ENSOLUM

February 11, 2025

New Mexico Oil Conservation Division 1220 South St. Francis Drive Santa Fe, New Mexico 87505

Re: Closure Request Poker Lake Unit #41 API Number 30-015-20933 Incident Number NAB1832354684 Eddy County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of XTO Energy, Inc. (XTO), has prepared the following *Closure Request* as a follow-up to the *Deferral Request* dated January 17, 2019. The *Deferral Request* was approved by the New Mexico Oil Conservation Division (NMOCD) on January 22, 2019. This *Closure Request* documents the excavation and soil sampling activities completed at the Poker Lake Unit #41 (Site) following final plugging and abandonment of the well and removal of the surface production equipment from the deferred area. Based on the additional remediation activities described below, XTO is submitting this *Closure Request* and requesting no further action and closure for Incident Number NAB1832354684.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit G, Section 21, Township 24 South, Range 30 East, in Eddy County, New Mexico (32.20495, -103.883872) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On October 27, 2018, a stuffing box failure resulted in the release of approximately 5.4 barrels (bbls) of produced water and 0.1 bbls of crude oil from the well head onto the surface of the pad. A vacuum truck was used to recover approximately 4.9 bbls of released fluid. XTO reported the release to the NMOCD on a Release Notification Form C-141 (Form C-141) on November 9, 2018. The release was assigned Remediation Permit (RP) Number 2RP-5052 and Incident Number NAB1832354684.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to determine the applicability of Table I Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review were detailed in the approved *Deferral Request*. Potential Site receptors are identified on Figure 1.

Based on the results of the Site Characterization, the following NMOCD Table I Closure Criteria (Closure Criteria) were applied:

• Benzene: 10 milligrams per kilogram (mg/kg)

Ensolum, LLC | Environmental, Engineering & Hydrogeologic Consultants 3122 National Parks Highway | Carlsbad, New Mexico 88220 | ensolum.com XTO Energy, Inc. Closure Request Poker Lake Unit #41

- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH): 100 mg/kg
- Chloride: 600 mg/kg

During November 2018 and December 2018, delineation and excavation activities were conducted at the Site to address the impacted soil resulting from the October 27, 2018, crude oil and produced water release. Impacted soil was excavated to the maximum extent possible; however, impacted soil was left in place for compliance with XTO safety policy regarding earth-moving activities within ten feet of active well heads/pumpjacks. A *Deferral Request* was submitted to the NMOCD requesting deferral of the impacted soil until final plugging and abandonment of the well. The *Deferral Request* was approved by the NMOCD on February 15, 2019. Additional details regarding the excavation and soil sampling activities can be referenced in the January 17, 2019, *Deferral Request*, which is included as an attachment to this report.

EXCAVATION ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

The Poker Lake Unit 041 well was plugged and abandoned (P&A) on July 29, 2024. During October 2024, Ensolum personnel were at the Site to oversee excavation activities to address the impacted soil that remained in place immediately adjacent to the well head, as indicated by original excavation sidewall sample, SC-12. The 2018 excavation extent, soil sample locations, and laboratory analytical results are presented on Figure 2 and/or detailed in the attached *Deferral Request*. The 2024 excavation activities were performed using a trackhoe and transport vehicles. To direct excavation activities, soil was field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach[®] chloride QuanTab[®] test strips. The excavation was completed around the P&A'd well to depths ranging from 6 feet to 24 feet below ground surface (bgs).

Following removal of the impacted soil, 5-point composite soil samples were collected every 200 square feet from the floor and sidewalls of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples FS01 through FS05 were collected from the floor of the excavation at depths ranging from 6 feet to 24 feet bgs. Composite soil samples SW01 through SW03 were collected from the sidewalls of the excavation at depths ranging from the ground surface to 24 feet bgs. The excavation extent and excavation soil sample locations are presented on Figure 2. Photographic documentation of the excavation activities are included in Appendix A.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Cardinal Laboratories (Cardinal) in Hobbs, New Mexico, for analysis of the following constituents of concern (COC): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following Standard Method SM 4500.

Laboratory analytical results for excavation floor samples FS01 through FS05 and excavation sidewall samples SW01 through SW03 indicated all COC concentrations were compliant with the Site Closure Criteria and reclamation requirements. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Appendix B.

The excavation area measured approximately 1,000 square feet. Approximately 500 cubic yards of impacted soil were removed during the excavation activities. The impacted soil was transported and properly disposed of at the R360 Facility in Hobbs, New Mexico.



XTO Energy, Inc. Closure Request Poker Lake Unit #41

RECLAMATION ACTIVITIES

Upon completion of excavation activities and receipt of final laboratory analytical results, the excavation was backfilled with locally procured soil. One representative 5-point composite sample (BF01) was collected from the topsoil backfill material. The backfill soil sample was handled and analyzed following the same procedures as described above. Laboratory analytical results for the backfill soil sample confirmed compliance with the NMOCD requirement for the reclaimed area to contain non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg and TPH concentrations less than 100 mg/kg. The laboratory analytical results are summarized on the attached Table 1 and the complete laboratory analytical report is included as Appendix B.

Following backfill activities, the well pad was recontoured to match the surrounding topography. The well pad will be seeded during the spring of 2025 when temperatures and precipitation are more conducive to vegetation growth. The reclaimed well pad will be seeded with the below BLM sandy sites seed mix #2 at the rate specified in pounds of pure live seed (PLS) per acre.

Species/Cultivar	PLS/Acre
Sand dropseed (Sporobolus cryptandrus)	1.0
Sand love grass (Eragrostis trichodes)	1.0
Plains bristlegrass (Setaria macrostachya)	2.0

The seed mix will be applied via drill seeding or broadcast seeding. If broadcast seeding is selected, the PLS/acre will be doubled and the seed will be raked in by chaining or dragging the Site. Photographs of the reclaimed excavation area are provided in Appendix A.

The Site will be monitored for vegetation growth to ensure that reclamation activities were successful. Focus for this phase will be to prevent erosion and site degradation, and to monitor for and treat invasive and noxious weed species.

- Erosion control of the newly reclaimed areas includes prompt revegetation and contouring of the surface to prevent concentrated surface water flow.
- Annual inspections will take place at the location to assess revegetation progress until vegetation is consistent with local natural vegetation density.
- If necessary, an additional application of the BLM seed mix will be applied.
- Noxious and invasive weeds will be identified and treated by a licensed contracted herbicide applicator or mechanically removed.

A *Revegetation Report* will be submitted to the NMOCD once vegetation growth in the reclaimed area has uniform vegetative cover that reflects a life-form ratio of plus or minus fifty percent of pre-disturbance levels and a total percent plant cover of at least seventy percent of pre-disturbance levels, excluding noxious weeds, per NMAC 19.15.29.13 D.(3).

CLOSURE REQUEST

Excavation activities were conducted at the Site to address the impacted soil resulting from the October 27, 2018, crude oil and produced water release from the well head. Laboratory analytical results for the excavation soil samples, collected from the final excavation extent, indicated all COCs were compliant with the Site Closure Criteria and reclamation requirements. Based on the soil sample analytical results, no further remediation is required. A copy of the *Deferral Request* detailing the 2018 excavation activities is included as Appendix C.



XTO Energy, Inc. Closure Request Poker Lake Unit #41

Initial response efforts, natural attenuation, and excavation of impacted soil have mitigated impacts at this Site. XTO believes the remedial actions completed are protective of human health, the environment, and groundwater. As such, XTO respectfully requests closure for Incident Number NAB1832354684.

If you have any questions or comments, please contact Ms. Tacoma Morrissey at (337) 257-8307 or tmorrissey@ensolum.com.

Sincerely, Ensolum, LLC

Aimee Cole Senior Managing Scientist

Mouissey

Tacoma Morrissey Senior Managing Geologist

cc: Colton Brown, XTO Kaylan Dirkx, XTO BLM

Appendices:

- Figure 1 Site Receptor Map
- Figure 2 Excavation Soil Sample Locations
- Table 1
 Soil Sample Analytical Results
- Appendix A Photographic Log
- Appendix B Laboratory Analytical Reports & Chain-of-Custody Documentation
- Appendix C January 17, 2019, Deferral Request





FIGURES

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TABLES

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ENSOLUM

TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS POKER LAKE UNIT #41 XTO ENERGY, INC. EDDY COUNTY, NEW MEXICO										
Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)	
NMOCD Table I Cl	osure Criteria (NMAC 19.15.29)	10	50	NE	NE	NE	100	600	
		I		2018 - Excavatio	on Soil Samples					
SC-1	11/9/2018	2-3	<0.024	<0.22	<4.9	<9.5	<48	<62.4	610	
SC-1	12/6/2018	3-3.5							<30	
SC-2	11/9/2018	0-3	< 0.024	<0.22	<4.8	63	70	133	630	
SC-2	12/6/2018	0-3.5			<4.7	<9.5	<47	<61.2	<30	
SC-3	11/9/2018	0-3	<0.024	<0.21	<4.7	40	63	103	410	
SC-3	12/6/2018	0-3.5			<4.8	<9.7	<48	<62.5		
SC-4	11/9/2018	0-6	<0.024	<0.22	<4.9	170	87	257	450	
SC-4	12/6/2018	0-7			<4.8	<9.7	<48	<62.5		
SC-5	11/9/2018	0-6	<0.023	<0.21	<4.6	<9.9	<49	<63.5	200	
SC-6	11/9/2018	6-8	<0.025	<0.22	<4.9	1200	380	1,580	290	
SC-6	12/6/2018	6-8.5			<5.0	<9.8	<49	<63.8		
SC-7	11/9/2018	6-8	<0.025	<0.22	<4.9	<10	<50	<64.9	1,200	
SC-7	12/6/2018	6-8.5							<30	
SC-8	11/9/2018	0-6	<0.024	<0.22	<4.8	<9.8	<49	<63.6	430	
SC-9	11/9/2018	0-8	<0.024	<0.22	<4.9	46	<49	46.0	<30	
SC-10	11/9/2018	0-8	<0.025	<0.22	<5.0	<9.9	<50	<64.9	<30	
SC-11	11/9/2018	0-3	<0.024	<0.22	<4.8	<9.5	<47	<61.3	720	
SC-11	12/6/2018	0-3.5							<30	
SC-12	11/9/2018	0-8	<0.024	<0.22	<4.9	31	<49	31.0	1,000	
SC-12	12/6/2018	0-8.5							1,100	
SC-13	11/9/2018	0-8	<0.025	<0.22	<4.9	<9.8	<49	<63.7	530	
SC-14	11/9/2018	0-8	<0.024	<0.22	<4.8	890	770	1,660	260	
SC-14	12/6/2018	0-8.5			<5.0	<9.8	<49	<63.8		

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E N S O L U M

TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS POKER LAKE UNIT #41 XTO ENERGY, INC. EDDY COUNTY, NEW MEXICO										
Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)	
NMOCD Table I CI	osure Criteria (NMAC 19.15.29)	10	50	NE	NE	NE	100	600	
				2024 - Excavatio	n Soil Samples					
FS01	10/16/2024	10	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	432	
FS02	10/21/2024	24	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	560	
FS03	10/21/2024	19	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	560	
FS04	10/16/2024	6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	352	
FS05	10/16/2024	8	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	448	
	10/16/2024	0-10	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	192	
SW01	10/21/2024	10-16	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	400	
	10/21/2024	16-24	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	400	
SW02	10/16/2024	0-6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	80.0	
SW03	10/16/2024	0-8	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	80.0	
				Backfill So	il Sample					
BF01	11/21/2024				<10.0	<10.0	<10.0	<10.0	160	

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

TPH: Total Petroleum Hydrocarbon

NE: Not Established

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

- -: Not Analyzed

Concentrations in **bold** exceed the NMOCD Table I Closure Criteria or reclamation standard where applicable. **Grey** text represents samples that have been excavated

.



APPENDIX A

Photographic Log

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APPENDIX B

Laboratory Analytical Reports & Chain of Custody Documentation



October 21, 2024

AIMEE COLE ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD, NM 88220

RE: POKER LAKE UNIT 041 RECLAMATION SAMPLING

Enclosed are the results of analyses for samples received by the laboratory on 10/17/24 14:06.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received:	10/17/2024	Sampling Date:	10/16/2024
Reported:	10/21/2024	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT 041 RECLAMATION S	Sampling Condition:	Cool & Intact
Project Number:	03C1558463	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.204951,-103.88387		

Sample ID: SW 01 0-10 (H246356-01)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/18/2024	ND	2.27	113	2.00	1.26	
Toluene*	<0.050	0.050	10/18/2024	ND	2.34	117	2.00	0.285	
Ethylbenzene*	<0.050	0.050	10/18/2024	ND	2.36	118	2.00	1.75	
Total Xylenes*	<0.150	0.150	10/18/2024	ND	7.06	118	6.00	1.13	
Total BTEX	<0.300	0.300	10/18/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 %	71.5-13-	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	10/18/2024	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/18/2024	ND	188	93.9	200	2.34	
DRO >C10-C28*	<10.0	10.0	10/18/2024	ND	191	95.4	200	5.16	
EXT DRO >C28-C36	<10.0	10.0	10/18/2024	ND					
Surrogate: 1-Chlorooctane	99.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.6	% 49.1-148	8						

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*=Accredited Analyte

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received:	10/17/2024	Sampling Date:	10/16/2024
Reported:	10/21/2024	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT 041 RECLAMATION S	Sampling Condition:	Cool & Intact
Project Number:	03C1558463	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.204951,-103.88387		

Sample ID: SW 02 0-6 (H246356-02)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/18/2024	ND	2.27	113	2.00	1.26	
Toluene*	<0.050	0.050	10/18/2024	ND	2.34	117	2.00	0.285	
Ethylbenzene*	<0.050	0.050	10/18/2024	ND	2.36	118	2.00	1.75	
Total Xylenes*	<0.150	0.150	10/18/2024	ND	7.06	118	6.00	1.13	
Total BTEX	<0.300	0.300	10/18/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 %	6 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	10/18/2024	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/18/2024	ND	188	93.9	200	2.34	
DRO >C10-C28*	<10.0	10.0	10/18/2024	ND	191	95.4	200	5.16	
EXT DRO >C28-C36	<10.0	10.0	10/18/2024	ND					
Surrogate: 1-Chlorooctane	101 %	<i>6 48.2-13</i>	4						
Surrogate: 1-Chlorooctadecane	93.5 9	49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received:	10/17/2024	Sampling Date:	10/16/2024
Reported:	10/21/2024	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT 041 RECLAMATION S	Sampling Condition:	Cool & Intact
Project Number:	03C1558463	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.204951,-103.88387		

