

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

April 22, 2020

#5E29133-BG16

NMOCD District 1 1625 N. French Dr. Hobbs, New Mexico 88240

SUBJECT: Remediation Closure Report for the North Thistle 2 State 1H Release (1RP-4124), Lea County, New Mexico

To Whom it May Concern:

On behalf of Devon Energy Production Co. LP (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 North Thistle 2 State 1H site. The site is in Unit B, Section 2, Township 23S, Range 33E, Lea County, New Mexico, on State 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	North Thistle 2 State 1H	Company	Devon Energy Production	
API Number	30-25-42533	Location	32.3395968442401, -103.541209799143	
Incident Number	NKJ1603327792			
Estimated Date of Release	1/29/2016	Date Reported to NMOCD	1/30/2016	
Land Owner	State	Reported To	NMOCD District 1	
Source of Release	Hole in lay flat line			
Released Volume	5 bbls	Released Material	Produced Water	
Recovered Volume	3 bbls	Net Release	2 bbls	
NMOCD Closure Criteria	>100 feet to groundwater			
SMA Response Dates	3/20/2020			

Page 2 of 3

North Thistle 2 State 1H Remediation Closure Report (1RP-4124) April 22, 2020

1.0 Background

On January 29, 2016, a release was discovered at the North Thistle 2 State 1H site due to a hole in the lay flat line which caused a release of produced water. Initial response activities were conducted by Devon, and included source elimination and containment activities by shutting off the pumps, applying line pinchers, and replacing the section of damaged line. Site stabilization consisted of dispatching a vacuum truck to the site which recovered approximately three 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 North Thistle 2 State 1H is located approximately 23 miles southwest of Eunice, New Mexico on State land at an elevation of approximately 3,518 feet above mean sea level (amsl).

Based upon New Mexico Office of the State Engineer (NMOSE) (Appendix B), depth to groundwater in the area is estimated to be 370 feet below grade surface (bgs) after adjusting for elevation differences between water well locations and the release site. There are no known water sources within ½-mile of the location, however, there are seven within 3.1 miles according to the NMOSE online water well database (https://gis.ose.state.nm.us/gisapps/ose_pod_locations/; accessed 3/31/2020). The nearest significant watercourse is Antelope Draw, located approximately 8.75 miles to the southeast. Figure 2 illustrates the site with 200 and 300-foot radii to indicate that it does not lie within a sensitive area as described in 19.15.29.12.C(4) NMAC.

Based on the information presented herein, the applicable NMOCD Closure Criteria for this site is for a groundwater depth of greater than 100 feet bgs. The site meets the standards of Table I of 19.15.29.12 NMAC.

Table 2 demonstrates the Closure Criteria applicable to this location. Pertinent well data is attached in Appendix B.

3.0 Release Characterization and Remediation Activities

On March 20, 2020, SMA personnel arrived on site in response to the release associated with the North Thistle 2 State 1H well. Because there was approximately a four-year gap between the time of release (Jan. 2016) and response (March 2020), the original spill area was not discernable through either staining or dead vegetation. SMA was able to determine the original release area through a site map and photos that were attached to the initial C-141. SMA performed site delineation activities by collecting soil samples around the release area. A total of nine samples (S1-S4, SW1-SW4, & Comp-6) were collected at the surface and sent for laboratory analysis. Samples S1-S4 were collected along the presumed spill path directly adjacent to the berm surrounding the pad. Standing fluids were clearly visible in this area in the photos attached to the C-141. Sidewall samples SW1-SW4 were collected to determine the lateral extents of the spill area. Sample Comp-6 was collected to the C-141. Soil samples were analyzed for total chloride using EPA Method 300.0; benzene, toluene, ethylbenzene and total xylenes (BTEX) using EPA Method 8021B; and motor, diesel and gasoline range organics (MRO, DRO, and GRO) by EPA Method 8015D. Samples were placed into laboratory supplied glassware, labeled, and maintained on ice until delivery to Hall Environmental Analysis Laboratory in Albuquerque, New Mexico.

Figure 3 shows the original extent of the release and sample locations. Laboratory results are summarized in Table 3. Laboratory reports are included in Appendix C.

Page 3 of 3

North Thistle 2 State 1H Remediation Closure Report (1RP-4124) April 22, 2020

Lab results indicate that all samples met NMOCD closure criteria for both chlorides and hydrocarbons. In addition, the top four (4) feet of impacted areas off the well pad meet the Reclamation requirement of 19.15.29.13(D)(1). Removal of impacted soils is not required because closure criteria has been met. SMA recommends no further action.

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 505-320-9241 or Shawna Chubbuck at 505-325-7535.

Submitted by: SOUDER, MILLER & ASSOCIATES Reviewed by:

Ashley Maxwell Project Scientist

hauna Chubbuck

Shawna Chubbuck Senior Scientist

ATTACHMENTS:

Figures:

Figure 1: Vicinity and Well Head Protection Map

Figure 2: Surface Water Radius Map

Figure 3: Site and Sample Location Map

Tables:

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

Appendices:

Appendix A: Form C141 Appendix B: NMOSE Wells Report and Calculated Depth to Groundwater Appendix C: Laboratory Analytical Reports Appendix D: Photolog

FIGURES







Page 7 of 44

TABLES

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Site Information (19.15.29.11.A(2, 3, and 4) NMAC)	Source/Notes	
Depth to Groundwater (feet bgs)	370	New Mexico Office of the State Engineer
Hortizontal Distance From All Water Sources Within 1/2 Mile (ft)	N/A	USGS Topographic Map
Hortizontal Distance to Nearest Significant Watercourse (mi)	8.75	Antelope Draw to Southeast

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

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Table 3: Summary of Sample Results

Devon Energy LLC North Thistle 2 State 1H(1RP-4124)

Sample	Sample	Depth	Proposed Action/	BTEX	Benzene	GRO	DRO	MRO	Total TPH	CI-
ID	Date	(feet bgs)	Action Taken	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
	NMOCD C	losure Criteria	a	50	10	10	00		2500	20000
SW1				<0.221	<0.025	<4.9	<9.2	<46	<60.1	<61
SW2				<0.225	<0.025	<5.0	<9.1	<46	<60.1	<60
SW3				<0.221	<0.025	<4.9	<9.6	<48	<62.5	<60
SW4				<0.224	<0.025	<5.0	<9.7	<48	<62.7	110
S1	4/2/2020	Surface	In-Situ	<0.220	<0.024	<4.9	<10	<50	<64.9	<60
S2				<0.222	<0.025	<4.9	<10	<50	<64.9	<60
S3				<0.225	<0.025	<5.0	<10	<51	<66	120
S4				<0.225	<0.025	<5.0	<9.3	<47	<61.3	65
Comp-6				<0.219	<0.024	<4.9	<8.5	<43	<56.4	<60

