

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

January 11, 2021

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 summarizes release information and Closure Criteria.

	Table 1: Release Information 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	١	NRM2012242719)		
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			

#5E29133-BG20

Salado Draw #6 Federal #001H Remediation Closure Report (NRM2012242719) Page 2 of 5 January 11, 2021

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.

January 11, 2021

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) Page 4 of 5 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

•

Page 5 of 5

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

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

Received by OCD: 1/12/2021 12:00:14 AM



Received by OCD: 1/12/2021 12:00:14 AM

Page 8 of 82



Received by OCD: 1/12/2021 12:00:14 AM

Page 9 of 82



Received by OCD: 1/12/2021 12:00:14 AM





Page 12 of 82



Released to Imaging: 3/23/2021 3:27:23 PM

TABLES

Table 2: NMOCD Closure Criteria

Devon Energy Production Company Salado Draw #6 Fed #001H NRM2012242719

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	29.12.B(4) and	d Table 1 NMAC)				
	Closure Criteria (units in mg/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?	<1000' from fresh water well or spring? No					
Human and Other Areas		600	100		50	10
<300' from an occupied permanent residence, school, hospital,		600	100		50	10
institution or church?	No					
within incorporated municipal boundaries or within a defined municipal						
fresh water well field?						
<100' from wetland?	No					
within area overlying a subsurface mine	No					
within an unstable area?	No					
within a 100-year floodplain?	No					

•

Table 3: Sample Results

Page 15 of 82 Devon Energy Production Company Salado Draw 6 Federal 1H

•

										Method	
Sample ID	Sample Date	Depth of Sample Action		Method 8021B		Method 8015D				300.0	
Sample ID	Sample Date	(feet bgs)	Taken	BTEX	Benzene	GRO	DRO	MRO	Total TPH	Cl-	
				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	
	C/F/2020	6/5/2020	0.5	Excavate	<0.221	<0.025	<4.9	<9.4	<47	<61.3	4100
SL1	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

Devon Energy Production Company Salado Draw 6 Fed #001H NRM2012242719

	Depth	To Grou	undwater	Calcu		
Location Elevation	ı (ft):	3320		Cart		
Well Name	Well Elev	ation (ft)	Well Depth to GW	Groundwater Elevation	Depth to GW at Location	Distance (miles)
C 02295	334	47	200	3147	173	0.62
SGS 320419103302202	33	29	123	3206	114	0.67
ISGS 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

)

Incident ID	NRM2012242719
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Devon Energy Production Company	OGRID ₆₁₃₇
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) 30-025-41293

Unit Lette	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) _{4.8}
	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)
	on water transfer pump. Fluid released int ide of containment from the discharge side	

Oil Conservation Division

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 ne	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	
	1 <u></u>	
OCD Only		
Received by:Ramona Marcus	Date:	

Page 2

Page 3

Oil Conservation Division

	Page 20 of 8	52
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?	$\underline{148\text{-}170} \; (\text{ft bgs})$
Did this release impact groundwater or surface water?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🔀 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🔀 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗌 Yes 🔀 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🔀 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🔀 No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🔀 No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🔀 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🔀 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🔀 No
Did the release impact areas not on an exploration, development, production, or storage site?	🗌 Yes 🔀 No

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

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

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. Field data
- Data table of soil contaminant concentration data
- \checkmark Depth to water determination
- Determination of water sources and significant watercourses within ¹/₂-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- \checkmark 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.

Received by OCD: 1/12/2021 12:00:14 AM Form C-141 Page Page 4 Oil Conservation Division Incident ID NRM20122427 District RP Facility ID Application ID Intereby 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 endanged 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 hav failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In	nge 21 of 82
Image: District NI Facility ID Application ID 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 endange 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 a structure of the operator of should their operations have a structure operation.	2719
Application ID 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 endange 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	
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 endange 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 hav	
regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endange 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 hav	
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: Lupe Carrasco Signature: Lupe Carrasco Date: 1/11/21 email: Lupe.Carrasco@dvn.com Telephone: 575-748-0165	nger nave In
OCD Only	
Received by: Date:	

Page 6

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.

<u>Closure Report Attachment Checklist</u>: 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)

 \checkmark 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: Lupe Carrasco	_ 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:	Date:							
Printed Name:	Title:							

NRM2012242719

1.1	and the second sec	Bbls) Calculator		
		Soil measurement		
Length(Ft)	Width(Ft)	Depth(Ft)		
36	20.000	0.083		
Cubic Feet of	Soil Impacted	<u>59.760</u>		
Barrels of Sc	il Impacted	10.65		
Soil	Гуре	Clay/Sand		
Barrels of O 100% Sat	•	<u>1.60</u>		
Saturation	Fluid pre	sent with shovel/backhoe		
Estimated Ba Relea		1.60		
	Free Standi	ing Fluid Only		
Length(Ft)	Width(Ft)	Depth(Ft)		
<u>0</u>	<u>0.000</u>	0.000		
Standir	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

	V											<i>ate En</i> gepth t			
(A CLW##### in the POD suffix indicates the POD has been replaced & no longer	(R=POD been rep O=orpha	placed, aned,		(qua	ters	are 1=N	1W 2=1	NE 3=SW 4	I=SE)					
serves a water right file.)	C=the fil closed)		(quarters are smallest to largest)					(NAD83 UTM in meters)			(In feet)				
POD Number <u>C 02295</u>	Code	POD Sub- basin CUB	County LE	64		4 Se	c Tws 2 26S	-	X 639865	Y 3547624		DistanceDep 1074	othWellDep 250		/ater olumn 50
C 02292 POD1		CUB	LE	4	1	2 06	5 26S	34E	640992	3549987	, "	1561	200	140	60
C 03441 POD1		С	LE	4	1	2 06	6 26S	34E	640971	3550039) =	1596	250		
											Aver	age Depth to W	ater:	170 fee	ət
												Minimum De	pth:	140 fee	ət
												Maximum De	pth:	200 fee	ət
Record Count:3															
UTMNAD83 Radiu	us Search ((in mete	ers):												
Easting (X): 64	0183		North	ning	3 (Y)	: 35	48651			Radius: 1	600				
The data is furnished by th concerning the accuracy, o											at the	OSE/ISC make n	io warranties, e	expressed or in	mplied
7/8/20 8:58 AM						-						WATER COL WATER	_UMN/ AVER	AGE DEPTH	1 TO

Received by OCD: 1/12/2021 12:00:14 AM

rived	by OCD:			RECOI THE STAT	RD & LO e engineei		•	POSTA POSTA PULL MAY	IL FREINE	POLA	Page 26 oj
z	POD NUMB	ER (WELL N	WMBER)	141-Pa	20 1		OSE FILE NUM C 03441	IBER(S)	11.	Cor	<u>.</u>
GENERAL AND WELL LOCATION	WELL OWN		5)		<u>~~</u>		PHONE (OPTIC)NAL)		<u>د</u>	
<u>S</u>			Company								
ELL	PO Box		G ADDRESS				CITY Capitan		state NM	88	zip 316
ă	WELL	<u> </u>		DEGREES	MINUTES SEC	CONDS	40,224				
TA	LOCATIO		TITUDE	N32	04	41.0 N		REQUIRED: ONE TEN		\ \	
ERA	(FROM G	PS) LC	NGITUDE	W103	30	-80.ş W	• DATUM REC	UIRED: WGS 84	OSE (A3)	
5 -	(2.5 ACR		(10 ACRE)	(40 ACRE)	(160 ACRE)	SECTION	- 22.867	TOWNSHIP		RANGE	
	Nwy	·	SE 1/4	NW 1/4	NE %		6	26	NORTH SOUTH	34	🗹 east
OPTIONAL	SUBDIVISIO					LOT NUN	MBER	BLOCK NUMBER		UNIT/TRA	
E					<u> </u>						
4	HYDROGR	APHIC SUR	715 Y					MAP NUMBER		TRACT NU	мвек
		1044	NAME OF LICENSI				NAME OF WELL DRILLING COMPANY Eades Drilling & Pump Service				<u> </u>
7	DRILLING	574871ED	DRILLING ENDED	DEPTH OF COM	250 VELL (FT)	BORE HC	LE DEPTH (FT)				
MATION	COMPLETE	D WELL IS:		DRY HOLE	Shallow (UN	CONFINED)		STATIC WATER LEVEL IN COMPLETED WELL (FT			
VFOF	DRILLING	FLUID:	AIR		ADDITIVES - S	SPECIFY:					
U Dy	DRILLING	METHOD:	ROTARY	HAMMER	CABLE TOOL	Отн	ER - SPECIFY:			<u>.</u>	····
DRILLING INFOR		H (FT)	BORE HOLE		CASING		NECTION	INSIDE DIA.		G WALL	SLOT
3. DRI	FROM	то 20	DIA. (IN) 11	M.	ATERIAL PVC		(CASING)	CASING (IN) 6.166		NESS (IN) 255	SIZE (IN)
ñ	20	190	9.75		PVC		ip joint	6.166		255	
	190	250	9.75	PV	C - screen	sl	ip joint	6.166	.2	255	.035
			<u> </u>	<u> </u>							<u> </u>
	l	H (FT)	THICKNESS (FT)	F	ORMATION DESCR						YIELD (GPM)
RAT	FROM 128	то 189				····	dy red clay	R FRACTURE ZON			(000)
GST	-			·							
RIN											
BEA					<u></u>						
4. WATER BEARING STRATA	METHODI	JSED TO ES	TIMATE YIELD OF WA	TER-BEARING STRA	λτα			TOTAL ESTIMATEI	D WELL YIE	LD (GPM)	
	FOR OSI	E INTERN	AL USE				~ 1	WELL RECC)RD & 1.00	G (Version 6	/9/08)

FILE NUMBER C-354	POD NUMBER	POP_	TRN NUMBER	<u> </u>
LOCATION 26.34.6.2141122				PAGE 1 OF 2

. . . !