Sample ID: SW 03 0-8 (H246356-03)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/18/2024	ND	2.27	113	2.00	1.26	
Toluene*	<0.050	0.050	10/18/2024	ND	2.34	117	2.00	0.285	
Ethylbenzene*	<0.050	0.050	10/18/2024	ND	2.36	118	2.00	1.75	
Total Xylenes*	<0.150	0.150	10/18/2024	ND	7.06	118	6.00	1.13	
Total BTEX	<0.300	0.300	10/18/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 %	6 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	10/18/2024	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/18/2024	ND	188	93.9	200	2.34	
DRO >C10-C28*	<10.0	10.0	10/18/2024	ND	191	95.4	200	5.16	
EXT DRO >C28-C36	<10.0	10.0	10/18/2024	ND					
Surrogate: 1-Chlorooctane	71.3 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	64.3 9	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and clent's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, whother bits ubsidiaries, affiliates or successor arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received:	10/17/2024	Sampling Date:	10/16/2024
Reported:	10/21/2024	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT 041 RECLAMATION S	Sampling Condition:	Cool & Intact
Project Number:	03C1558463	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.204951,-103.88387		

Sample ID: FS 01 10 (H246356-04)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/18/2024	ND	2.27	113	2.00	1.26	
Toluene*	<0.050	0.050	10/18/2024	ND	2.34	117	2.00	0.285	
Ethylbenzene*	<0.050	0.050	10/18/2024	ND	2.36	118	2.00	1.75	
Total Xylenes*	<0.150	0.150	10/18/2024	ND	7.06	118	6.00	1.13	
Total BTEX	<0.300	0.300	10/18/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	10/18/2024	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/18/2024	ND	188	93.9	200	2.34	
DRO >C10-C28*	<10.0	10.0	10/18/2024	ND	191	95.4	200	5.16	
EXT DRO >C28-C36	<10.0	10.0	10/18/2024	ND					
Surrogate: 1-Chlorooctane	109 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	101 9	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received:	10/17/2024	Sampling Date:	10/16/2024
Reported:	10/21/2024	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT 041 RECLAMATION S	Sampling Condition:	Cool & Intact
Project Number:	03C1558463	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.204951,-103.88387		

Sample ID: FS 04 6 (H246356-05)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/18/2024	ND	2.27	113	2.00	1.26	
Toluene*	<0.050	0.050	10/18/2024	ND	2.34	117	2.00	0.285	
Ethylbenzene*	<0.050	0.050	10/18/2024	ND	2.36	118	2.00	1.75	
Total Xylenes*	<0.150	0.150	10/18/2024	ND	7.06	118	6.00	1.13	
Total BTEX	<0.300	0.300	10/18/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	10/18/2024	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/18/2024	ND	188	93.9	200	2.34	
DRO >C10-C28*	<10.0	10.0	10/18/2024	ND	191	95.4	200	5.16	
EXT DRO >C28-C36	<10.0	10.0	10/18/2024	ND					
Surrogate: 1-Chlorooctane	93.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	84.2	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received:	10/17/2024	Sampling Date:	10/16/2024
Reported:	10/21/2024	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT 041 RECLAMATION S	Sampling Condition:	Cool & Intact
Project Number:	03C1558463	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.204951,-103.88387		

Sample ID: FS 05 8 (H246356-06)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/18/2024	ND	2.27	113	2.00	1.26	
Toluene*	<0.050	0.050	10/18/2024	ND	2.34	117	2.00	0.285	
Ethylbenzene*	<0.050	0.050	10/18/2024	ND	2.36	118	2.00	1.75	
Total Xylenes*	<0.150	0.150	10/18/2024	ND	7.06	118	6.00	1.13	
Total BTEX	<0.300	0.300	10/18/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 %	6 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	10/18/2024	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/18/2024	ND	188	93.9	200	2.34	
DRO >C10-C28*	<10.0	10.0	10/18/2024	ND	191	95.4	200	5.16	
EXT DRO >C28-C36	<10.0	10.0	10/18/2024	ND					
Surrogate: 1-Chlorooctane	99.9 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.8 9	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

S-05	The surrogate recovery is outside of lab established statistical control limits but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

ARDIN oratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Company Nam	ne: Ensolum. LLC			Acres 64		
Project Manag	er: A: Map / al	0		DI THIG	0	ANALYSIS REQUEST
Address: 3122	National Parks Hwy			1.4.3		
City: Carlsbad		State: NM	Zin: 88220	Atta: A M V R	meisy	
Phone #: 72	10-384-736	S Fax #:		Address: 2104 F	LA.	
Project #: 03	61558463	Project Owne	er.	city: Carlsbad	CIECA OT.	
Project Name:	32.20495, -10	288 88, 80	2	State: N/N Zin: 5	78220	
Project Locatic	on: Poker Lake	140 41		Phone #:	a the	
Sampler Name	: Mario Salih	5		Fax #:		
FOR LAB USE ONLY			MATRIX	PRESERV. SA	MPLING	
		Denth	C)OMP RS TER ER	5	ide	
Hauluss	Sample I.D.	(feet)	(G)RAB OR ((# CONTAINE GROUNDWA WASTEWATE SOIL DIL SLUDGE	OTHER : CID/BASE: CE / COOL OTHER :	BTEX TPH Chlor	
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nalyses. All claims includin ervice. In no event shall Ca filiates or successors arisin	ig those for negligence and any other ardinal by liable for incidental or com g out of or related to the performan	If cause whatsoever shall be d sequental damages, including ce of services hereunder by Ca	error wave generater based in contract or berned waved unless made in writing and re without limitation, business interruptions, loss ardinal, regardless of whether such claim is to ardinal.	Iort, shall be limited to the amount pa scelved by Cardinal within 30 days after s of use, or loss of profits incurred by a sased upon any of the above stated re- based upon any of the above stated re- transmission and stated re- transmission and stated re- transmission and stated re- stransmission and stated re- stransmission and stated re- stransmission and stated re- stransmission and stated re- transmission and stated re- stransmission and stated re- transmission and stated re- stransmission and stated re- transmission and stated re- transmission and stated re- stransmission and stated re- transmission and stated re- stransmission and stated re- s	id by the client for the re completion of the applicable client. Its subadianes, assocs or observations.	
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Delivered By: (Cir	rcle One) 0	baarvad Tamp. °C	Sample Condition	1 CHECKED BY: (Initials)	APE: PA. 2024	-08325, EXP, 01 ard Bacteria (only) Sample Condition
r UKW-QQD r	12/10/01 2 53	+ Cardinal ca		£	Correction Factor -0.5°C-0-0	HS-hr Ves Yes

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



October 23, 2024

AIMEE COLE ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD, NM 88220

RE: POKER LAKE UNIT 041 RECLAMATION SAMPLING

Enclosed are the results of analyses for samples received by the laboratory on 10/22/24 13:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received:	10/22/2024	Sampling Date:	10/21/2024
Reported:	10/23/2024	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT 041 RECLAMATION S	Sampling Condition:	Cool & Intact
Project Number:	03C1558463	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.204951,-103.88387		

Sample ID: FS 02 24 (H246429-01)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/22/2024	ND	2.12	106	2.00	7.45	
Toluene*	<0.050	0.050	10/22/2024	ND	2.03	102	2.00	5.60	
Ethylbenzene*	<0.050	0.050	10/22/2024	ND	2.04	102	2.00	4.93	
Total Xylenes*	<0.150	0.150	10/22/2024	ND	6.04	101	6.00	5.41	
Total BTEX	<0.300	0.300	10/22/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.2	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	10/22/2024	ND	400	100	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/22/2024	ND	218	109	200	3.37	
DRO >C10-C28*	<10.0	10.0	10/22/2024	ND	211	105	200	4.00	
EXT DRO >C28-C36	<10.0	10.0	10/22/2024	ND					
Surrogate: 1-Chlorooctane	93.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.1	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received:	10/22/2024	Sampling Date:	10/21/2024
Reported:	10/23/2024	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT 041 RECLAMATION S	Sampling Condition:	Cool & Intact
Project Number:	03C1558463	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.204951,-103.88387		

Sample ID: FS 03 19 (H246429-02)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/22/2024	ND	2.12	106	2.00	7.45	
Toluene*	<0.050	0.050	10/22/2024	ND	2.03	102	2.00	5.60	
Ethylbenzene*	<0.050	0.050	10/22/2024	ND	2.04	102	2.00	4.93	
Total Xylenes*	<0.150	0.150	10/22/2024	ND	6.04	101	6.00	5.41	
Total BTEX	<0.300	0.300	10/22/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.5	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	10/22/2024	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/22/2024	ND	218	109	200	3.37	
DRO >C10-C28*	<10.0	10.0	10/22/2024	ND	211	105	200	4.00	
EXT DRO >C28-C36	<10.0	10.0	10/22/2024	ND					
Surrogate: 1-Chlorooctane	99.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.3	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received:	10/22/2024	Sampling Date:	10/21/2024
Reported:	10/23/2024	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT 041 RECLAMATION S	Sampling Condition:	Cool & Intact
Project Number:	03C1558463	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.204951,-103.88387		

Sample ID: SW 01 10-16 (H246429-03)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/22/2024	ND	2.12	106	2.00	7.45	
Toluene*	<0.050	0.050	10/22/2024	ND	2.03	102	2.00	5.60	
Ethylbenzene*	<0.050	0.050	10/22/2024	ND	2.04	102	2.00	4.93	
Total Xylenes*	<0.150	0.150	10/22/2024	ND	6.04	101	6.00	5.41	
Total BTEX	<0.300	0.300	10/22/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.3 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	10/22/2024	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/22/2024	ND	218	109	200	3.37	
DRO >C10-C28*	<10.0	10.0	10/22/2024	ND	211	105	200	4.00	
EXT DRO >C28-C36	<10.0	10.0	10/22/2024	ND					
Surrogate: 1-Chlorooctane	98.4 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.3 9	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received:	10/22/2024	Sampling Date:	10/21/2024
Reported:	10/23/2024	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT 041 RECLAMATION S	Sampling Condition:	Cool & Intact
Project Number:	03C1558463	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.204951,-103.88387		

Sample ID: SW 01 16-24 (H246429-04)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/22/2024	ND	2.12	106	2.00	7.45	
Toluene*	<0.050	0.050	10/22/2024	ND	2.03	102	2.00	5.60	
Ethylbenzene*	<0.050	0.050	10/22/2024	ND	2.04	102	2.00	4.93	
Total Xylenes*	<0.150	0.150	10/22/2024	ND	6.04	101	6.00	5.41	
Total BTEX	<0.300	0.300	10/22/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.4	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	10/22/2024	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/22/2024	ND	218	109	200	3.37	
DRO >C10-C28*	<10.0	10.0	10/22/2024	ND	211	105	200	4.00	
EXT DRO >C28-C36	<10.0	10.0	10/22/2024	ND					
Surrogate: 1-Chlorooctane	104 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.8	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

101 East Marland, Hobbs, NM 88240 ratories

Company Name' Ensolum.	LLC		BILLIO	AN	ALYSIS REQUEST
Company Matter Linestering			and a second sec		
Project Manager: ATMEE	core		P.O. #		
Address: 3122 National Parl	ks Hwy		company: XTO Energy	V	
City: Carlsbad	State: NM	Zip: 88220	Attn: AMY KUth		
Phone #: 720-384-	7365 Fax #:		Address: 3/04 E. 6100	1 St.	
Project #: 036 1558	463 Project Owner	а	city: CollSbad		
Project Name: POKEL	AVA WAIT OUL		State: N/M Zip: 882	20	
Project Location: 32, 20	0495,-103.883	1887	Phone #:		
Sampler Name: MALCIO	Sackis		Fax #:	5	
FOR LAB USE ONLY	001 1 10	MATRIX	PRESERV. SAMPLING)e	
Lab I.D. Sampl	e I.D. (feet)	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SUUDGE	OTHER : ACID/BASE: ICE / COOL OTHER :	M BTEX TPH Chlorid	
I FSo	46 8	CIV	V 10/21/24 14	V V V V	
2 FS03	19	01	N 19	as v v v	
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PLEASE NOTE: Lability and Damages. Cardin analyses, All claims including those for negliger service. In no event shall Cardinal be liable for i antifiantes or successors arising out of or related 1 antifiantes or successors arising out of or related 1	al's liability and client's exclusive remedy for nce and any other cause whatsoever shall be incidental or consequental damages, includin to the performance of services hareunder by	any claim arising whether based in contra - deemed walved unless made in writing a g without limitation, business interruption Cardinal, regardless of whether such clai	ct or tort, shall be limited to the amount paid by the and received by Cardinal within 30 days after comp s, loss of use, or loss of profils incurred by client, its s, toss of use, or loss of profils incurred to a some m is based upon any of the above stated reasons of m is based upon any of the above stated reasons of m is based upon any of the above stated reasons of the m is based upon any of the above stated reasons of the above stated rea	coheritor the applicable subsidiaries. cohereise	
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FURM-UD K 3.2 10/01/2	4 Cardinal		No Y - Curr	to colov keene@cardinallabsnm	

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Page 7 of 7

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Released to Imaging: 5/6/2025 10:30:19 AM

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November 25, 2024

AIMEE COLE ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD, NM 88220

RE: POKER LAKE UNIT 41

Enclosed are the results of analyses for samples received by the laboratory on 11/21/24 15:13.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Whe Singh

Mike Snyder For Celey D. Keene Lab Director/Quality Manager



	ENSOLUM AIMEE COLE 3122 NATIONA CARLSBAD NM Fax To:	L PARKS HWY , 88220	
Received:	11/21/2024	Sampling Date:	11/21/2024
Reported:	11/25/2024	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT 41	Sampling Condition:	Cool & Intact
Project Number:	03E1558463	Sample Received By:	Alyssa Parras

XTO 32.204971-103.884031

Sample ID: BF 01 0.5' (H247153-01)

Project Location:

Chloride, SM4500CI-B	mg/	′kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	11/25/2024	ND	448	112	400	3.64	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/22/2024	ND	211	106	200	3.12	
DRO >C10-C28*	<10.0	10.0	11/22/2024	ND	193	96.6	200	4.50	
EXT DRO >C28-C36	<10.0	10.0	11/22/2024	ND					
Surrogate: 1-Chlorooctane	77.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	69.2	% 49.1-14	8						

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Mite Sugar

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Mite Sugar

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com





APPENDIX C

January 17, 2019 Deferral Request

Released to Imaging: 5/6/2025 10:30:19 AM



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

January 17, 2019

#5E26784-BG14

NMOCD District 2 Mr. Mike Bratcher 811 S First St. Artesia, New Mexico 88210

SUBJECT: SOIL REMEDIATION CLOSURE REPORT FOR THE POKER LAKE UNIT PLU #041 RELEASE (2RP-5052), EDDY COUNTY, NEW MEXICO

Dear Mr. Bratcher:

On behalf of XTO Energy, Inc. (XTO), Souder, Miller & Associates (SMA) has prepared this Soil Remediation and Closure Report that describes the remediation of the release site located at the Poker Lake Unit (PLU) #041 site. The site is in UNIT G, SECTION 21, TOWNSHIP 24S, RANGE 30E, Eddy County, New Mexico, on land owned by the Bureau of Land Management (BLM). Figure 1 illustrates the vicinity and location of the site.