"--" = Not Analyzed

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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

> Oil Conservation Division 1220 South St. Francis Dr. Santa Fe. NM 87505

Form C-141 Revised August 8, 2011

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

1220 S. St. Francis Dr., Santa Fe, NM 87505 Santa I	Fe, NM 87505			
Release Notification	on and Corrective Action			
	OPERATOR Initial Report Final Report			
Name of Company: Devon Energy Production Co LP (6137)	Contact: Jeff Heath, Devon Assistant Foreman Completions			
Address: PO Box 250 Artesia, NM 88211	Telephone No. 575.513.2274			
Facility Name: North Thistle 2 State 1H	Facility Type : Oil Well			
Surface Owner: State Mineral Owner	: State API No. 30-025-42533			
LOCATION OF RELEASE				
Unit LetterSectionTownshipRangeFeet from theNorB223833E505	th/South LineFeet from theEast/West LineCountyNorth2030EastLea			
Latitude: <u>32.3395968442401</u>	Longitude: <u>-103.541209799143</u>			
NATURI	E OF RELEASE			
Type of Release: Produced Water	Volume of Release: 5 BBLS Volume Recovered: 3 BBLS			
Source of Release: Lay Flat Line	Date and Hour of Occurrence: Date and Hour of Discovery 1/29/2016; 10:30 PM 1/29/2016; 10:30 PM			
Was Immediate Notice Given?	d If YES, To Whom? Kellie Jones - OCD			
By Whom? Jeff Heath, Devon Assistant Foreman Completions	Date and Hour: 1/30/2016; 2:06 PM			
Was a Watercourse Reached?	If YES, Volume Impacting the Watercourse.			
If a Watercourse was Impacted Describe Fully *				
N/A	By Kellie Jones at 7:36 am, Feb 02, 2016			
Describe Cause of Problem and Remedial Action Taken.* A hole was discovered in the lay flat line which caused the produced water spill. The cause is unknown at this time. The water pumps were shut off, line pinchers were applied, and the damaged section of the line was replaced.				
Describe Area Affected and Cleanup Action Taken.* Five barrels of produced water were spilled mostly off the pad on the Northeast side of the well pad, approximately 10' x 130' and another area extending Northeast approximately 10' x 105'. A vacuum truck was able to recover three barrels of the produced water. An environmental company will be called to test the spill area when completions operations have moved off of location and they will create a remediation plan for submittal.				
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.				
Signature: Denise Menoud	OIL CONSERVATION DIVISION			
Printed Name: Denise Menoud	Approved by Environmental Specialist:			
Title: Field Admin Support	Approval Date: 02/02/2016 Expiration Date: 04/02/2016			
E-mail Address: Denise.Menoud@dvn.com	Conditions of Approval: Site samples required. Delineate and remediate Attached			
Date: 2/1/2016 Phone: 575-746-5544	as per MNOCD guides. Geotag photographs of 1RP-4124			
* Attach Additional Sheets If Necessary	remediation recommended.			

nKJ1603327792 pKJ1603328014 Page 2

Oil Conservation Division

Incident ID	nKJ603327792
District RP	1RP-4124
Facility ID	
Application ID	

Was this a major	If YES, for what reason(s) does the responsible party consider this a major release?
release as defined by	
19 15 29 7(A) NMAC?	
□ 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

 \square 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 not been undertaken, explain why:

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 N	lame:	Lupe	Carrasco

Title: <u>Environmental Professional</u>

 Signature:
 Lupe Corrasco_
 Date:
 04/23/2020

 email:
 Lupe.Carrasco@dvn.com
 Telephone:
 575-7

Telephone: 575-748-0765

OCD Only

Received by:

Date: _____

Incident IDnKJ603327792District RP1RP-4124Facility IDApplication 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?	<u>370</u> (ft bgs)
Did this release impact groundwater or surface water?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🛛 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🛛 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗌 Yes 🛛 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🛛 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🛛 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🛛 No
Did the release impact areas not on an exploration, development, production, or storage site?	🗌 Yes 🔀 No

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

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

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

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

Page 3

Received by OCD: 5/18/2020	3:33:04 PM ato of Now Movico				Page 15 of 44
101111 C-141				Incident ID	nKJ603327792
Page 4	Oil Conservation Divisi	on		District RP	1RP-4124
				Facility ID	
				Application ID	
I hereby certify that the informative regulations all operators are reconciliated to adequately investigated addition, OCD acceptance of a and/or regulations. Printed Name: <u>Lupe Car</u> Signature: <u>Lupe Carrasco@dv</u> email: <u>Lupe.Carrasco@dv</u>	ation given above is true and complete to quired to report and/or file certain release nt. The acceptance of a C-141 report by and remediate contamination that pose a C-141 report does not relieve the operato rrasco	 the best of n renotifications the OCD doe to threat to groof or of responsion Title: Title: Date: Teleph 	ny knowledge a and perform cc s not relieve the undwater, surfa bility for compl <u>Environmen</u> 04/23/2020 one: <u>575-74</u>	nd understand that purs prrective actions for rele e operator of liability sh- ce water, human health iance with any other fe- tal Professional	uant to OCD rules and eases which may endanger ould their operations have or the environment. In deral, state, or local laws
OCD Only					
Received by:			Date:		

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Page 5

Oil Conservation Division

<u>Remediation Plan Checklist</u>: Each of the following items must be included in the plan.

	1 480 10 01 7
Incident ID	nKJ603327792
District RP	1RP-4124
Facility ID	
Application ID	

Page 16 of 11

Remediation Plan

Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation points Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation. Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction. Extents of contamination must be fully delineated. Contamination does not cause an imminent risk to human health, the environment, or groundwater. 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: Title: Signature: Date: Telephone: _____ email: OCD Only Received by: Date: Approved Approved with Attached Conditions of Approval Denied Deferral Approved Signature: Date:

Oil Conservation Division

Incident ID	nKJ603327792
District RP	1RP-4124
Facility ID	
Application ID	

Page 17 of 44

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 to	items must be included in the closure report.
\square A scaled site and sampling diagram as described in 19.15.29.	11 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	s of the liner integrity if applicable (Note: appropriate OCD District office
Laboratory analyses of final sampling (Note: appropriate OD	C District office must be notified 2 days prior to final sampling)
Description of remediation activities	
I hereby certify that the information given above is true and comple and regulations all operators are required to report and/or file certai may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and re- human health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regula restore, reclaim, and re-vegetate the impacted surface area to the co- accordance with 19.15.29.13 NMAC including notification to the O Printed Name: Lupe Carrasco Signature: Lupe.Carrasco@dvn.com	ete to the best of my knowledge and understand that pursuant to OCD rules in release notifications and perform corrective actions for releases which f a C-141 report by the OCD does not relieve the operator of liability mediate contamination that pose a threat to groundwater, surface water, a C-141 report does not relieve the operator of responsibility for ations. The responsible party acknowledges they must substantially onditions that existed prior to the release or their final land use in DCD when reclamation and re-vegetation are complete.
OCD Only	
Received by:	Date:
Closure approval by the OCD does not relieve the responsible party remediate contamination that poses a threat to groundwater, surface party of compliance with any other federal, state, or local laws and/	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible /or regulations.
Closure Approved by:	Date: 01/19/2022
Printed Name: Jennifer Nobui	Title: Environmental Specialist A







APPENDIX B NMOSE WELLS REPORT AND CALCULATED DEPTH TO GROUNDWATER

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD replaced O=orpha C=the fil closed)	has beer ned, e is	1	()	qu	arte arte	rs are	e 1=NV e small	V 2=NE est to lat	3=SW 4=SI rgest) (N	E) IAD83 UTM in r	neters)	(In	feet)	
		POD Sub		0	0	0									
POD Number	Code	basin	County	Q 64	10	5 4	Sec	Tws	Rng	X	Y	DistanceDep	othWellDep	v thWater Co	vater olumn
<u>C 03582 POD1</u>		С	LE	4	1	1	14	23S	33E	636583	3575666 🌍	3419	590		
<u>CP 01130 POD1</u>		СР	LE	2	1	2	07	23S	34E	640662	3577558 🌍	3674	27		
<u>CP 01130 POD2</u>		СР	LE	2	1	2	07	23S	34E	640674	3577549 🌍	3689	27		
<u>CP 00872 POD1</u>		СР	LE	1	1	1	08	23S	34E	641225	3577504* 🌍	4216	494	305	189
<u>CP 01502 POD1</u>		СР	LE	4	3	3	05	23S	34E	641316	3577635 🌍	4257	648	200	448
<u>CP 01075 POD1</u>		СР	LE	1	1	1	08	238	34E	641278	3577525 🌍	4258	430	20	410
<u>CP 01502 POD2</u>		СР	LE	4	3	3	05	238	34E	642074	3577676 🌍	4969	680	300	380
											Avera	ige Depth to Wat	er:	206 fee	et
												Minimum De	pth:	20 fee	et
												Maximum De	pth:	305 fe	et
Record Count: 7															
UTMNAD83 Radius	s Search (in	meters)	<u>:</u>												
Easting (X): 637	287.506		North	ning	()):	357	9012.9	05		Radius: 5000				

3/31/20 4:13 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER

	Dept	h To Gro	undwater	Colo	ulations	
Location Elevatio	on (ft):	3520		Carc		
Well Name	Well Elev	ation (ft)	Well Depth to GW	Adjusted elevation	Adjusted Depth to GW	Notes
CP-00872 POD1	34	55	305	3150	370	
CP-01502 POD1	34	54	200	3254	266	
CP-01075 POD1	3454		20	3434	86	
CP-01502 POD2	3443		680	2763	757	
Total # of Wells	4				1479	

Average Depth to Groundwater:

369.75

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Received by OCD: 5/18/2020 3:33:04 PM

APPENDIX C LABORATORY ANALYTICAL REPORTS



April 13, 2020

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

RE: North Thistle 2 State 001

OrderNo.: 2004185

Hall Environmental Analysis Laboratory

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

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Ashley Maxwell:

Hall Environmental Analysis Laboratory received 9 sample(s) on 4/4/2020 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 Laboratory, Inc.

Lab Order 2004185

Date Reported: 4/13/2020

CLIENT:	Souder, Miller & Associates		C	ient Sample I	D:SV	W1	
Project:	North Thistle 2 State 001		(Collection Da	te: 4/2	2/2020 1:20:00 PM	
Lab ID:	2004185-001	Matrix: SOIL		4/2020 8:15:00 AM			
Analyses	3	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA ME	THOD 300.0: ANIONS					Analyst	: JMT
Chloride		ND	61	mg/Kg	20	4/6/2020 10:54:01 PM	51590
EPA ME	THOD 8015D MOD: GASOLINE	RANGE				Analyst	: JMR
Gasoline	e Range Organics (GRO)	ND	4.9	mg/Kg	1	4/6/2020 5:57:04 PM	51564
Surr:	BFB	101	70-130	%Rec	1	4/6/2020 5:57:04 PM	51564
EPA ME	THOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst	: JME
Diesel R	ange Organics (DRO)	ND	9.2	mg/Kg	1	4/8/2020 12:29:51 AM	51569
Motor O	il Range Organics (MRO)	ND	46	mg/Kg	1	4/8/2020 12:29:51 AM	51569
Surr:	DNOP	101	55.1-146	%Rec	1	4/8/2020 12:29:51 AM	51569
EPA ME	THOD 8260B: VOLATILES SHO	ORT LIST				Analyst	: JMR
Benzene	9	ND	0.025	mg/Kg	1	4/6/2020 5:57:04 PM	51564
Toluene		ND	0.049	mg/Kg	1	4/6/2020 5:57:04 PM	51564
Ethylber	izene	ND	0.049	mg/Kg	1	4/6/2020 5:57:04 PM	51564
Xylenes,	, Total	ND	0.098	mg/Kg	1	4/6/2020 5:57:04 PM	51564
Surr:	1,2-Dichloroethane-d4	101	70-130	%Rec	1	4/6/2020 5:57:04 PM	51564
Surr:	4-Bromofluorobenzene	97.6	70-130	%Rec	1	4/6/2020 5:57:04 PM	51564
Surr:	Dibromofluoromethane	100	70-130	%Rec	1	4/6/2020 5:57:04 PM	51564
Surr:	Toluene-d8	96.5	70-130	%Rec	1	4/6/2020 5:57:04 PM	51564

