

## Site Assessment Summary & Closure Request

**XTO Energy, Inc.**

**Poker Lake Unit 28-21 Big Sinks**

Eddy County, New Mexico

Unit Letter "D", Section 29, Township 25 South, Range 31 East

Latitude 32.10571 North, Longitude 103.80745 West

**NMOCD Reference No. nAPP2409248851**

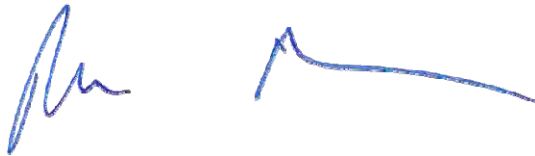
Prepared By:

**Etech Environmental & Safety Solutions, Inc.**

2617 W. Marland

Hobbs, NM 88240

**November 15, 2024**



Robbie Runnels



Matthew Grieco



*Midland • San Antonio • Lubbock • Hobbs • Lafayette*

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## 1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of XTO Energy, Inc., has prepared this *Site Assessment Summary & Closure Request* for the release site known as the Poker Lake Unit 28-21 Big Sinks (henceforth, "Site"). Details of the release are summarized below:

Location of Release Source

Latitude: 32.10571 Longitude -103.80745

Provided GPS are in WGS84 format.

Site Name: Poker Lake Unit 28-21 Big Sinks

Site Type: Pump

Date Release Discovered: 3/19/2024

API # (if applicable): N/A

Unit Letter	Section	Township	Range	County
"D"	29	25S	31E	Eddy

Surface Owner:

☐ State

☒ Federal

☐ Tribal

☐ Private

(Name )

Nature and Volume of Release

<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 checked="" type="checkbox"/> No <input type="checkbox"/> N/A
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input checked="" type="checkbox"/> Other (Brine Water)	Volume/Weight Released 30	Volume/Weight Recovered 0

Cause of Release:  
Normal operations (pump).

Initial Response

☒ The source of the release has been stopped.

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

☒ Release materials have been contained via the use of berms or dikes, absorbent pad, or other containment devices

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

Previously submitted portions of the New Mexico Oil Conservation Division (NMOCD) Form C-141 are available in the NMOCD Imaging System.

## 2.0 SITE CHARACTERIZATION

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (bgs)?	Between 100 and 500 (ft.)
What method was used to determine the depth to groundwater?	NM OSE iWaters Database Search
Did the release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
What is the minimum distance between the closest lateral extents of the release and the following surface areas?	Between 1 and 5 (mi.)
A continuously flowing watercourse or any other significant watercourse?	Between 1,000 (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 1,000 (ft.) and ½ (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	Between 1 and 5 (mi.)
Any other fresh water well or spring?	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field?	Between 1,000 (ft.) and ½ (mi.)
A wetland?	Greater than 5 (mi.)
A subsurface mine?	Between 1 and 5 (mi.)
A (non-karst) unstable area?	Low
Categorize the risk of this well/site being in a karst geology.	Between 1,000 (ft.) and ½ (mi.)
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?	

A search of groundwater databases maintained by the New Mexico Office of the State Engineer (NMOSE) and United States Geological Survey (USGS) was conducted in an effort to determine the horizontal distance to known water sources within a half-mile radius of the Site. Probable groundwater depth was determined using data generated by numeric models based on available water well data and published information. Depth to groundwater information is provided in Appendix A.

Additional NMOCD Siting Criteria data was gathered from available resources including Bureau of Land Management (BLM) and Fish and Wildlife Services (FWS) shapefiles; topographic maps; NMOSE and USGS databases; and aerial imagery. The results are depicted in Figures 1, 2A, 2B, and 4.

## 3.0 CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE

Based on the volume and nature of the release, inferred depth to groundwater, and NMOCD Siting Criteria, the NMOCD Closure Criteria and NMOCD Reclamation Standards for the Site are as follows:

Probable Depth to Groundwater	Constituent	Laboratory Analytical Method	Closure Criteria*†	Reclamation Standard*‡
Between 100 and 500 (ft.)	Chloride (Cl-)	EPA** 300.0 or SM4500 Cl B	20,000	600
	Total Petroleum Hydrocarbons (TPH)	EPA SW-846 Method 8015M Ext	2,500	100
	Gas Range Organics + Diesel Range Organics (GRO+DRO)	EPA SW-846 Method 8015M	1,000	N/A
	Benzene	EPA SW-846 Methods 8021b or 8260b	10	10
	Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX)	EPA SW-846 Methods 8021b or 8260b	50	50

\* Measured in milligrams per kilogram (mg/kg)

\*\* Environmental Protection Agency

† Table I, Section 19.15.29.12 of the New Mexico Administrative Code (NMAC).

‡ The NMOCD Reclamation Standard applies only to the top 4' of soil in non-production areas. Section 19.15.29.13 D.(1) NMAC.



## 4.0 SITE ASSESSMENT

On May 15, 2024, Etech conducted an assessment of the release site. During the site assessment, four (4) hand-augered soil bores (SP 1 through SP 4) were advanced within the release margins in an effort to determine the vertical extent of impacted soil. In addition, ten (10) hand-augered soil bores (NH 1 through NH 4, EH 1, SH 1 through SH 4, and WH 1) were advanced along/outside the release margins to determine the horizontal extent of impacted soil. During the advancement of the hand-augered soil bores, soil samples were collected and field-screened for the presence of Volatile Organic Compounds utilizing olfactory/visual senses and/or concentrations of chloride utilizing a Hach Quantab ® chloride test kit.

Based on field observations and field test data, a total of 28 delineation soil samples (NH 1 @ Surf, NH 1 @ 1', NH 2 @ Surf, NH 2 @ 1', NH 3 @ Surf, NH 3 @ 1', NH 4 @ Surf, NH 4 @ 1', EH 1 @ Surf, EH 1 @ 1', SH 1 @ Surf, SH 1 @ 1', SH 2 @ Surf, SH 2 @ 1', SH 3 @ Surf, SH 3 @ 1', SH 4 @ Surf, SH 4 @ 1', WH 1 @ Surf, WH 1 @ 1', SP 1 @ Surf, SP 1 @ 1', SP 2 @ Surf, SP 2 @ 1', SP 3 @ Surf, SP 3 @ 1', SP 4 @ Surf, and SP 4 @ 1') were submitted to a certified, commercial laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also less than the applicable laboratory method detection limits (MDLs). Chloride concentrations ranged from less than the laboratory MDL in soil samples NH 1 @ Surf, NH 2 @ Surf, NH 3 @ Surf, NH 4 @ Surf, EH 1 @ Surf, SH 1 @ Surf, SH 2 @ Surf, SH 3 @ Surf, SH 4 @ Surf, WH 1 @ Surf, and SP 4 @ Surf to 224 mg/kg in soil sample SP 1 @ Surf.

A summary of the soil sampling data can be found in the following table:

**Summary of Soil Sampling Events**

Constituent	Highest Observable Concentration (mg/kg)	Sample ID	Sample Date	Sample Depth (ft bgs)	Soil Status
Chloride	224	SP 1 @ Surf	5/15/2024	0	In-Situ
TPH	<30.0	All submitted soil samples	5/15/2024	0 - 1	In-Situ
GRO+DRO	<20.0	All submitted soil samples	5/15/2024	0 - 1	In-Situ
BTEX	<0.300	All submitted soil samples	5/15/2024	0 - 1	In-Situ
Benzene	<0.050	All submitted soil samples	5/15/2024	0 - 1	In-Situ

Please reference Table 1 for additional information.

On September 27, 2024, based on laboratory analytical results and field activities conducted to that point, a *Site Assessment Summary & Closure Request* was submitted to the NMOCD requesting regulatory closure of the release. The closure request was subsequently denied by the NMOCD on the basis that a 30 bbl release of produced water with chloride greater than 10,000 mg/L would be expected to leave a large footprint and elevated soil chlorides, which was inconsistent with the extremely low chloride results observed and site photographs. If the reported volume had been entered in error, submission of an updated initial C-141 correcting the amount was required. Otherwise, if the chloride concentration in the release fluid was reaffirmed as greater than 10,000 mg/L, collection of vertical samples to a depth of four (4) feet at each floor sample location, inclusion of photographs of the borehole locations, and submission of laboratory analytical results from delineation soil samples were required with resubmission of the closure request.

On October 30, 2024, in accordance with the NMOCD, Etech bored four (4) additional hand-augered soil bores (AH 1 - AH 4) within the confines of the release area. Each hand-augered soil bore was advanced in one-foot increments to a final depth of 4 feet bgs. Twenty (20) hand-augered soil bore soil samples (AH 1 @ Surf, AH 1 @ 1', AH 1 @ 2', AH 1 @ 3', AH 1 @ 4', AH 2 @ Surf, AH 2 @ 1', AH 2 @ 2', AH 2 @ 3', AH 2 @ 4', AH 3 @ Surf, AH 3 @ 1', AH 3 @ 2', AH 3 @ 3', AH 3 @ 4', AH 4 @ Surf, AH 4 @ 1', AH 4 @ 2', AH 4 @ 3', AH 4 @ 4') were submitted to the laboratory for analyses of BTEX, TPH, and chloride concentrations. Attached analytical reports indicate that all auger-hole soil samples were below the NMOCD Remediation and/or Reclamation Standards.

The extent of the affected area and the locations of the hand-augered soil bores are depicted in Figure 3, "Sample Location Map". Soil chemistry data is summarized in Table 1. Field data is provided in Appendix B. General photographs of the Site are provided in Appendix C. Laboratory analytical reports are provided in Appendix D. Copies of all regulatory correspondence are provided in Appendix E.

## 5.0 SITE CLOSURE REQUEST

Laboratory analytical results from collected soil samples indicated that the release was adequately delineated both vertically and horizontally, and the affected area was not impacted above the applicable NMOCD Closure Criteria or NMOCD Reclamation Standards. Therefore, no further remedial action was required. In consideration of this information, Etech recommends XTO Energy, Inc., provide copies of this *Site Assessment Summary & Closure Request* to the appropriate agencies and request closure be granted to the Site.

## 6.0 LIMITATIONS

Etech Environmental & Safety Solutions, Inc., has prepared this *Site Assessment Summary & Closure Request* to the best of its ability. No other warranty, expressed or implied, is made or intended. Etech has examined and relied upon documents referenced in the report and on oral statements made by certain individuals. Etech has not conducted an independent examination of the facts contained in referenced materials and statements. Etech has presumed the genuineness of these documents and statements and that the information provided therein is true and accurate. Etech has prepared the report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Etech notes that the facts and conditions referenced in this report may change over time, and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

This report has been prepared for the benefit of XTO Energy, Inc. Use of the information contained in this report is prohibited without the consent of Etech and/or XTO Energy, Inc.