Table 1: Release Information a	and Closure Criteria
Name	Poker Lake Unit (PLU) #041
Company	XTO Energy, Inc.
Incident Number	2RP-5052
API Number	30-015-20933
Location	32.20495, -103.88387
Estimated Date of Release	10/27/2018
Date Reported to NMOCD	11/9/2018
Land Owner	BLM
Reported To	Mike Bratcher (NMOCD), Shelly Tucker (BLM)
Source of Release	Wellhead
Released Material	Oil and produced water
Released Volume	~5.5 bbl oil and produced water
Recovered Volume	~5.5 bbl oil and produced water
Net Release	~5.5 bbl oil and produced water
NMOCD Closure Criteria	>100 feet to groundwater, <500 feet to livestock watering well
SMA Response Dates	11/6/2018 – 11/9/2018 and 12/6/2018

Table 1, below, summarizes information regarding the release.
PLU #041 Remediation and Closure Report (2RP-5052) January 17, 2019

1.0 Background

On October 27, 2018, a release was discovered at the PLU #041 wellhead, resulting in an estimated release of 5.5 barrels of oil and produced water due to a stuffing box packing failure. Oil and produced water flowed on the south side of the pumpjack and then west-northwest toward a dirt road that passes through the well pad area. Initial response activities included recovering free liquids via a vacuum truck and covering the remaining impacted area with nearby soils to prevent cows from tracking through the impacted area.

Figure 1 illustrates the site vicinity and wellhead protection map, and Figure 2 illustrates the site location. The initial C-141 form is included in Appendix A. Figure 3 shows the approximate impacted area from the release.

2.0 Site Information and Closure Criteria

The PLU #041 is located approximately 11 miles east of Malaga, New Mexico on BLM land.

Depth to groundwater in the area is estimated to be approximately 250 feet below grade surface (bgs), based on a nearby New Mexico Office of the State Engineer (NMOSE)–registered livestock water well, which is located 170 feet to the west-northwest.

The nearest known water source within ½-mile of the location is a livestock watering well (C-03960-POD1), according to the NMOSE online water well database. The livestock watering well pumps water to a nearby stock tank. These features are shown on Figure 2.

The nearest surface water is an unnamed arroyo located approximately 1,780 feet to the south.

Based on this information, the applicable NMOCD Closure Criteria for this site is set accordingly by the stock watering well located 170 feet northwest of the pumping unit. Additionally, the BLM has requested that chlorides are delineated to 600 mg/Kg, regardless of depth to groundwater. The site was restored to meet the standards of Table I of 19.15.29.12 NMAC and BLM's closure criteria, with the exception of the area immediately south of the wellhead (sample area SC-12), which is detailed in Section 4.0.

The attached Table 2 demonstrates the Closure Criteria justification for this location. Pertinent well data is attached in Appendix B.

3.0 Release Characterization Activities

From November 6 - 9 and December 6, 2018, SMA personnel were on site in response to the release associated with the PLU #041. SMA performed site delineation activities by collecting soil samples from potholes excavated around the release site and throughout the visibly surface-stained area using a backhoe operated by a contractor. Samples were collected to a maximum depth of 8.5 feet below grade surface (bgs).

Soil samples were field-screened for chloride using an electric conductivity (EC) meter under EPA Method 4500 and for hydrocarbon impacts using a Dexsil® PetroFLAG TPH Analyzer.

Once delineation was complete, SMA directed excavation of the impacted area using a backhoe and trackhoe. Samples continued to be field-screened to ensure the extent of the contamination was reached and removed. Photos of the excavation are shown in Appendix C, and field screening results are included in Appendix D.

Page 2 of 4

PLU #041 Remediation and Closure Report (2RP-5052) January 17, 2019

4.0 Soil Remediation Summary

On November 11 and December 6, 2018, SMA collected confirmation samples from the excavation, which measured approximately 120 feet long and 58 feet wide. Confirmation samples were comprised of 5-point composites from the walls (SC-2 through SC-5, SC-8 through SC-14), and base (SC-1, SC-6, SC-7, SC-10 and SC-11) of the excavation, with each composite sample representing 200 square feet. Note that samples SC-10 and SC-11 are a composite of both the walls and base within their respective area. A total of 14 composite samples were collected for laboratory analysis for benzene and total BTEX (benzene, toluene, ethylbenzene and total xylenes) using EPA Method 8021B; MRO, DRO, and GRO (motor, diesel and gasoline range organics, respectively, also referred to as total TPH) by EPA Method 8015D; and total chlorides using EPA Method 300.0. Laboratory samples were placed into laboratory supplied glassware, labeled, and maintained on ice until delivery to Hall Environmental Analysis Laboratory in Albuquerque, New Mexico.

Laboratory results confirm that contamination was removed from all locations, with the exception of SC-12, which remains above the closure level for chlorides at 1,100 mg/Kg. However, further excavation could not be completed at SC-12 due to its proximity to the pumpjack unit. SMA recommends deferring the area of SC-12 until site plugging and abandonment.

Contaminated soils were removed from location and the excavation was filled with clean backfill and returned to previous surface grade. The contaminated soils were transported for proper disposal at an NMOCD-permitted disposal facility. Approximately 700 cubic yards of soil was impacted and hauled off for disposal.

Locations for samples SC-1 through SC-14 are depicted on Figure 3, and a summary of the laboratory results is displayed in Table 3. Laboratory reports are included in Appendix E.

5.0 Scope and Limitations

The scope of our services consisted of the performance of assessment sampling, verification of release stabilization, regulatory liaison, remediation, and preparation of 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 Austin Weyant at 575-689-8801 or Stephanie Hinds or Shawna Chubbuck at 505-325-7535.

Submitted by: SOUDER, MILLER & ASSOCIATES

Atylinie Alvols

Stephanie Hinds Staff EIT II

Reviewed by:

hauna Chubbuck

Shawna Chubbuck Senior Scientist

Page 3 of 4

PLU #041 Remediation and Closure Report (2RP-5052) January 17, 2019

ATTACHMENTS:

Figures:

Figure 1: Vicinity and Wellhead Protection Map Figure 2: Site Map Figure 3: Sample Location Map

Tables:

Table 2: NMOCD Remediation Closure CriteriaTable 3: Analytical Results Summary

Appendices:

Appendix A: NMOCD Form C-141 Initial and Final Appendix B: NMOSE Wells Report Appendix C: Photolog Appendix D: Field Notes Appendix E: Laboratory Analytical Reports Page 4 of 4

FIGURE 1 VICINITY AND WELLHEAD PROTECTION MAP



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FIGURE 2 SITE MAP



W:5-XTO Carlsbad (5E26784)\BG14 - PLU Well #41\CAD-Figures\5E26784 PLU Well #41.dwg, DJB, 1/8/2019 10:02 AV

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FIGURE 3 SAMPLE LOCATION MAP

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TABLE 2 NMOCD REMEDIATION CLOSURE CRITERIA

Table 2. NMOCD Remediation Closure Criteria

PLU #041

Site Information (19.15.29.11.A(2, 3, and 4) NMAC)		Source/Notes
Donth to Groundwater (feet here)	250 ft	NMOSE online water well database, C-03960-POD1 located
Deptil to Groundwater (leet bgs)	250 11	~170 feet to WNW
		NMOSE online water well database, livestock watering well C-
Hortizontal Distance From All Water Sources Within 1/2 Mile (ft)	170 ft	03960-POD1
Hertizentel Distance to Neorost Significent Watercourse (ft)	1700 ft	Google Earth Pro and Pierce Canyon Quad 7.5-min USGS Topo
nortizontal Distance to Nearest Significant Watercourse (IT)	1780 ft	Мар

Closure Criteria (19.15.29.12.B(4) and 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		600	100		50	10
51' to 100'		10000	2500	1000	50	10
>100'	yes	20000	2500	1000	50	10
Surface Water	yes or no	if yes, 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?	yes					
<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	800	100		50	10
within incorporated municipal boundaries or within a defined municipal						
fresh water well field?	no					
<100' from wetland?	no					
within area overlying a subsurface mine	no					
within an unstable area?	no					
within a 100-year floodplain?	no					

TABLE 3 ANALYTICAL RESULTS SUMMARY

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Table 3. Analytical Results Summary

Sample	Sample Date	Depth	BTEX	Benzene	GRO	DRO	MRO	Total TPH	Cl-
Number on	Sample Date	ft bgs	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
NMOC	CD Closure Crit	eria	50	10				100	600
BLM Remed	iation Request	Standard							600
SC 1	11/9/2018	2-3	<0.22	<0.024	<4.9	<9.5	<48	<62.4	610
30-1	12/6/2018	3-3.5							<30
50.2	11/9/2018	0-3	<0.22	<0.024	<4.8	63	70	133	630
30-2	12/6/2018	0-3.5			<4.7	<9.5	<47	<61.2	<30
50.2	11/9/2018	0-3	<0.21	<0.024	<4.7	40	63	103	410
30-3	12/6/2018	0-3.5			<4.8	<9.7	<48	<62.5	
SC A	11/9/2018	0-6	<0.22	<0.024	<4.9	170	87	257	450
30-4	12/6/2018	0-7			<4.8	<9.7	<48	<62.5	
SC-5	11/9/2018	0-6	<0.21	<0.023	<4.6	<9.9	<49	<63.5	200
50.6	11/9/2018	6-8	<0.22	<0.025	<4.9	1200	380	1580	290
30-0	12/6/2018	6-8.5			<5.0	<9.8	<49	<63.8	
50.7	11/9/2018	6-8	<0.22	<0.025	<4.9	<10	<50	<64.9	1200
30-7	12/6/2018	6-8.5							<30
SC-8	11/9/2018	0-6	<0.22	<0.024	<4.8	<9.8	<49	<63.6	430
SC-9	11/9/2018	0-8	<0.22	<0.024	<4.9	46	<49	46	<30
SC-10	11/9/2018	0-8	<0.22	<0.025	<5.0	<9.9	<50	<64.9	<30
SC 11	11/9/2018	0-3	<0.22	<0.024	<4.8	<9.5	<47	<61.3	720
30-11	12/6/2018	0-3.5							<30
SC 12	11/9/2018	0-8	<0.22	<0.024	<4.9	31	<49	31	1000
30-12	12/6/2018	0-8.5							1100
SC-13	11/9/2018	0-8	<0.22	<0.025	<4.9	<9.8	<49	<63.7	530
SC 14	11/9/2018	0-8	<0.22	<0.024	<4.8	890	770	1660	260
SC-14	12/6/2018	0-8.5			<5.0	<9.8	<49	<63.8	

PLU #041

SC: sample composite

APPENDIX A NMOCD FORM C-141 INITIAL AND FINAL

Received by OCD: 2/11/2025 2:28:51 PM

District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Page 51 of 119

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

Incident ID	NAB1832354684
District RP	2RP-5052
Facility ID	
Application ID	pAB1832354098

Release Notification

Responsible Party

Responsible Party XTO Energy	OGRID 5380
Contact Name Kyle Littrell	Contact Telephone 432-221-7331
Contact email Kyle_Littrell@xtoenergy.com	Incident # (assigned by OCD) NAB1832354684
Contact mailing address 522 W. Mermod, Carlsbad, NM 88220	

Location of Release Source

Latitude 32.20495

-	Longitude -103.8
(NAD 83	in decimal degrees to 5 decimal places)

-103.883872

Site Name Poker Lake Unit #041	Site Type Production Well
Date Release Discovered 10/27/2018	API# (if applicable) 30-015-20933

Unit Letter	Section	Township	Range	County	
G	214 barrels	248	30E	Eddy	
Surface Owne	$S 21_{AB}$	🛛 Federal 🔲 Tri	bal \square Private (Nar	BLM)

Nature and Volume of Release

Materi	al(s) Released (Select all that apply and attach calculations or specific	justification for the volumes provided below)
X Crude Oil	Volume Released (bbls) 0.1	Volume Recovered (bbls) <0.1
X Produced Water	Volume Released (bbls) 5.4	Volume Recovered (bbls) 4.9
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	Yes No
	Volume Released (bbls)	Volume Recovered (bbls)
🗌 Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

Fluids were released from the well head due to a stuffing box packing failure. A vacuum truck recovered free standing fluids. The packing was replaced and the well was returned to production.

age 2 Oil Conservation Division		Incident ID	NAB18323546842 0 2RP-5052	
		District RP		
		Facility ID		
		Application ID	pAB1832354098	
Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible part N/A	y consider this a major release	email etc)?	

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

 \mathbf{X} The source of the release has been stopped.

X 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 Name: Kyle Littrell	Title:
Signature Alland	Date:
email: Kyle Littrell@xtoenergy.com	Telephone:
OCD Only	
Received by: Amalin Dotamante	Date: 11/19/2018

Incident IDNAB1832354684District RP2RP-5052Facility IDApplication IDpAB1832354098

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?	>100 (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
Depend 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.