.

AW.	TYPE OF	PUMP:			U JET	NO PUMP – WELL NOT EQUIPPED OTHER – SPECIFY:			
AND PU	ANNULAR FROM		I (FT) TO	BORE HOLE DIA. (IN)				METHOD OF PLACEMENT	
SEAL	SEAL	AND	0	_20	11	bentonite chips - hydrated	9	gravit	y fed
S. SI	GRAVE	LPACK	20	250	9.75	9.75 gravel 84			y fed
	DEPTI	· · · · · · · · · · · · · · · · · · ·	THICK		Į.	COLOR AND TYPE OF MATERIAL ENCOUNT		WA1 BEAR	
	FROM	TO	(F1			JDE WATER-BEARING CAVITIES OR FRACTO	JRE ZONES)		
	0	1	1	~	·	top soil			
	1	25	24		<u>-</u>	sandy clay		I YES	
	25	37	12		 	caliche & sand		YES	
	37	85	48		<u> </u>	sand & sandstone stringers		☐ YES	
WELL	85	108	23			red sandstone with red clay streak			
I M J	108	128	20		ļ	sandstone with yellow clay streak	s		
G OF	128	189	6			sandy red clay		I YES	
191	189	249	60		ļ	white sandstone with red clay strea	lks	I YES	
	249	250	1		ļ	red clay		VES	
GEOLOGIC LOG			ļ	····	<u></u>			☐ YES	
				<u></u>				YES	
6			[<u></u>			YES	
			·		ļ	·		C YES	
					Į			☐ YES	
							···		
			ļ		ļ	· ··· ··· ··· ···		☐ YES	
Î				<u> </u>			··· <u>·</u> ································	T YES	ON 🔲
			ATTACH	ADDITION	IAL PAGES AS N	EDED TO FULLY DESCRIBE THE GEOLOGIC	LOG OF THE WELL		
e e			METHOD:	🗖 BAILE	ER 🗌 PUMP	AIR LIFT OTHER - SPECIFY:	·····		
ĮΞ.	WELL	. TEST	TEST RESU	ILTS - ATTA BLE SHOWI	CH A COPY OF I	DATA COLLECTED DURING WELL TESTING, AND DRAWDOWN OVER THE TESTING PERI			ME,
TENOLLIQUE	ADDITION	NAL STATE	MENTS OR EXPL	ANATIONS:	<u> </u>				
100							МЛҮ		
~ খ								GIN	
7. TEST								ידר י דרו י	
7.1	Ì							07	
		DERSIGN	FD HEREBY	CERTIFIES	THAT TO THE B	EST OF HIS OR HER KNOWLEDGE AND BELI	F THE FOREGOING	STA TRUE A	ND
URE	CORRE	CT RECOR	D OF THE AL	BOVE DESC	RIBED HOLE AN	D THAT HE OR SHE WILL FILE THIS WELL R ON OF WELL DRILLING:	ECORD WITH THE ST.	ATE ENGIN	EER AND
· E					Λ 1	~			
SIGNATURE		_//	law	Cad	16 pr	May 14, 2010			
ac .			SIGNATU	RE OF DRIL	rende	a Cade DATE			
L	• • • • • • • • • • • • • • • • • • •							<u></u>	<u></u>

FOR OSE INTERNAL USE		WELL RECORD & LO	OG (Version 6/9/08)
FILE NUMBER C-3441	POD NUMBER POD1	TRN NUMBER	
LOCATION 26.34.6.24.382			PAGE 2 OF 2
2141122_ Released to Imaging: 3/23/2021 3:27:23 PM			



Released to Imaging: 3/23/2021 3:27:23 PM

Received by OCD: 1/12/2021 12:00:14 AM

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 Scale: 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 Home Contact USGS Search USGS

National Water Information System: Web Interface

USGS Water Resources	Data Category:	Geographic Area:			
osus mater Resources	Groundwater	 ✓ United States 	\sim	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 \checkmark 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 Home Contact USGS Search USGS

National Water Information System: Web Interface

USGS Water Resources	Data Category:	Geographic Area:	
0505 Water Resources	Groundwater	\checkmark United States	∽ 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 =

• 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 \checkmark 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



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

Released to Imaging: 3/23/2021 3:27:23 PM



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 Liner Inspection Form	∧ SMA
Project Name: Salado	nspection Date: <u>2/16/2020</u>
Client Name: Devon	
Client Representative(s):	<i>3</i> 7
SMA Inspector(s): Alicia A Lopez /Sebasti	en 0
Project Location: La	titude: <u>32.06540/</u> Longitude: <u>103. 51480</u> NRIN 20122 42719
Inspection Parameters as Outlined in 19.15.29.11.A	
PRIOR TO INSPECTION: Two (2) Business Day Notification of Inspection to Ap Date of Notice: <u>7/14/2020</u>	propriate Division Office (Y/N) : \bigvee
Material Covering Liner Removed by Client	
Affected Areas Exposed by Client	(Y/N):
INSPECTION: Liner Thoroughly Inspected for Damage	(Y/N):
All Damaged Areas Observed Marked in White Paint Photos and Field Notes Detailing Failures Attac	
To Be Completed by Client Representative: Can Responsible Party Demonstrate:	
Liner Integrity Was Maintained (per SMA Insp	
Release Was Contained to Lined Containment A Liner Was Able to Contain the Leak	(Y/N):
IFVES.	
If YES : Certify on Form C-141 That Liner Rema	ins Intact
If NO to Any of Above:	
Responsible Party Must Delineate Horiz	ontal & Vertical Extent
Depending on Release:	Y
See Table 1 19.15.29.12 NMAC See Subparagraph (e) Paragraph	(5) of Subsection A 19.15.29.11 NMAC
See Subparagraph (e) Faragraph	(5) of Subsection A 15.15.27.11 INVIAC

Additional Comments:

SMA INSPECTOR SIGNATÜRE Date: 18 120

CLIENT REPRESENTATIVE

Date: 7/17/20 _



























APPENDIX D EPA ON-LINE TOOLS FOR SITE ASSESSMENT CALCULATION

SEPA United States Environmental Protection

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

 $a x_1 + b y_1 + c = h_1$ $a x_2 + b y_2 + c = h_2$ $a x_3 + b y_3 + c = h_3$... $a x_{30} + b y_{30} + c = h_{30}$

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



Save Data	Recall Data	Go Back	
Site Name	Salado Draw 6	6	
Date	6/16/2020	Cı	irrent Date
Calculation basis	Head	\sim	
Coordinates ft 🗸]		
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	Used in Calculation	13
Max. Difference E	Between Head Values	56.39

0.02671

0.837

Gradient Magnitude (i) Flow direction as degrees from North (positive y axis) 196.0 Coefficient of Determination (R^2)

WCMS

Last updated on 2/23/2016

.

APPENDIX E LABORATORY ANALYTICAL REPORTS



June 17, 2020

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

RE: Salado Draw 6

OrderNo.: 2006370

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 2006370

Date Reported: 6/17/2020

CLIENT: Souder, Miller & Associates			ient Sample II			
Project: Salado Draw 6		(Collection Dat	e: 6/5	5/2020 10:49:00 AM	
Lab ID: 2006370-001	Matrix: SOIL		Received Date	e: 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 R	ANGE				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 RANGE	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 SHOR	T LIST				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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

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

Page 1 of 6

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2006370

Date Reported: 6/17/2020

CLIENT: Souder, Miller & Associates		Cl	ient Sample II	D: SI	_1-1.5'	
Project: Salado Draw 6		(Collection Dat	e: 6/3	5/2020 10:50:00 AM	
Lab ID: 2006370-002	Matrix: SOIL		5/2020 9:00:00 AM			
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	1400	60	mg/Kg	20	6/15/2020 1:52:53 AM	53073
EPA METHOD 8015D MOD: GASOLINE	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	E 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	RT LIST				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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

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

Page 2 of 6

Client: Project:	Souder, Miller & Salado Draw 6	Associate	es							
Sample ID: MB-53	6073 Sam	pType: m	blk	Tes	tCode: EP	A Method	300.0: Anion	s		
Client ID: PBS	Ba	tch ID: 53	073	F	RunNo: 69	641				
Prep Date: 6/14/	2020 Analysi	s Date: 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: LCS-5	3073 Sam	pType: Ic :	S	Tes	tCode: EP	A Method	300.0: Anion	s		
Client ID: LCSS	Ba	tch ID: 53	073	F	RunNo: 69	641				
Prep Date: 6/14/	2020 Analysi	s Date: 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:

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

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

Page 3 of 6

2006370

17-Jun-20

Client: Souder, Project: Salado I	Miller & A Draw 6	ssociate	Ś											
Sample ID: MB-52935	Samp	ype: ME	BLK	TestCode: EPA Method 8015M/D: Diesel Range Organics										
Client ID: PBS	Batc	h ID: 529	935	R	unNo: 69	9465								
Prep Date: 6/7/2020	Analysis [Date: 6/	8/2020	S	eqNo: 24	10165	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	Samp	ype: LC	S	Test	Code: EF	PA Method	8015M/D: Die	esel Range	e Organics					
Client ID: LCSS	Batc	h ID: 52	935	R	unNo: 69	9465								
Prep Date: 6/7/2020	Analysis [Date: 6/	8/2020	S	eqNo: 24	10166	Units: mg/K	g						
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							

Qualifiers:

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

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

Page 4 of 6

2006370

17-Jun-20

Client: Souder, Miller & Associates														
Project: Sa	alado Draw 6													
Sample ID: mb-52926	Samp	Туре: МЕ	BLK	Tes	tCode: EF	PA Method	8260B: Volat	iles Short	List					
Client ID: PBS	Bate	h ID: 52	926	RunNo: 69467										
Prep Date: 6/6/2020	Analysis	Date: 6/	7/2020	S	eqNo: 24	410169	Units: mg/K	g						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Benzene														
Foluene	ND	0.050												
Ethylbenzene	ND	0.050												
Kylenes, Total	ND	0.10												
Surr: 1,2-Dichloroethane-	d4 0.46		0.5000		92.5	70	130							
Surr: 4-Bromofluorobenze	ene 0.48		0.5000		95.3	70	130							
Surr: Dibromofluorometha	ane 0.49		0.5000		98.8	70	130							
Surr: Toluene-d8	0.48		0.5000		96.3	70	130							
Sample ID: Ics-52926	Samn	Type: LC	S4	Tes	tCode: EF	PA Method	8260B: Volat	iles Short	Lict					
04111010121100001010	Oump	. ,po. LO					CLOUD: TOTAL		LISI					
Client ID: BatchQC	•	ch ID: 52			unNo: 6		020021 1014		LISU					
•	Bate	ch ID: 52	926	F		9467	Units: mg/K		List					
Client ID: BatchQC	Bate	ch ID: 52	926 7/2020	F	unNo: 69	9467			RPDLimit	Qual				
Client ID: BatchQC Prep Date: 6/6/2020	Bato Analysis	ch ID: 52 Date: 6 /	926 7/2020	ਜ 2	tunNo: 6 9 GeqNo: 2 4	9467 410170	Units: mg/K	g		Qual				
Client ID: BatchQC Prep Date: 6/6/2020 Analyte	Bato Analysis Result	ch ID: 52 Date: 6/ PQL	926 7/2020 SPK value	F S SPK Ref Val	2unNo: 69 SeqNo: 24 %REC	9467 410170 LowLimit	Units: mg/K HighLimit	g		Qual				
Client ID: BatchQC Prep Date: 6/6/2020 Analyte Benzene	Bato Analysis Result 1.0	ch ID: 52 Date: 6/ PQL 0.025	926 7/2020 SPK value 1.000	F S SPK Ref Val 0	2unNo: 69 SeqNo: 24 %REC 101	9467 410170 LowLimit 80	Units: mg/K HighLimit 120	g		Qual				
Client ID: BatchQC Prep Date: 6/6/2020 Analyte Benzene Foluene	Analysis Result 1.0 0.99	ch ID: 52 Date: 6/ <u>PQL</u> 0.025 0.050	926 7/2020 SPK value 1.000 1.000	F S SPK Ref Val 0 0	RunNo: 69 GeqNo: 24 <u>%REC</u> 101 98.9	4467 410170 LowLimit 80 80	Units: mg/K HighLimit 120 120	g		Qual				
Client ID: BatchQC Prep Date: 6/6/2020 Analyte Benzene Foluene Ethylbenzene	Analysis Result 1.0 0.99 1.0 3.1	ch ID: 52 Date: 6 <u>PQL</u> 0.025 0.050 0.050	926 7/2020 SPK value 1.000 1.000 1.000	F S SPK Ref Val 0 0 0	2unNo: 69 GeqNo: 24 <u>%REC</u> 101 98.9 101	9467 410170 LowLimit 80 80 80	Units: mg/K HighLimit 120 120 120	g		Qual				
Client ID: BatchQC Prep Date: 6/6/2020 Analyte Benzene Foluene Ethylbenzene Kylenes, Total	Bate Analysis Result 1.0 0.99 1.0 3.1 d4 0.46	ch ID: 52 Date: 6 <u>PQL</u> 0.025 0.050 0.050	926 7/2020 SPK value 1.000 1.000 1.000 3.000	F S SPK Ref Val 0 0 0	2unNo: 69 SeqNo: 24 <u>%REC</u> 101 98.9 101 103	2467 410170 LowLimit 80 80 80 80 80	Units: mg/K HighLimit 120 120 120 120	g		Qual				
Client ID: BatchQC Prep Date: 6/6/2020 Analyte Benzene Foluene Ethylbenzene Kylenes, Total Surr: 1,2-Dichloroethane-	Bate Analysis Result 1.0 0.99 1.0 3.1 d4 0.46 ene 0.47	ch ID: 52 Date: 6 <u>PQL</u> 0.025 0.050 0.050	926 7/2020 SPK value 1.000 1.000 3.000 0.5000	F S SPK Ref Val 0 0 0	RunNo: 69 SeqNo: 24 <u>%REC</u> 101 98.9 101 103 92.8	2467 410170 LowLimit 80 80 80 80 80 70	Units: mg/K HighLimit 120 120 120 120 120 130	g		Qual				

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 6

2006370

17-Jun-20

Client:Souder,Project:Salado	Miller & A Draw 6	ssociate	es									
Sample ID: mb-52926	SampT	Гуре: МЕ	BLK	Test	tCode: EF	PA Method	8015D Mod:	Gasoline I	Range			
Client ID: PBS	Batch	h ID: 52	926	RunNo: 69467								
Prep Date: 6/6/2020	Analysis D	Date: 6/	7/2020	S	eqNo: 24	410208	Units: mg/K	g				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Gasoline Range Organics (GRO) Surr: BFB	ND 470	5.0	500.0		94.3	70	130					
Sample ID: Ics-52926	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8015D Mod:	Gasoline I	Range			
Client ID: LCSS	Batch	h ID: 52	926	R	unNo: 69	9467						
Prep Date: 6/6/2020	Analysis D	Date: 6/	7/2020	S	eqNo: 24	410209	Units: mg/K	g				
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					

Qualifiers:

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

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

Page 6 of 6

2006370

17-Jun-20

Page	51	0	f 82

.

	RATORY	TEL: 505-345-39 Website: www.		345-4107	nple Log-In Ch	neck Lis
Client Name:	SMA-CARLSBAD	Work Order Numb	er: 2006370		RcptNo:	1
Received By:	Desiree Dominguez	6/6/2020 9:00:00 AM	1	TPZ		
Completed By:	Desiree Dominguez	6/6/2020 9:24:42 AN	1	TD		
Reviewed By	F 6/4/2020					
Chain of Cus	<u>tody</u>					
1. Is Chain of Cu	ustody complete?		Yes 🗹	No 🗌	Not Present	
2. How was the	sample delivered?		<u>Courier</u>			
<u>Log In</u> 3. Was an attern	pt made to cool the samples	?	Yes 🗹	No 🗌		
4. Were all samp	les received at a temperatur	e of >0° C to 6.0°C	Yes 🗹	No 🗌		
5. Sample(s) in p	proper container(s)?		Yes 🗹	No 🗌		
6. Sufficient sam	ple volume for indicated test	(s)?	Yes 🗹	No 🗌		
7. Are samples (except VOA and ONG) prope	erly preserved?	Yes 🖌	No 🗌		
8. Was preservat	tive added to bottles?		Yes 🗌	No 🗹	NA 🗌	
9. Received at le	ast 1 vial with headspace <1.	/4" for AQ VOA?	Yes 🗌	No 🗌	NA 🗹	
10. Were any sam	ple containers received brok	ken?	Yes 🗌	No 🗹	# of preserved	
	rk match bottle labels? ncies on chain of custody)		Yes 🗹	No 🗌	bottles checked for pH: (<2 or >	12 unless note
12. Are matrices c	orrectly identified on Chain o	f Custody?	Yes 🗹	No 🗌	Adjusted?	
13. Is it clear what	analyses were requested?		Yes 🖌	No 🗌		
	ng times able to be met? Istomer for authorization.)		Yes 🗹	No 🗌	Checked by: D	AD 6/6120
Special Handli	ing (if applicable)					
15. Was client no	tified of all discrepancies with	n this order?	Yes 🗌	No 🗌	NA 🗹	
Person	Notified:	Date:				
By Who	m:	Via:	eMail	Phone 🗌 Fax	In Person	
Regardi	ng:					
Client In	structions:)				
16. Additional rer	narks:					
17. <u>Cooler Inform</u>	the second s					
Cooler No		Seal Intact Seal No ot Present	Seal Date	Signed By		