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 14

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2004185

Date Reported: 4/13/2020

CLIENT:	Souder, Miller & Associates		Cl	ient Samp	le ID	:SV	V2	
Project:	North Thistle 2 State 001		(Collection	Date	: 4/2	2/2020 1:22:00 PM	
Lab ID:	2004185-002	Matrix: SOIL		Received	Date	: 4/4	/2020 8:15:00 AM	
Analyses	1	Result	RL	Qual Un	its	DF	Date Analyzed	Batch
EPA ME	THOD 300.0: ANIONS						Analyst	: JMT
Chloride		ND	60	mg	/Kg	20	4/6/2020 11:31:02 PM	51590
	THOD 8015D MOD: GASOLINE	RANGE					Analyst	: JMR
Gasoline	e Range Organics (GRO)	ND	5.0	mg	/Kg	1	4/6/2020 7:22:26 PM	51564
Surr:	BFB	100	70-130	%R	ec	1	4/6/2020 7:22:26 PM	51564
	THOD 8015M/D: DIESEL RANG	E ORGANICS					Analyst	: JME
Diesel R	ange Organics (DRO)	ND	9.1	mg	/Kg	1	4/8/2020 1:41:34 AM	51569
Motor O	il Range Organics (MRO)	ND	46	mg	/Kg	1	4/8/2020 1:41:34 AM	51569
Surr:	DNOP	107	55.1-146	%R	ec	1	4/8/2020 1:41:34 AM	51569
EPA ME	THOD 8260B: VOLATILES SHO	RT LIST					Analyst	: JMR
Benzene	9	ND	0.025	mg	/Kg	1	4/6/2020 7:22:26 PM	51564
Toluene		ND	0.050	mg	/Kg	1	4/6/2020 7:22:26 PM	51564
Ethylber	izene	ND	0.050	mg	/Kg	1	4/6/2020 7:22:26 PM	51564
Xylenes,	, Total	ND	0.10	mg	/Kg	1	4/6/2020 7:22:26 PM	51564
Surr:	1,2-Dichloroethane-d4	98.2	70-130	%R	ec	1	4/6/2020 7:22:26 PM	51564
Surr: 4	4-Bromofluorobenzene	98.7	70-130	%R	ec	1	4/6/2020 7:22:26 PM	51564
Surr:	Dibromofluoromethane	98.7	70-130	%F	ec	1	4/6/2020 7:22:26 PM	51564
Surr:	Toluene-d8	96.5	70-130	%R	ec	1	4/6/2020 7:22:26 PM	51564

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 14

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2004185

Date Reported: 4/13/2020

CLIENT: Souder, Miller & Associates		Cl	ient Sample II	D: SV	V3	
Project: North Thistle 2 State 001		(Collection Dat	e: 4/2	2/2020 1:26:00 PM	
Lab ID: 2004185-003	Matrix: SOIL		Received Dat	e: 4/4	/2020 8:15:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	: JMT
Chloride	ND	60	mg/Kg	20	4/6/2020 11:43:23 PM	51590
EPA METHOD 8015D MOD: GASOLINE	RANGE				Analys	: JMR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	4/6/2020 8:48:03 PM	51564
Surr: BFB	99.0	70-130	%Rec	1	4/6/2020 8:48:03 PM	51564
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analys	: JME
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	4/8/2020 2:05:21 AM	51569
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	4/8/2020 2:05:21 AM	51569
Surr: DNOP	87.6	55.1-146	%Rec	1	4/8/2020 2:05:21 AM	51569
EPA METHOD 8260B: VOLATILES SHO	RT LIST				Analys	: JMR
Benzene	ND	0.025	mg/Kg	1	4/6/2020 8:48:03 PM	51564
Toluene	ND	0.049	mg/Kg	1	4/6/2020 8:48:03 PM	51564
Ethylbenzene	ND	0.049	mg/Kg	1	4/6/2020 8:48:03 PM	51564
Xylenes, Total	ND	0.098	mg/Kg	1	4/6/2020 8:48:03 PM	51564
Surr: 1,2-Dichloroethane-d4	98.3	70-130	%Rec	1	4/6/2020 8:48:03 PM	51564
Surr: 4-Bromofluorobenzene	96.9	70-130	%Rec	1	4/6/2020 8:48:03 PM	51564
Surr: Dibromofluoromethane	100	70-130	%Rec	1	4/6/2020 8:48:03 PM	51564
Surr: Toluene-d8	96.3	70-130	%Rec	1	4/6/2020 8:48:03 PM	51564

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

Qualifiers:

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

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

Page 3 of 14

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2004185

Date Reported: 4/13/2020

CLIENT: Souder, Miller & Associates		Cl	ient Sample II	D: SV	V4	
Project: North Thistle 2 State 001		(Collection Dat	e: 4/2	2/2020 1:30:00 PM	
Lab ID: 2004185-004	Matrix: SOIL		Received Dat	e: 4/4	/2020 8:15:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	110	60	mg/Kg	20	4/6/2020 11:55:44 PM	51590
EPA METHOD 8015D MOD: GASOLINE F	RANGE				Analyst	: JMR
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	4/6/2020 9:16:50 PM	51564
Surr: BFB	102	70-130	%Rec	1	4/6/2020 9:16:50 PM	51564
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	: JME
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	4/8/2020 2:29:08 AM	51569
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	4/8/2020 2:29:08 AM	51569
Surr: DNOP	104	55.1-146	%Rec	1	4/8/2020 2:29:08 AM	51569
EPA METHOD 8260B: VOLATILES SHOP					Analyst	: JMR
Benzene	ND	0.025	mg/Kg	1	4/6/2020 9:16:50 PM	51564
Toluene	ND	0.050	mg/Kg	1	4/6/2020 9:16:50 PM	51564
Ethylbenzene	ND	0.050	mg/Kg	1	4/6/2020 9:16:50 PM	51564
Xylenes, Total	ND	0.099	mg/Kg	1	4/6/2020 9:16:50 PM	51564
Surr: 1,2-Dichloroethane-d4	91.2	70-130	%Rec	1	4/6/2020 9:16:50 PM	51564
Surr: 4-Bromofluorobenzene	96.8	70-130	%Rec	1	4/6/2020 9:16:50 PM	51564
Surr: Dibromofluoromethane	99.9	70-130	%Rec	1	4/6/2020 9:16:50 PM	51564
Surr: Toluene-d8	100	70-130	%Rec	1	4/6/2020 9:16:50 PM	51564

