

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

State of New Mexico
Energy Minerals and Natural
Resources Department

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

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

Incident ID	NRM2022148950
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>150</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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.

Oil Conservation Division

Incident ID	NRM2022148950
District RP	
Facility ID	
Application ID	

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

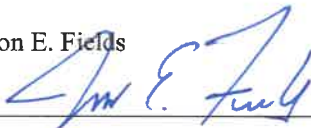
- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☐ Field data (Not applicable - summarized in pictures and tables)
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within 1/2-mile of the lateral extents of the release
- ☐ Boring or excavation logs (Not applicable)
- ☒ 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.

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: Jon E. Fields

Title: Director, Field Environmental

Signature: 

Date: 10/5/2020

email: jefields@eprod.com

Telephone: 713-381-6684

OCD Only

Received by: Cristina Eads

Date: 10/06/2020

Oil Conservation Division

Incident ID	NRM2022148950
District RP	
Facility ID	
Application ID	

Closure

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

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

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Jon E. Fields

Title: Director, Field Environmental

Signature: 

Date: 10/5/2020

email: jefields@eprod.com

Telephone: 713-381-6684

OCD Only

Received by: Cristina Eads

Date: 10/06/2020

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: 

Date: 12/04/2020

Printed Name: Cristina Eads

Title: Environmental Specialist



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

September 25, 2020

#5E28981-BG7

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

SUBJECT: Remediation Closure Report for the Poker Lake Discharge Pipeline Release, Eddy County, New Mexico

To Whom it May Concern:

On behalf of Enterprise Field Services, Souder, Miller & Associates (SMA) has prepared this Remediation Closure Report that describes the remediation of a release of liquids related to oil and gas production activities at the Poker Lake Discharge Release site. The site is in Unit O, Section 19, Township 24S, Range 30E, Eddy County, New Mexico, on Federal land. Figure 1 illustrates the vicinity and site location on an USGS 7.5 minute quadrangle map. Based on the data presented in this report, SMA recommends no further action and that the released associated with the Poker Lake Discharge pipeline be closed.

Table 1: Release Information and Closure Criteria

Name	Poker Lake Discharge Pipeline	Company	Enterprise Field Services LLC
API Number	N/A	Location	32.196687, -103.916584
Incident Number	N/A		
Estimated Date of Release	7/30/2020	Date Reported to NMOCD	8/6/2020
Land Owner	Federal	Reported To	NMOCD, BLM
Source of Release	Pipeline internal corrosion		
Released Volume	227.81MCF 2BBLS	Released Material	Natural Gas Pipeline Liquids
Recovered Volume	0MCF 0BBLS	Net Release	227.81 MCF 2BBLS
NMOCD Closure Criteria	>100 feet to groundwater		
SMA Response Dates	8/11/2020, 8/26/2020		

1.0 Background

On July 30, 2020, a release was discovered at the Poker Lake Discharge release site due to internal corrosion within a buried pipeline. Initial response activities were conducted by Enterprise personnel, and included source elimination and site containment activities. Figure 1 illustrates the vicinity and site location; Figure 2 illustrates the release location. The C-141 form is included in Appendix A.

2.0 Site Information and Closure Criteria

The Poker Lake is located approximately 10 miles from Malaga, New Mexico on Federal (BLM) land at an elevation of approximately 3,190 feet above mean sea level (amsl).

Based upon OSE well data (Appendix B), depth to groundwater in the area is estimated to be 150 feet below grade surface (bgs). There is one known water sources within ½-mile of the location, according to the New Mexico Office of the State Engineer (NMOSE) online water well database (https://gis.ose.state.nm.us/gisapps/ose_pod_locations/; accessed 9/15/2020). The nearest significant watercourse is an unnamed draw, located approximately 2,180 feet to the south. Figure 2 illustrates the site with 200 and 300-foot radii to indicate that it does not lie within a sensitive area as described in 19.15.29.12.C(4) NMAC.

Based on the information presented herein, the applicable NMOCD Closure Criteria for this site is for a groundwater depth of greater than 100 feet bgs. Table 2 demonstrates the Closure Criteria applicable to this location. Pertinent well data is attached in Appendix B.

3.0 Release Characterization and Remediation Activities

On August 11, 2020, SMA personnel arrived on site in response to the release associated with Poker Lake Discharge release. SMA performed site delineation activities by collecting soil samples around the excavated area. Soil samples were field screened for chloride using an electrical conductivity (EC) meter and for hydrocarbon impacts using a calibrated MiniRAE 2000 photoionization detector (PID) equipped with a 10.6 eV lamp.

A total of six (6) sample locations (BS1-BS2 & SW1- SW4) were investigated using a hand-auger. A total of six (6) samples were collected for laboratory analysis for total chloride using EPA Method 300.0; benzene, toluene, ethylbenzene and total xylenes (BTEX) using EPA Method 8021B; and motor, diesel and gasoline range organics (MRO, DRO, and GRO) by EPA Method 8015D.

As summarized in Table 3, results indicated that an area approximately 25 feet by 15 feet by 5 feet deep had been impacted.

On August 26, 2020, SMA returned to the site to guide the excavation of contaminated soil. SMA guided the excavation activities by collecting soil samples for field screening, using the methods above. The walls and base were excavated until field screening results indicated that the NMOCD Closure Criteria would be met.

Confirmation sampling of the walls and base of the excavation, which measured approximately 27 feet by 17 feet by 11 feet deep.

Confirmation samples were comprised of five-point composites of the base (BS1 & BS2) and walls (SW1-SW4).

A total of ten (10) samples were collected for laboratory analysis for total chloride using EPA Method 300.0; benzene, toluene, ethylbenzene and total xylenes (BTEX) using EPA Method 8021B; and motor,

Poker Lake Discharge Remediation Closure Report
September 25, 2020

Page 3 of 4

diesel and gasoline range organics (MRO, DRO, and GRO) by EPA Method 8015D. Laboratory samples were collected in accordance with the sampling protocol included in Appendix C. Samples were placed into laboratory supplied glassware, labeled, and maintained on ice until delivery to Hall Environmental Analysis Laboratory in Albuquerque, New Mexico and Cardinal Laboratories in Hobbs, New Mexico (Appendix D).

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

Contaminated soils were removed and replaced with clean backfill material to return the surface to previous contours. The contaminated soil was transported and disposed of at Lea County Landfill, Eunice, NM, an NMOCD permitted disposal facility.

SMA recommends no further action and that the released associated with the Poker Lake Discharge pipeline be closed.

5.0 Scope and Limitations

The scope of our services included: assessment sampling; verifying release stabilization; regulatory liaison; remediation; and preparing this closure report. All work has been performed in accordance with generally accepted professional environmental consulting practices for oil and gas releases in the Permian Basin in New Mexico.

If there are any questions regarding this report, please contact either Ashley Maxwell at 505-320-8975 or Shawna Chubbuck at 505-325-7535.