Page 1 of 1

Chain-of-Custody Record Turritonal Time. Onen: Chain-of-Custody Record Turritonal Time. Onen: Chain-of-Custody Record Standard Onen: Chain-of-Custody Record Standard Onen: Chain-of-Custody Record Standard Main Address: Chain Address: Standard Main Address: Chain Address: Chain Address: Main Address: Chain Address: Main Address: Chain	Rec	ceive	d by	0CL): 1/1	2/20	021 1	2:0	0:14 A	M											1		Pa	ige 52 of
Of-Custody Record Turn-Around Time: A ⁻ Curl Should □ Standard A ⁻ Curl Should □ Standard Project Name: Project Name: Project Name: 203 Partial (194 Project Manager: Project Manager: Project Manager: 203 Partial (201 Hard) Project Manager: 200 Curl (200 Hard) Project Marti 200 Curl (200 Hard)			RATORY		7109	71																	4	
Of-Custody Record Turn-Around Time: A ⁻ Curl Should □ Standard A ⁻ Curl Should □ Standard Project Name: Project Name: Project Name: 203 Partial (194 Project Manager: Project Manager: Project Manager: 203 Partial (201 Hard) Project Manager: 200 Curl (200 Hard) Project Marti 200 Curl (200 Hard)				ntal com	ille. NM 87	5-345-410	quest	(Jr	192dA\	jue	_												Erova	ales)
Of-Custody Record Turn-Around Time: A ⁻ Curl Should □ Standard A ⁻ Curl Should □ Standard Project Name: Project Name: Project Name: 203 Partial (194 Project Manager: Project Manager: Project Manager: 203 Partial (201 Hard) Project Manager: 200 Curl (200 Hard) Project Marti 200 Curl (200 Hard)			T ST		nduero	ax 50	sis Re				(40				1		-	-				NON	MD
Of-Custody Record Turn-Around Time: A ⁻ Curl Should □ Standard A ⁻ Curl Should □ Standard Project Name: Project Name: Project Name: 203 Partial (194 Project Manager: Project Manager: Project Manager: 203 Partial (201 Hard) Project Manager: 200 Curl (200 Hard) Project Marti 200 Curl (200 Hard)				melle			Analy	⁺O	S '⁺Oc	3' ²	ON						-						De	5
Of-Custody Record Turn-Around Time. A ⁻ Curl Should □ Standard Project Name: 20,3,3,4,4,1,1,1 Project Name: Project Nameger: Project Name: 20,3,5,4,1,9,4 Project Manager: 20,3,5,4,1,9,4 Az Compliance 20,1,4,4 Matrix Sampler: Az Compliance 20,6,5,4,1,9,4 Az Compliance 20,6,5,7,4,19,4 Az Compliance 20,6,7,10,0 Az Compliance 20,6,7,10,0 Az Mutur I 20,5,7,4,19,4 Az Mutur I 20,5,7,4,19,4 Az Mutur I 20,6,7,10,0 Az Mutur I 20,6,7,4,0 Autur I			NA		IS NE	5-397			SMIS	:02	28 ·		_					-			-	-	Sull	101
Chain-of-Custody Record Turn-Yound Time: Illing Address: Cut \Socid Project Name: Illing Address: Sal Nada O Wuth Illing Address: Project Manager: Mole #: Project Manager: Mole #: Project Manager: Mole #: Project Manager: Matrix Sampler Mane Cooler Templeeudances: A A Matrix Sampler Mane EDD (Type) One: I boo Done: Matrix Sampler Mane Cooler Templeeudances: A A Matrix Sampler Mane EDD (Type) OCC Matrix Sampler Mane EDD (Type) OCC Matrix Sampler Mane Matrix Sampler Mane EDD (Type) OCC Matrix <td></td> <td>2</td> <td></td> <td>1</td> <td>, Hawkir</td> <td>05-34</td> <td></td> <td>1</td> <td>HUI</td>		2		1	, Hawkir	05-34																	1	HUI
Chain-of-Custody Record Turn-Around Time: Ieint: CMAI- Curlsboud Intradiction Ining Address: Intradiction Intradiction alling Address: Intradiction Intradiction Ining Address: Intradiction Curlsboud Ining Address: Intradiction Intradiction Ining Fault Intradiction Intradiction					4901 F	Tel. 5		(0									_						Tks:	
Chain-of-Custody Record Turn-Around Time: lient: CMAID-Curlsboud □ Standard ZMuth With alling Address: □ Standard □ Standard ZMuth With alling Address: □ Project H#: Project H#: Project H#: none #: Project Manager: With # 30.8 5/41/94 none #: Project Manager: Project Manager: none #: Nith # 30.8 5/41/94 none #: Project Manager: scattage Sampler: Antic Project Manager: scattage Project Manager: fill <																	_				_		Remai	
Chain-of-Custody Record Turn-Around Time: lient: GMA- Carlsback Imm-Around Time: alling Address: Project Name: Project Name: alling Address: Project Name: Project Manager: voc Package: Level 4 (Full Validation) AML 4/ MdM voc Package: Imm Address: Project Manager: voc Package: Imm Address: AML 4/ MdM voc Packade: Imm Address: AML 4/ MdM							194		11-1-1	NCVI		8			(.		200-						Late Time 6/5/Lo 1330	Date Time M (p/b/3.0 9;00
Chain-of-Custody Record Turn-Arou lient: CMA-Curlsboud Estanda aling Address: Project Ma aling Address: Project Ma aling Address: Project Ma none #: Project Ma Mill or Fax#: Project Ma Address: Curlsbud Project Ma Project Ma Address: Project Ma Mill or Fax#: Project Ma Itime: Matrix Sample: Project Ma Mill or Fax#: Project Ma Itime: Reinquished by: Mill or Fax#: Project Ma Itime: Reinquished by:		nd Time:		me:	\square		968541	I	5	1 1 1	LAH	823	s:	1p(including CF): 2									Via:	Via:
Chain-of-Custody Record lient: CMA- Curlshoud alling Address:		Turn-Arour	□ Standa	Project Na	Salad	Project #:		Project Ma	Vehice	201	Sampler:	Un Ice:	# of Cooler	Cooler Ten	Container Type and #	yor	_						Received by	Received by:
		Chain-of-Custody Record	SMA- C		ailing Address:		one #:	nail or Fax#:					EUU (I ype)		Time Matrix	201049 5011	1 SUBJE-1						Time:	2



June 17, 2020

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

RE: Salado Draw 6

OrderNo.: 2006371

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): SL	_1-Surface	
Project: Salado Draw 6		(Collection Date	e: 6/5	5/2020 10:46:00 AM	
Lab ID: 2006371-001	Matrix: SOIL		Received Date	e: 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	16000	600	mg/Kg	20	0 6/15/2020 9:51:48 PM	53073
EPA METHOD 8015D MOD: GASOLINE F	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 RANGE	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 SHOP	RT 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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

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

Page 1 of 6

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	_1-0.5'	
Project: Salado Draw 6		(Collection Dat	e: 6/3	5/2020 10:48:00 AM	
Lab ID: 2006371-002	Matrix: SOIL		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	ORT 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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

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

Page 2 of 6

Client: Project:	Souder, Miller & Salado Draw 6	Associate	es							
Sample ID: MB-53	6073 Sam	pType: m	blk	Tes	tCode: EP	A Method	300.0: Anion	s		
Client ID: PBS	Ba	Batch ID: 53073 RunNo: 69641								
Prep Date: 6/14/	14/2020 Analysis Date: 6/14/2020 SeqNo: 2417494							g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								
Sample ID: LCS-5	3073 Sam	pType: Ic :	S	Tes	tCode: EP	A Method	300.0: Anion	s		
Client ID: LCSS	Ba	tch ID: 53	073	F	RunNo: 69	641				
Prep Date: 6/14/	2020 Analysi	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
- 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

2006371

17-Jun-20

,	ouder, Miller & Associates alado Draw 6										
Sample ID: MB-52935	Samp	ype: ME	BLK	TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batc	h ID: 529	935	RunNo: 69465							
Prep Date: 6/7/2020	tte: 6/7/2020 Analysis Date: 6/8/2020			SeqNo: 2410165 Units: mg/Kg							
Analyte	Result					LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	ND	ND 10									
Motor Oil Range Organics (MRO)	ND	50									
Surr: DNOP	7.9		10.00		79.0	55.1	146				
Sample ID: LCS-52935	Samp	ype: LC	S	Tes	Code: EF	PA Method	8015M/D: Die	esel Range	e Organics		
Client ID: LCSS	Batc	h ID: 52	935	R	unNo: 69	9465					
Prep Date: 6/7/2020	Analysis [Date: 6/	8/2020	SeqNo: 2410166				g			
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				

Qualifiers:

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

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

Page 4 of 6

2006371

17-Jun-20

Client:	Souder, Miller &	Associate	es							
Project:	Salado Draw 6									
Sample ID: mb-529	26 Sam	pType: M	BLK	Tes	tCode: EF	PA Method	8260B: Volat	iles Short	List	
Client ID: PBS	Ba	tch ID: 52	926	R	unNo: 69	9467				
Prep Date: 6/6/20	20 Analysis	Date: 6/	7/2020	SeqNo: 2410169			Units: mg/Kg			
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								
(ylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethar	ne-d4 0.46		0.5000		92.5	70	130			
Surr: 4-Bromofluorober	nzene 0.48		0.5000		95.3	70	130			
Surr: Dibromofluorome	thane 0.49		0.5000		98.8	70	130			
Surr: Toluene-d8	0.48		0.5000		96.3	70	130			
Sample ID: Ics-529	26 Sam	pType: LC	S4	Tes	tCode: EF	PA Method	8260B: Volat	iles Short	List	
Client ID: BatchQ	c Ba	tch ID: 52	926	SampType: LCS4 TestCode: EPA Method 8260B: Volatiles Short List Batch ID: 52926 RunNo: 69467						
			010	Г						
Prep Date: 6/6/20	20 Analysis	Date: 6/					Units: mg/K	g		
Prep Date: 6/6/20	20 Analysis Result	Date: 6/ PQL	7/2020				Units: mg/K HighLimit	g %RPD	RPDLimit	Qual
			7/2020	S	SeqNo: 24	410170	0	•	RPDLimit	Qual
Analyte	Result	PQL	7/2020 SPK value	SPK Ref Val	eqNo: 24 %REC	110170 LowLimit	HighLimit	•	RPDLimit	Qual
Analyte Benzene	Result 1.0	PQL 0.025	7/2020 SPK value 1.000	SPK Ref Val	eqNo: 24 %REC 101	410170 LowLimit 80	HighLimit 120	•	RPDLimit	Qual
Analyte Benzene Foluene	Result 1.0 0.99	PQL 0.025 0.050	7/2020 SPK value 1.000 1.000	SPK Ref Val 0 0	SeqNo: 24 %REC 101 98.9	410170 LowLimit 80 80	HighLimit 120 120	•	RPDLimit	Qual
Analyte Benzene Foluene Ethylbenzene	Result 1.0 0.99 1.0 3.1	PQL 0.025 0.050 0.050	7/2020 SPK value 1.000 1.000 1.000	SPK Ref Val 0 0 0	SeqNo: 24 %REC 101 98.9 101	410170 LowLimit 80 80 80	HighLimit 120 120 120	•	RPDLimit	Qual
Analyte Benzene Foluene Ethylbenzene Kylenes, Total	Result 1.0 0.99 1.0 3.1 ie-d4 0.46	PQL 0.025 0.050 0.050	7/2020 SPK value 1.000 1.000 1.000 3.000	SPK Ref Val 0 0 0	SeqNo: 24 %REC 101 98.9 101 103	LowLimit 80 80 80 80 80 80	HighLimit 120 120 120 120	•	RPDLimit	Qual
Analyte Benzene Foluene Ethylbenzene Kylenes, Total Surr: 1,2-Dichloroethar	Result 1.0 0.99 1.0 3.1 ie-d4 0.46 izene 0.47	PQL 0.025 0.050 0.050	7/2020 SPK value 1.000 1.000 1.000 3.000 0.5000	SPK Ref Val 0 0 0	SeqNo: 24 %REC 101 98.9 101 103 92.8	410170 LowLimit 80 80 80 80 80 70	HighLimit 120 120 120 120 120 130	•	RPDLimit	Qual

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

2006371

17-Jun-20

Client: Souder, Project: Salado I	Miller & A Draw 6	ssociate	°S							
Sample ID: mb-52926	SampT	Гуре: МЕ	BLK	Tes	Code: EF	PA Method	8015D Mod:	Gasoline I	Range	
Client ID: PBS	Batch	h ID: 52	926	R	unNo: 69	9467				
Prep Date: 6/6/2020	Analysis D	Date: 6/	7/2020	SeqNo: 2410208 Units: mg/Kg						
Analyte	Result	Result PQL SPK value SPK Ref Val %REC LowLimit					HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO) Surr: BFB	ND 470	5.0	500.0		94.3	70	130			
Sample ID: Ics-52926	SampT	ype: LC	S	Tes	Code: EF	PA Method	8015D Mod:	Gasoline	Range	
Client ID: LCSS	Batch	h ID: 52	926	R	unNo: 69	9467				
Prep Date: 6/6/2020	Analysis D	Date: 6/	7/2020	S	eqNo: 24	410209	Units: mg/K	g		
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			

Qualifiers:

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

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

Page 6 of 6

2006371

17-Jun-20

Page	<i>60</i>	0	f 82-

ENVIRONMENTAL ANALYSIS LABORATORY TEL: 505-345-3	ntal Analysis Labor 4901 Hawki Albuquerque, NM 8 3975 FAX: 505-345 whallenvironmenta	ns NE 87109 Sar -4107	nple Log-In Che	Pa ck List
Client Name: SMA-CARLSBAD Work Order Num	ber: 2006371		RcptNo: 1	
Received By: Desiree Dominguez 6/6/2020 9:00:00 A	M	TA		
Completed By: Desiree Dominguez 6/6/2020 9:29:33 A	M	TP>		
Reviewed By: JF 4/4/2020		_		
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 🗌		
 Were all samples received at a temperature of >0° C to 6.0°C 	Yes 🗸	No 🗌		
 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 preserved?	Yes 🗸			
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 broken?	Yes	No 🗹	# of preserved bottles checked	/
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes 🗹	No 🗌	for pH:	unless noted
12. Are matrices correctly identified on Chain of Custody?	Yes 🗹	No 🗌	Adjusted?	
13. Is it clear what analyses were requested?	Yes 🖌	No 🗌		
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes 🗹	No 🗌	Checked by: DAD	6/6/20
Special Handling (if applicable)				
15. Was client notified of all discrepancies with this order?	Yes	No 🗌	NA 🗹	
Person Notified: Date	:]			
By Whom: Via:	🗌 eMail 🗌 F	Phone 🗌 Fax	In Person	
Regarding: Client Instructions:				
16. Additional remarks:				
17. <u>Cooler Information</u>				
Cooler No Temp °C Condition Seal Intact Seal No	Seal Date	Signed By		
1 3.0 Good Not Present				