## **7.0 DISTRIBUTION**

***XTO Energy, Inc.***  
*3104 E. Greene St.*  
*Carlsbad, NM 88220*

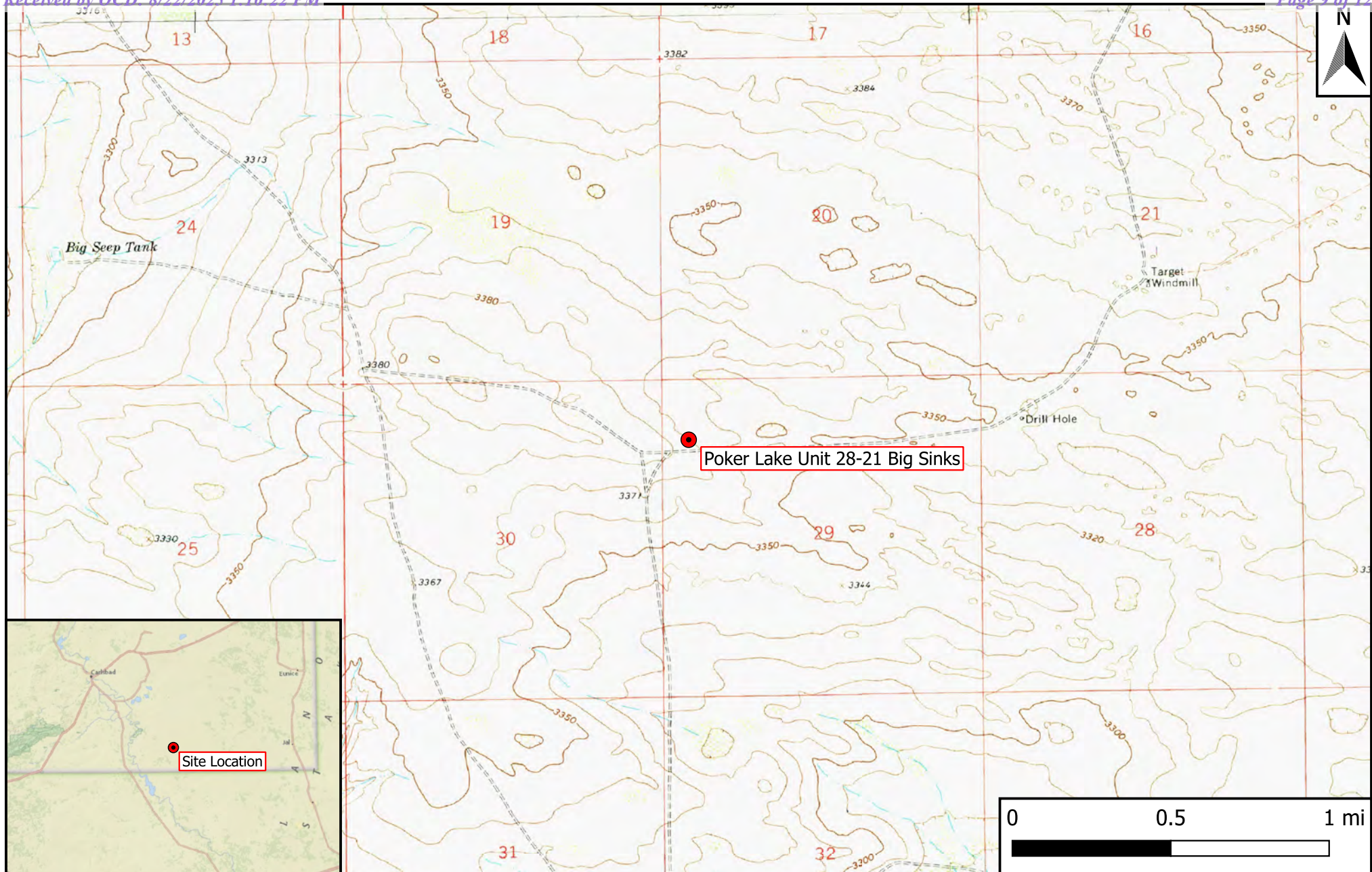
***New Mexico Energy, Minerals and Natural Resources Department***  
*Oil Conservation Division, District 2*  
*811 S. First Street*  
*Artesia, NM 88210*

***United States Department of the Interior***  
*Bureau of Land Management*  
*620 E. Greene Street*  
*Carlsbad, NM 88220*

*(Electronic Submission)*

## **Figure 1**

### **Site Location Map**



## Legend

- Site Location

## Figure 1

Site Location Map  
XTO Energy, Inc.  
Poker Lake Unit 28-21 Big Sinks  
GPS: 32.10571, -103.80745  
Eddy County, New Mexico



Drafted: bja

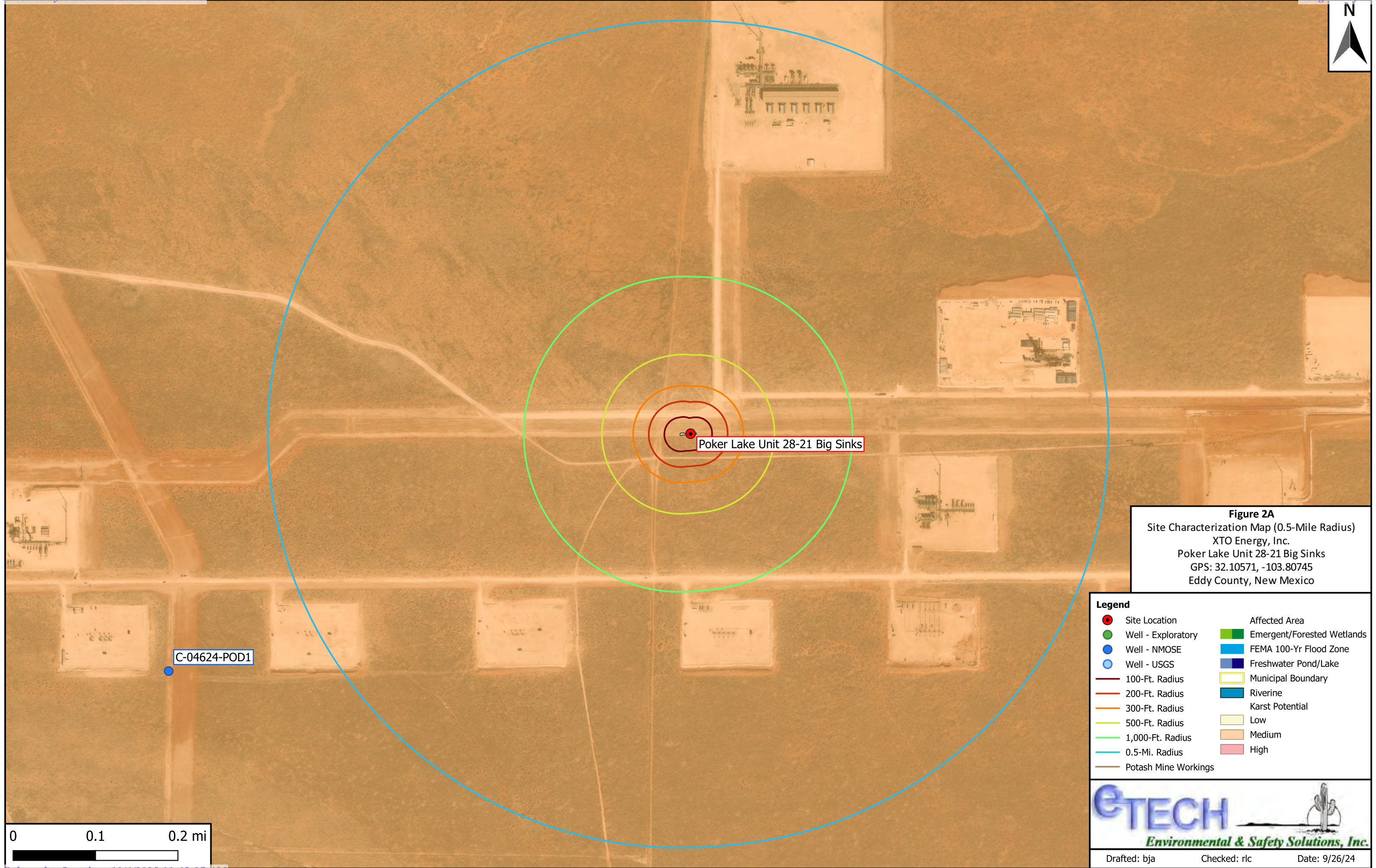
Checked: rlc

Date: 9/26/24

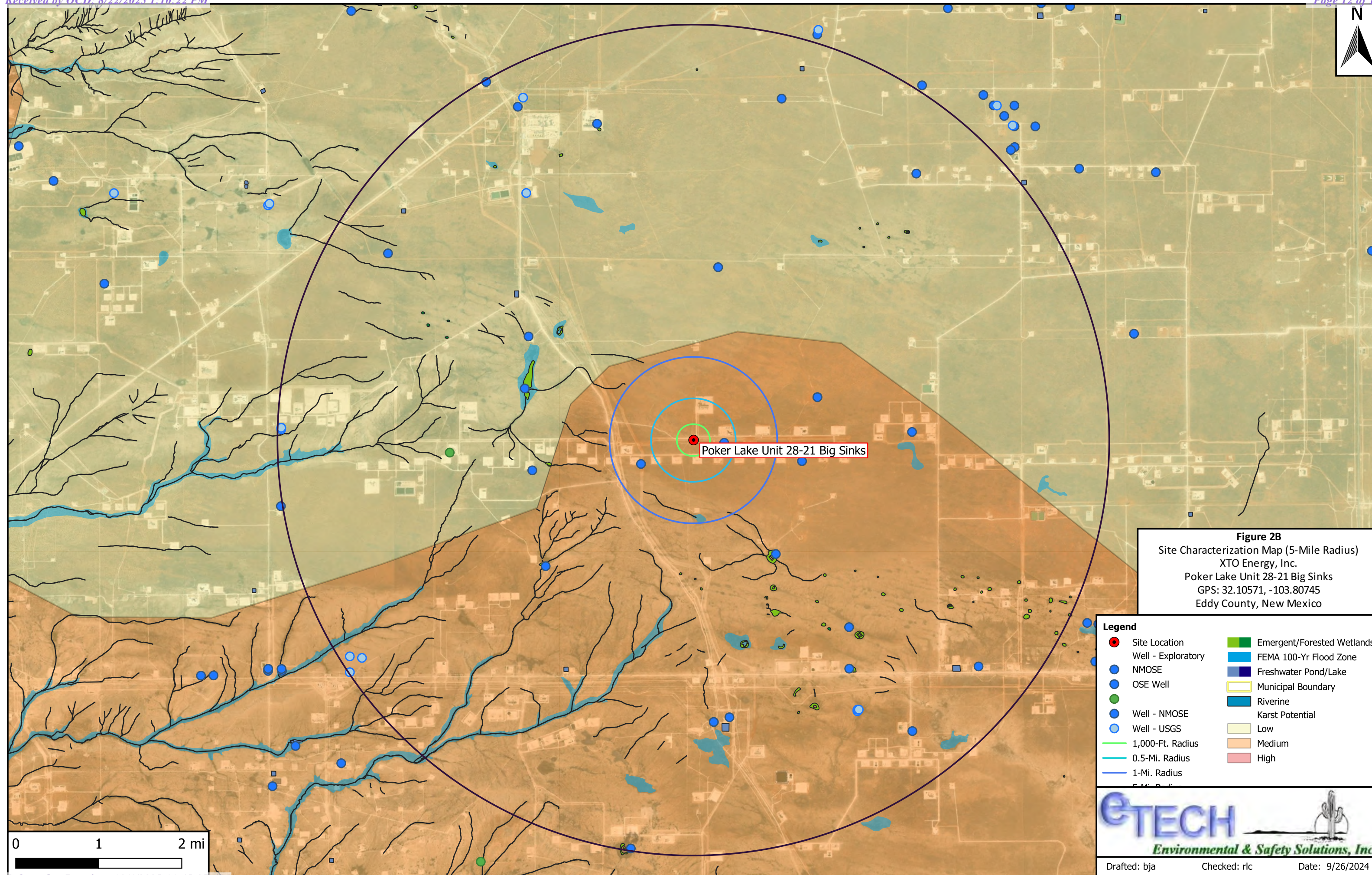
## **Figures 2A & 2B**

### **Site Characterization Maps**









**Figure 2B**  
Site Characterization Map (5-Mile Radius)  
XTO Energy, Inc.  
Poker Lake Unit 28-21 Big Sinks  
GPS: 32.10571, -103.80745  
Eddy County, New Mexico

- Legend**
- |                    |                            |
|--------------------|----------------------------|
| Site Location      | Emergent/Forested Wetlands |
| Well - Exploratory | FEMA 100-Yr Flood Zone     |
| NMOSE              | Freshwater Pond/Lake       |
| OSE Well           | Municipal Boundary         |
| Well - NMOSE       | Riverine                   |
| Well - USGS        | Karst Potential            |
| 1,000-Ft. Radius   | Low                        |
| 0.5-Mi. Radius     | Medium                     |
| 1-Mi. Radius       | High                       |

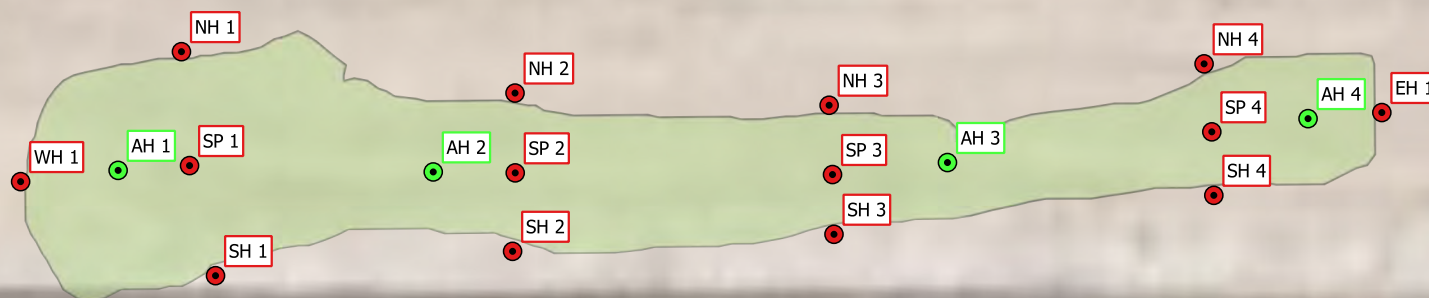
**ETECH** **Environmental & Safety Solutions, Inc.**