Submitted by:
SOUDER, MILLER & ASSOCIATES

Reviewed by:



Ashley Maxwell
Project Manager



Shawna Chubbuck
Senior Scientist

Poker Lake Discharge Remediation Closure Report
September 25, 2020

Page 4 of 4

ATTACHMENTS:

Figures:

Figure 1: Vicinity and Well Head Protection Map

Figure 2: Surface Water Radius Map

Figure 3: Site and Sample Location Map

Tables:

Table 2: NMOCD Closure Criteria Justification

Table 3: Summary of Sample Results

Appendices:

Appendix A: Form C141

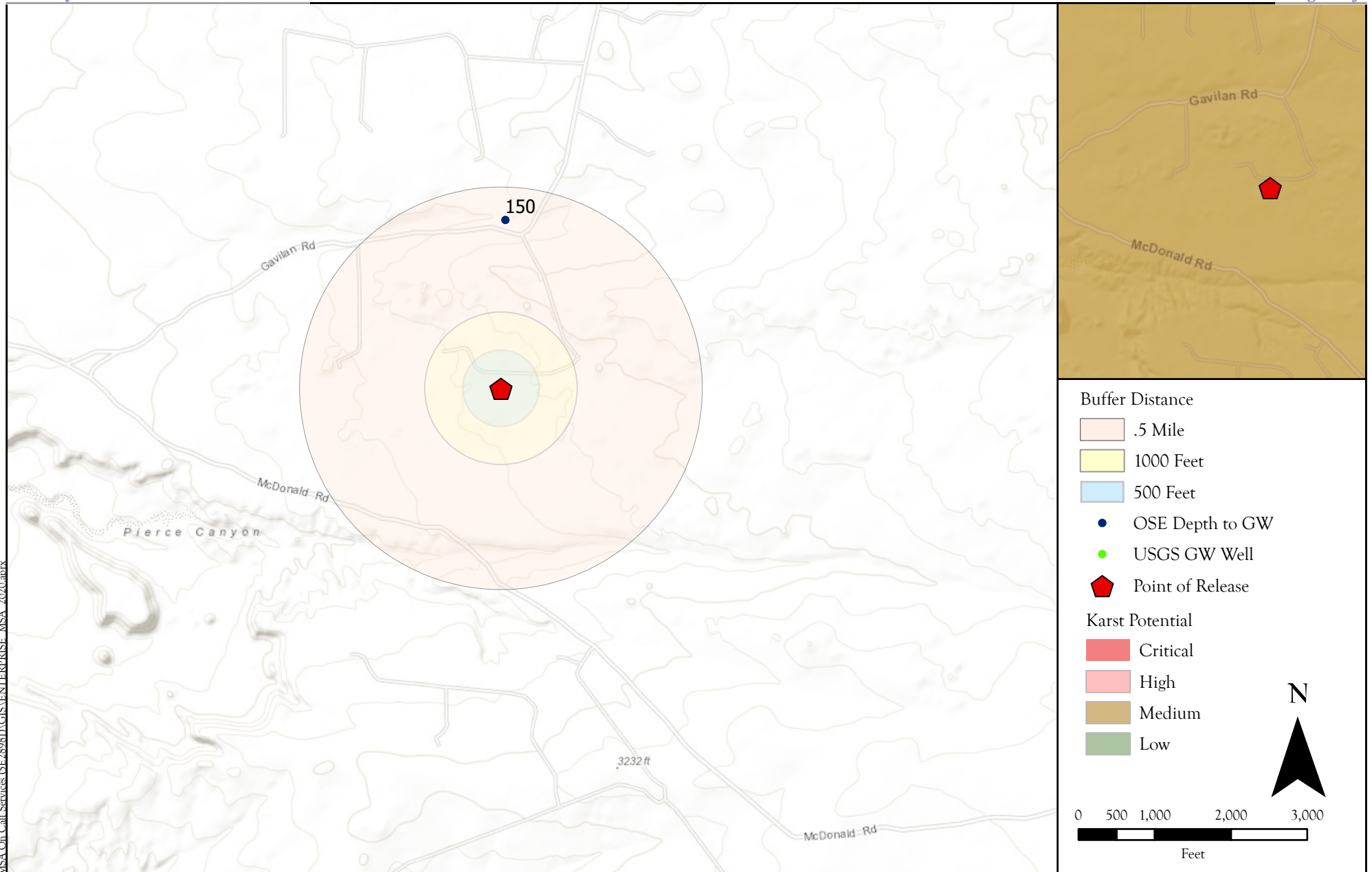
Appendix B: NMOSE Wells Report

Appendix C: Sampling Protocol

Appendix D: Laboratory Analytical Reports

Appendix E: Photo Log

FIGURES



Site Map

Poker Lake Discharge - Enterprise Field Services LLC
 32.196687, -103.916584 Eddy County, New Mexico

Figure 1

Revisions

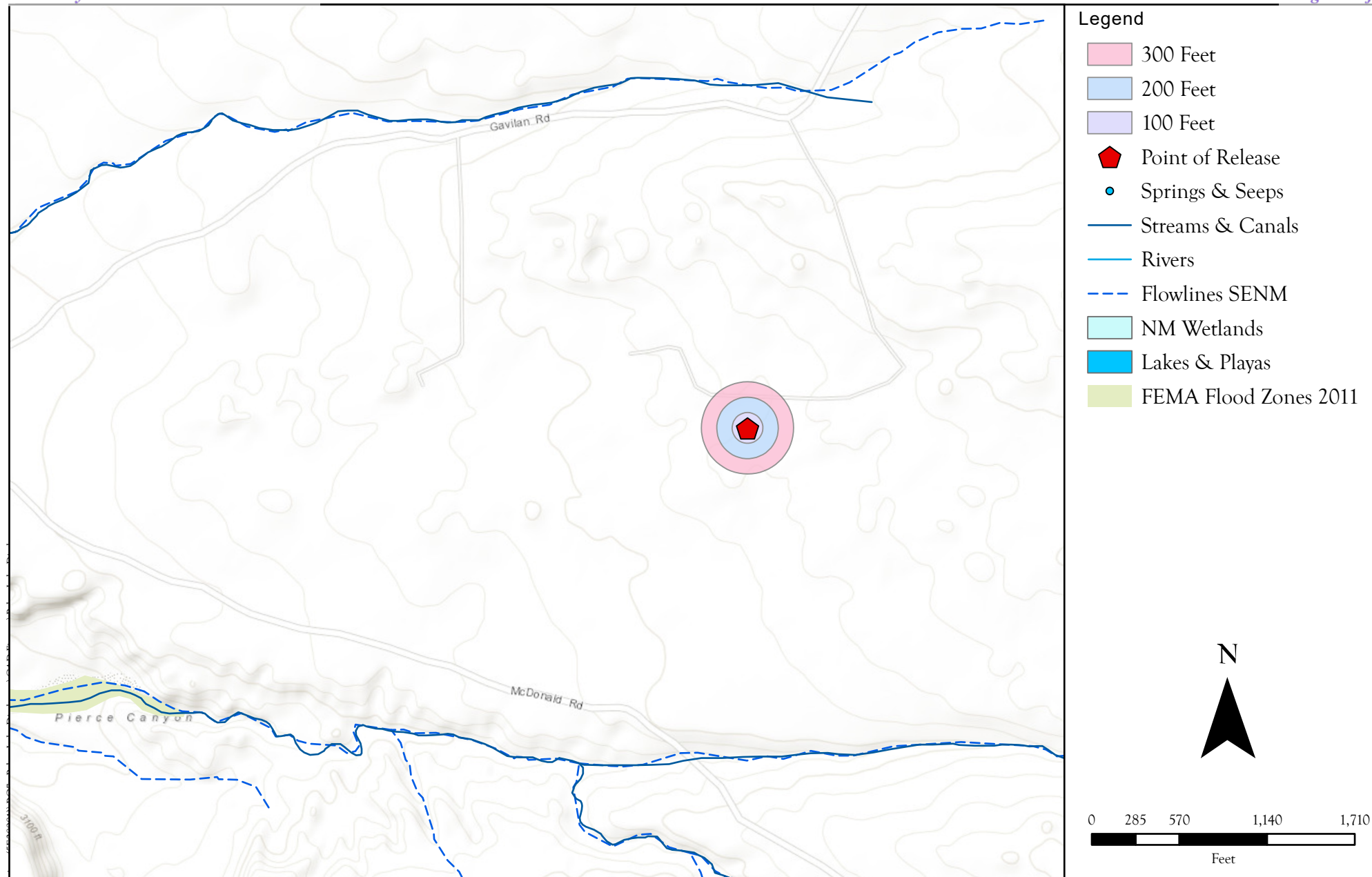
By: _____ Date: _____ Descr: _____
 By: _____ Date: _____ Descr: _____