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 4 of 14

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2004185

Date Reported: 4/13/2020

CLIENT: Souder, Miller & Associates Project: North Thistle 2 State 001		CI	ient Sa Collect	imple II ion Dat	D: S1 e: 4/2	2/2020 1:45:00 PM	
Lab ID: 2004185-005	Matrix: SOIL		Receiv	ved Dat	e: 4/4	/2020 8:15:00 AM	
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: JMT
Chloride	ND	60		mg/Kg	20	4/7/2020 12:08:04 AM	51590
EPA METHOD 8015D MOD: GASOLINE	RANGE					Analyst	: JMR
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/6/2020 9:45:40 PM	51564
Surr: BFB	100	70-130		%Rec	1	4/6/2020 9:45:40 PM	51564
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS					Analyst	: JME
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	4/8/2020 2:52:53 AM	51569
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/8/2020 2:52:53 AM	51569
Surr: DNOP	94.9	55.1-146		%Rec	1	4/8/2020 2:52:53 AM	51569
EPA METHOD 8260B: VOLATILES SHOP	RT LIST					Analyst	: JMR
Benzene	ND	0.024		mg/Kg	1	4/6/2020 9:45:40 PM	51564
Toluene	ND	0.049		mg/Kg	1	4/6/2020 9:45:40 PM	51564
Ethylbenzene	ND	0.049		mg/Kg	1	4/6/2020 9:45:40 PM	51564
Xylenes, Total	ND	0.098		mg/Kg	1	4/6/2020 9:45:40 PM	51564
Surr: 1,2-Dichloroethane-d4	99.6	70-130		%Rec	1	4/6/2020 9:45:40 PM	51564
Surr: 4-Bromofluorobenzene	94.0	70-130		%Rec	1	4/6/2020 9:45:40 PM	51564
Surr: Dibromofluoromethane	101	70-130		%Rec	1	4/6/2020 9:45:40 PM	51564
Surr: Toluene-d8	97.4	70-130		%Rec	1	4/6/2020 9:45:40 PM	51564

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 14

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2004185

Date Reported: 4/13/2020

CLIENT:	Souder, Miller & Associates		Cl	ient Sample l	D: S2	2	
Project:	North Thistle 2 State 001		(Collection Da	te: 4/2	2/2020 1:45:00 PM	
Lab ID:	2004185-006	Matrix: SOIL		Received Da	te: 4/4	4/2020 8:15:00 AM	
Analyses	3	Result	RL	Qual Units	DF	Date Analyzed	Batch
	THOD 300.0: ANIONS					Analyst	: JMT
Chloride		ND	60	mg/Kg	20	4/7/2020 12:45:04 AM	51590
EPA ME	THOD 8015D MOD: GASOLINE	RANGE				Analyst	JMR
Gasoline	e Range Organics (GRO)	ND	4.9	mg/Kg	1	4/6/2020 10:14:27 PM	51564
Surr:	BFB	98.7	70-130	%Rec	1	4/6/2020 10:14:27 PM	51564
EPA ME	THOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst	: JME
Diesel R	ange Organics (DRO)	ND	10	mg/Kg	1	4/8/2020 3:16:38 AM	51569
Motor O	il Range Organics (MRO)	ND	50	mg/Kg	1	4/8/2020 3:16:38 AM	51569
Surr:	DNOP	90.6	55.1-146	%Rec	1	4/8/2020 3:16:38 AM	51569
EPA ME	THOD 8260B: VOLATILES SHO	RT LIST				Analyst	: JMR
Benzene	9	ND	0.025	mg/Kg	1	4/6/2020 10:14:27 PM	51564
Toluene		ND	0.049	mg/Kg	1	4/6/2020 10:14:27 PM	51564
Ethylber	nzene	ND	0.049	mg/Kg	1	4/6/2020 10:14:27 PM	51564
Xylenes,	, Total	ND	0.099	mg/Kg	1	4/6/2020 10:14:27 PM	51564
Surr:	1,2-Dichloroethane-d4	99.7	70-130	%Rec	1	4/6/2020 10:14:27 PM	51564
Surr: 4	4-Bromofluorobenzene	93.4	70-130	%Rec	1	4/6/2020 10:14:27 PM	51564
Surr:	Dibromofluoromethane	104	70-130	%Rec	1	4/6/2020 10:14:27 PM	51564
Surr:	Toluene-d8	97.1	70-130	%Rec	1	4/6/2020 10:14:27 PM	51564

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 6 of 14

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2004185

Date Reported: 4/13/2020

CLIENT:	Souder, Miller & Associates		Cl	ient Sa	mple II	D: S3		
Project:	North Thistle 2 State 001		(Collect	ion Dat	e: 4/2	2/2020 1:47:00 PM	
Lab ID:	2004185-007	Matrix: SOIL		Receiv	ved Dat	e: 4/4	/2020 8:15:00 AM	
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA MET	HOD 300.0: ANIONS						Analyst	JMT
Chloride		120	60		mg/Kg	20	4/7/2020 12:57:24 AM	51590
EPA MET	HOD 8015D MOD: GASOLINE I	RANGE					Analyst	JMR
Gasoline	Range Organics (GRO)	ND	5.0		mg/Kg	1	4/6/2020 10:43:11 PM	51564
Surr: E	3FB	102	70-130		%Rec	1	4/6/2020 10:43:11 PM	51564
EPA MET	HOD 8015M/D: DIESEL RANGE	ORGANICS					Analyst	JME
Diesel Ra	ange Organics (DRO)	ND	10		mg/Kg	1	4/8/2020 3:40:21 AM	51569
Motor Oi	I Range Organics (MRO)	ND	51		mg/Kg	1	4/8/2020 3:40:21 AM	51569
Surr: [DNOP	86.0	55.1-146		%Rec	1	4/8/2020 3:40:21 AM	51569
EPA MET	HOD 8260B: VOLATILES SHOP						Analyst	JMR
Benzene		ND	0.025		mg/Kg	1	4/6/2020 10:43:11 PM	51564
Toluene		ND	0.050		mg/Kg	1	4/6/2020 10:43:11 PM	51564
Ethylben	zene	ND	0.050		mg/Kg	1	4/6/2020 10:43:11 PM	51564
Xylenes,	Total	ND	0.10		mg/Kg	1	4/6/2020 10:43:11 PM	51564
Surr: 1	1,2-Dichloroethane-d4	102	70-130		%Rec	1	4/6/2020 10:43:11 PM	51564
Surr: 4	4-Bromofluorobenzene	101	70-130		%Rec	1	4/6/2020 10:43:11 PM	51564
Surr: [Dibromofluoromethane	103	70-130		%Rec	1	4/6/2020 10:43:11 PM	51564
Surr: 7	Toluene-d8	101	70-130		%Rec	1	4/6/2020 10:43:11 PM	51564