Drafted: bja      Checked: rlc      Date: 9/26/2024



## **Figure 3**

### **Sample Location Map**



10 0 10 20 ft

#### Legend

- Affected Area (1,136 ft<sup>2</sup>)
- Initial Delineation Sample Location
- Auger Borehole

**Figure 3**  
 Sample Location Map  
 XTO Energy, Inc.  
 Poker Lake Unit 28-21 Big Sinks  
 GPS: 32.10571, -103.80745  
 Eddy County, New Mexico



Drafted: bja

Checked: rlc

Date: 11/14/24

**Table 1**  
**Concentrations of BTEX, TPH & Chloride in Soil**

**Table 1**  
**Concentrations of BTEX, TPH, and Chloride in Soil**  
**XTO Energy, Inc.**  
**Poker Lake Unit 28-21 Big Sinks**  
**NMOCD Ref. #: nAPP2409248851**

NMOCD Closure Criteria				10	50	-	-	1,000	-	2,500	20,000
NMOCD Reclamation Standard				10	50	-	-	-	-	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C <sub>6</sub> -C <sub>10</sub> (mg/kg)	DRO C <sub>10</sub> -C <sub>28</sub> (mg/kg)	GRO + DRO C <sub>6</sub> -C <sub>28</sub> (mg/kg)	ORO C <sub>28</sub> -C <sub>36</sub> (mg/kg)	TPH C <sub>6</sub> -C <sub>36</sub> (mg/kg)	Chloride (mg/kg)
EH 1 @ SUR	5/15/2024	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
EH 1 @ 1'	5/15/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
NH 1 @ SUR	5/15/2024	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
NH 1 @ 1'	5/15/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
NH 2 @ SUR	5/15/2024	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
NH 2 @ 1'	5/15/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
NH 3 @ SUR	5/15/2024	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
NH 3 @ 1'	5/15/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
NH 4 @ SUR	5/15/2024	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
NH 4 @ 1'	5/15/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SH 1 @ SUR	5/15/2024	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SH 1 @ 1'	5/15/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SH 2 @ SUR	5/15/2024	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SH 2 @ 1'	5/15/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SH 3 @ SUR	5/15/2024	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SH 3 @ 1'	5/15/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SH 4 @ SUR	5/15/2024	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SH 4 @ 1'	5/15/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
WH 1 @ SUR	5/15/2024	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
WH 1 @ 1'	5/15/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SP 1 @ SUR	5/15/2024	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
SP 1 @ 1'	5/15/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
SP 2 @ SUR	5/15/2024	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
SP 2 @ 1'	5/15/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
SP 3 @ SUR	5/15/2024	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
SP 3 @ 1'	5/15/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
SP 4 @ SUR	5/15/2024	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SP 4 @ 1'	5/15/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
AH 1 @ Surf	10/30/2024	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
AH 1 @ 1'	10/30/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
AH 1 @ 2'	10/30/2024	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
AH 1 @ 3'	10/30/2024	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
AH 1 @ 4'	10/30/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
AH 2 @ Surf	10/30/2024	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
AH 2 @ 1'	10/30/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
AH 2 @ 2'	10/30/2024	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
AH 2 @ 3'	10/30/2024	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
AH 2 @ 4'	10/30/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
AH 3 @ Surf	10/30/2024	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
AH 3 @ 1'	10/30/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
AH 3 @ 2'	10/30/2024	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0

Dash (-): Sample not analyzed for that constituent.

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

Red Border with Shading: Highest observed concentration.

**Table 1**  
**Concentrations of BTEX, TPH, and Chloride in Soil**  
**XTO Energy, Inc.**  
**Poker Lake Unit 28-21 Big Sinks**  
**NMOCD Ref. #: nAPP2409248851**

<b>NMOCD Closure Criteria</b>				<b>10</b>	<b>50</b>	<b>-</b>	<b>-</b>	<b>1,000</b>	<b>-</b>	<b>2,500</b>	<b>20,000</b>
<b>NMOCD Reclamation Standard</b>				<b>10</b>	<b>50</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>100</b>	<b>600</b>
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C <sub>6</sub> -C <sub>10</sub> (mg/kg)	DRO C <sub>10</sub> -C <sub>28</sub> (mg/kg)	GRO + DRO C <sub>6</sub> -C <sub>28</sub> (mg/kg)	ORO C <sub>28</sub> -C <sub>36</sub> (mg/kg)	TPH C <sub>6</sub> -C <sub>36</sub> (mg/kg)	Chloride (mg/kg)
AH 3 @ 3'	10/30/2024	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
AH 3 @ 4'	10/30/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
AH 4 @ Surf	10/30/2024	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
AH 4 @ 1'	10/30/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
AH 4 @ 2'	10/30/2024	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
AH 4 @ 3'	10/30/2024	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
AH 4 @ 4'	10/30/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0

Dash (-): Sample not analyzed for that constituent.

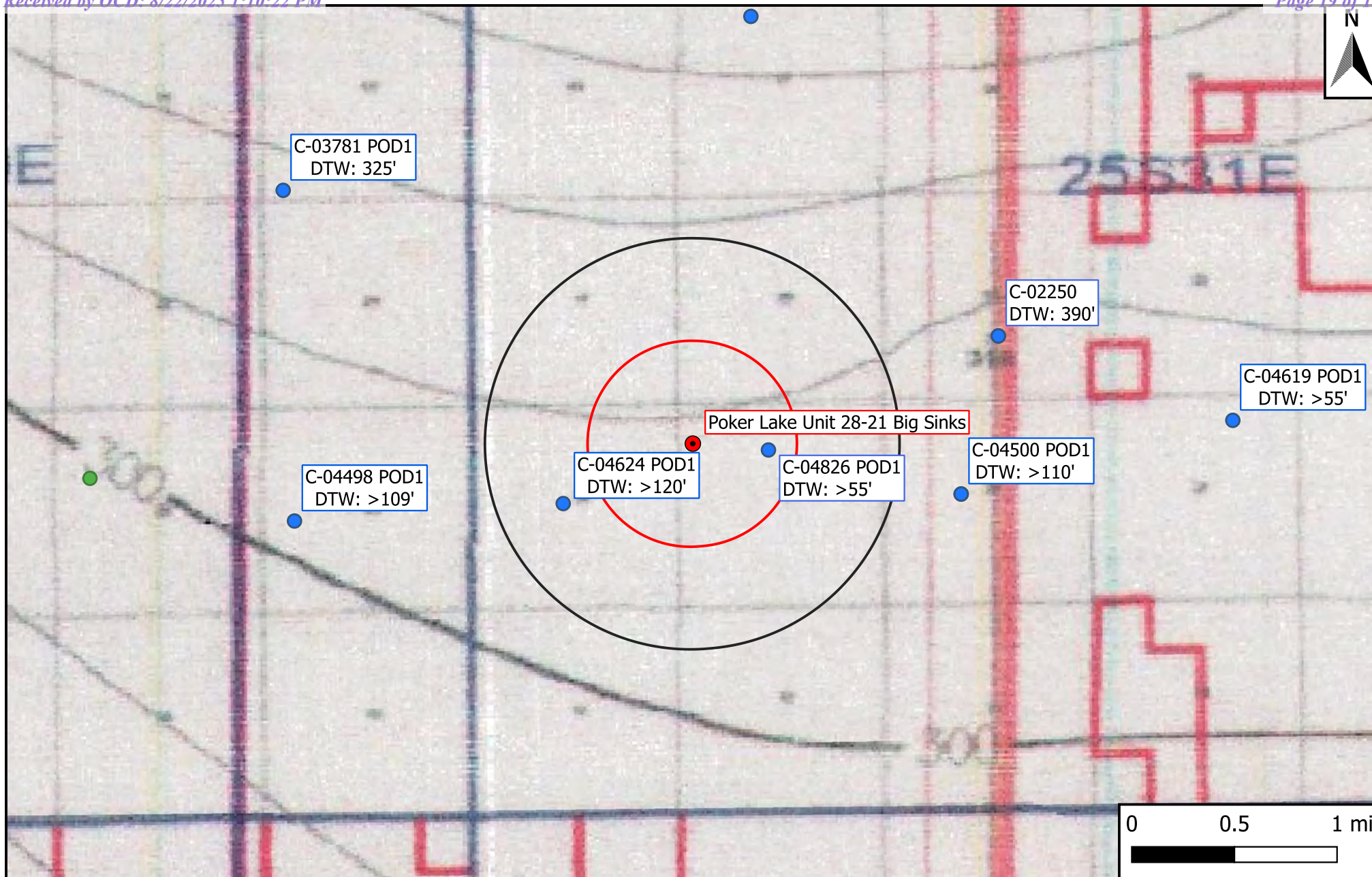
**Bold:** NMOCD Closure Criteria exceedance.**Red:** NMOCD Reclamation Standard exceedance.

Red Border with Shading: Highest observed concentration.

## **Appendix A**

### **Depth to Groundwater Information**





## Legend

- Site Location
- Well - Exploratory
- Well - NMOSE
- Well - USGS
- 0.5-Mile Radius
- 1-Mile Radius

## Figure 4

Inferred Depth to Groundwater Map  
 XTO Energy, Inc.  
 Poker Lake Unit 28-21 Big Sinks  
 GPS: 32.10571, -103.80745  
 Eddy County, New Mexico









Drafted: bja

Checked: rlc

Date: 9/26/24


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 smallest to largest)								(NAD83 UTM in meters)				(In feet)	(In feet)	(In feet)	
POD Number	Code	Sub basin	County	Q64	Q16	Q4	Sec	Tws	Range	X	Y	Map	Distance	Well Depth	Depth Water	Water Column
<a href="#">C 04826 POD1</a>		CUB	ED	SE	NE	NW	29	25S	31E	613109.6	3552725.7		594	55		
<a href="#">C 04624 POD1</a>		CUB	ED	SE	SE	NW	30	25S	31E	611500.8	3552305.4		1119	120	0	120
<a href="#">C 04500 POD1</a>		CUB	ED	SE	SE	NW	28	25S	31E	614620.2	3552380.1		2140			
<a href="#">C 02250</a>		CUB	ED	SW	NW	SE	21	25S	31E	614912.0	3553620.0 *		2539	400	390	10
<a href="#">C 04498 POD1</a>		CUB	ED	NE	NW	SW	25	25S	30E	609394.3	3552168.6		3180	109		
<a href="#">C 03781 POD1</a>		CUB	ED	SW	SW	SW	13	25S	30E	609305.9	3554761.9		3775	720	325	395
														Average Depth to Water: <b>238 feet</b>		
														Minimum Depth: <b>0 feet</b>		
														Maximum Depth: <b>390 feet</b>		
<div></div>																
<b>Record Count:</b> 6																
<b>UTM Filters (in meters):</b>																
<b>Easting:</b> 612516.85																
<b>Northing:</b> 3552775.34																
<b>Radius:</b> 4024																
* UTM location was derived 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.



# Point of Diversion Summary

		quarters are 1=NW 2=NE 3=SW 4=SE quarters are smallest to largest						NAD83 UTM in meters		
Well Tag	POD Nbr	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Map
NA	C 04826 POD1	SE	NE	NW	29	25S	31E	613109.6	3552725.7	

\* UTM location was derived from PLSS - see Help

<b>Driller License:</b>	1833	<b>Driller Company:</b>	VISION RESOURCES, INC		
<b>Driller Name:</b>	MALEY, JASONASTR.L.L W.				
<b>Drill Start Date:</b>	2024-05-29	<b>Drill Finish Date:</b>	2024-05-29	<b>Plug Date:</b>	2024-06-03
<b>Log File Date:</b>	2024-06-05	<b>PCW Rcv Date:</b>		<b>Source:</b>	
<b>Pump Type:</b>		<b>Pipe Discharge Size:</b>		<b>Estimated Yield:</b>	
<b>Casing Size:</b>	2.00	<b>Depth Well:</b>	55	<b>Depth Water:</b>	

## Casing Perforations:

Top	Bottom
45	55

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.