Drawn
 Date
 Checked
 Approved

Phil Smith
 8/14/2020



201 South Halaguena Street
 Carlsbad, New Mexico 88221
 (575) 689-7040
 Serving the Southwest & Rocky Mountains



Surface Water Protection Map
 Poker Lake Discharge - Enterprise Field Services, LLC
 32.169987, -103.916584 Eddy County, New Mexico

Figure 2

Revisions

By: _____ Date: _____ Descr: _____
 By: _____ Date: _____ Descr: _____

Drawn
 Date
 Checked
 Approved

Phil Smith
 8/14/2020



201 South Halaguena Street
 Carlsbad, New Mexico 88221
 (575) 689-7040
 Serving the Southwest & Rocky Mountains



Site and Sample Location Map
Poker Lake Discharge - Enterprise Field Services LLC
32.196687, -103.916584 Eddy County, New Mexico

Figure 3

Revisions

By: _____ Date: _____ Descr: _____
By: _____ Date: _____ Descr: _____

Drawn
Date
Checked
Approved

Phil Smith

8/14/2020



201 South Halaguena Street
Carlsbad, New Mexico 88221
(575) 689-7040
Serving the Southwest & Rocky Mountains

TABLES

Table 2:
NMOCD Closure Criteria

Enterprise Field Services, LLC
Poker Lake Discharge

Site Information (19.15.29.11.A(2, 3, and 4) NMAC)		Source/Notes
Depth to Groundwater (feet bgs)	150	New Mexico Office of the State Engineer
Horizontal Distance From All Water Sources Within 1/2 Mile (ft)	2,208	United States Geological Survey Topo Map
Horizontal Distance to Nearest Significant Watercourse (ft)	2,180	Unnamed Draw

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

SMA #

Table 3:
Sample Results

Enterprise Field Services, LLC
Poker Lake Discharge

Sample ID	Sample Date	Depth of Sample (feet bgs)	Action Taken	Method 8021B		Method 8015D				Method 300.0
				BTEX	Benzene	GRO	DRO	MRO	Total TPH	CI-
				mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
NMOCD Reclamation Requirement (0-4 ft)				50	10	1000		--	2500	20,000
NMOCD Closure Criteria (>4 ft)				50	10				100	600
BS1	8/11/2020	5	Excavate	19.436	0.123	377	2460	1350	4187	61.6
	8/26/2020	11	In-Situ	<0.224	<0.025	<5.0	9.9	<46	9.9	<60
BS2	8/11/2020	5	Excavate	7.4095	0.0685	209	1900	1130	3239	83.4
	8/26/2020	11	In-Situ	<0.224	<0.025	<5.0	<9.5	<47	<61.5	<60
SW1	8/11/2020	0-5	In-Situ	<0.100	<0.0250	<20.0	<25.0	<50.0	<95	<20.0
SW2	8/11/2020	0-5	Excavate	<0.100	<0.0250	<20.0	52.8	72.2	125	<20.0
	8/26/2020	0-11	In-Situ	<0.224	<0.025	<5.0	<9.3	<47	<61.3	<60
SW3	8/11/2020	0-5	In-Situ	<0.100	<0.0250	<20.0	<25.0	<50.0	<95	<20.0
SW4	8/11/2020	0-5	Excavate	6.1889	0.0263	97.7	2210	2170	4477.7	21.4
	8/26/2020	0-11	In-Situ	<0.225	<0.025	<5.0	<9.2	<46	<60.2	<60

"--" = Not Analyzed

BG: Background sample

APPENDIX A

FORM C141

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

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

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

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	Enterprise Field Services, LLC	OGRID	241602
Contact Name	Alena Miro	Contact Telephone	575-628-6802
Contact email	ammiro@eprod.com	Incident # (assigned by OCD)	
Contact mailing address	PO Box 4324, Houston, TX 77210		

Location of Release Source

Latitude N32.196687 Longitude W -103.916584
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Poker Lake Discharge Pipeline	Site Type	Pipeline ROW
Date Release Discovered	7/30/2020	API# (if applicable)	N/A

Unit Letter	Section	Township	Range	County
O	19	24S	30E	Eddy

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls) 0 bbls
<input checked="" type="checkbox"/> Natural Gas	Volume Released (Mcf) 227.81 MCF	Volume Recovered (Mcf) 0 MCF
<input checked="" type="checkbox"/> Other (describe)	Volume/Weight Released (provide units) 2 bbl - Pipeline Liquids	Volume/Weight Recovered (provide units)

Cause of Release

A pipeline leak estimated at 0.83 MSCF of gas and 2 bbl of pipeline liquids occurred due to suspected internal corrosion and 226.98 MSCF of gas was released due to a controlled pipeline blowdown to facilitate repairs.

Form C-141

State of New Mexico

Page 2


Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? 	

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why: N/A	
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: <u>Jon E. Fields</u> Signature: <u></u> email: <u>jefields@eprod.com</u>	Title: <u>Director, Field Environmental</u> Date: <u>8/4/2020</u> Telephone: <u>713-381-6684</u>
<u>OCD Only</u> Received by: _____ Date: _____	

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>150</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-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.

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

Incident ID	
District RP	
Facility ID	
Application ID	

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 specifications subject to 19.15.29.12(C)(4) NMAC
- ☐ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

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

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

APPENDIX B

NMOSE WELLS REPORT



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the
POD suffix indicates the
POD has been replaced
& no longer serves a
water right file.)

(R=POD has been
replaced,
O=orphaned,
C=the file is
closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
C 02109		CUB	ED	1	2	4	19	24S	30E	602130	3563412	660	130	150	-20
													Average Depth to Water:	150 feet	
													Minimum Depth:	150 feet	
													Maximum Depth:	150 feet	

Record Count: 1

UTMNAD83 Radius Search (in meters):

Easting (X): 602118

Northing (Y): 3562751.78

Radius: 805

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.

APPENDIX C

SAMPLING PROTOCOL



Sampling Protocol

The soil samples were collected in laboratory supplied containers in accordance with this sampling protocol, immediately placed on ice and sent under standard chain-of-custody protocols to Hall Environmental Analysis Laboratory (HEAL) in Albuquerque, New Mexico and to Envirotech Laboratories in Farmington, New Mexico for analysis. A total of eleven (11) samples were collected for laboratory analysis for total chloride using EPA Method 300.0; benzene, toluene, ethylbenzene and total xylenes (BTEX) using EPA Method 8021B; and motor, diesel and gasoline range organics (MRO, DRO, and GRO) by EPA Method 8015D.

Sampling Analysis Field Quality Assurance Procedures

A unique sample numbering was used to identify each sample collected and designated for on-site and off-site laboratory analysis. The purpose of this numbering scheme was to provide a tracking system for the retrieval of analytical and field data on each sample. Sample identification numbers were recorded on sample labels or tags, field notes, chain-of-custody records (COC) and all other applicable documentation used during the project. Sample labels were affixed to all sample containers during sampling activities. Information was recorded on each sample container label at the time of sample collection. The information recorded on the labels were as follows: sample identification number; sample type (discrete or composite); site name and area/location number; analysis to be performed; type of chemical preservative present in container; date and time of sample collection; and sample collector's name and initials. All samples were packed in ice in an approved rigid body container, custody sealed signed and shipped to the appropriate laboratory via insured courier service.

