 7:35:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	VP
Chloride	ND	60	mg/Kg	20	1/4/2021 12:16:59 PM	57297
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	mb
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	12/31/2020 4:38:19 PM	57276
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	12/31/2020 4:38:19 PM	57276
Surr: DNOP	95.8	30.4-154	%Rec	1	12/31/2020 4:38:19 PM	57276
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	12/31/2020 6:19:30 PM	57269
Surr: BFB	94.5	75.3-105	%Rec	1	12/31/2020 6:19:30 PM	57269
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.024	mg/Kg	1	12/31/2020 6:19:30 PM	57269
Toluene	ND	0.048	mg/Kg	1	12/31/2020 6:19:30 PM	57269
Ethylbenzene	ND	0.048	mg/Kg	1	12/31/2020 6:19:30 PM	57269
Xylenes, Total	ND	0.096	mg/Kg	1	12/31/2020 6:19:30 PM	57269
Surr: 4-Bromofluorobenzene	111	80-120	%Rec	1	12/31/2020 6:19:30 PM	57269

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

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Analytical Report

### Hall Environmental Analysis Laboratory, Inc.

Lab Order 2012C36

Date Reported: 1/5/2021

<ul><li>CLIENT: Souder, Miller &amp; Associates</li><li>Project: Salado Draw 6 Federal 1</li><li>Lab ID: 2012C36-005</li></ul>	Matrix: SOIL			<b>e:</b> 12	V4 /23/2020 11:35:00 AM /29/2020 7:35:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	VP
Chloride	ND	60	mg/Kg	20	1/4/2021 12:29:23 PM	57297
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	mb
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	12/31/2020 5:02:21 PM	57276
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	12/31/2020 5:02:21 PM	57276
Surr: DNOP	99.4	30.4-154	%Rec	1	12/31/2020 5:02:21 PM	57276
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	12/31/2020 6:42:58 PM	57269
Surr: BFB	95.6	75.3-105	%Rec	1	12/31/2020 6:42:58 PM	57269
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.024	mg/Kg	1	12/31/2020 6:42:58 PM	57269
Toluene	ND	0.049	mg/Kg	1	12/31/2020 6:42:58 PM	57269
Ethylbenzene	ND	0.049	mg/Kg	1	12/31/2020 6:42:58 PM	57269
Xylenes, Total	ND	0.097	mg/Kg	1	12/31/2020 6:42:58 PM	57269
Surr: 4-Bromofluorobenzene	112	80-120	%Rec	1	12/31/2020 6:42:58 PM	57269

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 9

WO#:	2012C36
	05-Jan-21

	Miller & Associates Draw 6 Federal 1		
Sample ID: MB-57297	SampType: MBLK	TestCode: EPA Method 300.0: Anic	ns
Client ID: PBS	Batch ID: 57297	RunNo: 74345	
Prep Date: 12/31/2020	Analysis Date: 12/31/2020	SeqNo: 2625004 Units: mg	/Kg
Analyte	Result PQL SPK value SF	PK Ref Val %REC LowLimit HighLimit	%RPD RPDLimit Qual
Chloride	ND 1.5		
Sample ID: LCS-57297	SampType: LCS	TestCode: EPA Method 300.0: Anic	ns
Client ID: LCSS	Batch ID: 57297	RunNo: 74345	
Prep Date: 12/31/2020	Analysis Date: 12/31/2020	SeqNo: 2625005 Units: mg	/Kg
Analyte	Result PQL SPK value SF	PK Ref Val %REC LowLimit HighLimit	%RPD RPDLimit Qual
Chloride	14 1.5 15.00	0 94.0 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

- 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

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RL Reporting Limit

WO#:	2012C36
	05-Jan-21

,	Miller & As Draw 6 Fede		es							
Sample ID: MB-57276	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID: PBS	Batch	ID: 572	276	F	RunNo: 74	4362				
Prep Date: 12/30/2020	Analysis D	ate: 12	2/31/2020	SeqNo: 2625215 Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	13		10.00		128	30.4	154			
Sample ID: LCS-57276	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: LCSS	Batch	ID: 572	276	F	RunNo: 7	4362				
Prep Date: 12/30/2020	Analysis D	ate: 12	2/31/2020	S	SeqNo: 2	625217	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	59	10	50.00	0	118	68.9	141			
Surr: DNOP	6.4		5.000		128	30.4	154			