# PLUGGING RECORD



**NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC**

## I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: C-4826 POD 1

Well owner: XTO Energy

Phone No.: \_\_\_\_\_

Mailing address: 3104 E. Greene Street

City: Carlsbad State: NM Zip code: 88220

## II. WELL PLUGGING INFORMATION:

- 1) Name of well drilling company that plugged well: Vision Resources
- 2) New Mexico Well Driller License No.: 1833 Expiration Date: 10-7-25
- 3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Jason Maley
- 4) Date well plugging began: 6-3-24 Date well plugging concluded: 6-3-24
- 5) GPS Well Location: Latitude: 32 deg, 06 min, 18.7344 sec  
Longitude: -103 deg, 48 min, 04.230 sec, WGS 84
- 6) Depth of well confirmed at initiation of plugging as: 55 ft below ground level (bgl),  
by the following manner: Tape
- 7) Static water level measured at initiation of plugging: Dry ft bgl
- 8) Date well plugging plan of operations was approved by the State Engineer: 03-14-2024
- 9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

OSC ON JUN 5 2024 PM 1:25

- 10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

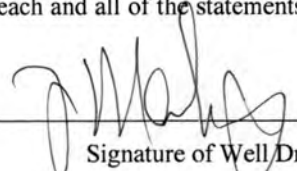
For each interval plugged, describe within the following columns:

Depth (ft bgl)	Plugging Material Used (include any additives used)	Volume of Material Placed (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement Method (tremie pipe, other)	Comments ("casing perforated first", "open annular space also plugged", etc.)
0		77.50	77.50	Tremie Pipe Open hole	
	Wyoming Bentonite				
55'					

MULTIPLY	BY	AND OBTAIN
cubic feet x	7.4805	= gallons
cubic yards x	201.97	= gallons

### III. SIGNATURE:

I, Jason Maley, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.


  
\_\_\_\_\_  
Signature of Well Driller

6/3/24  
\_\_\_\_\_  
Date

# Point of Diversion Summary

quarters are 1=NW 2=NE 3=SW 4=SE  
quarters are smallest to largest

NAD83 UTM in meters

Well Tag	POD Nbr	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Map
NA	C 04624 POD1	SE	SE	NW	30	25S	31E	611500.8	3552305.4	

\* UTM location was derived from PLSS - see Help

Driller License:	1184	Driller Company:	WEST TEXAS WATER WELL SERVICE
Driller Name:	RUSSELL SOUTHERLAND		
Drill Start Date:	2022-06-22	Drill Finish Date:	2022-06-22
Log File Date:	2022-07-25	PCW Rcv Date:	Source:
Pump Type:	Pipe Discharge Size:	Estimated Yield:	0
Casing Size:	Depth Well:	120	Depth Water:
			0

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.





# WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

[www.ose.state.nm.us](http://www.ose.state.nm.us)

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) C-4624 POD 1		WELL TAG ID NO.		OSE FILE NO(S). C-4624			
	WELL OWNER NAME(S) XTO ENERGY INC				PHONE (OPTIONAL) 432-236-3808			
	WELL OWNER MAILING ADDRESS 6401 HOLIDAY HILL ROAD				CITY MIDLAND	STATE TX	ZIP 79707	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 6	SECONDS 5.66 N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND			
		LONGITUDE -103	49	5.79 W	* DATUM REQUIRED: WGS 84			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE ON POKER LAKE UNIT 30 BS # 103H PAD								
2. DRILLING & CASING INFORMATION	LICENSE NO. WD-1184		NAME OF LICENSED DRILLER RUSSELL SOUTHERLAND			NAME OF WELL DRILLING COMPANY WEST TEXAS WATER WELL SERVICE		
	DRILLING STARTED 06/22/22	DRILLING ENDED 06/22/22	DEPTH OF COMPLETED WELL (FT) 120	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)			
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) N/A			
	DRILLING FLUID: <input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER - SPECIFY:							
	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM. (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
				NO CASING IN HOLE				
3. ANNULAR MATERIAL	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
				N/A				

FOR OSE INTERNAL USE


WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO. C-4624-POD1	POD NO. POD1	TRN NO. 726169
LOCATION 25S.31E.30.4.4.1	WELL TAG ID NO. —	PAGE 1 OF 2

#### 4. HYDROGEOLOGIC LOG OF WELL

FOR OSE INTERNAL USE

# Point of Diversion Summary

quarters are 1=NW 2=NE 3=SW 4=SE quarters are smallest to largest										NAD83 UTM in meters	
Well Tag	POD Nbr	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Map	
NA	C 04500 POD1	SE	SE	NW	28	25S	31E	614620.2	3552380.1		

\* UTM location was derived from PLSS - see Help

Driller License:	1249	Driller Company:	ATKINS ENGINEERING ASSOC. INC.		
Driller Name:	ATKINS, JACKIE D.UELENER				
Drill Start Date:	2021-03-24	Drill Finish Date:	2021-03-24	Plug Date:	2021-04-27
Log File Date:	2021-05-05	PCW Rcv Date:	Source:		
Pump Type:	Pipe Discharge Size:		Estimated Yield:		
Casing Size:	Depth Well:		Depth Water:		

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.





# WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

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1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD1 (BH-01)		WELL TAG ID NO. n/a		OSE FILE NO(S). C-4500			
	WELL OWNER NAME(S) XTO Energy (Kyle Littrell)				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS 6401 Holiday Hill Dr.				CITY Midland	STATE TX	ZIP 79707	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 6	SECONDS 6.96 N	• ACCURACY REQUIRED: ONE TENTH OF A SECOND			
		LONGITUDE 103	47	6.75 W	• DATUM REQUIRED: WGS 84			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE SE NW Sec. 28 T25S R31E								
2. DRILLING & CASING INFORMATION	LICENSE NO. 1249		NAME OF LICENSED DRILLER Jackie D. Atkins			NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc.		
	DRILLING STARTED 03/24/2021		DRILLING ENDED 03/24/2021		DEPTH OF COMPLETED WELL (FT) temporary well material	BORE HOLE DEPTH (FT) 110	DEPTH WATER FIRST ENCOUNTERED (FT) n/a	
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) n/a		
	DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Hollow Stem Auger							
	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0	110	±6.5	Boring- HSA	--	--	--	--
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/30/17)

FILE NO.	C-4500	POD NO.	1	TRN NO.	682534
LOCATION	Exp	25S.31E.28.144	WELL TAG ID NO.	—	PAGE 1 OF 2




4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	FROM	TO				
	0	1	1	Caliche, no odor, no stain, tan, light-brown	Y ✓ N	
	1	3	2	Sand, no odor, no stain, m-f, well sorted, brown, trace silt, low consolidation	Y ✓ N	
	3	7	4	Sandy clay, no odor, no stain, m-f, brown, well sorted, low plasticity, cohesive	Y ✓ N	
	7	23	16	Caliche, tan, light brown sand, m-f grained, poorly sorted, low consolidation	Y ✓ N	
	23	110	87	sand, brown, no odor, no stain, fine grained, well sorted, low consolidation	Y ✓ N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: <input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER - SPECIFY:					TOTAL ESTIMATED WELL YIELD (gpm): 0.00	

5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.
	MISCELLANEOUS INFORMATION: PLU 28 BS 126H, Temporary well materials removed and the soil boring backfilled using drill cuttings from total depth to ten feet below ground surface, then hydrated bentonite chips from ten feet below ground surface to surface. Logs adapted from WSP on-site geologist.	
	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Shane Eldridge	

6. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:	
	 Jackie D. Atkins SIGNATURE OF DRILLER / PRINT SIGNEE NAME	05/05/2021 DATE

FOR OSE INTERNAL USE


WR-20 WELL RECORD &amp; LOG (Version 06/30/2017)

FILE NO. C-4500	POD NO. 1	TRN NO. 482534
LOCATION	WELL TAG ID NO.	PAGE 2 OF 2

Point of Diversion Summary

quarters are 1=NW 2=NE 3=SW 4=SE  
quarters are smallest to largest

NAD83 UTM in meters

Well Tag	POD Nbr	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Map
	C 02250	SW	NW	SE	21	25S	31E	614912.0	3553620.0 *	

\* UTM location was derived from PLSS - see Help

Driller License:

Driller Company:

Driller Name:

UNKNOWN

Drill Start Date:

Drill Finish Date:

1941-12-31

Plug Date:

Log File Date:

PCW Rcv Date:

Source:

Pump Type:

Pipe Discharge Size:

Estimated Yield:

6

Casing Size:

8.63

Depth Well:


400

Depth Water:

390

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.

# Point of Diversion Summary

		quarters are 1=NW 2=NE 3=SW 4=SE quarters are smallest to largest						NAD83 UTM in meters		
Well Tag	POD Nbr	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Map
NA	C 04498 POD1	NE	NW	SW	25	25S	30E	609394.3	3552168.6	

\* UTM location was derived from PLSS - see Help

Driller License:	1249	Driller Company:	ATKINS ENGINEERING ASSOC. INC.			
Driller Name:	JAKCIE D ATKINS					
Drill Start Date:	2021-02-24	Drill Finish Date:	2021-02-24		Plug Date:	2021-03-02
Log File Date:	2021-03-11	PCW Rcv Date:			Source:	
Pump Type:	Pipe Discharge Size:				Estimated Yield:	0
Casing Size:	Depth Well:		109		Depth Water:	

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.



# WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

[www.ose.state.nm.us](http://www.ose.state.nm.us)

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD1 (BH-01)		WELL TAG ID NO. n/a		OSE FILE NO(S). C-4498			
	WELL OWNER NAME(S) XTO Energy (Kyle Littrell)				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS 6401 Holiday Hill Dr.				CITY Midland	STATE TX	ZIP 79707	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32°	MINUTES 6'	SECONDS 1.96" N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND			
		LONGITUDE -103°	50'	26.19" W	* DATUM REQUIRED: WGS 84			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE NW SW NE Sec. 25 T25S R30E								
2. DRILLING & CASING INFORMATION	LICENSE NO. 1249		NAME OF LICENSED DRILLER Jackie D. Atkins			NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc.		
	DRILLING STARTED 02/24/2021		DRILLING ENDED 02/24/2021		DEPTH OF COMPLETED WELL (FT) temporary well material	BORE HOLE DEPTH (FT) 109	DEPTH WATER FIRST ENCOUNTERED (FT) n/a	
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) n/a		
	DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Hollow Stem Auger							
	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0	109	±6.5	Boring- HSA	--	--	--	--
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/30/17)

FILE NO. C- 4498	POD NO. 1	TRN NO. 682528
LOCATION 132 T25S R30E Sec 25	WELL TAG ID NO. NA	PAGE 1 OF 2


4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	FROM	TO				
	0	34	34	Caliche, tan, no odor, no stain, gravel, dry	Y    ✓ N	
	34	40	6	sand/ caliche, tan, no odor, no stain, m-f grain, well sorted, dry	Y    ✓ N	
	40	56	16	sand, tan, no odor, no stain, m-f grain, well sorted, dry	Y    ✓ N	
	56	72	16	sandstone, low consolidation, tan, no odor, no stain, m-f grain, well sorted, dry	Y    ✓ N	
	72	79	7	sand, tan, no odor, no stain, m-f grain, well sorted, dry	Y    ✓ N	
	79	109	30	sandstone, low - medium consolidation, tan, no odor, m-f grained, well sorted, m	Y    ✓ N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: <input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER - SPECIFY:					TOTAL ESTIMATED WELL YIELD (gpm):            0.00	

5. TEST; RIG SUPERVISION	WELL TEST		TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.
MISCELLANEOUS INFORMATION:			Temporary well materials removed and the soil boring backfilled using drill cuttings from total depth to ten feet below ground surface, then hydrated bentonite chips from ten feet below ground surface to surface. Logs adapted from WSP on-site geologist.
PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:			Shane Eldridge <div>USE DTMAR 11 2021 PM 4:26</div>

6. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:	
<div>Jackie D. Atkins</div> <div>Jackie D. Atkins</div>	<div>03/11/2021</div> <div>DATE</div>	<div>SIGNATURE OF DRILLER / PRINT SIGNED NAME</div>

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 06/30/2017)	
FILE NO. C-4498	POD NO. 1	TRN NO. 682528	
LOCATION 132 T2-55 R30E Sec 25	WELL TAG ID NO. NA	PAGE 2 OF 2	

# Point of Diversion Summary

quarters are 1=NW 2=NE 3=SW 4=SE quarters are smallest to largest				NAD83 UTM in meters						
Well Tag	POD Nbr	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Map
	C 03781 POD1	SW	SW	SW	13	25S	30E	609305.9	3554761.9	

\* UTM location was derived from PLSS - see Help

Driller License:	331	Driller Company:	SBQ2, LLC DBA STEWART BROTHERS DRILLING CO.				
Driller Name:	STEWART, JOEL H.						
Drill Start Date:	2015-01-08	Drill Finish Date:	2015-01-10			Plug Date:	
Log File Date:	2015-02-19	PCW Rcv Date:				Source: Artesian	
Pump Type:			Pipe Discharge Size:				Estimated Yield:
Casing Size:	8.63	Depth Well:	720			Depth Water: 325	

## Water Bearing Stratifications:

Top	Bottom	Description
200	370	Sandstone/Gravel/Conglomerate
370	390	Sandstone/Gravel/Conglomerate
390	410	Sandstone/Gravel/Conglomerate
410	440	Sandstone/Gravel/Conglomerate
440	460	Shale/Mudstone/Siltstone
460	470	Shale/Mudstone/Siltstone
470	490	Shale/Mudstone/Siltstone
490	500	Shale/Mudstone/Siltstone
500	510	Sandstone/Gravel/Conglomerate
510	530	Shale/Mudstone/Siltstone
530	660	Shale/Mudstone/Siltstone
660	690	Shale/Mudstone/Siltstone

Top	Bottom	Description
690	700	Shale/Mudstone/Siltstone
700	720	Shale/Mudstone/Siltstone

### Casing Perforations:

Top	Bottom
340	720

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.