Reverved by OCD: 2/	11/2025 2:28:51 Platate of New Mexico		Incident ID	NAB183235786574 of 119
Page 4	Oil Conservation Divisi	on	District RP	22RP-5052
			Facility ID	
			Application ID	pAB1832354098
I hereby certify that the regulations all operations all operations all operations and the end of t	ne information given above is true and complete to ors are required to report and/or file certain release nvironment. The acceptance of a C-141 report by nvestigate and remediate contamination that pose a tance of a C-141 report does not relieve the operate e Littrell Madada Il@xtoenergy.com	o the best of my knowledge a e notifications and perform co the OCD does not relieve the a threat to groundwater, surfa or of responsibility for comp 	nd understand that purs prrective actions for rel e operator of liability sh ce water, human health liance with any other fe inator -7331	suant to OCD rules and eases which may endanger nould their operations have n or the environment. In ederal, state, or local laws
Received by:	ndie Dotamunte	Date:11/1	9/2018	

Received by OCD: 2/11/2025	2:28:51 parate of New Mexico
Page 5	Oil Conservation Division

Incident ID	NAB1832354684
District RP	2RP-5052
Facility ID	
Application ID	pAB1832354098

Remediation Plan

Remediation Plan Checklist: Each of the following items must be	included in the 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 manifestions subject to 10.15 20.12 	Not applicable per NMAC 19.159.29.11(A). Site was remediated within 90 days of reported release. See attached Closure Report.
Proposed schedule for remediation (note if remediation plan time	line is more than 90 days OCD approval is required)
Deferral Requests Only: Each of the following items must be confi	irmed as part of any request for deferral of remediation.
\mathbf{x} Contamination must be in areas immediately under or around pro deconstruction.	duction equipment where remediation could cause a major facility
Extents of contamination must be fully delineated.	l for sample area SC-12 (Figure 3 of Closure Report).
\mathbf{x} 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 rules and regulations all operators are required to report and/or file ce which may endanger public health or the environment. The acceptance liability should their operations have failed to adequately investigate a surface water, human health or the environment. In addition, OCD ac responsibility for compliance with any other federal, state, or local law	to the best of my knowledge and understand that pursuant to OCD rtain release notifications and perform corrective actions for releases ce of a C-141 report by the OCD does not relieve the operator of and remediate contamination that pose a threat to groundwater, ceptance of a C-141 report does not relieve the operator of ws and/or regulations.
Printed Name: Kyle Littrell	Title:
Signature: Cestand	Date: 1-22-19
email. Kyle Litnell@xtbenergy.com	Telephone: 432-221-7331
	Telephone
OCD Only	
Received by:	Date: 01/22/2019
Approved Approved with Attached Conditions of A	pproval 🗌 Denied 🔀 Deferral Approved
Signature: TIM K. D	ate: 02/15/2019

Received by OCD: 2/11/2025 2:28:51 PMrate of New Mexico Page 6 Oil Conservation Division

Incident ID	Page 56 of 1 NAB1832354684
District RP	2RP-5052
Facility ID	-
Application ID	pAB1832354098

Closure

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

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

x A scaled site and sampling diagram as described in 19.15.29.11 NMAC

 \mathbf{x} 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)

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

X 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: Kyle Littrell	Title:	
Signature: Certacut	Date: $1 - 22 - 19$	
email: Kyle Lattrell@xtoenergy.com	Telephone:	
OCD Only		
Received by:	Date:01/22/2019	
Closure approval by the OCD does not relieve the responsi remediate contamination that poses a threat to groundwater party of compliance with any other federal, state, or local b	ble party of liability should their operations have failed to adequa , surface water, human health, or the environment nor does not rel aws and/or regulations.	tely investigate and ieve the responsible
Closure Approved by:	Date:	
Printed Name:	Title:	

Site deferred due to contamination left in place at sample point SC-12

APPENDIX B NMOSE WELLS REPORT

New Mexico Office of the State Engineer Active & Inactive Points of Diversion

(with Ownership Information)

		(acre ft oer a	noum)				(R=POD has been replaced and no longer serves this file, C-the file is closed)	(quarters	s are 1=NW 2	=NE 3=SW 4	SE)	93 UTM in mo	ters)
	Pub	(acre inper a	aniani,			Wall		(ujuan ten s	a a a	r to largest/	(INCH	00 01 11 11 11 11	(e) 2 /
WR File Nbr	basin	Use Divers	ion Owner	Count	POD Number	Tag	Code Grant	Source	q q q 6416 4 Sec	Tws Rng	x	Y	Distance
<u>C 03960</u>	С	STK	3 BUREAU OF LAND MANAGEMENT	ED	C 03960 POD1			Shallow	1 3 2 21	24S 30E	605061	35637 12	240
<u>C 02 107</u>	С	DOL	0 M& MCATTLE CO.	ED	<u>C 02 107</u>				3 2 21	24S 30E	605 174	3563706*	297
C 03893	CUB	CPS	0 DARRELL CRASS DRILLING COMPANY	ED	C 03893 POD1		NON		1 1 2 21	24S 30E	605 162	3564 162	698
Record Count	t: 3 Radius	Search (in 1	neters):										
Easting (X): 6049	967	Northing (Y): 3563492		Radius: 1600)							
Sorted by:	Distance												
*UTM location v	vas derive	ed from PLSS	- see Help										

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

1/9/19 3:29 PM

ACTIVE & INACTIVE POINTS OF DIVERSION

.

APPENDIX C PHOTOLOG

Site Photographs

PLU #041 Site Excavation and Remediation



Photo 1. Pumpjack unit. Impacted soils located left of pumpjack and extending in direction of powerline.



Photo 2. Source of release.



Photo 3. Impacted soils extending northwest from pumpjack.



Photo 4. Delineation activities showing pothole locations.



Photo 5. Beginning excavation adjacent to pumpjack.



Photo 6. Excavation activities. Note exposed electrical line in center of photo.



Photo 7. Excavation area.



Photo 8. Scraping the walls for samples SC-12 and SC-13.



Photo 9. Excavation secured using 3-wire fencing.

APPENDIX D FIELD NOTES

	PRO	JECT		PAGE		
INT XTD	DATE	11/6/18 E 11/4	1/18	BY	Sitter	de
	CHE	CKED		BV		
		ORED				
14/2018						
100 - onsite						
15- SIErra mate Teh on ora su	meline stre	tray, A	ereers h	60	au .	electric
line running directly down of	oil puth.	38. 11	ppcms i			ACCIVIC
140 - Brain delimatione Data man de	oth and	the A and	4			
Delmeatron using a backhoo	e, potholm	y down	3-5-	7	,,	
Vie of a Categoria		· · · · · · · · · · · · · · · · · · ·	+ 1 0			
stight spreading.	nosty	penetro	TEOL NY	agus	dour	, but
3:30 - Placine white on floor market	me excapate	m boin	dana		leoth.	
Told crew to slope and 1'	Il mave few	icing too	norrow.	The	, write	place
traffic comes at end of to	day.	-		U		
5:30 - Arrive SMA stace.						
Purchase 3-strand where (1000') and	1 10 Sta	kes.			
1 17/2081						
2:15 - onsite. Norman excavating w/	small excave	ator. Go.	ng down	I're	of spill	path
4: DD - experies detrical long			J		0.	
The opposing out the second						
7:00 - put up serving and depen	t sae.		_	_		-
8/2018						
1:40 - onste. Checking excountion. Pe	illing comp	osite se	myles .	to ve	it, a	lan.
	0 1				0	
5:00 - 0:14-site						
19/2018						
9:20 - onsite.						
10:20- begin sandling No Mad	00.					

SOUDER, MILLER & ASSOCIATES Serving - New Mexico • Colorado • Arizona • Utah • Texas

			Field Sc	reenin	g Form	1		
	XTO-P	Location Name			in a		Date	
	Location Name	Description	Depth (Feet BGS)	Time	Reading	Time	PetroELAG	Time
*	PM 1-1	Sandy mod. odor (stammy		8: 49	2.15 MS	13:00	2513 1841	9:13
	PH1-3	sandy, mold odor	3	8:52	-		535	9:14
	PH1-6.5	Sundy, no odor or stammydetecte.	6.5	8:55			302/224	9:15
*	РЧ1 - 8	sandy, litting top of calsche layer	8	9:27	1,14 ms	13:02	107_	9:40
	PH2-3	Sandy	3	9:45			73 _	
	РИЗ-3	уу - ^у т	3	9:50			89/-	
	PH3-5	te vi	5	9:52			100 -	
	РИЧ-3	le u	3	9:58		-	59/-	_
	PH 4-5	le ie	5	90:00	-	-	83_	-
	РИ 5-3	iiiji te —	3	10:03	-	<i>.</i>	591_	-
	PN5-5	le te	5	10:05	-		69_	
	РИ5-7	k is	7	10107	-	_	55-	_
No	tes: Ph-p Petrof	othole "lexcar ag 5- DRD read	ator					
		7- MAD rea	admg_/	SM	4			

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Page 68 of 119

	Location Nam	Date EC11-6-2018					
Location Name	Description	Depth (Feet BGS)	Time Collected	Reading	Time Screened	PetroFLAG Reading	Time Screene
P46-4.5	Sandy	4.5	10:14	0.09	13:04	53 -	13:2
PH 7-3	N M	3	(o:)9		_	79-	13:2
ри 7-6	ų u	6	10:21	-	-	70/-	13:2
Ри 8-3	ti ic	3	10:26	_	1	48	13:21
PH 8-6	υ σ	6	10:28	-	1	60-	(3:25
PH 9-3.5	ti ti	3.5	10:32	0.29	13:04	59_	13:20
PH 10-3	k n	3	10:36		_	912	13: 41
PM 11-3	6 0	3	10:45	0.34	13:08	88	13:42
PH 12-3	(s – 1)	3	10:50	-	_	76 -	13:43
PH 13.3	6 1)	3	10:55	-		85 -	13: 51
PH 14-3	lt k	3	11:00	-		57/-	13:52
PH 10-5	k h	5	10:37	_	_	1411	13:53

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Page 69 of 119

	-	Location Name	Date					
	Location Name	Description	Depth (Feet BGS)	Time Collected	PID Reading (ppm)	Time Screened	PetroFLAG Reading	Time Screened
	PH10-7	Sandy	7	10538	-	-	1972	12:40
9	PH10-8	a u	8	10:39	-	_	269	12:52
¥	PH10-9	ti ti	9	10:40	0.25	13:10	59	12:55
	Pn 9 - 5	tr o	5	(0534	3-	-	-	_
	Ри 11-5	$t \epsilon = - \epsilon$	5	10:46	ł	_	_	
	Black	te le	-	12:00	(MS) 75	12:22		
	BG-1	le e	0	(2110	(ms) 815	12:24		_
018	5(-)	base, east side	2-3	11:00	0.37	11:18	-	_
	56-2	S-SW wall " east si	dy 0-3	11:03	0.36	11:18		_
	SC-3	N, NE Wall, East STA	4 0-3	11:06	0.28	11:19		-
	SC-Y	1 11 South wall	0-6	11:09	0.31	11: 19	-	_
	56-5	11 11 South wall	0-6	11:12	0.21	11:20	-	-
N	otes: Sc - So	imple composite	(5 pt)	A CL				

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	Field Screening Form										
		Date									
	Location Name	Description	Depth (Feet BGS)	Time Collected	Reading (ppm)	Time Screened	PetroFLAG Reading	Time Screened			
	56-6	Sandy & coose base	6-8	11:39	0.31	11:52					
	SC-7	Sandy, some Caloche, base	6-8	11:42	0.46	11:54	_	1			
	Sc - 8	le li	0-6	11: 45	0-24	11:56	-	-			
	56-9	SE wall this	0-8	12:18	0.09	12:33	_	_			
	SC - 10	E wall + line	0-8	12:21	0.01	12: 35	_	_			
	SC - 11	N wall + base	0.3	12:25	0.41	12:36		-			
1 - 9+18	SC-1	base, east side	2-3	10:20			-	-			
	56-2	5-SW wall	0-3	10:22	1	-	_	-			
	56-3	N-NE wall	0-3	10:25	_	-	-	-			
	SC-Y	5 wall	0-6	10:27	-	_	_	[
	50-5	5 wall	0-6	10:30	_		_				
	56-6	base	B -8	10:32	-	-	-	_			
, [Votes: Ve SC-1 thr	ough SC-11 re.	- sampled	for contr	rmatrie s	aylay.					

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	F	Field Sci	reening	g Form	1		
	Location Name	Date					
Location Name	Description	Depth (Feet BGS)	Time Collected	PID Reading (ppm)	Time Screened	PetroFLAG Reading	Time Screened
SC-7	base	6-8	10:35	—	-	_	_
56-8	5 Wall	0-6	10: 37	-	-		-
SC-9	SE wall + base	0-8	10:40	-	-	÷	_
50-10	E wall +base	0-8	10:42	-	_	-	
56-11	N wall + base	0-3	10:44	-	-	_	
56-12	N wall	0-8	10:47	-	-	-	1
56-13	N wall	08	10:50	-	-	(-
56-14	N wall	0-8	10:52	-	-	-	_
							1

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PLU				12	16120		
ocation Name	Description	Depth (Feet BGS)	Time Collected	PHDEC Reading (ppm)	Time Screened	P¢¢ PetroFLAG Reading	Time Screened
56-12			10:40	382		-	-
SC-11	-		10:48	165	1	_	-
sc-14	some stanny	0-8	111.05	-	1	555	ll i 36
50-1			11:20	(10	1	_	1
Sc-2		-	11:24	(11	1	62	/1: 42
56-3		-	1:30	-	_	59	11:45
56-4		_	11:50	-	-	42	12:10
6-14	some staning old spill? along powercon	0-8	(2:20	-	-	156	12:41
(-6	caliche	10	12:29	_	-	89	12:52
(-7	Calidhe	10	12:39	789	-	70	-
c-14	wall	0-8	12:58	-	-	51	13:24
-7	<i>(cliche</i>	[I	13.04	210		100	100000

APPENDIX E LABORATORY ANALYTICAL REPORTS



November 26, 2018 Stephanie Hinds Souder, Miller and Associates 401 W. Broadway Farmington, NM 87401 TEL: (505) 325-5667 FAX (505) 327-1496

RE: PLU 41

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

OrderNo.: 1811709

Dear Stephanie Hinds:

Hall Environmental Analysis Laboratory received 14 sample(s) on 11/14/2018 for the analyses presented in the following report.

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

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

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Lab Order 1811709

Date Reported: 11/26/2018

CLIENT:	Souder, Miller and Associates	client Sample ID: SC-1						
Project:	PLU 41		(Collection Date	e: 11	/9/2018 10:20:00 AM		
Lab ID:	1811709-001	Matrix: SOIL Received Date: 11/14/2018 7:00:00 AM						
Analyses		Result	PQL	Qual Units	DF	Date Analyzed	Batch	
EPA MET	THOD 300.0: ANIONS					Analyst	MRA	
Chloride		610	30	mg/Kg	20	11/15/2018 4:11:04 PM	41557	
EPA MET	THOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	: Irm	
Diesel R	ange Organics (DRO)	ND	9.5	mg/Kg	1	11/19/2018 11:07:49 AM	M 41566	
Motor Oi	I Range Organics (MRO)	ND	48	mg/Kg	1	11/19/2018 11:07:49 AM	M 41566	
Surr: I	DNOP	106	50.6-138	%Rec	1	11/19/2018 11:07:49 A	M 41566	
EPA MET	HOD 8015D: GASOLINE RANG	E				Analyst	RAA	
Gasoline	Range Organics (GRO)	ND	4.9	mg/Kg	1	11/15/2018 12:44:20 PM	M 41539	
Surr: I	BFB	102	73.8-119	%Rec	1	11/15/2018 12:44:20 PM	M 41539	
EPA MET	THOD 8021B: VOLATILES					Analyst	RAA	
Benzene		ND	0.024	mg/Kg	1	11/15/2018 12:44:20 PM	M 41539	
Toluene		ND	0.049	mg/Kg	1	11/15/2018 12:44:20 PM	M 41539	
Ethylben	izene	ND	0.049	mg/Kg	1	11/15/2018 12:44:20 PM	M 41539	
Xylenes,	Total	ND	0.098	mg/Kg	1	11/15/2018 12:44:20 PM	M 41539	
Surr: 4	4-Bromofluorobenzene	115	80-120	%Rec	1	11/15/2018 12:44:20 PM	M 41539	

Qualifiers:	
-------------	--

- * Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix
- D
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 1 of 18 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Surr: DNOP

Surr: BFB

Benzene

Toluene

Ethylbenzene

Xylenes, Total

Motor Oil Range Organics (MRO)

Gasoline Range Organics (GRO)

EPA METHOD 8021B: VOLATILES

Surr: 4-Bromofluorobenzene

EPA METHOD 8015D: GASOLINE RANGE

Analytical Report

11/19/2018 11:32:11 AM 41566

11/19/2018 11:32:11 AM 41566

11/15/2018 1:54:28 PM 41539

Analyst: RAA

Analyst: RAA

Hall Environmental Analysis Laboratory, Inc.