Page 1 of 1

Chain-Of-Custody Record Immediation	Received by OCD: 1/12/2021 1	2:00:14 AM	Τ							Page 61 of 82
Of-Curstoody Record Turn-Morund Time: Indication Partial Rundle Project Name: Project Name: Project Name:	ЧХ									
Of-Custody Record Turn-Monut Time: Image: Samples in the standard in										ť
Of-Custody Record Turn-Around Time: P-Curl/skuch Sendard Sender Sendard Sen										al repo
Of-Custody Record Turn-Around Time: P-Curl/skuch Sendard Sender Sendard Sen	ME RJ 7109								- <u>-</u>	nalytic
Of-Custody Record Turn-Around Time: 1- Curt/skuch Sendard Sender Sendard Sendard	N M M M M M M M M M M M M M M M M M M M									UL Ithe au
Of-Custody Record Turn-Around Time: 1- Curt/skuch Sendard Sender Sendard Sendard	Lal.c Ital.c Ital.c 1345 Jues									ted on
Of-Custody Record Turn-Around Time: P-Curl/skuch Sendard Sender Sendard Sen	ALL Mendular S05 Rec		_							ly nota
Of-Custody Record Turn-Around Time: P-Curl/skuch Sendard Sender Sendard Sen	SI: SI: SI: SI: Suqu Vsis		_							e clear
Of-Custody Record Turn-Around Time: 1- Curt/skuch Sendard Sender Sendard Sendard		CIAE' BL' NO3' NO5' EO4' 804	シイ	2-						Devie will be
Of-Custody Record Turn-Around Time: P-Curl/skuch Sendard Sender Sendard Sen	MLL MIAL W.ha W.ha NE NE									d data
Of-Custody Record Turn-Around Time: 1- Curt/skuch Sendard Sender Sendard Sendard	HAAAN ww kins 45-3									htracte
In-of-Custody Record Tur-Around Time: MA- Curt/skucd Im-Around Time: Im-Around Time:<!--</td--><td>Lawl 1awl 05-3</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>nb-cor</td>	Lawl 1awl 05-3									nb-cor
In-Of-Custody Record Turn-Around Time: MA- Curt/shotd Standard Merit Project Name: Standard Merit Project Name: Standard Merit Molto Mathic Mathic Project Name: Proprint: Proprint:	901 H		-							S: Any si
In-of-Custody Record Turn-Around Time: MA- Curlshudd Brandard Curlshudd Project Name: Project Name:<										nark
In-of-Custody Record Turn-Around Time: MA- Curlsburd ses: ses: Standard Standard<td></td><td>BTEX' MTBE / TMB's (8021)</td><td>\mathbb{Y}</td><td>-</td><td></td><td></td><td></td><td></td><td></td><td>Ren</td>		BTEX' MTBE / TMB's (8021)	\mathbb{Y}	-						Ren
In-of-Custody Record Turn-Around Time: MA-Curl>brock Istandard Kush 5 Aug 4 Eess: Sculad O Drout #6 Project Name: Project Manager: Be: Law 200 Drout #6 Image: Control of the cont	U.V.									S B
In-of-Custody Record Turn-Around Time: MA- Cartistand Standard Froject Name: Project Name: Project Manager: Date Date Matrix Sample: Date Matrix Sample: Date Date Date Contrainer Project Manager: Dote: Date Date Date Date Sample Name Date Date Date Date Date Date Sample Name Date Date Date Date Date Date Sample Name Date Date	Ŧ	2 S	-							
In-of-Custody Record Turn-Around Time: MA-Curt/stand □ Standard Iver-Arush S. A ess: = 0 Standard Iver-Arush S. A ess: = 0 Standard Iver-Arush S. A ess: = 0 Standard Iverse S. A ess: = 0 collect Nolle # 20% S 91 64 # Project Manager: Nolle # 20% S 91 64 # = 0 collect Nolles: Iverse Nature est = 0 collect Sample: Iverse Nature Matrix Sample: Iverse Nature No est = 0 collect Sample: Iverse Native Iverse Native est = 0 collect Project Manager: Iverse Native Iverse est = 0 collect = 0 collect Iverse No est = 0 collect = 4 of Coolers: Iverse Iverse est = 0 collect = 4 of Coolers: Iverse Iverse est = 0 collect = 4 of Coolers: Iverse Iverse est = 0 collect = 4 of Coolers: Iverse Iverse est = 0 collect = 4 of Coolers: Iverse Iverse est = 0 collect = 1 fverse Iverse Ive	201	SAL 3	100							A A
In-of-Custody Record Turn-Around Time: MA- Curlsbudd Istandard Kush S ess: Project Name: Project Name: ess: Project Manager: Project Manager: age: I Level 4 (Full Validation) ASMULUL min Project Manager: Project Manager: age: I Level 4 (Full Validation) ASMULUL min ASMULUL Project Manager: age: I Level 4 (Full Validation) ASMULUL min ASMULUL Project Manager: age: I Level 4 (Full Validation) ASMULUL min Asmole Project Manager: age: I Level 4 (Full Validation) ASMULUL min Asmole Project Manager: age: I Level 4 (Full Validation) ASMULUL abritix Sample Name Container alg Val Val bill Val Val bill Val Val bill Ascended by Val bill Matrix Received by bill Val Val bill Matrix Received by bill Val Val		9 2 9 P	Ĭ							Date Date
In-of-Custody Record Turn-Around Time: MA- Curlsbudd □ Standard fuusi ess: Project Name: Project Name: es: □ Level 4 (Full Validation) ASNUL MULU es: □ Cuther Project Manager: es: □ Az Compliance Sampler: CAA es: □ Cuther Prosenvative is: 1 Az Compliance Cooler Tempneudurg cs: 2 est 0 Coolers: 1 Ves fs: 2 Cather Cooler Tempneudurg cs: 2 est 2 Cather 0 Coolers: est 2 Cather 1 Ves fs: 2 Cather 1 Ves <	110		10 M		× -					es. T
In-of-Custody Record Turn-Around Time: MA- Curlsdud Project Name: ess: Project Name: ess: Project Name: ess: Project Manager: main: Project Manage	S, CU Rus	tiv 2								l Q (
In-of-Curstody Record Turn-Around Tim MA- Curlsburd Estimate ess: Standard ress: Project Name: ess: Project Name: ess: Project Manager: age: Level 4 (Full Validation) Adhlet M i: Az Compliance age: Level 4 (Full Validation) Adhlet M i: Az Compliance i: Other i: Other i: Az Compliance i: Other i: Other i: Az Compliance i: Az Complexit#			9							
In-of-Custody Record Turn-Around MA- Curlshood □ Standard ress: □ Standard respect Mana Sample: respect Mana Project Mana respect Mana			24.							
In-of-Custody Record Turn-Arc MA- Curlsbady Important ress: Important rest Important ress:	and dard	# mps://								ther a
In-of-Curclody Record Tur MA- Curlsbadd Proj ess: <	ect h	ect N Ppler Coo Coo Coo Coo Soo Soo Soo Soo Soo Soo	di di	-						ved b ved b
in-of-CurtStody Record		Proj	2/02							Recei
in-of-Custody Record MA- Curtsbad #: #: #: ess: est: est: <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>subco</td>										subco
in-of-Custody Reco	<u>פ</u>	datio	v la							Tay be
in-of-Custody Rei MA- Curlshord ess: ess: ess: ess: age:		e salic	20	N I						ental n
in-of-Custody MA-Custody #: ess: ess: ess: age: 	S ×		Ś.	0						ironmé
in-of-Custoc MA-Curlsk ess: ess: ess: ess: age: 			h	+1						
in-of-Cusi MA- Cur iess: age: age: age: age: age: age: be) Relinquished by Relinquished by Relinquished by Relinquished by Relinquished by	to to the second	amp liano	T	LOF	-					
in-of-C MA- C MA- C : age: ess: ess: ess: ess: age: Relinquist Relinquist Relinquist sany, samples su	ar	S d d S	3	9	2			+		bmitte
In-of MA- MA- Mat Relinition Reli	Ū C	trix C	1.1							
	•		N I	T						Relir
		e <u>p</u> n: d	1046	16418			8			Time: [3530 Time:]900 f necessary,
		Time Intaria	101	10						
Client: Chain- Client: Chain- Mailing Address: Phone #: Client: AMP email or Fax#: OAVQC Package: Date Time Chient: Phone #: Date Time Date Time Chient: Phone #: Date Time Chient: Phone #: Date Time Chient: Phone #: Date Time	ailing at the second se	Te DI EDI	5/20							S. in Ste
Released to Imaging: 3/23/2021 3:27:23 PM			6							a la M

Released to Imaging: 3/23/2021 3:27:23 PM



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

Hall Environmental Analysis Laboratory

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

Website: clients.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

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, Inc	•			Analytical Report Lab Order 2007223 Date Reported: 7/14/2	020	
CLIENT: Souder, Miller & Associates Project: Salado Draw 6 Fed 1H			t Sample I lection Dat		.1-2' 2/2020 1:30:00 PM		
Lab ID: 2007223-001	Matrix: SOIL	Matrix: SOIL Received Date: 7/7/2020 9:					
Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					,	st: JMT	
Chloride	ND	60	mg/Kg	20	7/10/2020 6:34:10 PN	1 53632	

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 3

.

Hall Environmental Analysis	s Laboratory, Inc	•			Analytical Report Lab Order 2007223 Date Reported: 7/14/2	020
CLIENT: Souder, Miller & Associates Project: Salado Draw 6 Fed 1H		Col		e: 7/2	2/2020 1:43:00 PM	
Lab ID: 2007223-002 Analyses	Matrix: SOIL Result				7/2020 9:40:00 AM Date Analyzed	Batch
EPA METHOD 300.0: ANIONS Chloride	ND	61	mg/Kg	20	Analy: 7/10/2020 7:11:12 PN	st: JMT 53632

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
- Not Detected at the Reporting Limit
- ND PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

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

Page 2 of 3

.

Client: Project:		er, Miller & Ass lo Draw 6 Fed 1		S							
Sample ID: M	IB-53632	SampTy	vpe: mb	olk	Tes	tCode: EF	PA Method	300.0: Anion	s		
Client ID: P	BS	Batch	ID: 53	632	F	RunNo: 7(0271				
Prep Date:	7/10/2020	Analysis Da	is Date: 7/10/2020 SeqNo: 2442502						g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID: L	CS-53632	SampTy	vpe: Ics		Tes	tCode: EF	PA Method	300.0: Anion	s		
Client ID: L	CSS	Batch	ID: 53	632	F	RunNo: 7()271				
Prep Date:	7/10/2020	Analysis Da	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:

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

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

Page 3 of 3

2007223

14-Jul-20

	HALL ENVIRONMENTAL ANALYSIS LABORATORY				ental Analy 490 Albuquero 3975 FAX: ts.hallenvi	01 Haw que, NN 505-34	kins NE 1 87109 45-4107	Sample Log-In Check List				
Client Name	e: Souder, Mi Associates		Work	Order Num	ber: 200	7223			RcptNo:	1		
Received B	y: Juan Roja	as	7/7/2020	0 9:40:00 A	M		que	una y una y				
Completed E	By: Juan Roja	as	7/7/2020	0 9:53:45 A	M		Gue	may				
Reviewed By	" JE 7/:	7/20										
Chain of C	Sustody											
1. Is Chain o	of Custody comp	lete?			Yes	\checkmark	N	lo 🗌	Not Present			
2. How was	the sample deliv	vered?			Cou	rier						
Log In 3. Was an a	ttempt made to c	cool the sampl	es?		Yes	✓	N	lo 🗌	NA 🗌			
4. Were all s	amples received	at a temperat	ture of >0° C t	o 6.0°C	Yes	~	Ν	o 🗌	NA			
5. Sample(s)	in proper conta	iner(s)?			Yes		Ν	o 🗌				
6. Sufficient	sample volume f	or indicated te	st(s)?		Yes	\checkmark	N	o 🗌				
	es (except VOA			d?	Yes	~	No	b				
8. Was prese	rvative added to	bottles?			Yes		No		NA 🗌			
9. Received a	at least 1 vial wit	h headspace <	<1/4" for AQ V	DA?	Yes		No		NA 🗸			
	sample containe				Yes			o 🔽 🛛				
11. Does pape	rwork match bot	tle labels?			Yes	~	No	5 🗆	# of preserved bottles checked for pH:			
	epancies on cha							_		>12 unless noted)		
	es correctly iden				Yes			• ∐	Adjusted?			
	what analyses we olding times able				Yes		No	_	Checked by	DA 7.7.20		
	y customer for a				Yes	V	No		Checked by	pit t i a		
Special Har	ndling (if app	licable)										
15. Was clien	t notified of all di	screpancies w	ith this order?		Yes		N	o 🗌	NA 🔽			
Pers	on Notified:			Date								
By V	Vhom:			Via:	eMa	ail 🗌	Phone [Fax	In Person			
Reg	arding:											
Clier	nt Instructions:											
16. Additional	remarks:											
17. <u>Cooler In</u>	formation											
Cooler		Condition	Seal Intact	Seal No	Seal Da	ate	Signed	Ву				
1	1.1	Good										