9/26/24 4:18 PM MST

Point of Diversion Summary

# Point of Diversion Summary

quarters are 1=NW 2=NE 3=SW 4=SE  
quarters are smallest to largest

NAD83 UTM in meters

Well Tag	POD Nbr	Q64	Q16	Q4	Sec	Tw	Rng	X	Y	Map
NA	C 04619 POD1	NE	NW	NE	27	25S	31E	616749.8	3552958.1	

\* UTM location was derived from PLSS - see Help

Driller License:	1249	Driller Company:	ATKINS ENGINEERING ASSOC. INC.		
Driller Name:	ATKINS, JACKIE D.UELENER				
Drill Start Date:	2022-06-02	Drill Finish Date:	2022-06-02	Plug Date:	2022-06-06
Log File Date:	2022-06-10	PCW Rcv Date:		Source:	
Pump Type:		Pipe Discharge Size:		Estimated Yield:	0
Casing Size:		Depth Well:	55	Depth Water:	

## Casing Perforations:

Top	Bottom
0	55

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.





# WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

[www.ose.state.nm.us](http://www.ose.state.nm.us)

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD 1 (TW-1)		WELL TAG ID NO. N/A		OSE FILE NO(S). C-4619		
	WELL OWNER NAME(S) Devon Energy				PHONE (OPTIONAL) 575-748-1838		
	WELL OWNER MAILING ADDRESS 6488 7 Rivers Hwy				CITY Artesia	STATE NM	
					ZIP 88210		
WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32		MINUTES 6	SECONDS 24.94	N		
	LONGITUDE 103		45	45.26	W		
* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84							
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE NE NW NE Sec.27 T25S R31S NMPM							
2. DRILLING & CASING INFORMATION	LICENSE NO. 1249		NAME OF LICENSED DRILLER Jackie D. Atkins			NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc.	
	DRILLING STARTED 6/2/2022		DRILLING ENDED 6/2/2022		DEPTH OF COMPLETED WELL (FT) Temporary Well		
			BORE HOLE DEPTH (FT) ±55		DEPTH WATER FIRST ENCOUNTERED (FT) N/A		
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) N/A		
					DATE STATIC MEASURED 6/7/2022		
	DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:						
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Hollow Stem Auger						
	CHECK HERE IF PITLESS ADAPTER IS INSTALLED <input type="checkbox"/>						
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)
	FROM	TO					
0	55	±6.5	Boring-HSA	--	--	--	
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT	
	FROM	TO					

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 01/28/2022)

FILE NO. C-4619-POD1	POD NO. POD1	TRN NO. 725954
LOCATION 255 31E 27	2-1-2	WELL TAG ID NO. N/A

PAGE 1 OF 2

#### 4. HYDROGEOLOGIC LOG OF WELL

### 5. TEST: RIG SUPERVISION

### 5. SIGNATURE

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 01/28/2022)	
FILE NO.	C-4619	POD NO.	POD1
LOCATION	755 315 27	WELL TAG ID NO	2-1.2
			PAGE 2 OF 2

## **Appendix B**

### **Field Data**





## Sample Log

Date:

5-15-24

Project: Poker Lake Unit 28-21 Big Sinks

Project Number: 20159

Latitude: 32.1056174

Longitude: -103.8077243

[illegible]

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

Soil Intended to be Deferred = SP #1 @ 4' In-Situ

Resamples= SP #1 @ 5b or SW #1b

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas

### Sample Log

Date:

10/30/24

Project: Poker Lake Unit 28-21 Big Sinks

Project Number: 20159

Latitude: 32.10571

Longitude: -103.80745

[illegible]

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

Soil Intended to be Deferred = SP #1 @ 4' In-Situ

Resamples= SP #1 @ 5b or SW #1b

**Stockpile = Stockpile #1**


GPS Sample Points, Center of Comp Areas

## **Appendix C**

### **Photographic Log**



## Photographic Log

<b>Photo Number:</b> 1	
<b>Photo Direction:</b> West-Southwest	
<b>Photo Description:</b>  View of the affected area.	

<b>Photo Number:</b> 2	
<b>Photo Direction:</b> East	
<b>Photo Description:</b>  View of the affected area.	

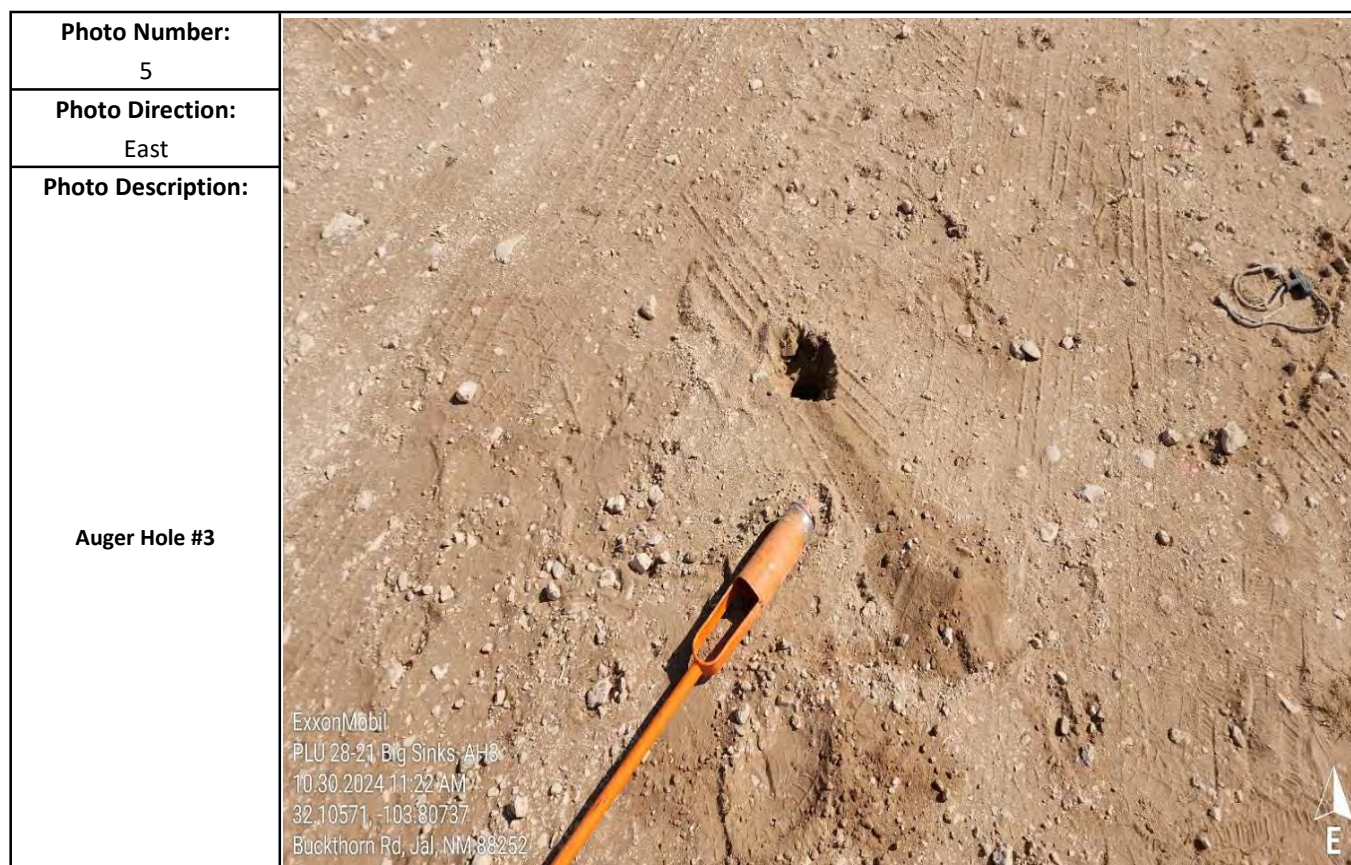


## Photographic Log





## Photographic Log



## **Appendix D**

### **Laboratory Analytical Reports**





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

---

May 22, 2024

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: POKER LAKE UNIT 28-21 BIG SINKS

Enclosed are the results of analyses for samples received by the laboratory on 05/16/24 15:37.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. 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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited 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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 05/16/2024  
 Reported: 05/22/2024  
 Project Name: POKER LAKE UNIT 28-21 BIG SINKS  
 Project Number: 20159  
 Project Location: XTO 32.1056174,-103.8077243

Sampling Date: 05/15/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SP 1 @ SUR (H242730-01)**

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/20/2024	ND	2.13	107	2.00	11.2		
Toluene*	<0.050	0.050	05/20/2024	ND	2.14	107	2.00	12.3		
Ethylbenzene*	<0.050	0.050	05/20/2024	ND	2.15	108	2.00	11.7		
Total Xylenes*	<0.150	0.150	05/20/2024	ND	6.36	106	6.00	12.3		
Total BTX	<0.300	0.300	05/20/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	05/20/2024	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	05/17/2024	ND	188	93.8	200	1.32	
DRO >C10-C28*	<10.0	10.0	05/17/2024	ND	191	95.3	200	0.0598	
EXT DRO >C28-C36	<10.0	10.0	05/17/2024	ND					

Surrogate: 1-Chlorooctane 77.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.5 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 05/16/2024  
 Reported: 05/22/2024  
 Project Name: POKER LAKE UNIT 28-21 BIG SINKS  
 Project Number: 20159  
 Project Location: XTO 32.1056174,-103.8077243

Sampling Date: 05/15/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SP 2 @ SUR (H242730-02)**

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/20/2024	ND	2.13	107	2.00	11.2		
Toluene*	<0.050	0.050	05/20/2024	ND	2.14	107	2.00	12.3		
Ethylbenzene*	<0.050	0.050	05/20/2024	ND	2.15	108	2.00	11.7		
Total Xylenes*	<0.150	0.150	05/20/2024	ND	6.36	106	6.00	12.3		
Total BTX	<0.300	0.300	05/20/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	05/20/2024	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	05/17/2024	ND	188	93.8	200	1.32	
DRO >C10-C28*	<10.0	10.0	05/17/2024	ND	191	95.3	200	0.0598	
EXT DRO >C28-C36	<10.0	10.0	05/17/2024	ND					

Surrogate: 1-Chlorooctane 77.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.1 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 05/16/2024  
 Reported: 05/22/2024  
 Project Name: POKER LAKE UNIT 28-21 BIG SINKS  
 Project Number: 20159  
 Project Location: XTO 32.1056174,-103.8077243