Lab Order 1811709 Date Reported: 11/26/2018

CLIENT:	Souder, Miller and Associates	Client Sample ID: SC-2							
Project:	PLU 41		Collection Date: 11/9/2018 10:22:00 AM						
Lab ID:	1811709-002	Matrix: SOIL Received Date: 11/14/2018 7:00:00 AM							
Analyses		Result	PQL	Qual Ur	nits	DF	Date Analyzed	Batch	
EPA MET	HOD 300.0: ANIONS						Analys	st: MRA	
Chloride		630	30	m	g/Kg	20	11/15/2018 4:23:29 PI	M 41557	
EPA MET	HOD 8015M/D: DIESEL RANGE	ORGANICS					Analys	st: Irm	
Diesel Ra	ange Organics (DRO)	63	9.2	mg	g/Kg	1	11/19/2018 11:32:11 /	AM 41566	

46

4.8

50.6-138

73.8-119

0.024

0.048

0.048

0.095

80-120

mg/Kg

%Rec

mg/Kg

%Rec

mg/Kg

mg/Kg

mg/Kg

mg/Kg

%Rec

1

1

1

1

1

1

1

1

1

70

118

ND

100

ND

ND

ND

ND

112

	Refer to the QC S	ummary report and	sample login c	checklist for flagged QC	C data and preservation	n information
--	-------------------	-------------------	----------------	--------------------------	-------------------------	---------------

- * 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
- Analyte detected in the associated Method Blank В
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 2 of 18 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Surr: 4-Bromofluorobenzene

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 1811709

Date Reported: 11/26/2018

11/15/2018 2:17:44 PM 41539

CLIENT: Souder, Miller and Associates		Client Sample ID: SC-3							
Project: PLU 41	Collection Date: 11/9/2018 10:25:00 AM								
Lab ID: 1811709-003	Matrix: SOIL		Received Dat	e: 11	/14/2018 7:00:00 AM				
Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch			
EPA METHOD 300.0: ANIONS					Analys	st: MRA			
Chloride	410	30	mg/Kg	20	11/15/2018 5:00:43 PI	vl 41557			
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analys	st: Irm			
Diesel Range Organics (DRO)	40	9.4	mg/Kg	1	11/19/2018 11:56:20 /	M 41566			
Motor Oil Range Organics (MRO)	63	47	mg/Kg	1	11/19/2018 11:56:20 /	M 41566			
Surr: DNOP	105	50.6-138	%Rec	1	11/19/2018 11:56:20 /	M 41566			
EPA METHOD 8015D: GASOLINE RANGE	E				Analys	st: RAA			
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	11/15/2018 2:17:44 PI	VI 41539			
Surr: BFB	97.7	73.8-119	%Rec	1	11/15/2018 2:17:44 PI	M 41539			
EPA METHOD 8021B: VOLATILES					Analys	st: RAA			
Benzene	ND	0.024	mg/Kg	1	11/15/2018 2:17:44 PI	VI 41539			
Toluene	ND	0.047	mg/Kg	1	11/15/2018 2:17:44 PI	M 41539			
Ethylbenzene	ND	0.047	mg/Kg	1	11/15/2018 2:17:44 PI	M 41539			
Xylenes, Total	ND	0.095	mg/Kg	1	11/15/2018 2:17:44 PI	M 41539			

110

80-120

%Rec

1

Qualifiers:	
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- * 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
- Analyte detected below quantitation limits Page 3 of 18 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

Project:

Lab ID:

CLIENT: Souder, Miller and Associates

PLU 41

1811709-004

Analytical Report
Lab Order 1811709

Hall	Environ	nental .	Anal	ysis L	Laborat	tory, I	nc.
						• •	

Lab Order **1811709** Date Reported: **11/26/2018**

	Client Sample ID: SC-4
	Collection Date: 11/9/2018 10:27:00 AM
Matrix: SOIL	Received Date: 11/14/2018 7:00:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	450	30	mg/Kg	20	11/15/2018 5:13:08 PM	41557
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: Irm
Diesel Range Organics (DRO)	170	10	mg/Kg	1	11/19/2018 12:20:38 P	M 41566
Motor Oil Range Organics (MRO)	87	50	mg/Kg	1	11/19/2018 12:20:38 P	M 41566
Surr: DNOP	106	50.6-138	%Rec	1	11/19/2018 12:20:38 P	M 41566
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	11/15/2018 2:41:01 PM	41539
Surr: BFB	100	73.8-119	%Rec	1	11/15/2018 2:41:01 PM	41539
EPA METHOD 8021B: VOLATILES					Analyst	: RAA
Benzene	ND	0.024	mg/Kg	1	11/15/2018 2:41:01 PM	41539
Toluene	ND	0.049	mg/Kg	1	11/15/2018 2:41:01 PM	41539
Ethylbenzene	ND	0.049	mg/Kg	1	11/15/2018 2:41:01 PM	41539
Xylenes, Total	ND	0.097	mg/Kg	1	11/15/2018 2:41:01 PM	41539
Surr: 4-Bromofluorobenzene	113	80-120	%Rec	1	11/15/2018 2:41:01 PM	41539

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 4 of 18
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Lab Order 1811709

Date Reported: 11/26/2018

CLIENT: Souder, Miller and Associates		Cl	ient Sample II): SC	2-5 /9/2018 10·30·00 AM	
Lab ID: 1811709-005	Matrix: SOIL	,	Received Date	e: 11/	/14/2018 7:00:00 AM	
Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	200	30	mg/Kg	20	11/15/2018 5:25:32 PM	41557
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	: Irm
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	11/19/2018 12:44:58 PI	M 41566
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	11/19/2018 12:44:58 PI	M 41566
Surr: DNOP	99.5	50.6-138	%Rec	1	11/19/2018 12:44:58 PI	M 41566
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: RAA
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	11/15/2018 4:37:34 PM	41539
Surr: BFB	100	73.8-119	%Rec	1	11/15/2018 4:37:34 PM	41539
EPA METHOD 8021B: VOLATILES					Analyst	: RAA
Benzene	ND	0.023	mg/Kg	1	11/15/2018 4:37:34 PM	41539
Toluene	ND	0.046	mg/Kg	1	11/15/2018 4:37:34 PM	41539
Ethylbenzene	ND	0.046	mg/Kg	1	11/15/2018 4:37:34 PM	41539
Xylenes, Total	ND	0.091	mg/Kg	1	11/15/2018 4:37:34 PM	41539
Surr: 4-Bromofluorobenzene	113	80-120	%Rec	1	11/15/2018 4:37:34 PM	41539

Qualifiers:	
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- * 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
- Analyte detected below quantitation limits Page 5 of 18 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

Hall Environmental Analysis Laboratory, Inc.

Lab Order 1811709

Date Reported: 11/26/2018

CLIENT: Souder, Miller an	nd Associates	Cl	ient Sample II): SC	C-6	
Project: PLU 41		(Collection Date	e: 11	/9/2018 10:32:00 AM	
Lab ID: 1811709-006	Matrix: SOIL		Received Date	e: 11	/14/2018 7:00:00 AM	
Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIC	DNS				Analyst	MRA
Chloride	290	30	mg/Kg	20	11/15/2018 5:37:57 PM	41557
EPA METHOD 8015M/D: D	IESEL RANGE ORGANICS				Analyst	Irm
Diesel Range Organics (DRC	0) 1200	20	mg/Kg	2	11/19/2018 1:09:18 PM	41566
Motor Oil Range Organics (N	IRO) 380	99	mg/Kg	2	11/19/2018 1:09:18 PM	41566
Surr: DNOP	108	50.6-138	%Rec	2	11/19/2018 1:09:18 PM	41566
EPA METHOD 8015D: GAS	SOLINE RANGE				Analyst	RAA
Gasoline Range Organics (G	RO) ND	4.9	mg/Kg	1	11/15/2018 5:01:02 PM	41539
Surr: BFB	96.5	73.8-119	%Rec	1	11/15/2018 5:01:02 PM	41539
EPA METHOD 8021B: VOI	ATILES				Analyst	RAA
Benzene	ND	0.025	mg/Kg	1	11/15/2018 5:01:02 PM	41539
Toluene	ND	0.049	mg/Kg	1	11/15/2018 5:01:02 PM	41539
Ethylbenzene	ND	0.049	mg/Kg	1	11/15/2018 5:01:02 PM	41539
Xylenes, Total	ND	0.099	mg/Kg	1	11/15/2018 5:01:02 PM	41539
Surr: 4-Bromofluorobenzer	ne 108	80-120	%Rec	1	11/15/2018 5:01:02 PM	41539

Qualifiers:	
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- * 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
- Analyte detected below quantitation limits Page 6 of 18 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

Hall Environmental Analysis Laboratory, Inc.

Lab Order 1811709

Date Reported: 11/26/2018

CLIENT:	: Souder, Miller and Associates		Cl	ient Sample I	D: SC	2-7	
Project:	PLU 41		(Collection Dat	e: 11	/9/2018 10:35:00 AM	
Lab ID:	1811709-007	Matrix: SOIL		Received Dat	e: 11	/14/2018 7:00:00 AM	
Analyses	3	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA ME	THOD 300.0: ANIONS					Analyst	MRA
Chloride	•	1200	75	mg/Kg	50	11/19/2018 10:12:16 A	VI 41557
	THOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	: Irm
Diesel R	ange Organics (DRO)	ND	10	mg/Kg	1	11/19/2018 2:22:31 PM	41566
Motor O	il Range Organics (MRO)	ND	50	mg/Kg	1	11/19/2018 2:22:31 PM	41566
Surr:	DNOP	114	50.6-138	%Rec	1	11/19/2018 2:22:31 PM	41566
EPA ME	THOD 8015D: GASOLINE RANGE					Analyst	RAA
Gasoline	e Range Organics (GRO)	ND	4.9	mg/Kg	1	11/15/2018 5:24:30 PN	41539
Surr:	BFB	98.9	73.8-119	%Rec	1	11/15/2018 5:24:30 PM	41539
EPA ME	THOD 8021B: VOLATILES					Analyst	RAA
Benzene	e	ND	0.025	mg/Kg	1	11/15/2018 5:24:30 PN	41539
Toluene		ND	0.049	mg/Kg	1	11/15/2018 5:24:30 PM	41539
Ethylber	nzene	ND	0.049	mg/Kg	1	11/15/2018 5:24:30 PM	41539
Xylenes,	, Total	ND	0.098	mg/Kg	1	11/15/2018 5:24:30 PM	41539
Surr:	4-Bromofluorobenzene	114	80-120	%Rec	1	11/15/2018 5:24:30 PM	41539

Qualifiers:	
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- * 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
- Analyte detected below quantitation limits Page 7 of 18 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

Hall Environmental Analysis Laboratory, Inc.

Lab Order 1811709

Date Reported: 11/26/2018

CLIENT:	Souder, Miller and Associates		Cl	ient Sample II): SC	2-8	
Project:	PLU 41		(Collection Date	e: 11,	/9/2018 10:37:00 AM	
Lab ID:	1811709-008	Matrix: SOIL		Received Date	e: 11,	/14/2018 7:00:00 AM	
Analyses		Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA MET	HOD 300.0: ANIONS					Analyst:	smb
Chloride		430	30	mg/Kg	20	11/20/2018 3:43:15 PM	41648
EPA MET	HOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	Irm
Diesel Ra	ange Organics (DRO)	ND	9.8	mg/Kg	1	11/19/2018 2:47:00 PM	41566
Motor Oil	Range Organics (MRO)	ND	49	mg/Kg	1	11/19/2018 2:47:00 PM	41566
Surr: D	DNOP	99.9	50.6-138	%Rec	1	11/19/2018 2:47:00 PM	41566
EPA MET	HOD 8015D: GASOLINE RANGI	E				Analyst	RAA
Gasoline	Range Organics (GRO)	ND	4.8	mg/Kg	1	11/15/2018 5:47:50 PM	41539
Surr: E	3FB	99.0	73.8-119	%Rec	1	11/15/2018 5:47:50 PM	41539
EPA MET	HOD 8021B: VOLATILES					Analyst	RAA
Benzene		ND	0.024	mg/Kg	1	11/15/2018 5:47:50 PM	41539
Toluene		ND	0.048	mg/Kg	1	11/15/2018 5:47:50 PM	41539
Ethylben	zene	ND	0.048	mg/Kg	1	11/15/2018 5:47:50 PM	41539
Xylenes,	Total	ND	0.095	mg/Kg	1	11/15/2018 5:47:50 PM	41539
Surr: 4	I-Bromofluorobenzene	113	80-120	%Rec	1	11/15/2018 5:47:50 PM	41539

Qualifiers:	
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- * 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
- Analyte detected below quantitation limits Page 8 of 18 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

Hall Environmental Analysis Laboratory, Inc.