COC procedures implemented for the project provided documentation of the handling of each sample from the time of collection until completion of laboratory analysis. A COC form serves as a legal record of possession of the sample. A sample is considered to be under custody if one or more of the following criteria are met: the sample is in the sampler's possession; the sample is in the sampler's view after being in possession; the sample was in the sampler's possession and then was placed into a locked area to prevent tampering; and/or the sample is in a designated secure area. Custody was documented throughout the project field sampling activities by a chain-of custody form initiated each day during which samples are collected. Container custody seals placed on either individual samples or on the rigid body container were used to ensure that no sample tampering occurs between the time the samples are placed into the containers and the time the containers are opened for analysis at the laboratory. Container custody seals were signed and dated by the individual responsible for completing the COC form contained within the container.

APPENDIX D

LABORATORY ANALYTICAL REPORTS



Analytical Report

Report Summary

Client: Souder Miller & Associates

Samples Received: 8/13/2020

Job Number: 97057-0001

Work Order: P008034

Project Name/Location: Poker Lake Discharge

Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Walter Hinchman', is written over a light blue rectangular background.

Date: 8/19/20

Walter Hinchman, Laboratory Director



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.
Statement of Data Authenticity: Envirotech, Inc. attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.
Envirotech, Inc. holds the Utah TNI certification NM009792018-1 for the data reported.
Envirotech, Inc. holds the Texas TNI certification T104704557-19-2 for the data reported.





Souder Miller & Associates
401 W. Broadway
Farmington NM, 87401

Project Name: Poker Lake Discharge
Project Number: 97057-0001
Project Manager: Ashley Maxwell

Reported:
08/19/20 15:00

Sample Summary

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BS1	P008034-01A	Soil	08/11/20	08/13/20	Glass Jar, 4 oz.
BS2	P008034-02A	Soil	08/11/20	08/13/20	Glass Jar, 4 oz.
SW1	P008034-03A	Soil	08/11/20	08/13/20	Glass Jar, 4 oz.
SW2	P008034-04A	Soil	08/11/20	08/13/20	Glass Jar, 4 oz.
SW3	P008034-05A	Soil	08/11/20	08/13/20	Glass Jar, 4 oz.
SW4	P008034-06A	Soil	08/11/20	08/13/20	Glass Jar, 4 oz.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.





Souder Miller & Associates 401 W. Broadway Farmington NM, 87401	Project Name: Poker Lake Discharge Project Number: 97057-0001 Project Manager: Ashley Maxwell	Reported: 08/19/20 15:00
---	---	-----------------------------

BS1
P008034-01 (Solid)

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg				Batch: 2033043
Benzene	0.123	0.0250	1	08/14/20	08/18/20	
Toluene	0.843	0.0250	1	08/14/20	08/18/20	
Ethylbenzene	1.27	0.0250	1	08/14/20	08/18/20	
p,m-Xylene	12.5	0.0500	1	08/14/20	08/18/20	
o-Xylene	4.71	0.0250	1	08/14/20	08/18/20	
Total Xylenes	17.2	0.0250	1	08/14/20	08/18/20	
Surrogate: 4-Bromochlorobenzene-PID		119 %	50-150	08/14/20	08/18/20	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch: 2033043
Gasoline Range Organics (C6-C10)	377	20.0	1	08/14/20	08/18/20	
Surrogate: 1-Chloro-4-fluorobenzene-FID		121 %	50-150	08/14/20	08/18/20	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch: 2033036
Diesel Range Organics (C10-C28)	2460	25.0	1	08/14/20	08/15/20	
Oil Range Organics (C28-C40)	1350	50.0	1	08/14/20	08/15/20	
Surrogate: n-Nonane		216 %	50-200	08/14/20	08/15/20	S5
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch: 2033044
Chloride	61.6	20.0	1	08/14/20	08/15/20	

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.





Souder Miller & Associates 401 W. Broadway Farmington NM, 87401	Project Name: Poker Lake Discharge Project Number: 97057-0001 Project Manager: Ashley Maxwell	Reported: 08/19/20 15:00
---	---	-----------------------------

BS2
P008034-02 (Solid)

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg				Batch: 2033043
Benzene	0.0685	0.0250	1	08/14/20	08/18/20	
Toluene	0.463	0.0250	1	08/14/20	08/18/20	
Ethylbenzene	0.828	0.0250	1	08/14/20	08/18/20	
p,m-Xylene	4.54	0.0500	1	08/14/20	08/18/20	
o-Xylene	1.51	0.0250	1	08/14/20	08/18/20	
Total Xylenes	6.05	0.0250	1	08/14/20	08/18/20	
Surrogate: 4-Bromochlorobenzene-PID		117 %	50-150	08/14/20	08/18/20	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch: 2033043
Gasoline Range Organics (C6-C10)	209	20.0	1	08/14/20	08/18/20	
Surrogate: 1-Chloro-4-fluorobenzene-FID		108 %	50-150	08/14/20	08/18/20	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch: 2033036
Diesel Range Organics (C10-C28)	1900	250	10	08/14/20	08/18/20	
Oil Range Organics (C28-C40)	1130	500	10	08/14/20	08/18/20	
Surrogate: n-Nonane		154 %	50-200	08/14/20	08/18/20	
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch: 2033044
Chloride	83.4	20.0	1	08/14/20	08/15/20	

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.





Souder Miller & Associates 401 W. Broadway Farmington NM, 87401	Project Name: Poker Lake Discharge Project Number: 97057-0001 Project Manager: Ashley Maxwell	Reported: 08/19/20 15:00
---	---	-----------------------------

SW1
P008034-03 (Solid)

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg				Batch: 2033043
Benzene	ND	0.0250	1	08/14/20	08/18/20	
Toluene	ND	0.0250	1	08/14/20	08/18/20	
Ethylbenzene	ND	0.0250	1	08/14/20	08/18/20	
p,m-Xylene	ND	0.0500	1	08/14/20	08/18/20	
o-Xylene	ND	0.0250	1	08/14/20	08/18/20	
Total Xylenes	ND	0.0250	1	08/14/20	08/18/20	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		105 %	50-150	08/14/20	08/18/20	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch: 2033043
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/14/20	08/18/20	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.2 %	50-150	08/14/20	08/18/20	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch: 2033036
Diesel Range Organics (C10-C28)	ND	25.0	1	08/14/20	08/18/20	
Oil Range Organics (C28-C40)	ND	50.0	1	08/14/20	08/18/20	
<i>Surrogate: n-Nonane</i>		100 %	50-200	08/14/20	08/18/20	
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch: 2033044
Chloride	ND	20.0	1	08/14/20	08/15/20	

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.





Souder Miller & Associates 401 W. Broadway Farmington NM, 87401	Project Name: Poker Lake Discharge Project Number: 97057-0001 Project Manager: Ashley Maxwell	Reported: 08/19/20 15:00
---	---	-----------------------------

SW2
P008034-04 (Solid)

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg				Batch: 2033043
Benzene	ND	0.0250	1	08/14/20	08/18/20	
Toluene	ND	0.0250	1	08/14/20	08/18/20	
Ethylbenzene	ND	0.0250	1	08/14/20	08/18/20	
p,m-Xylene	ND	0.0500	1	08/14/20	08/18/20	
o-Xylene	ND	0.0250	1	08/14/20	08/18/20	
Total Xylenes	ND	0.0250	1	08/14/20	08/18/20	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	98.5 %	50-150		08/14/20	08/18/20	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch: 2033043
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/14/20	08/18/20	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	89.0 %	50-150		08/14/20	08/18/20	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch: 2033036
Diesel Range Organics (C10-C28)	52.8	25.0	1	08/14/20	08/15/20	
Oil Range Organics (C28-C40)	72.2	50.0	1	08/14/20	08/15/20	
<i>Surrogate: n-Nonane</i>	107 %	50-200		08/14/20	08/15/20	
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch: 2033044
Chloride	ND	20.0	1	08/14/20	08/15/20	

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.