Page 1 of 1

<i>Received by OCD: 1/12/2021</i>	2:00:14 AM	Page 67 of
NMENTAL SORATORY m 4 87109 4107		
- ENVIRO LYSIS LAE allenvironmental.co - Albuquerque, Nh 5 Fax 505-345- Analysis Request	(AOV-im92) 0728	
SIS SIS Nviron Nviron Ibuqu Fax	(AOV) 0928	ev ev
LLE LLY nallen 5 Ana	CCRA 8 Metals CD F, Br, NO₃, NO₂, PO₄, SO₄	Cen XX
HALI ANAI www.ha kins NE 345-3975	PHAs by 8310 or 8270SIMS	
HALL ANAL ANAL www.ha 4901 Hawkins NE Tel. 505-345-3975	(1.403 bodteM) 8D3	Cupe
4901 H; Tel. 50	8081 Pesticides/8082 PCB's	
	трн:8015D(GRO / DRO / MRO)	Urel ATT
	BTEX / MTBE / TMB's (8021)	
Turn-Around Time: Standard Rush S dry THT Project Name: Salado Draw 6 Fed 14 Project #:	Project Manager: ASMUU MAXUUU Sampler: CA On Ice: B-Yes DNo # of Coolers: 1 Cooler Temp(motuding cr): 1, 1-051, 1 (°C) Container Preservative HEAL No. Type and # Type	$\begin{array}{c c c c c c c c c c c c c c c c c c c $
Client: Sudder Muller & Associate Mailing Address: 201 S. Hallword	email or Fax#: QA/QC Package: Carloand Level 4 (Full Validation) Accreditation: Az Compliance NELAC Other Carloand Carloand Accreditation: Az Compliance Carloand Carloand Carloand Carloand Carloand Carloand Carloa	ManI:36SpilSLI-21 $4h2$ $1Ce$ II:43M365III<



January 05, 2021

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

RE: Salado Draw 6 Federal 1

OrderNo.: 2012C36

Hall Environmental Analysis Laboratory

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

Website: clients.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

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

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2012C36

Date Reported: 1/5/2021

12/31/2020 3:33:45 PM 57269

CLIENT: Souder, Miller & Associates		Cli	ent Sample II	D:CS	1						
Project: Salado Draw 6 Federal 1		Collection Date: 12/23/2020 11:15:00 AM									
Lab ID: 2012C36-001	Matrix: SOIL	Matrix: SOIL Received Date: 12/29/2020 7:35:									
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 11:14:57 AM	57297					
EPA METHOD 8015M/D: DIESEL RANGI	E ORGANICS				Analys	t: mb					
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	12/31/2020 3:26:13 PM	1 57276					
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	12/31/2020 3:26:13 PM	1 57276					
Surr: DNOP	78.7	30.4-154	%Rec	1	12/31/2020 3:26:13 PM	1 57276					
EPA METHOD 8015D: GASOLINE RANG	E				Analys	t: NSB					
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	12/31/2020 3:33:45 PM	1 57269					
Surr: BFB	97.6	75.3-105	%Rec	1	12/31/2020 3:33:45 PM	1 57269					
EPA METHOD 8021B: VOLATILES					Analys	t: NSB					
Benzene	ND	0.024	mg/Kg	1	12/31/2020 3:33:45 PM	1 57269					
Toluene	ND	0.048	mg/Kg	1	12/31/2020 3:33:45 PM	1 57269					
Ethylbenzene	ND	0.048	mg/Kg	1	12/31/2020 3:33:45 PM	1 57269					
Xylenes, Total	ND	0.096	mg/Kg	1	12/31/2020 3:33:45 PM	1 57269					

114

80-120

%Rec

1

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

Qualifiers:

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

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

Page 1 of 9

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2012C36

Date Reported: 1/5/2021

12/31/2020 4:44:59 PM 57269

CLIENT: Souder, Miller & Associates		Cli	ient Sample II	D: SV	W1					
Project: Salado Draw 6 Federal 1	Collection Date: 12/23/2020 11:20:00 AM									
Lab ID: 2012C36-002	Matrix: SOIL	Received Date: 12/29/2020 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 11:52:11 AM	57297				
EPA METHOD 8015M/D: DIESEL RANGE	EORGANICS				Analyst	mb				
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	12/31/2020 3:50:12 PM	57276				
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	12/31/2020 3:50:12 PM	57276				
Surr: DNOP	79.3	30.4-154	%Rec	1	12/31/2020 3:50:12 PM	57276				
EPA METHOD 8015D: GASOLINE RANG	E				Analyst	NSB				
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	12/31/2020 4:44:59 PM	57269				
Surr: BFB	97.0	75.3-105	%Rec	1	12/31/2020 4:44:59 PM	57269				
EPA METHOD 8021B: VOLATILES					Analyst	NSB				
Benzene	ND	0.024	mg/Kg	1	12/31/2020 4:44:59 PM	57269				
Toluene	ND	0.048	mg/Kg	1	12/31/2020 4:44:59 PM	57269				
Ethylbenzene	ND	0.048	mg/Kg	1	12/31/2020 4:44:59 PM	57269				
Xylenes, Total	ND	0.096	mg/Kg	1	12/31/2020 4:44:59 PM	57269				

115

80-120

%Rec

1

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

Qualifiers:

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

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

Page 2 of 9

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2012C36

Date Reported: 1/5/2021

12/31/2020 5:55:57 PM 57269

CLIENT: Souder, Miller & Associates		Cl	ient Sample II	D: SV	V2					
Project: Salado Draw 6 Federal 1	Collection Date: 12/23/2020 11:25:00 AM									
Lab ID: 2012C36-003	Matrix: SOIL		Received Date: 12/29/2020 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 12:04:35 PM	57297				
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	mb				
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	12/31/2020 4:14:19 PM	57276				
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	12/31/2020 4:14:19 PM	57276				
Surr: DNOP	87.8	30.4-154	%Rec	1	12/31/2020 4:14:19 PM	57276				
EPA METHOD 8015D: GASOLINE RANG	E				Analyst	NSB				
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	12/31/2020 5:55:57 PM	57269				
Surr: BFB	96.4	75.3-105	%Rec	1	12/31/2020 5:55:57 PM	57269				
EPA METHOD 8021B: VOLATILES					Analyst	NSB				
Benzene	ND	0.025	mg/Kg	1	12/31/2020 5:55:57 PM	57269				
Toluene	ND	0.049	mg/Kg	1	12/31/2020 5:55:57 PM	57269				
Ethylbenzene	ND	0.049	mg/Kg	1	12/31/2020 5:55:57 PM	57269				
Xylenes, Total	ND	0.098	mg/Kg	1	12/31/2020 5:55:57 PM	57269				

113

80-120

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

Qualifiers:

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

- в Analyte detected in the associated Method Blank
- Е Value above quantitation range

%Rec 1

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

Page 3 of 9

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2012C36

Date Reported: 1/5/2021

12/31/2020 6:19:30 PM 57269

CLIENT: Souder, Miller & Associates		C	ient Sample I	D: SV	V3					
Project: Salado Draw 6 Federal 1	Collection Date: 12/23/2020 11:30:00 AM									
Lab ID: 2012C36-004	Matrix: SOIL		Received Dat	e: 12	/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 RANG	E 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 RANG	SE				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				

111

80-120

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

Qualifiers:

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

- в Analyte detected in the associated Method Blank
- Е Value above quantitation range

%Rec 1

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

Page 4 of 9

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2012C36

Date Reported: 1/5/2021

12/31/2020 6:42:58 PM 57269

CLIENT: Souder, Miller & Associates		Client Sample ID: SW4								
Project: Salado Draw 6 Federal 1		Collection Date: 12/23/2020 11:35:00 AM								
Lab ID: 2012C36-005	Matrix: SOIL	Matrix: SOILReceived Date: 12/29/2020								
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 12:29:23 PM	57297				
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analys	t: mb				
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	12/31/2020 5:02:21 PM	1 57276				
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	12/31/2020 5:02:21 PN	1 57276				
Surr: DNOP	99.4	30.4-154	%Rec	1	12/31/2020 5:02:21 PM	1 57276				
EPA METHOD 8015D: GASOLINE RANG	GE				Analys	t: NSB				
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	12/31/2020 6:42:58 PM	1 57269				
Surr: BFB	95.6	75.3-105	%Rec	1	12/31/2020 6:42:58 PM	1 57269				
EPA METHOD 8021B: VOLATILES					Analys	t: NSB				
Benzene	ND	0.024	mg/Kg	1	12/31/2020 6:42:58 PM	1 57269				
Toluene	ND	0.049	mg/Kg	1	12/31/2020 6:42:58 PM	1 57269				
Ethylbenzene	ND	0.049	mg/Kg	1	12/31/2020 6:42:58 PM	1 57269				
Xylenes, Total	ND	0.097	mg/Kg	1	12/31/2020 6:42:58 PM	1 57269				