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 7 of 14

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2004185

Date Reported: 4/13/2020

CLIENT: Souder, Miller & Associates		Cl	ient Sample II	D: S4		
Project: North Thistle 2 State 001		(Collection Dat	e: 4/2	2/2020 1:48:00 PM	
Lab ID: 2004185-008	Matrix: SOIL		Received Dat	e: 4/4	4/2020 8:15:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: JMT
Chloride	65	60	mg/Kg	20	4/7/2020 1:09:44 AM	51590
EPA METHOD 8015D MOD: GASOLINE	RANGE				Analys	t: JMR
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	4/7/2020 1:35:41 AM	51564
Surr: BFB	99.4	70-130	%Rec	1	4/7/2020 1:35:41 AM	51564
EPA METHOD 8015M/D: DIESEL RANGE	E ORGANICS				Analys	t: JME
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	4/8/2020 4:04:05 AM	51569
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	4/8/2020 4:04:05 AM	51569
Surr: DNOP	87.1	55.1-146	%Rec	1	4/8/2020 4:04:05 AM	51569
EPA METHOD 8260B: VOLATILES SHOP	RT LIST				Analys	t: JMR
Benzene	ND	0.025	mg/Kg	1	4/7/2020 1:35:41 AM	51564
Toluene	ND	0.050	mg/Kg	1	4/7/2020 1:35:41 AM	51564
Ethylbenzene	ND	0.050	mg/Kg	1	4/7/2020 1:35:41 AM	51564
Xylenes, Total	ND	0.10	mg/Kg	1	4/7/2020 1:35:41 AM	51564
Surr: 1,2-Dichloroethane-d4	101	70-130	%Rec	1	4/7/2020 1:35:41 AM	51564
Surr: 4-Bromofluorobenzene	94.8	70-130	%Rec	1	4/7/2020 1:35:41 AM	51564
Surr: Dibromofluoromethane	103	70-130	%Rec	1	4/7/2020 1:35:41 AM	51564
Surr: Toluene-d8	103	70-130	%Rec	1	4/7/2020 1:35:41 AM	51564

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 8 of 14

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2004185

Date Reported: 4/13/2020

CLIENT:	Souder, Miller & Associates		C	ient Sample	e ID: (C6	5	
Project:	North Thistle 2 State 001		(Collection I	ate: 4	4/2	2/2020 12:58:00 PM	
Lab ID:	2004185-009	Matrix: SOIL		/2020 8:15:00 AM				
Analyses		Result	RL	Qual Unit	s D) F	Date Analyzed	Batch
EPA MET	THOD 300.0: ANIONS						Analyst	MRA
Chloride		ND	60	mg/l	Kg 2	20	4/7/2020 12:41:25 PM	51611
EPA MET	THOD 8015D MOD: GASOLINE	RANGE					Analyst	: JMR
Gasoline	e Range Organics (GRO)	ND	4.9	mg/l	Kg 1	1	4/7/2020 2:04:31 AM	51564
Surr: I	BFB	99.5	70-130	%Re	C 1	1	4/7/2020 2:04:31 AM	51564
EPA MET	THOD 8015M/D: DIESEL RANG	E ORGANICS					Analyst	JME
Diesel R	ange Organics (DRO)	ND	8.5	mg/l	Kg 1	1	4/8/2020 4:27:44 AM	51569
Motor Oi	I Range Organics (MRO)	ND	43	mg/l	K g 1	1	4/8/2020 4:27:44 AM	51569
Surr: I	DNOP	92.1	55.1-146	%Re	ec 1	1	4/8/2020 4:27:44 AM	51569
EPA MET	THOD 8260B: VOLATILES SHO	RT LIST					Analyst	: JMR
Benzene)	ND	0.024	mg/l	(g 1	1	4/7/2020 2:04:31 AM	51564
Toluene		ND	0.049	mg/l	(g 1	1	4/7/2020 2:04:31 AM	51564
Ethylben	izene	ND	0.049	mg/l	Kg 1	1	4/7/2020 2:04:31 AM	51564
Xylenes,	Total	ND	0.097	mg/l	Kg 1	1	4/7/2020 2:04:31 AM	51564
Surr:	1,2-Dichloroethane-d4	96.0	70-130	%Re	ec 1	1	4/7/2020 2:04:31 AM	51564
Surr: 4	4-Bromofluorobenzene	97.0	70-130	%Re	ec 1	1	4/7/2020 2:04:31 AM	51564
Surr: I	Dibromofluoromethane	101	70-130	%Re	ec 1	1	4/7/2020 2:04:31 AM	51564
Surr:	Toluene-d8	97.8	70-130	%Re	ec 1	1	4/7/2020 2:04:31 AM	51564

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 9 of 14

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client:	Soude	er, Miller & Associates										
Project:	North	Thistle 2 State 001										
Sample ID:	MB-51590	SampType: mblk		Tes	tCode: EF	PA Method	300.0: Anions	;				
Client ID:	PBS	Batch ID: 51590		R	RunNo: 67894							
Prep Date:	4/6/2020	Analysis Date: 4/6/20	20	S	eqNo: 23	345638	Units: mg/Kg	9				
Analyte		Result PQL SP	K value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Chloride		ND 1.5										
Sample ID:	LCS-51590	SampType: Ics		Tes	tCode: EF	PA Method	300.0: Anions	;				
Client ID:	LCSS	Batch ID: 51590		R	unNo: 67	7894						
Prep Date:	4/6/2020	Analysis Date: 4/6/20	20	S	eqNo: 23	345639	Units: mg/Kg	9				
Analyte		Result PQL SP	K value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Chloride		14 1.5	15.00	0	93.0	90	110					
Sample ID:	MB-51611	SampType: mblk		Tes	tCode: EF	PA Method	300.0: Anions	;				
Client ID:	PBS	Batch ID: 51611		R	unNo: 67	7907						
Prep Date:	4/7/2020	Analysis Date: 4/7/20	20	S	eqNo: 23	347333	Units: mg/Kg	9				
Analyte		Result PQL SP	K value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Chloride		ND 1.5										
Sample ID:	LCS-51611	SampType: Ics		Tes	tCode: EF	PA Method	300.0: Anions	;				
Client ID:	LCSS	Batch ID: 51611		R	unNo: 67	7907						
Prep Date:	4/7/2020	Analysis Date: 4/7/20	20	S	eqNo: 23	347334	Units: mg/Kg	9				
Analyte		Result PQL SP	K value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Chloride		14 1.5	15.00	0	90.2	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 10 of 14

2004185

13-Apr-20

WO#:

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Project:	Souder, M North Thi	liller & A stle 2 Stat	ssociate e 001	28										
Sample ID: M	B-51569	SampT	ype: MI	BLK	Tes	tCode: El	PA Method	8015M/D: Di	esel Range	e Organics				
Client ID: P	BS	Batch	n ID: 51	569	RunNo: 67895									
Prep Date:	4/5/2020	Analysis D)ate: 4/	7/2020	S	SeqNo: 2	347143	Units: mg/Kg						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Diesel Range Org	anics (DRO)	ND	10											
Motor Oil Range O	Organics (MRO)	ND	50											
Surr: DNOP		9.4		10.00		94.3	55.1	146						
Sample ID: L	CS-51569	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015M/D: Di	esel Range	e Organics				
Client ID: L	css	Batch	ו ID: 51	569	F	RunNo: 6	7895							
Prep Date:	4/5/2020	Analysis D)ate: 4/	8/2020	S	SeqNo: 2	347144	Units: mg/k	۲g					
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Diesel Range Org	anics (DRO)	47	10	50.00	0	94.3	70	130						
Surr: DNOP		4.5		5.000		90.0	55.1	146						
Sample ID: 20	004185-001AMS	SampT	уре: М	3	Tes	tCode: El	PA Method	8015M/D: Di	esel Range	e Organics				
Client ID: S	W1	Batch	ו ID: 51	569	F	RunNo: 6	7895							
Prep Date:	4/5/2020	Analysis D)ate: 4/	8/2020	S	SeqNo: 2	347173	Units: mg/k	۲g					
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Diesel Range Org	anics (DRO)	46	9.7	48.64	0	93.8	47.4	136						
Surr: DNOP		4.5		4.864		92.2	55.1	146						
Sample ID: 20	004185-001AMSD	SampT	ype: M	SD	Tes	tCode: El	PA Method	8015M/D: Di	esel Range	e Organics				
Client ID: S	W1	Batch	ו ID: 51	569	F	RunNo: 6	7895							
Prep Date:	4/5/2020	Analysis D)ate: 4/	8/2020	S	SeqNo: 2	347182	Units: mg/ł	۲g					
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Diesel Range Org	anics (DRO)	45	9.4	47.08	0	96.6	47.4	136	0.363	43.4				
Surr: DNOP		4.5		4.708		96.4	55.1	146	0	0				

Qualifiers:

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

Page 11 of 14

2004185

13-Apr-20

WO#:

Client:

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Souder, Miller & Associates

Project: North Thi	istle 2 State	001										
Sample ID: 2004185-001ams SampType: MS TestCode: EPA Method 8260B: Volatiles Short List												
Client ID: SW1	Batch I	D: 51	564	R	unNo: 67	7912						
Prep Date: 4/4/2020	Analysis Dat	e: 4/	6/2020	S	eqNo: 2	346335	Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	0.88	0.025	0.9980	0	87.9	70	130					
Toluene	0.98	0.050	0.9980	0	98.5	70	130					
Ethylbenzene	0.95	0.050	0.9980	0	95.6	70	130					
Xylenes, Total	2.9	0.10	2.994	0	96.4	70	130					
Surr: 1,2-Dichloroethane-d4	0.49		0.4990		98.7	70	130					
Surr: 4-Bromofluorobenzene	0.48		0.4990		95.3	70	130					
Surr: Dibromofluoromethane	0.50		0.4990		99.8	70	130					
Surr: Toluene-d8	0.50		0.4990		100	70	130					
Sample ID: 2004185-001amsd	SampTy	e: MS	SD	Test	tCode: EF	PA Method	8260B: Volat	iles Short	List			
Client ID: SW1	Batch I	D: 51	564	R	tunNo: 67	7912						
Prep Date: 4/4/2020	Analysis Dat	e: 4/	6/2020	S	eqNo: 2	346336	Units: mg/K	g				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	0.88	0.025	0.9804	0	89.8	70	130	0.357	20			
Toluene	0.99	0.049	0.9804	0	101	70	130	1.15	20			
Ethylbenzene	1.0	0.049	0.9804	0	103	70	130	5.32	0			
Xylenes, Total	3.1	0.098	2.941	0	104	70	130	6.04	0			
Surr: 1,2-Dichloroethane-d4	0.48		0.4902		98.2	70	130	0	0			
Surr: 4-Bromofluorobenzene	0.49		0.4902		100	70	130	0	0			
Surr: Dibromofluoromethane	0.49		0.4902		99.3	70	130	0	0			
Surr: Toluene-d8	0.49		0.4902		100	70	130	0	0			
Sample ID: Ics-51564	SampTyp	e: LC	S	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: LCSS	Batch I	D: 51	564	R	unNo: 67	7912						
Prep Date: 4/4/2020	Analysis Dat	e: 4/	6/2020	S	eqNo: 2	346362	Units: mg/K	g				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	0.88	0.025	1.000	0	88.3	70	130					
Toluene	0.99	0.050	1.000	0	99.0	70	130					
Ethylbenzene	0.96	0.050	1.000	0	96.2	70	130					
Xylenes, Total	2.9	0.10	3.000	0	97.9	70	130					
Surr: 1,2-Dichloroethane-d4	0.48		0.5000		96.2	70	130					
Surr: 4-Bromofluorobenzene	0.49		0.5000		98.0	70	130					
Surr: Dibromofluoromethane	0.48		0.5000		96.4	70	130					
Surr: Toluene-d8	0.49		0.5000		97.0	70	130					

Qualifiers:

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

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

WO#:	2004185

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Souder,	, Miller & A	ssociate	es											
Project: North I	histle 2 Stat	te 001												
Sample ID: mb-51564	SampT	ype: ME	BLK	TestCode: EPA Method 8260B: Volatiles Short List										
Client ID: PBS	Batch	n ID: 51	564	RunNo: 67912										
Prep Date: 4/4/2020	Analysis D	Date: 4/	6/2020	S	eqNo: 23	346364	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												
Xylenes, Total	ND	0.10												
Surr: 1,2-Dichloroethane-d4	0.49		0.5000		98.4	70	130							
Surr: 4-Bromofluorobenzene	0.48		0.5000		96.3	70	130							
Surr: Dibromofluoromethane	0.50		0.5000		99.1	70	130							
Surr: Toluene-d8	0.49		0.5000		98.3	70	130							
Sample ID: Ics-51579	8260B: Volat	iles Short	List											
Client ID: LCSS	Batch	h ID: 51	579	F	RunNo: 67951									
Prep Date: 4/6/2020	Analysis D	Date: 4/	8/2020	S	eqNo: 23	348738	Units: %Red	;						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Surr: 1,2-Dichloroethane-d4	0.47		0.5000		94.9	70	130							
Surr: 4-Bromofluorobenzene	0.47		0.5000		94.0	70	130							
Surr: Dibromofluoromethane	0.47		0.5000		94.4	70	130							
Surr: Toluene-d8	0.46		0.5000		91.1	70	130							
Sample ID: mb-51579	SampT	ype: ME	BLK	Tes	tCode: EF	PA Method	8260B: Volat	iles Short	List					
Client ID: PBS	Batch	h ID: 51	579	F	tunNo: 67	7951								
Prep Date: 4/6/2020	Analysis D	Date: 4/	8/2020	5	eqNo: 23	348739	Units: %Red	;						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Surr: 1,2-Dichloroethane-d4	0.49		0.5000		99.0	70	130							
Surr: 4-Bromofluorobenzene	0.49		0.5000		97.7	70	130							
Surr: Dibromofluoromethane	0.51		0.5000		102	70	130							
o = 1 10														