Souder Miller & Associates 401 W. Broadway Farmington NM, 87401	Project Name: Poker Lake Discharge Project Number: 97057-0001 Project Manager: Ashley Maxwell	Reported: 08/19/20 15:00
---	---	-----------------------------

SW3
P008034-05 (Solid)

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg				Batch: 2033043
Benzene	ND	0.0250	1	08/14/20	08/18/20	
Toluene	ND	0.0250	1	08/14/20	08/18/20	
Ethylbenzene	ND	0.0250	1	08/14/20	08/18/20	
p,m-Xylene	ND	0.0500	1	08/14/20	08/18/20	
o-Xylene	ND	0.0250	1	08/14/20	08/18/20	
Total Xylenes	ND	0.0250	1	08/14/20	08/18/20	
Surrogate: 4-Bromochlorobenzene-PID	96.6 %	50-150		08/14/20	08/18/20	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch: 2033043
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/14/20	08/18/20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	88.7 %	50-150		08/14/20	08/18/20	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch: 2033036
Diesel Range Organics (C10-C28)	ND	25.0	1	08/14/20	08/15/20	
Oil Range Organics (C28-C40)	ND	50.0	1	08/14/20	08/15/20	
Surrogate: n-Nonane	104 %	50-200		08/14/20	08/15/20	
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch: 2033044
Chloride	ND	20.0	1	08/14/20	08/15/20	

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.





Souder Miller & Associates 401 W. Broadway Farmington NM, 87401	Project Name: Poker Lake Discharge Project Number: 97057-0001 Project Manager: Ashley Maxwell	Reported: 08/19/20 15:00
---	---	-----------------------------

SW4
P008034-06 (Solid)

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg				Batch: 2033043
Benzene	0.0269	0.0250	1	08/14/20	08/18/20	
Toluene	0.460	0.0250	1	08/14/20	08/18/20	
Ethylbenzene	0.272	0.0250	1	08/14/20	08/18/20	
p,m-Xylene	4.05	0.0500	1	08/14/20	08/18/20	
o-Xylene	1.38	0.0250	1	08/14/20	08/18/20	
Total Xylenes	5.43	0.0250	1	08/14/20	08/18/20	
Surrogate: 4-Bromochlorobenzene-PID	104 %	50-150		08/14/20	08/18/20	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch: 2033043
Gasoline Range Organics (C6-C10)	97.7	20.0	1	08/14/20	08/18/20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	102 %	50-150		08/14/20	08/18/20	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch: 2033036
Diesel Range Organics (C10-C28)	2210	25.0	1	08/14/20	08/15/20	
Oil Range Organics (C28-C40)	2170	50.0	1	08/14/20	08/15/20	
Surrogate: n-Nonane	134 %	50-200		08/14/20	08/15/20	
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch: 2033044
Chloride	21.4	20.0	1	08/14/20	08/15/20	

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.





Souder Miller & Associates	Project Name:	Poker Lake Discharge	Reported: 08/19/20 15:00
401 W. Broadway	Project Number:	97057-0001	
Farmington NM, 87401	Project Manager:	Ashley Maxwell	

Volatile Organics by EPA 8021B - Quality Control

Analyte	Result	Reporting Limit	Spike Level	Source Result	REC	REC Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2033043-BLK1)

Prepared: 08/14/20 1 Analyzed: 08/17/20 1

Benzene	ND	0.0250							
Toluene	ND	0.0250							
Ethylbenzene	ND	0.0250							
p,m-Xylene	ND	0.0500							
o-Xylene	ND	0.0250							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	8.02		8.00		100	50-150			

LCS (2033043-BS1)

Prepared: 08/14/20 1 Analyzed: 08/17/20 1

Benzene	5.28	0.0250	5.00		106	70-130			
Toluene	5.43	0.0250	5.00		109	70-130			
Ethylbenzene	5.44	0.0250	5.00		109	70-130			
p,m-Xylene	11.0	0.0500	10.0		110	70-130			
o-Xylene	5.48	0.0250	5.00		110	70-130			
Total Xylenes	16.4	0.0250	15.0		110	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.36		8.00		105	50-150			

Matrix Spike (2033043-MS1)

Source: P008043-01

Prepared: 08/14/20 1 Analyzed: 08/17/20 1

Benzene	4.78	0.0250	5.00	ND	95.5	54-133			
Toluene	4.96	0.0250	5.00	0.0423	98.3	61-130			
Ethylbenzene	4.96	0.0250	5.00	0.0841	97.5	61-133			
p,m-Xylene	9.87	0.0500	10.0	0.136	97.3	63-131			
o-Xylene	4.89	0.0250	5.00	0.0736	96.4	63-131			
Total Xylenes	14.8	0.0250	15.0	0.210	97.0	63-131			
Surrogate: 4-Bromochlorobenzene-PID	6.67		8.00		83.3	50-150			

Matrix Spike Dup (2033043-MSD1)

Source: P008043-01

Prepared: 08/14/20 1 Analyzed: 08/17/20 1

Benzene	5.26	0.0250	5.00	ND	105	54-133	9.74	20	
Toluene	5.43	0.0250	5.00	0.0423	108	61-130	9.14	20	
Ethylbenzene	5.46	0.0250	5.00	0.0841	107	61-133	9.57	20	
p,m-Xylene	10.9	0.0500	10.0	0.136	107	63-131	9.55	20	
o-Xylene	5.40	0.0250	5.00	0.0736	106	63-131	9.82	20	
Total Xylenes	16.3	0.0250	15.0	0.210	107	63-131	9.64	20	
Surrogate: 4-Bromochlorobenzene-PID	6.81		8.00		85.2	50-150			

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.





Souder Miller & Associates 401 W. Broadway Farmington NM, 87401	Project Name: Poker Lake Discharge Project Number: 97057-0001 Project Manager: Ashley Maxwell	Reported: 08/19/20 15:00
---	---	-----------------------------

Nonhalogenated Organics by EPA 8015D - GRO - Quality Control

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	REC %	REC Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2033043-BLK1)

Prepared: 08/14/20 1 Analyzed: 08/17/20 1

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.22		8.00		90.2	50-150			

LCS (2033043-BS2)

Prepared: 08/14/20 1 Analyzed: 08/17/20 1

Gasoline Range Organics (C6-C10)	49.1	20.0	50.0		98.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.35		8.00		91.8	50-150			

Matrix Spike (2033043-MS2)

Source: P008043-01

Prepared: 08/14/20 1 Analyzed: 08/17/20 2

Gasoline Range Organics (C6-C10)	47.3	20.0	50.0	ND	94.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.07		8.00		88.4	50-150			

Matrix Spike Dup (2033043-MSD2)

Source: P008043-01

Prepared: 08/14/20 1 Analyzed: 08/17/20 2

Gasoline Range Organics (C6-C10)	47.0	20.0	50.0	ND	93.9	70-130	0.765	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.00		8.00		87.5	50-150			

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.