Sampling Date: 05/15/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SP 3 @ SUR (H242730-03)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/20/2024	ND	2.13	107	2.00	11.2		
Toluene*	<0.050	0.050	05/20/2024	ND	2.14	107	2.00	12.3		
Ethylbenzene*	<0.050	0.050	05/20/2024	ND	2.15	108	2.00	11.7		
Total Xylenes*	<0.150	0.150	05/20/2024	ND	6.36	106	6.00	12.3		
Total BTEx	<0.300	0.300	05/20/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	05/20/2024	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	05/17/2024	ND	188	93.8	200	1.32	
DRO >C10-C28*	<10.0	10.0	05/17/2024	ND	191	95.3	200	0.0598	
EXT DRO >C28-C36	<10.0	10.0	05/17/2024	ND					

Surrogate: 1-Chlorooctane 77.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.1 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 05/16/2024  
 Reported: 05/22/2024  
 Project Name: POKER LAKE UNIT 28-21 BIG SINKS  
 Project Number: 20159  
 Project Location: XTO 32.1056174,-103.8077243

Sampling Date: 05/15/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SP 4 @ SUR (H242730-04)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/20/2024	ND	2.13	107	2.00	11.2		
Toluene*	<0.050	0.050	05/20/2024	ND	2.14	107	2.00	12.3		
Ethylbenzene*	<0.050	0.050	05/20/2024	ND	2.15	108	2.00	11.7		
Total Xylenes*	<0.150	0.150	05/20/2024	ND	6.36	106	6.00	12.3		
Total BTEx	<0.300	0.300	05/20/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/20/2024	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	05/17/2024	ND	188	93.8	200	1.32	
DRO >C10-C28*	<10.0	10.0	05/17/2024	ND	191	95.3	200	0.0598	
EXT DRO >C28-C36	<10.0	10.0	05/17/2024	ND					

Surrogate: 1-Chlorooctane 90.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.0 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 05/16/2024  
 Reported: 05/22/2024  
 Project Name: POKER LAKE UNIT 28-21 BIG SINKS  
 Project Number: 20159  
 Project Location: XTO 32.1056174,-103.8077243

Sampling Date: 05/15/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: NH 1 @ SUR (H242730-05)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/20/2024	ND	2.13	107	2.00	11.2	
Toluene*	<0.050	0.050	05/20/2024	ND	2.14	107	2.00	12.3	
Ethylbenzene*	<0.050	0.050	05/20/2024	ND	2.15	108	2.00	11.7	
Total Xylenes*	<0.150	0.150	05/20/2024	ND	6.36	106	6.00	12.3	
Total BTEx	<0.300	0.300	05/20/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/20/2024	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	05/17/2024	ND	188	93.8	200	1.32	
DRO >C10-C28*	<10.0	10.0	05/17/2024	ND	191	95.3	200	0.0598	
EXT DRO >C28-C36	<10.0	10.0	05/17/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 05/16/2024  
 Reported: 05/22/2024  
 Project Name: POKER LAKE UNIT 28-21 BIG SINKS  
 Project Number: 20159  
 Project Location: XTO 32.1056174,-103.8077243

Sampling Date: 05/15/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: NH 2 @ SUR (H242730-06)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/20/2024	ND	2.13	107	2.00	11.2		
Toluene*	<0.050	0.050	05/20/2024	ND	2.14	107	2.00	12.3		
Ethylbenzene*	<0.050	0.050	05/20/2024	ND	2.15	108	2.00	11.7		
Total Xylenes*	<0.150	0.150	05/20/2024	ND	6.36	106	6.00	12.3		
Total BTEX	<0.300	0.300	05/20/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/20/2024	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	05/17/2024	ND	188	93.8	200	1.32	
DRO >C10-C28*	<10.0	10.0	05/17/2024	ND	191	95.3	200	0.0598	
EXT DRO >C28-C36	<10.0	10.0	05/17/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 05/16/2024  
 Reported: 05/22/2024  
 Project Name: POKER LAKE UNIT 28-21 BIG SINKS  
 Project Number: 20159  
 Project Location: XTO 32.1056174,-103.8077243

Sampling Date: 05/15/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: NH 3 @ SUR (H242730-07)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/20/2024	ND	2.13	107	2.00	11.2	
Toluene*	<0.050	0.050	05/20/2024	ND	2.14	107	2.00	12.3	
Ethylbenzene*	<0.050	0.050	05/20/2024	ND	2.15	108	2.00	11.7	
Total Xylenes*	<0.150	0.150	05/20/2024	ND	6.36	106	6.00	12.3	
Total BTEX	<0.300	0.300	05/20/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/20/2024	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	05/17/2024	ND	188	93.8	200	1.32	
DRO >C10-C28*	<10.0	10.0	05/17/2024	ND	191	95.3	200	0.0598	
EXT DRO >C28-C36	<10.0	10.0	05/17/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 05/16/2024  
 Reported: 05/22/2024  
 Project Name: POKER LAKE UNIT 28-21 BIG SINKS  
 Project Number: 20159  
 Project Location: XTO 32.1056174,-103.8077243

Sampling Date: 05/15/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: NH 4 @ SUR (H242730-08)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/20/2024	ND	2.13	107	2.00	11.2	
Toluene*	<0.050	0.050	05/20/2024	ND	2.14	107	2.00	12.3	
Ethylbenzene*	<0.050	0.050	05/20/2024	ND	2.15	108	2.00	11.7	
Total Xylenes*	<0.150	0.150	05/20/2024	ND	6.36	106	6.00	12.3	
Total BTEX	<0.300	0.300	05/20/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/20/2024	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	05/17/2024	ND	188	93.8	200	1.32	
DRO >C10-C28*	<10.0	10.0	05/17/2024	ND	191	95.3	200	0.0598	
EXT DRO >C28-C36	<10.0	10.0	05/17/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 05/16/2024  
 Reported: 05/22/2024  
 Project Name: POKER LAKE UNIT 28-21 BIG SINKS  
 Project Number: 20159  
 Project Location: XTO 32.1056174,-103.8077243

Sampling Date: 05/15/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: WH 1 @ SUR (H242730-09)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/20/2024	ND	2.13	107	2.00	11.2		
Toluene*	<0.050	0.050	05/20/2024	ND	2.14	107	2.00	12.3		
Ethylbenzene*	<0.050	0.050	05/20/2024	ND	2.15	108	2.00	11.7		
Total Xylenes*	<0.150	0.150	05/20/2024	ND	6.36	106	6.00	12.3		
Total BTEX	<0.300	0.300	05/20/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/20/2024	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	05/17/2024	ND	174	86.9	200	2.67	
DRO >C10-C28*	<10.0	10.0	05/17/2024	ND	166	83.1	200	5.64	
EXT DRO >C28-C36	<10.0	10.0	05/17/2024	ND					

Surrogate: 1-Chlorooctane 93.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 05/16/2024  
 Reported: 05/22/2024  
 Project Name: POKER LAKE UNIT 28-21 BIG SINKS  
 Project Number: 20159  
 Project Location: XTO 32.1056174,-103.8077243

Sampling Date: 05/15/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: EH 1 @ SUR (H242730-10)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/20/2024	ND	2.13	107	2.00	11.2		
Toluene*	<0.050	0.050	05/20/2024	ND	2.14	107	2.00	12.3		
Ethylbenzene*	<0.050	0.050	05/20/2024	ND	2.15	108	2.00	11.7		
Total Xylenes*	<0.150	0.150	05/20/2024	ND	6.36	106	6.00	12.3		
Total BTEx	<0.300	0.300	05/20/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/20/2024	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	05/17/2024	ND	174	86.9	200	2.67	
DRO >C10-C28*	<10.0	10.0	05/17/2024	ND	166	83.1	200	5.64	
EXT DRO >C28-C36	<10.0	10.0	05/17/2024	ND					

Surrogate: 1-Chlorooctane 93.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 05/16/2024  
 Reported: 05/22/2024  
 Project Name: POKER LAKE UNIT 28-21 BIG SINKS  
 Project Number: 20159  
 Project Location: XTO 32.1056174,-103.8077243

Sampling Date: 05/15/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SH 1 @ SUR (H242730-11)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/20/2024	ND	2.13	107	2.00	11.2		
Toluene*	<0.050	0.050	05/20/2024	ND	2.14	107	2.00	12.3		
Ethylbenzene*	<0.050	0.050	05/20/2024	ND	2.15	108	2.00	11.7		
Total Xylenes*	<0.150	0.150	05/20/2024	ND	6.36	106	6.00	12.3		
Total BTEx	<0.300	0.300	05/20/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/20/2024	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	05/17/2024	ND	174	86.9	200	2.67	
DRO >C10-C28*	<10.0	10.0	05/17/2024	ND	166	83.1	200	5.64	
EXT DRO >C28-C36	<10.0	10.0	05/17/2024	ND					

Surrogate: 1-Chlorooctane 98.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 05/16/2024  
 Reported: 05/22/2024  
 Project Name: POKER LAKE UNIT 28-21 BIG SINKS  
 Project Number: 20159  
 Project Location: XTO 32.1056174,-103.8077243

Sampling Date: 05/15/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SH 2 @ SUR (H242730-12)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/20/2024	ND	2.13	107	2.00	11.2	
Toluene*	<0.050	0.050	05/20/2024	ND	2.14	107	2.00	12.3	
Ethylbenzene*	<0.050	0.050	05/20/2024	ND	2.15	108	2.00	11.7	
Total Xylenes*	<0.150	0.150	05/20/2024	ND	6.36	106	6.00	12.3	
Total BTEX	<0.300	0.300	05/20/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/20/2024	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	05/17/2024	ND	174	86.9	200	2.67	
DRO >C10-C28*	<10.0	10.0	05/17/2024	ND	166	83.1	200	5.64	
EXT DRO >C28-C36	<10.0	10.0	05/17/2024	ND					

Surrogate: 1-Chlorooctane 91.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 05/16/2024  
 Reported: 05/22/2024  
 Project Name: POKER LAKE UNIT 28-21 BIG SINKS  
 Project Number: 20159  
 Project Location: XTO 32.1056174,-103.8077243

Sampling Date: 05/15/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SH 3 @ SUR (H242730-13)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/20/2024	ND	2.13	107	2.00	11.2	
Toluene*	<0.050	0.050	05/20/2024	ND	2.14	107	2.00	12.3	
Ethylbenzene*	<0.050	0.050	05/20/2024	ND	2.15	108	2.00	11.7	
Total Xylenes*	<0.150	0.150	05/20/2024	ND	6.36	106	6.00	12.3	
Total BTX	<0.300	0.300	05/20/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/20/2024	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	05/18/2024	ND	174	86.9	200	2.67	
DRO >C10-C28*	<10.0	10.0	05/18/2024	ND	166	83.1	200	5.64	
EXT DRO >C28-C36	<10.0	10.0	05/18/2024	ND					

Surrogate: 1-Chlorooctane 93.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 05/16/2024  
 Reported: 05/22/2024  
 Project Name: POKER LAKE UNIT 28-21 BIG SINKS  
 Project Number: 20159  
 Project Location: XTO 32.1056174,-103.8077243

Sampling Date: 05/15/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SH 4 @ SUR (H242730-14)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/20/2024	ND	2.13	107	2.00	11.2		
Toluene*	<0.050	0.050	05/20/2024	ND	2.14	107	2.00	12.3		
Ethylbenzene*	<0.050	0.050	05/20/2024	ND	2.15	108	2.00	11.7		
Total Xylenes*	<0.150	0.150	05/20/2024	ND	6.36	106	6.00	12.3		
Total BTEX	<0.300	0.300	05/20/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/20/2024	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	05/18/2024	ND	174	86.9	200	2.67	
DRO >C10-C28*	<10.0	10.0	05/18/2024	ND	166	83.1	200	5.64	
EXT DRO >C28-C36	<10.0	10.0	05/18/2024	ND					

Surrogate: 1-Chlorooctane 95.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 05/16/2024  
 Reported: 05/22/2024  
 Project Name: POKER LAKE UNIT 28-21 BIG SINKS  
 Project Number: 20159  
 Project Location: XTO 32.1056174,-103.8077243

Sampling Date: 05/15/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SP 1 @ 1' (H242730-15)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/20/2024	ND	2.13	107	2.00	11.2	
Toluene*	<0.050	0.050	05/20/2024	ND	2.14	107	2.00	12.3	
Ethylbenzene*	<0.050	0.050	05/20/2024	ND	2.15	108	2.00	11.7	
Total Xylenes*	<0.150	0.150	05/20/2024	ND	6.36	106	6.00	12.3	
Total BTEX	<0.300	0.300	05/20/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	05/20/2024	ND	416	104	400	3.77		