Lab Order 1811709

Date Reported: 11/26/2018

CLIENT: Souder, Miller and Associates Project: PLU 41		Cli (ient Sample II Collection Date): SC e: 11/	2-9 /9/2018 10:40:00 AM	
Lab ID: 1811709-009	Matrix: SOIL		Received Date	e: 11/	/14/2018 7:00:00 AM	
Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	smb
Chloride	ND	30	mg/Kg	20	11/20/2018 4:20:28 PM	41648
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst:	Irm
Diesel Range Organics (DRO)	46	9.7	mg/Kg	1	11/19/2018 3:11:23 PM	41566
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	11/19/2018 3:11:23 PM	41566
Surr: DNOP	98.7	50.6-138	%Rec	1	11/19/2018 3:11:23 PM	41566
EPA METHOD 8015D: GASOLINE RANG	E				Analyst:	RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	11/15/2018 6:11:04 PM	41539
Surr: BFB	99.2	73.8-119	%Rec	1	11/15/2018 6:11:04 PM	41539
EPA METHOD 8021B: VOLATILES					Analyst:	RAA
Benzene	ND	0.024	mg/Kg	1	11/15/2018 6:11:04 PM	41539
Toluene	ND	0.049	mg/Kg	1	11/15/2018 6:11:04 PM	41539
Ethylbenzene	ND	0.049	mg/Kg	1	11/15/2018 6:11:04 PM	41539
Xylenes, Total	ND	0.097	mg/Kg	1	11/15/2018 6:11:04 PM	41539
Surr: 4-Bromofluorobenzene	112	80-120	%Rec	1	11/15/2018 6:11:04 PM	41539

Qualifiers:	
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- * 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
- Analyte detected below quantitation limits Page 9 of 18 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

Lab Order 1811709

Date Reported: 11/26/2018

CLIENT: Souder, Miller and Associates	Client Sample ID: SC-10						
Project: PLU 41	Collection Date: 11/9/2018 10:42:00 AM						
Lab ID: 1811709-010	Matrix: SOIL	/14/2018 7:00:00 AM					
Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analys	t: smb	
Chloride	ND	30	mg/Kg	20	11/21/2018 11:24:09 A	M 41648	
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analys	t: Irm	
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	11/19/2018 3:35:54 PN	41566	
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	11/19/2018 3:35:54 PN	41566	
Surr: DNOP	94.8	50.6-138	%Rec	1	11/19/2018 3:35:54 PN	41566	
EPA METHOD 8015D: GASOLINE RANGE	E				Analys	t: RAA	
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	11/15/2018 6:34:27 PN	41539	
Surr: BFB	99.1	73.8-119	%Rec	1	11/15/2018 6:34:27 PN	41539	
EPA METHOD 8021B: VOLATILES					Analys	t: RAA	
Benzene	ND	0.025	mg/Kg	1	11/15/2018 6:34:27 PN	41539	
Toluene	ND	0.050	mg/Kg	1	11/15/2018 6:34:27 PN	41539	
Ethylbenzene	ND	0.050	mg/Kg	1	11/15/2018 6:34:27 PN	41539	
Xylenes, Total	ND	0.099	mg/Kg	1	11/15/2018 6:34:27 PN	41539	
Surr: 4-Bromofluorobenzene	112	80-120	%Rec	1	11/15/2018 6:34:27 PN	41539	

- * Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix D
- Н
- Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limit. Page 10 of 18 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

Analytical Report Lab Order 1811709

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 11/26/2018

CLIENT:	IENT: Souder, Miller and Associates Client Sample ID: SC-11							
Project:	PLU 41	Collection Date: 11/9/2018 10:44:00 AM						
Lab ID:	1811709-011	Matrix: SOIL	Received Date: 11/14/2018 7:00:00 AM					
Analyses	3	Result	PQL	Qual Units	DF	Date Analyzed	Batch	
EPA MET	THOD 300.0: ANIONS					Analyst:	smb	
Chloride	•	720	30	mg/Kg	20	11/21/2018 9:44:55 AM	41648	
EPA MET	THOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst:	Irm	
Diesel R	ange Organics (DRO)	ND	9.5	mg/Kg	1	11/19/2018 4:26:21 PM	41566	
Motor Oi	il Range Organics (MRO)	ND	47	mg/Kg	1	11/19/2018 4:26:21 PM	41566	
Surr: I	DNOP	95.6	50.6-138	%Rec	1	11/19/2018 4:26:21 PM	41566	
EPA MET	THOD 8015D: GASOLINE RANGE					Analyst:	RAA	
Gasoline	e Range Organics (GRO)	ND	4.8	mg/Kg	1	11/15/2018 6:57:55 PM	41539	
Surr: I	BFB	98.4	73.8-119	%Rec	1	11/15/2018 6:57:55 PM	41539	
EPA MET	THOD 8021B: VOLATILES					Analyst:	RAA	
Benzene	e	ND	0.024	mg/Kg	1	11/15/2018 6:57:55 PM	41539	
Toluene		ND	0.048	mg/Kg	1	11/15/2018 6:57:55 PM	41539	
Ethylben	nzene	ND	0.048	mg/Kg	1	11/15/2018 6:57:55 PM	41539	
Xylenes,	, Total	ND	0.095	mg/Kg	1	11/15/2018 6:57:55 PM	41539	
Surr: 4	4-Bromofluorobenzene	112	80-120	%Rec	1	11/15/2018 6:57:55 PM	41539	

Qualifiers:	
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- * 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
- Analyte detected below quantitation limits Page 11 of 18 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

11/15/2018 7:21:23 PM 41539

11/15/2018 7:21:23 PM 41539

11/15/2018 7:21:23 PM 41539

11/15/2018 7:21:23 PM 41539

Hall Environmental Analysis Laboratory, Inc.

Lab Order 1811709 Date Reported: 11/26/2018

CLIENT: Souder, Miller and Associates		Client Sample ID: SC-12						
Project: PLU 41		Collection Date: 11/9/2018 10:47:00 AM						
Lab ID: 1811709-012	Matrix: SOIL Received Date: 11/14/2018							
Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS					Analysi	: smb		
Chloride	1000	30	mg/Kg	20	11/21/2018 9:57:19 AN	41648		
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst	: Irm		
Diesel Range Organics (DRO)	31	9.8	mg/Kg	1	11/19/2018 4:50:48 PN	41566		
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	11/19/2018 4:50:48 PN	41566		
Surr: DNOP	106	50.6-138	%Rec	1	11/19/2018 4:50:48 PN	41566		
EPA METHOD 8015D: GASOLINE RAN	GE				Analyst	RAA		
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	11/15/2018 7:21:23 PN	41539		
Surr: BFB	99.9	73.8-119	%Rec	1	11/15/2018 7:21:23 PM	41539		
EPA METHOD 8021B: VOLATILES					Analyst	RAA		
Benzene	ND	0.024	mg/Kg	1	11/15/2018 7:21:23 PN	41539		

ND

ND

ND

114

0.049

0.049

0.097

80-120

mg/Kg

mg/Kg

mg/Kg

%Rec

1

1

1

1

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

Toluene

Ethylbenzene

Xylenes, Total

Surr: 4-Bromofluorobenzene

- Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н 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
- Analyte detected below quantitation limit Page 12 of 18 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

*

Project:

Lab ID:

CLIENT: Souder, Miller and Associates

PLU 41 1811709-013 **Analytical Report**

Hall Environmental Analysis Laboratory, Inc.

Lab Order 1811709 Date Reported: 11/26/2018

Client Sample ID: SC-13
Collection Date: 11/9/2018 10:50:00 AM
Received Date: 11/14/2018 7:00:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: smb
Chloride	530	30	mg/Kg	20	11/21/2018 10:09:44 A	VI 41648
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: Irm
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	11/19/2018 5:15:14 PN	41566
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	11/19/2018 5:15:14 PM	41566
Surr: DNOP	99.3	50.6-138	%Rec	1	11/19/2018 5:15:14 PM	41566
EPA METHOD 8015D: GASOLINE RANGE					Analyst	RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	11/15/2018 7:44:54 PN	41539
Surr: BFB	99.5	73.8-119	%Rec	1	11/15/2018 7:44:54 PM	41539
EPA METHOD 8021B: VOLATILES					Analyst	RAA
Benzene	ND	0.025	mg/Kg	1	11/15/2018 7:44:54 PN	41539
Toluene	ND	0.049	mg/Kg	1	11/15/2018 7:44:54 PN	41539
Ethylbenzene	ND	0.049	mg/Kg	1	11/15/2018 7:44:54 PM	41539
Xylenes, Total	ND	0.098	mg/Kg	1	11/15/2018 7:44:54 PM	41539
Surr: 4-Bromofluorobenzene	113	80-120	%Rec	1	11/15/2018 7:44:54 PM	41539

Matrix: SOIL

Qualifiers:	
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- * 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
- Analyte detected below quantitation limits Page 13 of 18 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

Project:

Lab ID:

CLIENT: Souder, Miller and Associates

PLU 41

1811709-014

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 1811709 Date Reported: 11/26/2018

	Client Sample ID: SC-14
	Collection Date: 11/9/2018 10:52:00 AM
Matrix: SOIL	Received Date: 11/14/2018 7:00:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	: smb
Chloride	260	30	mg/Kg	20	11/21/2018 10:22:07 A	M 41648
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analys	: Irm
Diesel Range Organics (DRO)	890	9.7	mg/Kg	1	11/19/2018 5:39:31 PM	41566
Motor Oil Range Organics (MRO)	770	48	mg/Kg	1	11/19/2018 5:39:31 PM	41566
Surr: DNOP	118	50.6-138	%Rec	1	11/19/2018 5:39:31 PM	41566
EPA METHOD 8015D: GASOLINE RANGE					Analys	: RAA
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	11/15/2018 8:08:08 PM	41539
Surr: BFB	97.9	73.8-119	%Rec	1	11/15/2018 8:08:08 PM	41539
EPA METHOD 8021B: VOLATILES					Analys	: RAA
Benzene	ND	0.024	mg/Kg	1	11/15/2018 8:08:08 PM	41539
Toluene	ND	0.048	mg/Kg	1	11/15/2018 8:08:08 PM	41539
Ethylbenzene	ND	0.048	mg/Kg	1	11/15/2018 8:08:08 PM	41539
Xylenes, Total	ND	0.096	mg/Kg	1	11/15/2018 8:08:08 PM	41539
Surr: 4-Bromofluorobenzene	111	80-120	%Rec	1	11/15/2018 8:08:08 PM	41539

- * 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
- Analyte detected below quantitation limits Page 14 of 18 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

Client:	Souder, N	Miller and Associa	ates							
Project:	PLU 41									
Sample ID	MB-41557	SampType: m l	blk	Test	tCode: EF	PA Method	300.0: Anion	5		
Client ID:	PBS	Batch ID: 41	557	R	unNo: 5	5668				
Prep Date:	11/15/2018	Analysis Date: 1	1/15/2018	S	eqNo: 18	855558	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-41557	SampType: Ic:	6	Test	tCode: EF	PA Method	300.0: Anion	S		
Client ID:	LCSS	Batch ID: 41	557	R	unNo: 5	5668				
Prep Date:	11/15/2018	Analysis Date: 1	1/15/2018	S	eqNo: 18	855559	Units: mg/K	g		
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		15 1.5	15.00	0	97.3	90	110			
Sample ID	MB-41648	SampType: MI	BLK	Test	tCode: EF	PA Method	300.0: Anion	s		
Client ID:	PBS	Batch ID: 41	648	R	unNo: 5	5776				
Prep Date:	11/20/2018	Analysis Date: 1	1/20/2018	S	eqNo: 18	860349	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-41648	SampType: LC	s	Test	tCode: EF	PA Method	300.0: Anion	s		
Client ID:	LCSS	Batch ID: 41	648	R	unNo: 5	5776				
Prep Date:	11/20/2018	Analysis Date: 1	1/20/2018	s	eqNo: 18	860350	Units: mg/K	g		
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		15 1.5	15.00	0	97.4	90	110			•

Qualifiers:

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

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WO#:

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Client:	Souder, Miller	and Ass	ocia	ites								
Project:	PLU 41											
Sample ID LCS-41	5 66 S	ampType	: LC	s	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics		
Client ID: LCSS Batch ID: 415			566	6 RunNo: 55741								
Prep Date: 11/15/2	2018 Anal	ysis Date	: 1′	1/19/2018	S	SeqNo: 1	857750	Units: mg/k	٢g			
Analyte	Res	sult P	QL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (D	RO)	45	10	50.00	0	89.3	70	130				
Surr: DNOP		4.2		5.000		84.9	50.6	138				
Sample ID MB-415	66 S	ampType	: ME	BLK	TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS		Batch ID	41	566	R	anNo: 5	5741					
Prep Date: 11/15/2	2018 Anal	ysis Date	: 1′	1/19/2018	S	SeqNo: 1	857751	Units: mg/	٢g			
Analyte	Res	sult P	QL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (D	RO)	ND	10									
Motor Oil Range Organics	(MRO)	ND	50									
Surr: DNOP		8.6		10.00		85.6	50.6	138				

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 Detection Limit
- W Sample container temperature is out of limit as specified

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26-Nov-18

WO#:

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Client:	Souder, N	filler and	Associa	ites								
Project:	PLU 41											
Sample ID LCS	-41539	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e		
Client ID: LCS	LCSS Batch ID: 41539				F	RunNo: 55658						
Prep Date: 11/	14/2018	Analysis D	ate: 1	1/15/2018	S	SeqNo: 1	853982	Units: mg/k	٤g			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Orga	inics (GRO)	26	5.0	25.00	0	104	80.1	123				
Surr: BFB		1100		1000		106	73.8	119				
Sample ID MB-4	41539	SampT	ype: ME	BLK	Tes	tCode: El	e					
Client ID: PBS		Batch	n ID: 41	539	F	anNo: 5	5658					
Prep Date: 11/	14/2018	Analysis D	ate: 1'	1/15/2018	5	SeqNo: 1	854519	Units: mg/H	ζg			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Orga	inics (GRO)	ND	5.0									
Surr: BFB		950		1000		95.0	73.8	119				

Qualifiers:

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- D Sample Diluted Due to Matrix
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- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

1811709

26-Nov-18

WO#:

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Client:	Souder, N	Miller and	Associa	ates										
Project:	PLU 41													
Sample ID	LCS-41539	Samp	Гуре: LC	s	Tes	tCode: E	PA Method	8021B: Vola	tiles					
Client ID:	LCSS	Batc	h ID: 41	539	F	RunNo: 5	5658							
Prep Date:	11/14/2018	Analysis [Date: 1	1/15/2018	S	853984	Units: mg/ł	Jnits: mg/Kg						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Benzene		0.90	0.025	1.000	0	89.8	80	120						
Toluene		0.94	0.050	1.000	0	94.0	80	120						
Ethylbenzene		0.94	0.050	1.000	0	93.7	80	120						
Xylenes, Total		2.9	0.10	3.000	0	95.5	80	120						
Surr: 4-Bron	nofluorobenzene	1.1		1.000		110	80	120						
Sample ID	MB-41539	3-41539 SampType: MBLK					TestCode: EPA Method 8021B: Volatiles							
Client ID:	PBS	Batc	h ID: 41	539	F	RunNo: 55658								
Prep Date:	11/14/2018	Analysis [Date: 11	1/15/2018	S	SeqNo: 1	854521	Units: mg/ł	٢g					
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Benzene		ND	0.025											
Toluene		ND	0.050											
Ethylbenzene		ND	0.050											
Xylenes, Total		ND	0.10											
Surr: 4-Bron	nofluorobenzene	1.1		1.000		108	80	120						
Sample ID	1811709-001AMS	Samp	Гуре: М	6	Tes	tCode: E	PA Method	8021B: Vola	tiles					
Client ID:	SC-1	Batc	h ID: 41	539	F	RunNo: 5								
Prep Date:	11/14/2018	Analysis [Date: 1	1/15/2018	5	SeqNo: 1	855354	Units: mg/Kg						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Benzene		0.89	0.024	0.9434	0	94.8	68.5	133						
Toluene		0.94	0.047	0.9434	0.01064	98.8	75	130						
Ethylbenzene		0.96	0.047	0.9434	0	102	79.4	128						
Xylenes, Total		2.9	0.094	2.830	0	103	77.3	131						
Surr: 4-Bron	nofluorobenzene	1.1		0.9434		116	80	120						
Sample ID	1811709-001AMS	D Samp	Гуре: М	SD	Tes	tCode: E	PA Method	8021B: Vola	tiles					
Client ID:	SC-1	Batc	h ID: 41	539	F	RunNo: 5	5658							
Prep Date:	11/14/2018	Analysis [Date: 1	1/15/2018	S	SeqNo: 1	855355	Units: mg/ł	٢g					
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Benzene		0.89	0.024	0.9461	0	93.9	68.5	133	0.596	20				
Toluene		0.93	0.047	0.9461	0.01064	97.3	75	130	1.28	20				
Ethylbenzene		0.95	0.047	0.9461	0	101	79.4	128	0.567	20				
Xylenes, Total		2.9	0.095	2.838	0	103	77.3	131	0.0109	20				
Surr: 4-Bron	nofluorobenzene	1.1		0.9461		115	80	120	0	0				