Souder Miller & Associates	Project Name:	Poker Lake Discharge	Reported: 08/19/20 15:00
401 W. Broadway	Project Number:	97057-0001	
Farmington NM, 87401	Project Manager:	Ashley Maxwell	

Nonhalogenated Organics by EPA 8015D - DRO/ORO - Quality Control

Analyte	Result	Reporting Limit	Spike Level	Source Result	REC	REC Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2033036-BLK1)

Prepared: 08/14/20 0 Analyzed: 08/14/20 2

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C40)	ND	50.0							
Surrogate: n-Nonane	53.5		50.0		107	50-200			

LCS (2033036-BS1)

Prepared: 08/14/20 0 Analyzed: 08/15/20 0

Diesel Range Organics (C10-C28)	470	25.0	500		94.0	38-132			
Surrogate: n-Nonane	54.4		50.0		109	50-200			

Matrix Spike (2033036-MS1)

Source: P008033-01

Prepared: 08/14/20 0 Analyzed: 08/15/20 0

Diesel Range Organics (C10-C28)	471	25.0	500	ND	94.3	38-132			
Surrogate: n-Nonane	51.3		50.0		103	50-200			

Matrix Spike Dup (2033036-MSD1)

Source: P008033-01

Prepared: 08/14/20 0 Analyzed: 08/15/20 0

Diesel Range Organics (C10-C28)	477	25.0	500	ND	95.4	38-132	1.13	20	
Surrogate: n-Nonane	53.4		50.0		107	50-200			

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.





Souder Miller & Associates 401 W. Broadway Farmington NM, 87401	Project Name: Poker Lake Discharge Project Number: 97057-0001 Project Manager: Ashley Maxwell	Reported: 08/19/20 15:00
---	---	-----------------------------

Anions by EPA 300.0/9056A - Quality Control

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	REC %	REC Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2033044-BLK1)

Prepared: 08/14/20 1 Analyzed: 08/15/20 0

Chloride ND 20.0

LCS (2033044-BS1)

Prepared: 08/14/20 1 Analyzed: 08/15/20 0

Chloride 250 20.0 250 99.9 90-110

Matrix Spike (2033044-MS1)

Source: P008034-01 Prepared: 08/14/20 1 Analyzed: 08/15/20 0

Chloride 309 20.0 250 61.6 99.1 80-120

Matrix Spike Dup (2033044-MSD1)

Source: P008034-01 Prepared: 08/14/20 1 Analyzed: 08/15/20 0

Chloride 315 20.0 250 61.6 101 80-120 1.75 20

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.





Souder Miller & Associates	Project Name:	Poker Lake Discharge	
401 W. Broadway	Project Number:	97057-0001	Reported:
Farmington NM, 87401	Project Manager:	Ashley Maxwell	08/19/20 15:00

Notes and Definitions

- S5 Surrogate spike recovery exceeded acceptance limits due to interfering target and/or non-target analytes.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- ** Methods marked with ** are non-accredited methods.

Soil data is reported on an "as received" weight basis, unless reported otherwise.



[illegible]



Analytical Report

Report Summary

Client: Souder Miller & Associates

Samples Received: 8/13/2020

Job Number: 97057-0001

Work Order: P008034

Project Name/Location: Poker Lake Discharge

Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Walter Hinchman', is written over a light blue rectangular background.

Date: 8/19/20

Walter Hinchman, Laboratory Director



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.
Statement of Data Authenticity: Envirotech, Inc. attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.
Envirotech, Inc. holds the Utah TNI certification NM009792018-1 for the data reported.
Envirotech, Inc. holds the Texas TNI certification T104704557-19-2 for the data reported.





Souder Miller & Associates
401 W. Broadway
Farmington NM, 87401

Project Name: Poker Lake Discharge
Project Number: 97057-0001
Project Manager: Ashley Maxwell

Reported:
08/19/20 15:00

Sample Summary

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BS1	P008034-01A	Soil	08/11/20	08/13/20	Glass Jar, 4 oz.
BS2	P008034-02A	Soil	08/11/20	08/13/20	Glass Jar, 4 oz.
SW1	P008034-03A	Soil	08/11/20	08/13/20	Glass Jar, 4 oz.
SW2	P008034-04A	Soil	08/11/20	08/13/20	Glass Jar, 4 oz.
SW3	P008034-05A	Soil	08/11/20	08/13/20	Glass Jar, 4 oz.
SW4	P008034-06A	Soil	08/11/20	08/13/20	Glass Jar, 4 oz.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.





Souder Miller & Associates 401 W. Broadway Farmington NM, 87401	Project Name: Poker Lake Discharge Project Number: 97057-0001 Project Manager: Ashley Maxwell	Reported: 08/19/20 15:00
---	---	-----------------------------

BS1
P008034-01 (Solid)

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg				Batch: 2033043
Benzene	0.123	0.0250	1	08/14/20	08/18/20	
Toluene	0.843	0.0250	1	08/14/20	08/18/20	
Ethylbenzene	1.27	0.0250	1	08/14/20	08/18/20	
p,m-Xylene	12.5	0.0500	1	08/14/20	08/18/20	
o-Xylene	4.71	0.0250	1	08/14/20	08/18/20	
Total Xylenes	17.2	0.0250	1	08/14/20	08/18/20	
Surrogate: 4-Bromochlorobenzene-PID	119 %	50-150		08/14/20	08/18/20	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch: 2033043
Gasoline Range Organics (C6-C10)	377	20.0	1	08/14/20	08/18/20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	121 %	50-150		08/14/20	08/18/20	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch: 2033036
Diesel Range Organics (C10-C28)	2460	25.0	1	08/14/20	08/15/20	
Oil Range Organics (C28-C40)	1350	50.0	1	08/14/20	08/15/20	
Surrogate: n-Nonane	216 %	50-200		08/14/20	08/15/20	S5
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch: 2033044
Chloride	61.6	20.0	1	08/14/20	08/15/20	

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.





Souder Miller & Associates 401 W. Broadway Farmington NM, 87401	Project Name: Poker Lake Discharge Project Number: 97057-0001 Project Manager: Ashley Maxwell	Reported: 08/19/20 15:00
---	---	-----------------------------

BS2
P008034-02 (Solid)

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg				Batch: 2033043
Benzene	0.0685	0.0250	1	08/14/20	08/18/20	
Toluene	0.463	0.0250	1	08/14/20	08/18/20	
Ethylbenzene	0.828	0.0250	1	08/14/20	08/18/20	
p,m-Xylene	4.54	0.0500	1	08/14/20	08/18/20	
o-Xylene	1.51	0.0250	1	08/14/20	08/18/20	
Total Xylenes	6.05	0.0250	1	08/14/20	08/18/20	
Surrogate: 4-Bromochlorobenzene-PID		117 %	50-150	08/14/20	08/18/20	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch: 2033043
Gasoline Range Organics (C6-C10)	209	20.0	1	08/14/20	08/18/20	
Surrogate: 1-Chloro-4-fluorobenzene-FID		108 %	50-150	08/14/20	08/18/20	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch: 2033036
Diesel Range Organics (C10-C28)	1900	250	10	08/14/20	08/18/20	
Oil Range Organics (C28-C40)	1130	500	10	08/14/20	08/18/20	
Surrogate: n-Nonane		154 %	50-200	08/14/20	08/18/20	
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch: 2033044
Chloride	83.4	20.0	1	08/14/20	08/15/20	

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.