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	05/18/2024	ND	174	86.9	200	2.67	
DRO >C10-C28*	<10.0	10.0	05/18/2024	ND	166	83.1	200	5.64	
EXT DRO >C28-C36	<10.0	10.0	05/18/2024	ND					

Surrogate: 1-Chlorooctane 90.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 05/16/2024  
 Reported: 05/22/2024  
 Project Name: POKER LAKE UNIT 28-21 BIG SINKS  
 Project Number: 20159  
 Project Location: XTO 32.1056174,-103.8077243

Sampling Date: 05/15/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SP 2 @ 1' (H242730-16)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/20/2024	ND	1.88	94.0	2.00	3.16		
Toluene*	<0.050	0.050	05/20/2024	ND	1.87	93.4	2.00	4.85		
Ethylbenzene*	<0.050	0.050	05/20/2024	ND	1.82	91.1	2.00	6.16		
Total Xylenes*	<0.150	0.150	05/20/2024	ND	5.93	98.8	6.00	6.63		
Total BTEX	<0.300	0.300	05/20/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	05/20/2024	ND	416	104	400	3.77	

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	05/18/2024	ND	174	86.9	200	2.67	
DRO >C10-C28*	<10.0	10.0	05/18/2024	ND	166	83.1	200	5.64	
EXT DRO >C28-C36	<10.0	10.0	05/18/2024	ND					

Surrogate: 1-Chlorooctane 92.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 05/16/2024  
 Reported: 05/22/2024  
 Project Name: POKER LAKE UNIT 28-21 BIG SINKS  
 Project Number: 20159  
 Project Location: XTO 32.1056174,-103.8077243

Sampling Date: 05/15/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SP 3 @ 1' (H242730-17)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/20/2024	ND	1.88	94.0	2.00	3.16		
Toluene*	<0.050	0.050	05/20/2024	ND	1.87	93.4	2.00	4.85		
Ethylbenzene*	<0.050	0.050	05/20/2024	ND	1.82	91.1	2.00	6.16		
Total Xylenes*	<0.150	0.150	05/20/2024	ND	5.93	98.8	6.00	6.63		
Total BTEX	<0.300	0.300	05/20/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	05/20/2024	ND	416	104	400	3.77	

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	05/18/2024	ND	174	86.9	200	2.67	
DRO >C10-C28*	<10.0	10.0	05/18/2024	ND	166	83.1	200	5.64	
EXT DRO >C28-C36	<10.0	10.0	05/18/2024	ND					

Surrogate: 1-Chlorooctane 73.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 05/16/2024  
 Reported: 05/22/2024  
 Project Name: POKER LAKE UNIT 28-21 BIG SINKS  
 Project Number: 20159  
 Project Location: XTO 32.1056174,-103.8077243

Sampling Date: 05/15/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SP 4 @ 1' (H242730-18)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/20/2024	ND	1.88	94.0	2.00	3.16		
Toluene*	<0.050	0.050	05/20/2024	ND	1.87	93.4	2.00	4.85		
Ethylbenzene*	<0.050	0.050	05/20/2024	ND	1.82	91.1	2.00	6.16		
Total Xylenes*	<0.150	0.150	05/20/2024	ND	5.93	98.8	6.00	6.63		
Total BTEX	<0.300	0.300	05/20/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	05/20/2024	ND	416	104	400	3.77		

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	05/18/2024	ND	174	86.9	200	2.67	
DRO >C10-C28*	<10.0	10.0	05/18/2024	ND	166	83.1	200	5.64	
EXT DRO >C28-C36	<10.0	10.0	05/18/2024	ND					

Surrogate: 1-Chlorooctane 75.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 05/16/2024  
 Reported: 05/22/2024  
 Project Name: POKER LAKE UNIT 28-21 BIG SINKS  
 Project Number: 20159  
 Project Location: XTO 32.1056174,-103.8077243

Sampling Date: 05/15/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: NH 1 @ 1' (H242730-19)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/20/2024	ND	1.88	94.0	2.00	3.16		
Toluene*	<0.050	0.050	05/20/2024	ND	1.87	93.4	2.00	4.85		
Ethylbenzene*	<0.050	0.050	05/20/2024	ND	1.82	91.1	2.00	6.16		
Total Xylenes*	<0.150	0.150	05/20/2024	ND	5.93	98.8	6.00	6.63		
Total BTEX	<0.300	0.300	05/20/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/20/2024	ND	416	104	400	3.77	

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	05/18/2024	ND	174	86.9	200	2.67	
DRO >C10-C28*	<10.0	10.0	05/18/2024	ND	166	83.1	200	5.64	
EXT DRO >C28-C36	<10.0	10.0	05/18/2024	ND					

Surrogate: 1-Chlorooctane 90.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 05/16/2024  
 Reported: 05/22/2024  
 Project Name: POKER LAKE UNIT 28-21 BIG SINKS  
 Project Number: 20159  
 Project Location: XTO 32.1056174,-103.8077243

Sampling Date: 05/15/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: NH 2 @ 1' (H242730-20)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/20/2024	ND	1.88	94.0	2.00	3.16		
Toluene*	<0.050	0.050	05/20/2024	ND	1.87	93.4	2.00	4.85		
Ethylbenzene*	<0.050	0.050	05/20/2024	ND	1.82	91.1	2.00	6.16		
Total Xylenes*	<0.150	0.150	05/20/2024	ND	5.93	98.8	6.00	6.63		
Total BTEX	<0.300	0.300	05/20/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/20/2024	ND	416	104	400	3.77	

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	05/18/2024	ND	174	86.9	200	2.67	
DRO >C10-C28*	<10.0	10.0	05/18/2024	ND	166	83.1	200	5.64	
EXT DRO >C28-C36	<10.0	10.0	05/18/2024	ND					

Surrogate: 1-Chlorooctane 88.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 05/16/2024  
 Reported: 05/22/2024  
 Project Name: POKER LAKE UNIT 28-21 BIG SINKS  
 Project Number: 20159  
 Project Location: XTO 32.1056174,-103.8077243

Sampling Date: 05/15/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: NH 3 @ 1' (H242730-21)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/20/2024	ND	1.88	94.0	2.00	3.16		
Toluene*	<0.050	0.050	05/20/2024	ND	1.87	93.4	2.00	4.85		
Ethylbenzene*	<0.050	0.050	05/20/2024	ND	1.82	91.1	2.00	6.16		
Total Xylenes*	<0.150	0.150	05/20/2024	ND	5.93	98.8	6.00	6.63		
Total BTEX	<0.300	0.300	05/20/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	05/20/2024	ND	416	104	400	3.77		

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	05/18/2024	ND	174	86.9	200	2.67	
DRO >C10-C28*	<10.0	10.0	05/18/2024	ND	166	83.1	200	5.64	
EXT DRO >C28-C36	<10.0	10.0	05/18/2024	ND					

Surrogate: 1-Chlorooctane 98.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 05/16/2024  
 Reported: 05/22/2024  
 Project Name: POKER LAKE UNIT 28-21 BIG SINKS  
 Project Number: 20159  
 Project Location: XTO 32.1056174,-103.8077243

Sampling Date: 05/15/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: NH 4 @ 1' (H242730-22)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/20/2024	ND	1.88	94.0	2.00	3.16		
Toluene*	<0.050	0.050	05/20/2024	ND	1.87	93.4	2.00	4.85		
Ethylbenzene*	<0.050	0.050	05/20/2024	ND	1.82	91.1	2.00	6.16		
Total Xylenes*	<0.150	0.150	05/20/2024	ND	5.93	98.8	6.00	6.63		
Total BTEX	<0.300	0.300	05/20/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/20/2024	ND	416	104	400	3.77	

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	05/18/2024	ND	174	86.9	200	2.67	
DRO >C10-C28*	<10.0	10.0	05/18/2024	ND	166	83.1	200	5.64	
EXT DRO >C28-C36	<10.0	10.0	05/18/2024	ND					

Surrogate: 1-Chlorooctane 66.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.3 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 05/16/2024  
 Reported: 05/22/2024  
 Project Name: POKER LAKE UNIT 28-21 BIG SINKS  
 Project Number: 20159  
 Project Location: XTO 32.1056174,-103.8077243

Sampling Date: 05/15/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: WH 1 @ 1' (H242730-23)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/20/2024	ND	1.88	94.0	2.00	3.16		
Toluene*	<0.050	0.050	05/20/2024	ND	1.87	93.4	2.00	4.85		
Ethylbenzene*	<0.050	0.050	05/20/2024	ND	1.82	91.1	2.00	6.16		
Total Xylenes*	<0.150	0.150	05/20/2024	ND	5.93	98.8	6.00	6.63		
Total BTEX	<0.300	0.300	05/20/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	05/20/2024	ND	416	104	400	3.77		

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	05/18/2024	ND	174	86.9	200	2.67	
DRO >C10-C28*	<10.0	10.0	05/18/2024	ND	166	83.1	200	5.64	
EXT DRO >C28-C36	<10.0	10.0	05/18/2024	ND					

Surrogate: 1-Chlorooctane 82.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 05/16/2024  
 Reported: 05/22/2024  
 Project Name: POKER LAKE UNIT 28-21 BIG SINKS  
 Project Number: 20159  
 Project Location: XTO 32.1056174,-103.8077243

Sampling Date: 05/15/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: EH 1 @ 1' (H242730-24)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/20/2024	ND	1.88	94.0	2.00	3.16		
Toluene*	<0.050	0.050	05/20/2024	ND	1.87	93.4	2.00	4.85		
Ethylbenzene*	<0.050	0.050	05/20/2024	ND	1.82	91.1	2.00	6.16		
Total Xylenes*	<0.150	0.150	05/20/2024	ND	5.93	98.8	6.00	6.63		
Total BTEX	<0.300	0.300	05/20/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	05/20/2024	ND	416	104	400	3.77		

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	05/18/2024	ND	174	86.9	200	2.67	
DRO >C10-C28*	<10.0	10.0	05/18/2024	ND	166	83.1	200	5.64	
EXT DRO >C28-C36	<10.0	10.0	05/18/2024	ND					

Surrogate: 1-Chlorooctane 93.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 05/16/2024  
 Reported: 05/22/2024  
 Project Name: POKER LAKE UNIT 28-21 BIG SINKS  
 Project Number: 20159  
 Project Location: XTO 32.1056174,-103.8077243

Sampling Date: 05/15/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SH 1 @ 1' (H242730-25)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/20/2024	ND	1.88	94.0	2.00	3.16		
Toluene*	<0.050	0.050	05/20/2024	ND	1.87	93.4	2.00	4.85		
Ethylbenzene*	<0.050	0.050	05/20/2024	ND	1.82	91.1	2.00	6.16		
Total Xylenes*	<0.150	0.150	05/20/2024	ND	5.93	98.8	6.00	6.63		
Total BTEx	<0.300	0.300	05/20/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	05/20/2024	ND	416	104	400	3.77		

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	05/18/2024	ND	174	86.9	200	2.67	
DRO >C10-C28*	<10.0	10.0	05/18/2024	ND	166	83.1	200	5.64	
EXT DRO >C28-C36	<10.0	10.0	05/18/2024	ND					

Surrogate: 1-Chlorooctane 94.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 05/16/2024  
 Reported: 05/22/2024  
 Project Name: POKER LAKE UNIT 28-21 BIG SINKS  
 Project Number: 20159  
 Project Location: XTO 32.1056174,-103.8077243

Sampling Date: 05/15/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SH 2 @ 1' (H242730-26)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/20/2024	ND	1.88	94.0	2.00	3.16		
Toluene*	<0.050	0.050	05/20/2024	ND	1.87	93.4	2.00	4.85		
Ethylbenzene*	<0.050	0.050	05/20/2024	ND	1.82	91.1	2.00	6.16		
Total Xylenes*	<0.150	0.150	05/20/2024	ND	5.93	98.8	6.00	6.63		
Total BTEX	<0.300	0.300	05/20/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	05/20/2024	ND	416	104	400	3.77		

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	05/18/2024	ND	174	86.9	200	2.67	
DRO >C10-C28*	<10.0	10.0	05/18/2024	ND	166	83.1	200	5.64	
EXT DRO >C28-C36	<10.0	10.0	05/18/2024	ND					