#### 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 7 of 9

Client:	Souder, N	Ailler & As	ssociate	es								
Project:	Salado Da	raw 6 Fede	eral 1									
Sample ID:	2012c36-001ams	SampT	ype: MS	3	Tes	tCode: El	PA Method	8015D: Gasc	line Rang	e		
Client ID:	CS1	Batch	n ID: 57	269	R	unNo: 7	4346					
Prep Date:	12/29/2020	Analysis D	ate: 12	2/31/2020	S	eqNo: 2	624875	Units: <b>mg/Kg</b>				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range	e Organics (GRO)	25	4.7	23.39	0	106	61.3	114				
Surr: BFB		1000		935.5		108	75.3	105			S	
Sample ID:	2012c36-001amsd	SampT	ype: MS	SD	Tes	tCode: El	PA Method	8015D: Gasc	line Rang	e		
Client ID:	CS1	269	R	unNo: 7	4346							
Prep Date:	12/29/2020	Analysis D	ate: 12	2/31/2020	S	eqNo: 2	624876	Units: <b>mg/Kg</b>				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range	e Organics (GRO)	25	4.8	24.13	0	105	61.3	114	1.81	20		
Surr: BFB		1000		965.3		107	75.3	105	0	0	S	
Sample ID:	LCS-57269	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015D: Gasc	line Rang	e		
Client ID:	LCSS	Batch	n ID: 57	269	R	unNo: 7	4346					
Prep Date:	12/29/2020	Analysis D	ate: 1/	1/2021	S	eqNo: 2	624888	Units: mg/k	(g			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range	e Organics (GRO)	23	5.0	25.00	0	90.9	72.5	106				
Surr: BFB		1000		1000		102	75.3	105				

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

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g Limit

QC SUMMARY REPORT	
Hall Environmental Analysis Laboratory, Inc.	

WO#:	2012C36
	05 Jan 21

Client: Project:		Ailler & A raw 6 Fede		S												
0	Sample ID: LCS-57269 SampType: LCS TestCode: EPA Method 8021B: Volatiles															
•		SampT	Type: LC	S	Tes	tCode: EF	PA Method	8021B: Volat	iles							
Client ID:	LCSS	Batcl	h ID: 572	269	F	RunNo: 74										
Prep Date:	12/29/2020	Analysis D	Date: 12	/31/2020	S	SeqNo: 20	624756	Units: mg/k								
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual					
Benzene		0.95	0.025	1.000	0	94.6	80	120								
Toluene		0.98	0.050	1.000	0	97.8	80	120								
Ethylbenzene		0.97	0.050	1.000	0	97.2	80	120								
Xylenes, Total		3.0	0.10	3.000	0	99.0	80	120								
Surr: 4-Brom	nofluorobenzene	1.2		1.000		118	80	120								
Sample ID:	2012c36-002ams	SampT	Гуре: МS	5	TestCode: EPA Method 8021B: Volatiles											
Client ID:	SW1	Batcl	h ID: 572	269	F	RunNo: 74										
Prep Date:	12/29/2020	Analysis D	Date: 12	/31/2020	S	SeqNo: 20	624903	Units: mg/k								
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual					
Benzene		0.92	0.025	0.9901	0	93.1	76.3	120								
Toluene		0.96	0.050	0.9901	0.008462	96.3	78.5	120								
Ethylbenzene		0.95	0.050	0.9901	0	96.0	78.1	124								
Xylenes, Total		2.9	0.099	2.970	0	97.9	79.3	125								
Surr: 4-Brom	nofluorobenzene	1.1		0.9901		116	80	120								
Sample ID:	2012c36-002amsd	I SampT	Гуре: <b>МS</b>	D	Tes	tCode: EF	PA Method	8021B: Volat	iles							
Client ID:	SW1	Batcl	h ID: 572	269	F	RunNo: 74346										
Prep Date:	12/29/2020	Analysis D	Date: 12	/31/2020	S	SeqNo: 20	624904	Units: mg/k	(g							
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual					
Benzene		0.89	0.025	0.9930	0	90.1	76.3	120	2.95	20						
Toluene		0.93	0.050	0.9930	0.008462	92.5	78.5	120	3.69	20						
Ethylbenzene		0.94	0.050	0.9930	0	94.3	78.1	124	1.48	20						
Kylenes, Total		2.9	0.099	2.979	0	96.2	79.3	125	1.52	20						
Surr: 4-Brom	nofluorobenzene	1.1		0.9930		115	80	120	0	0						