Souder Miller & Associates 401 W. Broadway Farmington NM, 87401	Project Name: Poker Lake Discharge Project Number: 97057-0001 Project Manager: Ashley Maxwell	Reported: 08/19/20 15:00
---	---	-----------------------------

SW1
P008034-03 (Solid)

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg				Batch: 2033043
Benzene	ND	0.0250	1	08/14/20	08/18/20	
Toluene	ND	0.0250	1	08/14/20	08/18/20	
Ethylbenzene	ND	0.0250	1	08/14/20	08/18/20	
p,m-Xylene	ND	0.0500	1	08/14/20	08/18/20	
o-Xylene	ND	0.0250	1	08/14/20	08/18/20	
Total Xylenes	ND	0.0250	1	08/14/20	08/18/20	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		105 %	50-150	08/14/20	08/18/20	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch: 2033043
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/14/20	08/18/20	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.2 %	50-150	08/14/20	08/18/20	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch: 2033036
Diesel Range Organics (C10-C28)	ND	25.0	1	08/14/20	08/18/20	
Oil Range Organics (C28-C40)	ND	50.0	1	08/14/20	08/18/20	
<i>Surrogate: n-Nonane</i>		100 %	50-200	08/14/20	08/18/20	
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch: 2033044
Chloride	ND	20.0	1	08/14/20	08/15/20	

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.





Souder Miller & Associates 401 W. Broadway Farmington NM, 87401	Project Name: Poker Lake Discharge Project Number: 97057-0001 Project Manager: Ashley Maxwell	Reported: 08/19/20 15:00
---	---	-----------------------------

SW2
P008034-04 (Solid)

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg				Batch: 2033043
Benzene	ND	0.0250	1	08/14/20	08/18/20	
Toluene	ND	0.0250	1	08/14/20	08/18/20	
Ethylbenzene	ND	0.0250	1	08/14/20	08/18/20	
p,m-Xylene	ND	0.0500	1	08/14/20	08/18/20	
o-Xylene	ND	0.0250	1	08/14/20	08/18/20	
Total Xylenes	ND	0.0250	1	08/14/20	08/18/20	
Surrogate: 4-Bromochlorobenzene-PID	98.5 %	50-150		08/14/20	08/18/20	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch: 2033043
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/14/20	08/18/20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	89.0 %	50-150		08/14/20	08/18/20	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch: 2033036
Diesel Range Organics (C10-C28)	52.8	25.0	1	08/14/20	08/15/20	
Oil Range Organics (C28-C40)	72.2	50.0	1	08/14/20	08/15/20	
Surrogate: n-Nonane	107 %	50-200		08/14/20	08/15/20	
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch: 2033044
Chloride	ND	20.0	1	08/14/20	08/15/20	

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.





Souder Miller & Associates 401 W. Broadway Farmington NM, 87401	Project Name: Poker Lake Discharge Project Number: 97057-0001 Project Manager: Ashley Maxwell	Reported: 08/19/20 15:00
---	---	-----------------------------

SW3
P008034-05 (Solid)

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg				Batch: 2033043
Benzene	ND	0.0250	1	08/14/20	08/18/20	
Toluene	ND	0.0250	1	08/14/20	08/18/20	
Ethylbenzene	ND	0.0250	1	08/14/20	08/18/20	
p,m-Xylene	ND	0.0500	1	08/14/20	08/18/20	
o-Xylene	ND	0.0250	1	08/14/20	08/18/20	
Total Xylenes	ND	0.0250	1	08/14/20	08/18/20	
Surrogate: 4-Bromochlorobenzene-PID	96.6 %	50-150		08/14/20	08/18/20	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch: 2033043
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/14/20	08/18/20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	88.7 %	50-150		08/14/20	08/18/20	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch: 2033036
Diesel Range Organics (C10-C28)	ND	25.0	1	08/14/20	08/15/20	
Oil Range Organics (C28-C40)	ND	50.0	1	08/14/20	08/15/20	
Surrogate: n-Nonane	104 %	50-200		08/14/20	08/15/20	
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch: 2033044
Chloride	ND	20.0	1	08/14/20	08/15/20	

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.





Souder Miller & Associates 401 W. Broadway Farmington NM, 87401	Project Name: Poker Lake Discharge Project Number: 97057-0001 Project Manager: Ashley Maxwell	Reported: 08/19/20 15:00
---	---	-----------------------------

SW4
P008034-06 (Solid)

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg				Batch: 2033043
Benzene	0.0269	0.0250	1	08/14/20	08/18/20	
Toluene	0.460	0.0250	1	08/14/20	08/18/20	
Ethylbenzene	0.272	0.0250	1	08/14/20	08/18/20	
p,m-Xylene	4.05	0.0500	1	08/14/20	08/18/20	
o-Xylene	1.38	0.0250	1	08/14/20	08/18/20	
Total Xylenes	5.43	0.0250	1	08/14/20	08/18/20	
Surrogate: 4-Bromochlorobenzene-PID		104 %	50-150	08/14/20	08/18/20	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch: 2033043
Gasoline Range Organics (C6-C10)	97.7	20.0	1	08/14/20	08/18/20	
Surrogate: 1-Chloro-4-fluorobenzene-FID		102 %	50-150	08/14/20	08/18/20	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch: 2033036
Diesel Range Organics (C10-C28)	2210	25.0	1	08/14/20	08/15/20	
Oil Range Organics (C28-C40)	2170	50.0	1	08/14/20	08/15/20	
Surrogate: n-Nonane		134 %	50-200	08/14/20	08/15/20	
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch: 2033044
Chloride	21.4	20.0	1	08/14/20	08/15/20	

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.





Souder Miller & Associates	Project Name:	Poker Lake Discharge	Reported: 08/19/20 15:00
401 W. Broadway	Project Number:	97057-0001	
Farmington NM, 87401	Project Manager:	Ashley Maxwell	

Volatile Organics by EPA 8021B - Quality Control

Analyte	Result	Reporting Limit	Spike Level	Source Result	REC	REC Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2033043-BLK1)

Prepared: 08/14/20 1 Analyzed: 08/17/20 1

Benzene	ND	0.0250							
Toluene	ND	0.0250							
Ethylbenzene	ND	0.0250							
p,m-Xylene	ND	0.0500							
o-Xylene	ND	0.0250							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	8.02		8.00		100	50-150			

LCS (2033043-BS1)

Prepared: 08/14/20 1 Analyzed: 08/17/20 1

Benzene	5.28	0.0250	5.00		106	70-130			
Toluene	5.43	0.0250	5.00		109	70-130			
Ethylbenzene	5.44	0.0250	5.00		109	70-130			
p,m-Xylene	11.0	0.0500	10.0		110	70-130			
o-Xylene	5.48	0.0250	5.00		110	70-130			
Total Xylenes	16.4	0.0250	15.0		110	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.36		8.00		105	50-150			

Matrix Spike (2033043-MS1)

Source: P008043-01

Prepared: 08/14/20 1 Analyzed: 08/17/20 1

Benzene	4.78	0.0250	5.00	ND	95.5	54-133			
Toluene	4.96	0.0250	5.00	0.0423	98.3	61-130			
Ethylbenzene	4.96	0.0250	5.00	0.0841	97.5	61-133			
p,m-Xylene	9.87	0.0500	10.0	0.136	97.3	63-131			
o-Xylene	4.89	0.0250	5.00	0.0736	96.4	63-131			
Total Xylenes	14.8	0.0250	15.0	0.210	97.0	63-131			
Surrogate: 4-Bromochlorobenzene-PID	6.67		8.00		83.3	50-150			

Matrix Spike Dup (2033043-MSD1)

Source: P008043-01

Prepared: 08/14/20 1 Analyzed: 08/17/20 1

Benzene	5.26	0.0250	5.00	ND	105	54-133	9.74	20	
Toluene	5.43	0.0250	5.00	0.0423	108	61-130	9.14	20	
Ethylbenzene	5.46	0.0250	5.00	0.0841	107	61-133	9.57	20	
p,m-Xylene	10.9	0.0500	10.0	0.136	107	63-131	9.55	20	
o-Xylene	5.40	0.0250	5.00	0.0736	106	63-131	9.82	20	
Total Xylenes	16.3	0.0250	15.0	0.210	107	63-131	9.64	20	
Surrogate: 4-Bromochlorobenzene-PID	6.81		8.00		85.2	50-150			

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.