112

80-120

%Rec

1

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

Qualifiers:

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

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

Page 5 of 9

	, Miller & Associates Draw 6 Federal 1			
Sample ID: MB-57297	SampType: MBLK	TestCode: EPA Method	300.0: Anions	
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	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Chloride	ND 1.5			
Sample ID: LCS-57297	SampType: LCS	TestCode: EPA Method	300.0: Anions	
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	SPK 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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

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

Page 6 of 9

2012C36

05-Jan-21

,	Miller & A Draw 6 Fed		es							
Sample ID: MB-57276 SampType: MBLK				TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS Batch ID: 57276			F	RunNo: 74362						
Prep Date: 12/30/2020	Analysis [Date: 12	2/31/2020	5	SeqNo: 2	625215	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	13		10.00		128	30.4	154			
Sample ID: LCS-57276	Samp	Гуре: LC	S	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: LCSS	Batc	h ID: 57	276	F	RunNo: 74	4362				
Prep Date: 12/30/2020	Analysis [Date: 12	2/31/2020	5	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

#: 2012C36 05-Jan-21

	uder, Miller & A lado Draw 6 Fe		es							
Sample ID: 2012c36-00	01ams Samp	oType: MS	3	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID: CS1	Bat	ch ID: 57	269	F	RunNo: 74	4346				
Prep Date: 12/29/202	0 Analysis	Date: 12	2/31/2020	S	SeqNo: 2	624875	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GI	RO) 25	4.7	23.39	0	106	61.3	114			
Surr: BFB	1000		935.5		108	75.3	105			S
Sample ID: 2012c36-00)1amsd Samp	оТуре: М	SD	Tes	tCode: El	PA Method	8015D: Gasc	line Rang	e	
Client ID: CS1	Bat	Batch ID: 57269 RunNo: 74346								
Prep Date: 12/29/202	0 Analysis	Date: 12	2/31/2020	S	SeqNo: 2	624876	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GI	RO) 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	Samp	oType: LC	s	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID: LCSS	Bat	ch ID: 57	269	F	RunNo: 74	4346				
Prep Date: 12/29/202	0 Analysis	Date: 1/	1/2021	5	SeqNo: 2	624888	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (Gl	RO) 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

Page 8 of 9

2012C36

05-Jan-21

Client: Project:	· · · · · · · · · · · · · · · · · · ·	Ailler & A raw 6 Fed		S							
Sample ID:	LCS-57269	SampT	Гуре: LC	S	Tes	TestCode: EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batc	h ID: 572	269	R	unNo: 74	1346				
Prep Date:	12/29/2020	Analysis E	Date: 12	2/31/2020	S	eqNo: 26	624756	Units: mg/K	٢g		
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	;	Tes	tCode: EF	PA Method	8021B: Volat	tiles		
Client ID:	SW1	Batc	h ID: 572	269	R	unNo: 74	4346				
Prep Date:	12/29/2020	Analysis E	Date: 12	2/31/2020	S	eqNo: 26	624903	Units: mg/K	ίg		
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 Samp1	Гуре: МS	D	Tes	tCode: EF	PA Method	8021B: Volat	tiles		
Client ID:	SW1	Batc	h ID: 572	269	R	lunNo: 74	4346				
Prep Date:	12/29/2020	Analysis E	Date: 12	2/31/2020	S	eqNo: 26	624904	Units: mg/K	۲g		
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	
Xylenes, 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

Page 9 of 9

WO#: 2012C36

1 uge /0 0/ 04	Page	78	of	82
----------------	------	-----------	----	----

•

HALL HALL ENVIRONMENTAL ANALYSIS LABORATORY			TE	ll Environme L: 505-345 ebsite: clien	49 Albuquer 3975 FAX:	01 Hawk que, NM 505-34	kins NE 187109 5-4107	Sample Log-In Check List				
Client Name:	Souder, Mi	ller & Associa	it Work	Order Num	nber: 201	2C36			RcptNo: 1			
Received By:	Isaiah Ort	liz	12/29/2	020 7:35:0	0 AM			I_C	0-1			
Completed By:	Isaiah Ort	liz	12/29/2	020 8:36:28	8 AM			Inc				
Reviewed By:	GL 12	129120										
Chain of Cus	tody											
1. Is Chain of Cu	istody comp	lete?			Yes	\checkmark	I	No 🗌	Not Present			
2. How was the	sample deliv	ered?			Cou	rier						
Log In 3. Was an attem	pt made to c	cool the sampl	es?		Yes	✓	1	No 🗌				
4. Were all samp	les received	at a temperat	ure of >0° C	to 6.0°C	Yes	\checkmark	1	No 🗌				
5. Sample(s) in p	roper contai	iner(s)?			Yes	\checkmark	1	No 🗌				
6. Sufficient sam	ole volume f	or indicated te	st(s)?		Yes	\checkmark	Ν	lo 🗌				
7. Are samples (e	except VOA	and ONG) pro	perly preserve	ed?	Yes	\checkmark	N	lo 🗌				
8. Was preservat	ive added to	bottles?			Yes		Ν	lo 🗸	NA 🗌			
9. Received at lea	ast 1 vial wit	h headspace ·	<1/4" for AQ V	OA?	Yes		Ν	lo 🗌	NA 🗹			
10. Were any sam	ple containe	ers received b	oken?		Yes		١	No 🔽	# of preserved			
11. Does paperwo (Note discrepa					Yes	\checkmark	Ν	lo 🗌	bottles checked for pH: (<2 or >12 unless noted)			
12. Are matrices c	orrectly iden	tified on Chair	of Custody?		Yes	\checkmark	N	lo 🗌	Adjusted?			
13. Is it clear what	analyses we	ere requested	?		Yes	\checkmark	N	lo 🗌				
14. Were all holdin (If no, notify cu					Yes		N	lo 🗌	Checked by: JR 12 29/7			
Special Handli	ng (if app	olicable)										
15. Was client not	ified of all di	screpancies v	vith this order?		Yes		1	No 🗌	NA 🗹			
Person I	Notified:	[Date	: [Toma and a station				
By Who	m:	[Via:	🗌 eM	ail 🗌	Phone	🗌 Fax	In Person			
Regardii Client In	ng: structions:							CIVE HILFERICS				
16. Additional ren	narks:											
17. <u>Cooler Inforr</u>	nation											
Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal D	ate	Signe	ed By				
1	0.8	Good	Not Present									

Page 1 of 1

HALL ENVIRONMENTAL		87109				192dA\t															uge		
HALL ENVIR ANALYSTS I	www.hallenvironmental.com	4901 Hawkins NE - Albuquerd	10	Anal	¢O	5 15 -	0728	or 8 ة N	10 ³ stals	y 83 € M∉ \$r, 1 (AO)	EDB (M PAHs b RCRA 5 () F, E 8260 (V 8260 (V	100 million (1997)					A.			/			contracted data will be clearly not
		4901 Ha	Tel. 505) и и и	ЯQ 280) 0)) 8/s	Refe (GF	TM 15D oitse	9 1808									 Remarks:	1	10	this possibility. Any sub-
round Time: Indard	20.5	Salado Them 6 Federal 1			Manager:	AShley Manull		😰 Yes 🛛 No	olers: Z 0.3.40	Cooler Temp(including CF): 1, 1, ° ± 0 (°C)	ner Preservative 2012/26	2 (001 001	002	003	004	005		0		by: Via: Date Time 12/2220 1330	by: Via: Date Time	L'averin refreta 0735	other accredited laboratories. This serves as notice of t
Chain-of-Custody Record Turn-Around T CMA - Carlsback Zandard			Proj		ax#: Project Manag	Level 4 (Full Validation)	Az Compliance Sam	□ Other	Type) # of Coolers:	Cooler -	Time Matrix Sample Name Type and #	11:15 Soul 251 LIOZ	11:20 Swl	11:25 522	11:30 523	11:35 - Swel -				Time: Relinquished by.	Time: Relinquished by: Received by	1900 ft Tal	If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.
Client: SM	Іта	Mailing Ac	3/2	2 Phone #:	email or Fax#:	△A/QC Package: □ Standard	Accreditation:	D NELAC	EDD (Type)		Date Ti	12/23/11	11	1	1	= -\		e e		Date: Time:	Date: Tin	1/28/20 1	If ne

K maging:

•

Received by OCD: 1/12/2021 12:00:14 AM

Page 79 of 82

.

APPENDIX F EXCAVATION PHOTO LOG



District I 1625 N. French Dr., Hobbs, NM 88240

District II

District IV

Phone:(575) 393-6161 Fax:(575) 393-0720

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

Phone:(505) 334-6178 Fax:(505) 334-6170

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

District III 1000 Rio Brazos Rd., Aztec, NM 87410

CONDIT	ONS

Action 14405

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

CONDITIONS OF APPROVAL

Operator:			OGRID:	Action Number:	Action Type:
DEVON ENERGY PRODUCTION COMPAN	333 West Sheridan Ave.	Oklahoma City, OK73102	6137	14405	C-141
OCD Reviewer		Condition			
kcollins		None			