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
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- 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

2004185

13-Apr-20

WO#:

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Project:	Souder, N North Th	Ailler & Ass istle 2 State	sociat 001	es											
Sample ID:	2004185-002ams	SampTy	pe: M	s	TestCode: EPA Method 8015D Mod: Gasoline Range										
Client ID:	SW2	Batch	ID: 51	564	RunNo: 67912										
Prep Date:	4/4/2020	Analysis Da	te: 4	/6/2020	S	SeqNo: 2	346375	Units: mg/K	g						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Gasoline Rang Surr: BFB	e Organics (GRO)	21 510	4.9	24.58 491.6	0	84.8 104	70 70	130 130							
Sample ID:	2004185-002amsd	SampTy	pe: M	SD	Tes	tCode: EF	PA Method	8015D Mod:	Gasoline	Range					
Client ID:	SW2	Batch	ID: 51	564	F	RunNo: 67	7912								
Prep Date:	4/4/2020	Analysis Da	te: 4	/6/2020	5	SeqNo: 2	346376	Units: mg/K	g						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Gasoline Rang	e Organics (GRO)	19	4.9	24.53	0	75.5	70	130	11.8	20					
Surr: BFB		470		490.7		95.5	70	130	0	0					
Sample ID:	lcs-51564	SampTy	pe: L(CS	Tes	tCode: EF	PA Method	8015D Mod:	Gasoline	Range					
Client ID:	LCSS	Batch	ID: 51	564	F	RunNo: 67	7912								
Prep Date:	4/4/2020	Analysis Da	te: 4	/6/2020	5	SeqNo: 2	346404	Units: mg/K	g						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Gasoline Rang	e Organics (GRO)	21	5.0	25.00	0	84.0	70	130							
Surr: BFB		490		500.0		97.7	70	130							
Sample ID:	mb-51564	SampTy	pe: M	BLK	Tes	tCode: EF	PA Method	8015D Mod:	Gasoline	Range					
Client ID:	PBS	Batch	ID: 51	564	F	RunNo: 67	7912								
Prep Date:	4/4/2020	Analysis Da	te: 4	/6/2020	8	SeqNo: 2	346406	Units: mg/K	g						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Gasoline Rang	e Organics (GRO)	ND	5.0												
Surr: BFB		490		500.0		98.5	70	130							
Sample ID:	lcs-51579	SampTy	pe: L(CS	Tes	tCode: EF	PA Method	8015D Mod:	Gasoline	Range					
Client ID:	LCSS	Batch	ID: 51	579	F	RunNo: 67	7951								
Prep Date:	4/6/2020	Analysis Da	te: 4	/8/2020	5	SeqNo: 2	348764	Units: %Re	•						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Surr: BFB		500		500.0		100	70	130							
Sample ID:	mb-51579	SampTy	pe: M	BLK	Tes	tCode: EF	PA Method	8015D Mod:	Gasoline	Range					
Client ID:	PBS	Batch	ID: 51	579	F	RunNo: 67	7951								
Prep Date:	4/6/2020	Analysis Da	te: 4	/8/2020	SeqNo: 2348765 Units: %Rec										
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Surr: BFB		510		500.0		101	70	130							

Qualifiers:

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- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

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

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

2004185

13-Apr-20

WO#:

ENVIRONMENT ANALYSIS LABORATORY	AL	Alb. TEL: 505-345-3975 Website: www.hc	490 uquero FAX: ullenvi	01 Hawki Jue, NM 505-345 ronmenta	ns NE 87109 -4107 nl.com	Sar	mple Log-In Check List
Client Name: SMA-CAR	LSBAD	Work Order Number	200	4185			RcptNo: 1
Received By: Erin Mele	ndrez	4/4/2020 8:15:00 AM			in	NA	5
Completed By: Erin Mele	ndrez	4/4/2020 9:01:48 AM			in	ng	3
Reviewed By: ENH		4/4/20				,	
Chain of Custody							
1. Is Chain of Custody suffic	iently complete?		Yes	\checkmark	No		Not Present
2. How was the sample deliv	vered?		Cou	rier			
Log In Was an attempt made to a	and the complex?		Vaa		No		
	cool the samples?		res		NO		
4. Were all samples received	at a temperature o	f >0° C to 6.0°C	Yes		No		
5. Sample(s) in proper conta	iner(s)?		Yes	\checkmark	No		
Sufficient sample volume f	or indicated test(s)?		Yes	\checkmark	No		
7. Are samples (except VOA	and ONG) properly	preserved?	Yes	~	No		
3. Was preservative added to	bottles?		Yes		No	✓	NA 🗌
9. Received at least 1 vial wit	h headspace <1/4"	for AQ VOA?	Yes		No		NA 🔽
0. Were any sample containe	ers received broken	?	Yes		No	✓	# of preserved
1. Does paperwork match bo	ttle labels?		Yes	✓	No		for pH:
2 Are matrices correctly iden	tified on Chain of C	ustodv?	Yes	V	No		Adjusted?
3. Is it clear what analyses we	ere requested?		Yes		No		
4. Were all holding times able (If no, notify customer for a	e to be met? uthorization.)		Yes	✓	No		Checked by: JP 04/04/20
pecial Handling (if app	licable)						
5. Was client notified of all di	screpancies with th	is order?	Yes		No		NA 🗹
Person Notified:		Date [.]					
By Whom:		Via:	eMa	ail 🗌 F	Phone	Fax	In Person
Regarding: Client Instructions:			_				
6. Additional remarks:							
7. <u>Cooler Information</u> Cooler No Temp °C	Condition Sea	I Intact Seal No S	eal Da	ate	Signed	Ву	
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Page 1 of 1

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APPENDIX D PHOTOLOG





Released to Imaging: 1/19/

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

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

District III

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

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

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

CONDITIONS

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	8341
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	None	1/19/2022

Released to Imaging: 1/19/2022 3:24:11 PM

CONDITIONS

Action 8341

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