Qualifiers:

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- J Analyte detected below quantitation limits
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- RL Reporting Detection Limit
 - V Sample container temperature is out of limit as specified

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WO#: 1811709 26-Nov-18

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HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environmental Anal 49 Albuquer TEL: 505-345-3975 FAX Website: www.hallenv	vsis Laboratory 01 Hawkins NE que, NM 87109 : 505-345-4107 ironmental.com	San	nple Log-In Check Lis	Page 94 : t
Client Name: SMA-FARM	Work Order Number: 181	1709		RcptNo: 1	
Received By: Anne Thorne 1: Completed By: Anne Thorne 1:	I/14/2018 7:00:00 AM I/14/2018 10:45:44 AM	C	Anne H-	~	
Reviewed By: ENM 11 Labeled by: DAD 11/14/18	/14/18	2	lane Nr	~	
Chain of Custody					
1. Is Chain of Custody complete?	Yes		No 🗋	Not Present	
2. How was the sample delivered?	Cou	<u>irier</u>			
Log In 3. Was an attempt made to cool the samples?	Yes		No 🗌	na 🗀	
4. Were all samples received at a temperature of >	≥0° C to 6.0°C Yes		No 🗌	NA 🗌	
5. Sample(s) in proper container(s)?	Yes		No		
6. Sufficient sample volume for indicated test(s)?	Yes		No 🗌		
$7, \ \mbox{Are samples}$ (except VOA and ONG) properly pr	eserved? Yes		No 🗌		
8. Was preservative added to bottles?	Yes		No 🗹	NA 🗌	
9. VOA vials have zero headspace?	Yes		No 🗌	No VOA Vials 🗹	
10. Were any sample containers received broken?	Yes	<u>,</u> ,	No 🗹	# of preserved	
 Does paperwork match bottle labels? (Note discrepancies on chain of custody) 	Yes		No 🗆	for pH: (<2 or 212 unless note	ed)
12. Are matrices correctly identified on Chain of Cust	tody? 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 11/14/	18
Special Handling (if applicable)					
15. Was client notified of all discrepancies with this	order? Yes		No 🗋	NA 🔽	
Person Notified:	Date				
By Whom:	Via: 🗌 eM	ail 🗌 Phone	🗌 Fax	In Person	
Regarding: Client Instructions:					
16. Additional remarks: $\#Samples M$ aul to lab entron. 17. <u>Cooler Information</u> <u>Cooler No Temp °C Condition Seal In</u> 1 1.1 Good Yes	Here open p OP 11/14/1 Itact Seal No Seal D	277 10-1 8 ate Sign	to la ed By	b extnaction	

Page 1 of 1

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HALL EN ANALYS www.hallenvir Hawkins NE - Albu	505-345-3975 Fa Analys	(SMIS 07 29 (1.8) (1.9) (1.4) (1.8) (1.8)	PH 8075B H4 PH (Method 41 2DB (Method 50 2DB (8310 or 8 2PH's (8310 or 8 2PH's (8310 or 8 2PH's (8310 or 8 2PH's (8310 or 8 2PH 2 2PH 2 2P		×			2 of 2 .	ADU UNY IN CHI (2014 CX4VOCHI (y sub-contracted data will be o
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Turn-Around T 以 Standard Project Name: アル		Project Manag	Sample Temp Container Type and #	20 h-1	そっト ー			Repeived by:	Intracted to other acc
stody Record	IOHLS WN 1	ire · Lind s & Souder Miter er	Sample Request ID	56-13	SC-14			deri Ales and the	utiled to Hall Environmental may be subcc
of-Cu	-325-7	stepicar	Matrix	Uos	Soil			Relinquishe Hey Relinquishe	amples subm
SM A	#: 505.	r Fax#: 5 Package: dard tation AP	(Type) Time	10:520	10:52			Time: 1458 Time:	ITSU Inecessary, b
Wailing Released to Imaging:	Fenore 5/6/202	□ NEL	Date Date	1.9.18	11-9-18			Date: 13)(5)	<u>13 18</u>

Released to Imaging: 5/6/2025 10:30:19 AM



December 18, 2018 Stephanie Hinds Souder, Miller and Associates 401 W. Broadway Farmington, NM 87401 TEL: (505) 325-5667 FAX (505) 327-1496

RE: PLU 41

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

OrderNo.: 1812719

Dear Stephanie Hinds:

Hall Environmental Analysis Laboratory received 9 sample(s) on 12/12/2018 for the analyses presented in the following report.

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

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

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Hall Environmental Analysis		Analytical Report Lab Order 1812719							
Han Environmental Analysis	Date Reported: 12/18/2018								
CLIENT: Souder, Miller and Associates		Client	t Sample II	D: SC	C-1				
Project: PLU 41	Collection Date: 12/6/2018 11:20:00 AM								
Lab ID: 1812719-001	Matrix: SOIL	Re	ceived Dat	e: 12	/12/2018 8:40:00 AM	[
Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch			
EPA METHOD 300.0: ANIONS					Analys	st: smb			
Chloride	ND	30	mg/Kg	20	12/17/2018 8:42:34 PM	M 42155			

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 12
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Surr: BFB

Analytical Report

12/14/2018 1:13:08 PM 42100

Lab Order 1812719 Date Reported: 12/18/2018

CLIENT:	Souder, Miller and Associates	Client Sample ID: SC-2										
Project:	PLU 41		Collection Date: 12/6/2018 11:24:00 AM									
Lab ID:	1812719-002	Received Dat	e: 12	/12/2018 8:40:00 AM								
Analyses		Result	PQL	Qual Units	DF	Date Analyzed	Batch					
EPA MET	HOD 300.0: ANIONS					Analys	t: smb					
Chloride		ND	30	mg/Kg	20	12/17/2018 9:19:48 PM	1 42155					
EPA MET	HOD 8015M/D: DIESEL RANGE	ORGANICS				Analys	t: TOM					
Diesel R	ange Organics (DRO)	ND	9.5	mg/Kg	1	12/17/2018 12:01:35 P	M 42113					
Motor Oi	I Range Organics (MRO)	ND	47	mg/Kg	1	12/17/2018 12:01:35 P	M 42113					
Surr: [DNOP	81.0	50.6-138	%Rec	1	12/17/2018 12:01:35 P	M 42113					
EPA MET	HOD 8015D: GASOLINE RANG	E				Analys	t: NSB					
Gasoline	Range Organics (GRO)	ND	4.7	ma/Ka	1	12/14/2018 1:13:08 PM	42100					

97.6

73.8-119

%Rec

1

Qualifiers:	*	Value exceeds Maximum Contaminant Level.
	D	(1, 1)

- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded Н
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 2 of 12 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

Hall Environmental Analysis	Laboratory,	Inc.			Analytical Report Lab Order 1812719 Date Reported: 12/18/2018			
CLIENT: Souder, Miller and Associates Project: PLU 41 Lab ID: 1812719-003	Client Sample ID: SC-3 Collection Date: 12/6/2018 11:30:00 AM Matrix: SOIL Received Date: 12/12/2018 8:40:00 AM							
Analyses	Result	PQL	Qual Units	DF	Date Analyzed Batch			
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: TOM			
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	12/17/2018 12:25:57 PM 42113			
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	12/17/2018 12:25:57 PM 42113			
Surr: DNOP	78.9	50.6-138	%Rec	1	12/17/2018 12:25:57 PM 42113			
EPA METHOD 8015D: GASOLINE RANG	E				Analyst: NSB			
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	12/14/2018 1:36:37 PM 42100			
Surr: BFB	95.6	73.8-119	%Rec	1	12/14/2018 1:36:37 PM 42100			

Qualifiers: *	Value exceeds Maximum	Contaminant Level.
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- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 3 of 12
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Anal	ysis Laboratory,	Inc.			Analytical Report Lab Order 1812719 Date Reported: 12/18/2	018	
CLIENT: Souder, Miller and Associa	ates	Cli	ent Sample II	D: S(C-4		
Project: PLU 41		Collection Date: 12/6/2018 11:50:00 AM					
Lab ID: 1812719-004	Matrix: SOIL	e: 12	12/12/2018 8:40:00 AM				
Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch	
EPA METHOD 8015M/D: DIESEL RA	ANGE ORGANICS				Analyst	t: TOM	
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	12/17/2018 12:50:18 Pi	M 42113	
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	12/17/2018 12:50:18 P	M 42113	
Surr: DNOP	89.7	50.6-138	%Rec	1	12/17/2018 12:50:18 P	M 42113	
EPA METHOD 8015D: GASOLINE R	ANGE				Analyst	:: NSB	
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	12/14/2018 1:59:55 PM	l 42100	
Surr: BFB	99.5	73.8-119	%Rec	1	12/14/2018 1:59:55 PM	1 42100	

Qualifiers:	*	Value exceeds Maximum Contaminant Level.
	_	

- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 4 of 12
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analys	is Laboratory,	Inc.			Analytical Report Lab Order 1812719 Date Reported: 12/18/2	2018	
CLIENT: Souder, Miller and Associates	5	Cli	ent Sample II): S(C-6		
Project: PLU 41		Collection Date: 12/6/2018 12:29:00 PM					
Lab ID: 1812719-005	Matrix: SOIL		Received Date	ceived Date: 12/12/2018 8:40:00 AM			
Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch	
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS				Analys	t: TOM	
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	12/17/2018 1:14:50 PM	/ 42113	
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	12/17/2018 1:14:50 PM	/ 42113	
Surr: DNOP	85.3	50.6-138	%Rec	1	12/17/2018 1:14:50 PM	/ 42113	
EPA METHOD 8015D: GASOLINE RAM	IGE				Analys	t: NSB	
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	12/14/2018 2:23:22 PM	/ 42100	
Surr: BFB	99.8	73.8-119	%Rec	1	12/14/2018 2:23:22 PM	/ 42100	

Qualifiers: *	Value exceeds Maximum	Contaminant Level.
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- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 5 of 12
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis	Laboratory. I	nc.			Analytical Report Lab Order 1812719 Date Reported: 12/18/	2018
CLIENT: Souder, Miller and Associates Project: PLU 41		Client	Sample I ection Dat	D: SC e: 12/	2-7 /6/2018 1:04:00 PM	
Lab ID: 1812719-006	Matrix: SOIL	Re	ceived Dat	e: 12/	/12/2018 8:40:00 AM	[
Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	st: smb
Chloride	ND	30	mg/Kg	20	12/17/2018 9:32:13 P	M 42155

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 6 of 12
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis	Laboratory, I	nc.			Analytical Report Lab Order 1812719 Date Reported: 12/18/2	2018
CLIENT: Souder, Miller and Associates		Client	t Sample II	D: SC	-11 ///////////////////////////////////	
Lab ID: 1812719-007	ceived Dat	e: 12/	/12/2018 10:48:00 AM			
Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: smb
Chloride	ND	30	mg/Kg	20	12/17/2018 9:44:37 PM	A 42155

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 7 of 12
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis	Laboratory, l	Inc.			Analytical Report Lab Order 1812719 Date Reported: 12/18/2	2018
CLIENT: Souder, Miller and Associates		Client	Sample I	D: SC	C-12	
Project: PLU 41	Collection Date: 12/6/2018 10:40:00 AM					
Lab ID: 1812719-008	Matrix: SOIL Received			. Date: 12/12/2018 8:40:00 AM		
Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	st: smb
Chloride	1100	30	mg/Kg	20	12/17/2018 9:57:02 PI	M 42155

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- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 8 of 12
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis		Analytical Report Lab Order 1812719 Date Reported: 12/18/2018						
CLIENT: Souder, Miller and Associates	Client Sample ID: SC-14							
Project: PLU 41	Collection Date: 12/6/2018 12:58:00 PM							
Lab ID: 1812719-009	Matrix: SOIL Received Date: 12/12/2018 8:40:00 AM							
Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch		
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analysi	: TOM		
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	12/17/2018 1:39:07 PN	42113		
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	12/17/2018 1:39:07 PN	42113		
Surr: DNOP	84.4	50.6-138	%Rec	1	12/17/2018 1:39:07 PM	42113		
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst	: NSB		
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	12/14/2018 2:47:01 PN	42100		
Surr: BFB	97.4	73.8-119	%Rec	1	12/14/2018 2:47:01 PM	42100		

Qualifiers: *	Value exceeds Maximum	Contaminant Level.
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- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 9 of 12
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Client: Proiect:	Souder, N PLU 41	Ailler and Asso	ociates						
Sample ID	MB-42155	SampType: MBLK TestCode: EPA Method 300.0: Anions							
Prep Date:	12/17/2018	Analysis Date:	42155 12/17/2018	Se	eqNo: 1886027	Units: mg/Kg			
Analyte Chloride		Result PC ND	QL SPK value 1.5	SPK Ref Val	%REC LowLimit	HighLimit %RPD	RPDLimit	Qual	
Sample ID	LCS-42155	S-42155 SampType: LCS TestCode: EPA Method 300.0: Anions							
Client ID:	LCSS	Batch ID:	42155	RunNo: 56385					
Prep Date:	12/17/2018	Analysis Date:	12/17/2018	Se	eqNo: 1886028	Units: mg/Kg			
Analyte		Result PC	QL SPK value	SPK Ref Val	%REC LowLimit	HighLimit %RPD	RPDLimit	Qual	
Chloride		14	1.5 15.00	0	93.6 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 Detection Limit
- W Sample container temperature is out of limit as specified

1812719

18-Dec-18

WO#:

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Client:	Souder, N	Ailler and	Associa	ites							
Project:	PLU 41										
Sample ID LCS-4	2113	3 SampType: LCS				TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID: LCSS		Batch ID: 42113			RunNo: 56382						
Prep Date: 12/1	4/2018	Analysis D	ate: 12	2/17/2018	SeqNo: 1885014 Units: mg/Kg						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics	(DRO)	46	10	50.00	0	92.2	70	130			
Surr: DNOP		4.6		5.000		92.8	50.6	138			
Sample ID MB-42	2113	SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics									
Client ID: PBS		Batch	n ID: 42	113	13 RunNo: 56382						
Prep Date: 12/1	4/2018	Analysis D	ate: 12	2/17/2018	SeqNo: 1885015			Units: mg/Kg			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics	(DRO)	ND	10								
Motor Oil Range Organ	ics (MRO)	ND	50								
Surr: DNOP		9.6		10.00		95.5	50.6	138			

Qualifiers:

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

1812719

18-Dec-18

WO#:

Page 11 of 12
QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client:	Souder, N	Ailler and Ass	ociates							
Project:	PLU 41									
Sample ID	MB-42100	SampType	MBLK	Test	tCode: EP	A Method	8015D: Gasol	ine Rang	e	
Client ID:	PBS	Batch ID	42100	R	unNo: 563	353				
Prep Date:	12/13/2018	Analysis Date	12/14/2018	S	SeqNo: 188	84432	Units: mg/Kg)		
Analyte		Result P	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	je Organics (GRO)	ND	5.0							
Surr: BFB		920	1000		92.0	73.8	119			
Sample ID	LCS-42100	SampType	LCS	Test	tCode: EP	A Method	8015D: Gasol	ine Rang	e	
Client ID:	LCSS	Batch ID	42100	R	unNo: 56:	353				
Prep Date:	12/13/2018	Analysis Date	12/14/2018	S	SeqNo: 188	84434	Units: mg/Kg)		
Analyte		Result P	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	je Organics (GRO)	25	5.0 25.00	0	98.2	80.1	123			
Surr: BFB		1100	1000		106	73.8	119			
Sample ID	MB-42099	SampType	MBLK	Test	tCode: EP	A Method	8015D: Gasol	ine Rang	e	
Client ID:	PBS	Batch ID	42099	R	unNo: 563	353				
Prep Date:	12/13/2018	Analysis Date	12/14/2018	S	eqNo: 188	84458	Units: %Rec			
Analyte		Result P	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		950	1000		95.2	73.8	119			
Sample ID	LCS-42099	SampType	LCS	Test	tCode: EP	A Method	8015D: Gasol	ine Rang	e	
Client ID:	LCSS	Batch ID	42099	R	unNo: 56:	353				
Prep Date:	12/13/2018	Analysis Date	12/14/2018	S	SeqNo: 188	84460	Units: %Rec			
Analyte		Result P	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		1100	1000		107	73.8	119			

Qualifiers:

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

1812719

18-Dec-18

WO#:

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Page	110	of 119	9
1 uge	110	U II.	·

ANALYSIS LABORATORY	Hall Environme TEL: 505-345- Website: ww	ental Analysis Labo. 4901 Hawki Albuquerque, NM 3975 FAX: 505-345 w.hallenvironmenta	ratory ins NE 87109 Sar 1-4107 al.com	nple Log-In Check List
Client Name: SMA-FARM	Work Order Nur	iber: 1812719		RcptNo: 1
Received By: Victoria Zellar	12/12/2018 8:40:0	0 AM	Victoria) Ge	llan
Completed By: Erin Melendrez Reviewed By: JU 12/13/18	12/13/2018 8:21:1	6 AM	MA	
Chain of Custody				
1 is Chain of Custody complete?				Net Broomt 🗂
2 How was the sample delivered?				
		<u>oouner</u>		
Log In 3. Was an attempt made to cool the samples?		Yes 🔽	No 🗌	NA []
4. Were all samples received at a temperature of	of >0° C to 6.0°C	Yes 🔽	No 🗌	NA 🗋
5. Sample(s) in proper container(s)?		Yes 🔽	No 🗌	
6. Sufficient sample volume for indicated test(s)	?	Yes 🔽	No 🗌	
7. Are samples (except VOA and ONG) properly	preserved?	Yes 🗹	No 🗌	
8. Was preservative added to bottles?		Yes	No 🗹	NA 🗌
9. VOA vials have zero headspace?	·	Yes 🗌	No 🗔	No VOA Vials 🗹 ,
10. Were any sample containers received broken	?	Yes	No 🗹	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🗹	No 🗌	# of preserved bottles checked for pH:
12. Are matrices correctly identified on Chain of C	ustodv?	Yes 🖌	No 🗔	Adjusted?
13. Is it clear what analyses were requested?	2	Yes 🗹	No 🗌	
14. Were all holding times able to be met? (If no, notify customer for authorization)		Yes 🗹	No 🗆	Cheeked by: DAD 12/13/18
Special Handling (if applicable)				
15. Was client notified of all discrepancies with the	is order?	Yes	No 🗌	
Person Notified:	Date			
By Whom:	Via:	I ∏eMail ∏ F	Phone 🗔 Fax	
Regarding:				
Client Instructions:		·		
16. Additional remarks:				
17. Cooler Information				
Cooler No. Temp °C Condition Sea	al Intact Seal No	Seal Date	Signed By	
1 2.8 Good Yes		30.W		

Page 1 of 1

Received by OCD: 2/11/2025 2:28:51 PM

Recei	ved by	y OC	C D: 2	/11/.	2025	2:2	? 8:5 .	1 PN	M						<u> </u>										Pa	ige 111 d	of 119
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Turn-Around	K Standar	P ^r oject Nam	PLI	Project #:	56267	Project Man	, ,	Step	Sampler: 5	On Ice:	# of Coolers	Cooler Tem	Container Type and #	zoh (1)								ſ			Receivedby:	Received by	VV/AU IAA
ustody Record			W. Broad way	let to My 141	7535	nic.hinds @ Souder	miller. com	Level 4 (Full Validation)	ompliance				Sample Name	56-1	56-2	56-3	۶۵- ۲	7-75	56-7	56-11	<u>کر-12</u>	Sc-14	-		red by: Kennichled	hed by:	bmitted to Hall Environmental may be subc
-of-CI			1 104 :	Farmer	- 325 -	Stepha	+		□ Az Ct				Matrix)،مر								5			Relinquish	Relinquish	samples
hain	SMA		Address		#: 50S.	r Fax#:	Package:	Idard	itation:	AC	(Type)		Time	11.20	11:24	11:30	11:50	(1:29	13:04	84:01	04:01	12:58			Time:	Time:	If necessary,
0	Client:		Mailing		Phone	email o	QA/QC	🕅 Stan	Accred				Date	8-7-21								∢			Date:	Date:	

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

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

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QUESTIONS

Action 430897

QUESTIONS				
Operator:	OGRID:			
XTO ENERGY, INC	5380			
6401 Holiday Hill Road	Action Number:			
Midland, TX 79707	430897			
	Action Type:			
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)			

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1832354684
Incident Name	NAB1832354684 POKER LAKE UNIT #41 @ 30-015-20933
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-015-20933] POKER LAKE UNIT #041

Location of Release Source

Please	answer all t	the questions in th	is group.	

Surface Owner	Federal
Date Release Discovered	10/27/2018
Site Name	POKER LAKE UNIT #41

Incident Details

Diagon answer all the superiors in this group							
riedse answer an me questions in uns group.							
Incident Type	Produced Water Release						
Did this release result in a fire or is the result of a fire	No						
Did this release result in any injuries	No						
Has this release reached or does it have a reasonable probability of reaching a watercourse	No						
Has this release endangered or does it have a reasonable probability of endangering public health	No						
Has this release substantially damaged or will it substantially damage property or the environment	No						
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No						

Nature and Volume of Release

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.						
Crude Oil Released (bbls) Details	Cause: Equipment Failure Other (Specify) Crude Oil Released: 0 BBL Recovered: 0 BBL Lost: 0 BBL.					
Produced Water Released (bbls) Details	Cause: Equipment Failure Other (Specify) Produced Water Released: 5 BBL Recovered: 4 BBL Lost: 1 BBL.					
Is the concentration of chloride in the produced water >10,000 mg/l	No					
Condensate Released (bbls) Details	Not answered.					
Natural Gas Vented (Mcf) Details	Not answered.					
Natural Gas Flared (Mcf) Details	Not answered.					
Other Released Details	Not answered.					
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.					

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QUESTIONS	(continued)
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Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	430897
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)		
Is this a gas only submission (i.e. only significant Mcf values reported)	More info needed to determine if this will be treated as a "gas only" report.	
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No	
Reasons why this would be considered a submission for a notification of a major release	Unavailable.	
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.		

Initial Response		
The responsible party must undertake the following actions immediately unless they could create a s	afety hazard that would result in injury.	
The source of the release has been stopped	True	
The impacted area has been secured to protect human health and the environment	True	
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True	
All free liquids and recoverable materials have been removed and managed appropriately	True	
If all the actions described above have not been undertaken, explain why	Not answered.	
Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.		
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.		
I hereby agree and sign off to the above statement	Name: Colton Brown Title: Environmental Advisor Email: colton.s.brown@exxonmobil.com Date: 02/11/2025	

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QUESTIONS (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	430897
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). 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 in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release an	nd the following surface areas:
A continuously flowing watercourse or any other significant watercourse	Between 1000 (ft.) and ½ (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 300 and 500 (ft.)
Any other fresh water well or spring	Between 500 and 1000 (ft.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Between ½ and 1 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.			
Requesting a remediation	plan approval with this submission	Yes	
Attach a comprehensive report de	monstrating the lateral and vertical extents of soil contamination	associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertica	l extents of contamination been fully delineated	Yes	
Was this release entirely co	ontained within a lined containment area	No	
Soil Contamination Sampling	: (Provide the highest observable value for each, in mil	ligrams per kilograms.)	
Chloride	(EPA 300.0 or SM4500 CI B)	560	
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	46	
GRO+DRO	(EPA SW-846 Method 8015M)	46	
BTEX	(EPA SW-846 Method 8021B or 8260B)	0	
Benzene	(EPA SW-846 Method 8021B or 8260B)	0	
Per Subsection B of 19.15.29.11 N which includes the anticipated tim	IMAC unless the site characterization report includes completed elines for beginning and completing the remediation.	efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,	
On what estimated date wi	II the remediation commence	11/09/2018	
On what date will (or did) the	ne final sampling or liner inspection occur	11/21/2024	
On what date will (or was)	the remediation complete(d)	11/21/2024	
What is the estimated surfa	ace area (in square feet) that will be reclaimed	1000	
What is the estimated volue	ne (in cubic yards) that will be reclaimed	500	
What is the estimated surfa	ace area (in square feet) that will be remediated	1000	
What is the estimated volue	ne (in cubic yards) that will be remediated	500	
These estimated dates and measu	rements are recognized to be the best guess or calculation at the	time of submission and may (be) change(d) over time as more remediation efforts are completed.	

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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Action 430897

QUESTIONS (continued)		
Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380	
	Action Number: 430897	
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)	
QUESTIONS		

Remediation Plan (continued)

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.			
This remediation will (or is expected to) utilize the following processes to remediate	/ reduce contaminants:		
(Select all answers below that apply.)			
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes		
Which OCD approved facility will be used for off-site disposal	HALFWAY DISPOSAL AND LANDFILL [FEEM0112334510]		
OR which OCD approved well (API) will be used for off-site disposal	Not answered.		
OR is the off-site disposal site, to be used, out-of-state	Not answered.		
OR is the off-site disposal site, to be used, an NMED facility	Not answered.		
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.		
(In Situ) Soil Vapor Extraction	Not answered.		
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.		
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.		
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.		
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.		
OTHER (Non-listed remedial process)	Not answered.		
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed ef which includes the anticipated timelines for beginning and completing the remediation.	forts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,		
I hereby certify that the information given above is true and complete to the best of my k to report and/or file certain release notifications and perform corrective actions for relea the OCD does not relieve the operator of liability should their operations have failed to a water, human health or the environment. In addition, OCD acceptance of a C-141 report local laws and/or regulations.	nowledge and understand that pursuant to OCD rules and regulations all operators are required uses which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or		
I hereby agree and sign off to the above statement	Name: Colton Brown Title: Environmental Advisor		

Email: colton.s.brown@exxonmobil.com

Date: 02/11/2025

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to

significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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Action 430897

QUESTIONS (continued)		
Operator:	OGRID:	
XTO ENERGY, INC	5380	
6401 Holiday Hill Road	Action Number:	
Midland, TX 79707	430897	
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

Deferral Requests Only		
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.		
Requesting a deferral of the remediation closure due date with the approval of this submission	No	

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QUESTIONS (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
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	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information		
Last sampling notification (C-141N) recorded	391733	
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/16/2024	
What was the (estimated) number of samples that were to be gathered	10	
What was the sampling surface area in square feet	2000	

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.		
Requesting a remediation closure approval with this submission	Yes	
Have the lateral and vertical extents of contamination been fully delineated	Yes	
Was this release entirely contained within a lined containment area	No	
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes	
What was the total surface area (in square feet) remediated	1000	
What was the total volume (cubic yards) remediated	500	
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes	
What was the total surface area (in square feet) reclaimed	1000	
What was the total volume (in cubic yards) reclaimed	500	
Summarize any additional remediation activities not included by answers (above)	"Excavation activities were conducted at the Site to address the impacted soil resulting from the October 27, 2018, crude oil and produced water release from the well head. Laboratory analytical results for the excavation soil samples, collected from the final excavation extent, indicated all COCs were compliant with the Site Closure Criteria and reclamation requirements. Based on the soil sample analytical results, no further remediation is required. Initial response efforts, natural attenuation, and excavation of impacted soil have mitigated impacts at this Site. XTO believes the remedial actions completed are protective of human health, the environment, and groundwater. As such, XTO respectfully requests closure for Incident Number NAB1832354684."	
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 (in .pdf format) 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.		
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.		

I hereby agree and sign off to the above statement	Name: Colton Brown Title: Environmental Advisor Email: colton.s.brown@exxonmobil.com Date: 02/11/2025
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QUESTIONS (continued)		
Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380	
	Action Number: 430897	
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)	
OUESTIONS		

Reclamation Report

Only answer the questions in this group if all reclamation steps have been completed.				
Requesting a reclamation approval with this submission	No			

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CONDITIONS

Action 430897

 CONDITIONS

 Operator:
 XTO ENERGY, INC
 5380

 6401 Holiday Hill Road
 Action Number:
 430897

 Midland, TX 79707
 Action Type:
 [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

 Created By
 Condition
 Condition

 Thamlet
 We have received your Remediation Closure Report for Incident #NAB1832354684 POKER LAKE UNIT #41, thank you. This Remediation Closure Report is approved.
 5/6/2025