Souder Miller & Associates 401 W. Broadway Farmington NM, 87401	Project Name: Poker Lake Discharge Project Number: 97057-0001 Project Manager: Ashley Maxwell	Reported: 08/19/20 15:00
---	---	-----------------------------

Nonhalogenated Organics by EPA 8015D - GRO - Quality Control

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	REC % %	REC Limits %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	---------------	--------------------	-------------------	-------

Blank (2033043-BLK1)

Prepared: 08/14/20 1 Analyzed: 08/17/20 1

Gasoline Range Organics (C6-C10)	ND	20.0						
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.22		8.00		90.2	50-150		

LCS (2033043-BS2)

Prepared: 08/14/20 1 Analyzed: 08/17/20 1

Gasoline Range Organics (C6-C10)	49.1	20.0	50.0		98.2	70-130		
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.35		8.00		91.8	50-150		

Matrix Spike (2033043-MS2)

Source: P008043-01

Prepared: 08/14/20 1 Analyzed: 08/17/20 2

Gasoline Range Organics (C6-C10)	47.3	20.0	50.0	ND	94.6	70-130		
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.07		8.00		88.4	50-150		

Matrix Spike Dup (2033043-MSD2)

Source: P008043-01

Prepared: 08/14/20 1 Analyzed: 08/17/20 2

Gasoline Range Organics (C6-C10)	47.0	20.0	50.0	ND	93.9	70-130	0.765	20
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.00		8.00		87.5	50-150		

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.





Souder Miller & Associates	Project Name:	Poker Lake Discharge	Reported: 08/19/20 15:00
401 W. Broadway	Project Number:	97057-0001	
Farmington NM, 87401	Project Manager:	Ashley Maxwell	

Nonhalogenated Organics by EPA 8015D - DRO/ORO - Quality Control

Analyte	Result	Reporting Limit	Spike Level	Source Result	REC	REC Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2033036-BLK1)

Prepared: 08/14/20 0 Analyzed: 08/14/20 2

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C40)	ND	50.0							
Surrogate: n-Nonane	53.5		50.0		107	50-200			

LCS (2033036-BS1)

Prepared: 08/14/20 0 Analyzed: 08/15/20 0

Diesel Range Organics (C10-C28)	470	25.0	500		94.0	38-132			
Surrogate: n-Nonane	54.4		50.0		109	50-200			

Matrix Spike (2033036-MS1)

Source: P008033-01

Prepared: 08/14/20 0 Analyzed: 08/15/20 0

Diesel Range Organics (C10-C28)	471	25.0	500	ND	94.3	38-132			
Surrogate: n-Nonane	51.3		50.0		103	50-200			

Matrix Spike Dup (2033036-MSD1)

Source: P008033-01

Prepared: 08/14/20 0 Analyzed: 08/15/20 0

Diesel Range Organics (C10-C28)	477	25.0	500	ND	95.4	38-132	1.13	20	
Surrogate: n-Nonane	53.4		50.0		107	50-200			

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.





Souder Miller & Associates 401 W. Broadway Farmington NM, 87401	Project Name: Poker Lake Discharge Project Number: 97057-0001 Project Manager: Ashley Maxwell	Reported: 08/19/20 15:00
---	---	-----------------------------

Anions by EPA 300.0/9056A - Quality Control

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	REC %	REC Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2033044-BLK1)

Prepared: 08/14/20 1 Analyzed: 08/15/20 0

Chloride	ND	20.0
----------	----	------

LCS (2033044-BS1)

Prepared: 08/14/20 1 Analyzed: 08/15/20 0

Chloride	250	20.0	250	99.9	90-110
----------	-----	------	-----	------	--------

Matrix Spike (2033044-MS1)

Source: P008034-01 Prepared: 08/14/20 1 Analyzed: 08/15/20 0

Chloride	309	20.0	250	61.6	99.1	80-120
----------	-----	------	-----	------	------	--------

Matrix Spike Dup (2033044-MSD1)

Source: P008034-01 Prepared: 08/14/20 1 Analyzed: 08/15/20 0

Chloride	315	20.0	250	61.6	101	80-120	1.75	20
----------	-----	------	-----	------	-----	--------	------	----

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.





Souder Miller & Associates
401 W. Broadway
Farmington NM, 87401

Project Name: Poker Lake Discharge
Project Number: 97057-0001
Project Manager: Ashley Maxwell

Reported:
08/19/20 15:00

Notes and Definitions

S5 Surrogate spike recovery exceeded acceptance limits due to interfering target and/or non-target analytes.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

** Methods marked with ** are non-accredited methods.

Soil data is reported on an "as received" weight basis, unless reported otherwise.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



[illegible]

APPENDIX C

PHOTO LOG

NW

N

NE

Received by OCD: 10/6/2020 6:01:00 Page 56 of 61

○ 345°N (T) ● 32°11'10"N, 104°3'5"W ±13ft ▲ 2946ft



09 Jul 2020, 08:55:05

SW

W

NW

Received by OCD: 10/6/2020 6:01:00 Page 57 of 61

21
O 277°W (T) ● 32°11'10"N, 104°3'5"W ±13ft ▲ 2946ft



09-Jun-2020 08:54:09



SE S SW
O 183°S (T) ● 32°11'10"N, 104°3'5"W ±13ft ▲ 2938ft



NE

SE

Received by OCD: 10/6/2020 6:01:00 Page 60 of 61

○ 90°E (T) ● 32°11'10"N, 104°3'5"W ±13ft ▲ 2941ft



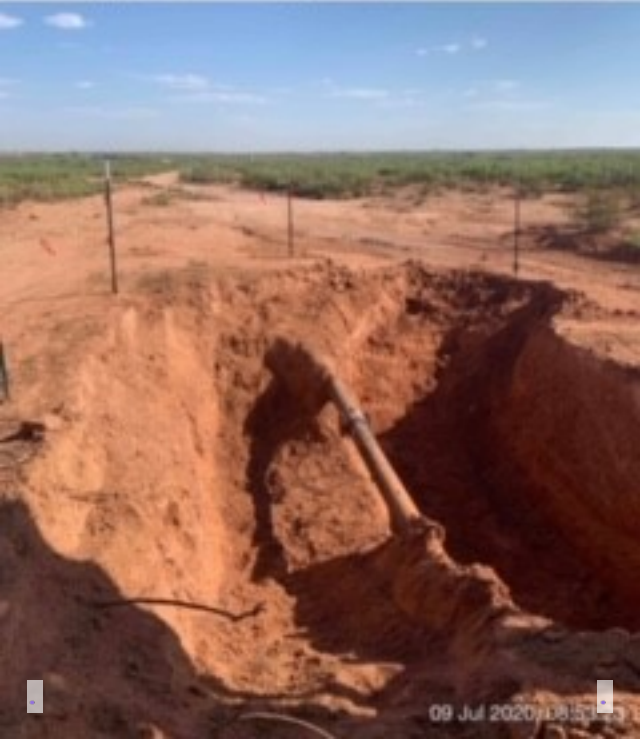
09 Jul 2020, 08:55:47

NW

NE

Received by OCD: 10/6/2020 6:01:00 Page 61 of 61

○ 1°N (T) ● 32°11'10"N, 104°3'5"W ±13ft ▲ 2945ft



09 Jul 2020 08:53