#### 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

HALL ENVIRONMENTAL ANALYSIS LABORATORY	TEL: 505-345-3	ntal Analysis Labor 4901 Hawkin Albuquerque, NM 8 975 FAX: 505-345- s.hallenvironmental	77109 <b>Sam</b> 4107	ple Log-In Check List
Client Name: Souder, Miller & Associat	Work Order Num	ber: 2012C36		RcptNo: 1
Received By: Isaiah Ortiz	12/29/2020 7:35:00	AM	I_0.	$\prec$
Completed By: Isaiah Ortiz	12/29/2020 8:36:28	AM	INO	×
Reviewed By: SGL 12/29/20				
Chain of Custody				
1. Is Chain of Custody complete?		Yes 🗹	No 🗌	Not Present
2. How was the sample delivered?		Courier		
<u>Log In</u>				
3. Was an attempt made to cool the samples?		Yes 🗸	No 🗌	NA 🗌
<ol> <li>Were all samples received at a temperature of</li> </ol>	>0° C to 6.0°C	Yes 🗹	No 🗌	
5. Sample(s) in proper container(s)?		Yes 🗸	No 🗌	
5. Sufficient sample volume for indicated 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. Received at least 1 vial with headspace <1/4"	for AQ VOA?	Yes	No 🗌	NA 🗹
0. Were any sample containers received broken?	?	Yes	No 🔽	# of managers at
		_	_	# of preserved bottles checked
1. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🗹	No 🗌	for pH: (<2 or >12 unless noted)
2. Are matrices correctly identified on Chain of Cu	ustody?	Yes 🗸	No 🗌	Adjusted?
3. Is it clear what analyses were requested?	nautorenenti (f. 🥑 19)	Yes 🗹	No 🗌	
4. Were all holding times able to be met?		Yes 🗹	No 🗌	Checked by: JP 12 29/20
(If no, notify customer for authorization.)			0	
Special Handling (if applicable)				
15. Was client notified of all discrepancies with the	s order?	Yes	No 🗌	NA 🗹
Person Notified:	Date:	P		
Regarding:	Via:	eMail P	hone 🗌 Fax	In Person
Client Instructions:	Togeneral December 2010 and the Warmer of the			
16. Additional remarks:				
17. <u>Cooler Information</u> Cooler No Temp ºC Condition Sea	I Intact Seal No	Seal Date	Signed By	

	ANALYSIS LABORATORY	www.riaiierivironmentai.com 4901 Hawkins NE - Albuquerque, NM 87109	Analysis	*0 (C	's (802' PCB's PO₄, S Nt/Absei	ло <sub>2</sub> , 102, 102, 102, 102, 102, 102, 102, 102	05 8\25 00 01 10 2 1 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	D(GF bod 3310 8310 16fal 10 2 0 0 2 0 0 2 0 0 0 0 0 2 0 0 0 0 0	015 2est Dy 8 Br, 8 Br, 2en	8081 F PAHs PAHs (0, F, 8260 ( 8260 (									Remarks:		19 W J - COMPLET 12/19/20 0135
ime:	Project Name:	Salado Than 6 Federal 1		Project Manager:	AShley Mound		😰 Yes 🛛 No	0.5 40		Type and # Type			003	004			•		 Received by: Via: Date Time Re	Received by: Via: Date Time	The convint 12/29/20 0135
Record	1	Mailing Address:	Phone #:	email or Fax#:	QA/QC Package:	Az Compliance	NELAC      Other			Date Time Matrix Sample Name	12/23 11:15 Soul CS1	11:20 Sul	11:25 522	11:30 Sw3	- 11:35 - Swel				Date: Time: Relinquished by:	Time: Relinquished by:	1/28/20 19 W Hall Environmental may be subject

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# APPENDIX F EXCAVATION PHOTO LOG