Surrogate: 1-Chlorooctane 92.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 05/16/2024  
 Reported: 05/22/2024  
 Project Name: POKER LAKE UNIT 28-21 BIG SINKS  
 Project Number: 20159  
 Project Location: XTO 32.1056174,-103.8077243

Sampling Date: 05/15/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SH 3 @ 1' (H242730-27)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/20/2024	ND	1.88	94.0	2.00	3.16		
Toluene*	<0.050	0.050	05/20/2024	ND	1.87	93.4	2.00	4.85		
Ethylbenzene*	<0.050	0.050	05/20/2024	ND	1.82	91.1	2.00	6.16		
Total Xylenes*	<0.150	0.150	05/20/2024	ND	5.93	98.8	6.00	6.63		
Total BTEX	<0.300	0.300	05/20/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	05/20/2024	ND	416	104	400	3.77		

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	05/18/2024	ND	174	86.9	200	2.67	
DRO >C10-C28*	<10.0	10.0	05/18/2024	ND	166	83.1	200	5.64	
EXT DRO >C28-C36	<10.0	10.0	05/18/2024	ND					

Surrogate: 1-Chlorooctane 96.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 05/16/2024  
 Reported: 05/22/2024  
 Project Name: POKER LAKE UNIT 28-21 BIG SINKS  
 Project Number: 20159  
 Project Location: XTO 32.1056174,-103.8077243

Sampling Date: 05/15/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SH 4 @ 1' (H242730-28)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/20/2024	ND	1.88	94.0	2.00	3.16		
Toluene*	<0.050	0.050	05/20/2024	ND	1.87	93.4	2.00	4.85		
Ethylbenzene*	<0.050	0.050	05/20/2024	ND	1.82	91.1	2.00	6.16		
Total Xylenes*	<0.150	0.150	05/20/2024	ND	5.93	98.8	6.00	6.63		
Total BTEX	<0.300	0.300	05/20/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	05/20/2024	ND	416	104	400	3.77		

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	05/18/2024	ND	174	86.9	200	2.67	
DRO >C10-C28*	<10.0	10.0	05/18/2024	ND	166	83.1	200	5.64	
EXT DRO >C28-C36	<10.0	10.0	05/18/2024	ND					

Surrogate: 1-Chlorooctane 90.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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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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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



# CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																					
Project Manager: Lance Crenshaw				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																					
Address: 2617 W Marland				Company: XTO																									
City: Hobbs State: NM Zip: 88240				Attn: Amy Ruth																									
Phone #: (575) 264-9884 Fax #:				Address:																									
Project #: 20159 Project Owner: XTO				City:																									
Project Name: Poker Lake Unit 28-21 Big Sinks				State: NM Zip:																									
Project Location: 32.1056174, -103.8077243				Phone #:																									
Sampler Name: Dominic Casarez				Fax #:																									
FOR LAB USE ONLY						MATRIX		PRESERV.		SAMPLING																			
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER	DATE	TIME															
124273	SP 1 @ Sur	G	1			X				X			5/15/24		X	X	X												
2	SP 2 @ Sur	G	1			X				X			5/15/24		X	X	X												
3	SP 3 @ Sur	G	1			X				X			5/15/24		X	X	X												
4	SP 4 @ Sur	G	1			X				X			5/15/24		X	X	X												
5	NH 1 @ Sur	G	1			X				X			5/15/24		X	X	X												
6	NH 2 @ Sur	G	1			X				X			5/15/24		X	X	X												
7	NH 3 @ Sur	G	1			X				X			5/15/24		X	X	X												
8	NH 4 @ Sur	G	1			X				X			5/15/24		X	X	X												
9	WH 1 @ Sur	G	1			X				X			5/15/24		X	X	X												
10	EH 1 @ Sur	G	1			X				X			5/15/24		X	X	X												
<small>EASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the 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 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</small>																													
Relinquished By:		Date: 5/10/24		Received By:		Time: 1:53P		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:		REMARKS:													
Relinquished By:		Date:		Received By:		Time:		Please email results and copy of CoC to pm@etechenv.com.																					
Delivered By: (Circle One)		Time:		Sample Condition		CHECKED BY: (Initials)																							
Sampler - UPS - Bus - Other: #140		Cool Intact		Yes Yes		No No																							

FORM-006  
Revision 1.0

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476





## Page 33 of 33

Released to Imaging: 10/6/2025 11:45:37 AM





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

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November 06, 2024

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: POKER LAKE UNIT 28-21 BIG SINKS

Enclosed are the results of analyses for samples received by the laboratory on 10/31/24 15:06.

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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited 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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/31/2024  
 Reported: 11/06/2024  
 Project Name: POKER LAKE UNIT 28-21 BIG SINKS  
 Project Number: 20159  
 Project Location: XTO 32.10571,-103.80745

Sampling Date: 10/30/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: AH 1 @ SURF (H246661-01)**

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	11/05/2024	ND	2.38	119	2.00	4.55	
Toluene*	<0.050	0.050	11/05/2024	ND	2.29	115	2.00	3.44	
Ethylbenzene*	<0.050	0.050	11/05/2024	ND	2.40	120	2.00	2.94	
Total Xylenes*	<0.150	0.150	11/05/2024	ND	7.08	118	6.00	2.38	
Total BTEx	<0.300	0.300	11/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	11/05/2024	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	11/04/2024	ND	230	115	200	2.35	
DRO >C10-C28*	<10.0	10.0	11/04/2024	ND	235	118	200	1.62	
EXT DRO >C28-C36	<10.0	10.0	11/04/2024	ND					

Surrogate: 1-Chlorooctane 84.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.2 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/31/2024  
 Reported: 11/06/2024  
 Project Name: POKER LAKE UNIT 28-21 BIG SINKS  
 Project Number: 20159  
 Project Location: XTO 32.10571,-103.80745

Sampling Date: 10/30/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: AH 2 @ SURF (H246661-02)**

BTX 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	11/05/2024	ND	2.38	119	2.00	4.55		
Toluene*	<0.050	0.050	11/05/2024	ND	2.29	115	2.00	3.44		
Ethylbenzene*	<0.050	0.050	11/05/2024	ND	2.40	120	2.00	2.94		
Total Xylenes*	<0.150	0.150	11/05/2024	ND	7.08	118	6.00	2.38		
Total BTX	<0.300	0.300	11/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/05/2024	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	11/04/2024	ND	230	115	200	2.35	
DRO >C10-C28*	<10.0	10.0	11/04/2024	ND	235	118	200	1.62	
EXT DRO >C28-C36	<10.0	10.0	11/04/2024	ND					

Surrogate: 1-Chlorooctane 70.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 61.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/31/2024  
 Reported: 11/06/2024  
 Project Name: POKER LAKE UNIT 28-21 BIG SINKS  
 Project Number: 20159  
 Project Location: XTO 32.10571,-103.80745

Sampling Date: 10/30/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: AH 3 @ SURF (H246661-03)**

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	11/05/2024	ND	2.38	119	2.00	4.55		
Toluene*	<0.050	0.050	11/05/2024	ND	2.29	115	2.00	3.44		
Ethylbenzene*	<0.050	0.050	11/05/2024	ND	2.40	120	2.00	2.94		
Total Xylenes*	<0.150	0.150	11/05/2024	ND	7.08	118	6.00	2.38		
Total BTEX	<0.300	0.300	11/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/05/2024	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	11/04/2024	ND	230	115	200	2.35	
DRO >C10-C28*	<10.0	10.0	11/04/2024	ND	235	118	200	1.62	
EXT DRO >C28-C36	<10.0	10.0	11/04/2024	ND					

Surrogate: 1-Chlorooctane 82.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/31/2024  
 Reported: 11/06/2024  
 Project Name: POKER LAKE UNIT 28-21 BIG SINKS  
 Project Number: 20159  
 Project Location: XTO 32.10571,-103.80745

Sampling Date: 10/30/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: AH 4 @ SURF (H246661-04)**

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	11/05/2024	ND	2.38	119	2.00	4.55		
Toluene*	<0.050	0.050	11/05/2024	ND	2.29	115	2.00	3.44		
Ethylbenzene*	<0.050	0.050	11/05/2024	ND	2.40	120	2.00	2.94		
Total Xylenes*	<0.150	0.150	11/05/2024	ND	7.08	118	6.00	2.38		
Total BTEX	<0.300	0.300	11/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	11/05/2024	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	11/04/2024	ND	230	115	200	2.35	
DRO >C10-C28*	<10.0	10.0	11/04/2024	ND	235	118	200	1.62	
EXT DRO >C28-C36	<10.0	10.0	11/04/2024	ND					

Surrogate: 1-Chlorooctane 83.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/31/2024  
 Reported: 11/06/2024  
 Project Name: POKER LAKE UNIT 28-21 BIG SINKS  
 Project Number: 20159  
 Project Location: XTO 32.10571,-103.80745

Sampling Date: 10/30/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: AH 1 @ 1' (H246661-05)**

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	11/05/2024	ND	2.38	119	2.00	4.55		
Toluene*	<0.050	0.050	11/05/2024	ND	2.29	115	2.00	3.44		
Ethylbenzene*	<0.050	0.050	11/05/2024	ND	2.40	120	2.00	2.94		
Total Xylenes*	<0.150	0.150	11/05/2024	ND	7.08	118	6.00	2.38		
Total BTEX	<0.300	0.300	11/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	11/05/2024	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	11/04/2024	ND	230	115	200	2.35	
DRO >C10-C28*	<10.0	10.0	11/04/2024	ND	235	118	200	1.62	
EXT DRO >C28-C36	<10.0	10.0	11/04/2024	ND					

Surrogate: 1-Chlorooctane 62.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 54.2 % 49.1-148

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/31/2024  
 Reported: 11/06/2024  
 Project Name: POKER LAKE UNIT 28-21 BIG SINKS  
 Project Number: 20159  
 Project Location: XTO 32.10571,-103.80745

Sampling Date: 10/30/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: AH 2 @ 1' (H246661-06)**

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	11/05/2024	ND	2.38	119	2.00	4.55	
Toluene*	<0.050	0.050	11/05/2024	ND	2.29	115	2.00	3.44	
Ethylbenzene*	<0.050	0.050	11/05/2024	ND	2.40	120	2.00	2.94	
Total Xylenes*	<0.150	0.150	11/05/2024	ND	7.08	118	6.00	2.38	
Total BTEX	<0.300	0.300	11/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	11/05/2024	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	11/04/2024	ND	230	115	200	2.35	
DRO >C10-C28*	<10.0	10.0	11/04/2024	ND	235	118	200	1.62	
EXT DRO >C28-C36	<10.0	10.0	11/04/2024	ND					

Surrogate: 1-Chlorooctane 81.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.7 % 49.1-148

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/31/2024  
 Reported: 11/06/2024  
 Project Name: POKER LAKE UNIT 28-21 BIG SINKS  
 Project Number: 20159  
 Project Location: XTO 32.10571,-103.80745

Sampling Date: 10/30/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: AH 3 @ 1' (H246661-07)**

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	11/05/2024	ND	2.38	119	2.00	4.55	
Toluene*	<0.050	0.050	11/05/2024	ND	2.29	115	2.00	3.44	
Ethylbenzene*	<0.050	0.050	11/05/2024	ND	2.40	120	2.00	2.94	
Total Xylenes*	<0.150	0.150	11/05/2024	ND	7.08	118	6.00	2.38	
Total BTEX	<0.300	0.300	11/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/05/2024	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	11/05/2024	ND	230	115	200	2.35	
DRO >C10-C28*	<10.0	10.0	11/05/2024	ND	235	118	200	1.62	
EXT DRO >C28-C36	<10.0	10.0	11/05/2024	ND					

Surrogate: 1-Chlorooctane 59.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 54.8 % 49.1-148

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/31/2024  
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 Project Name: POKER LAKE UNIT 28-21 BIG SINKS  
 Project Number: 20159  
 Project Location: XTO 32.10571,-103.80745

Sampling Date: 10/30/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: AH 4 @ 1' (H246661-08)**

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	11/05/2024	ND	2.38	119	2.00	4.55	
Toluene*	<0.050	0.050	11/05/2024	ND	2.29	115	2.00	3.44	
Ethylbenzene*	<0.050	0.050	11/05/2024	ND	2.40	120	2.00	2.94	
Total Xylenes*	<0.150	0.150	11/05/2024	ND	7.08	118	6.00	2.38	
Total BTEX	<0.300	0.300	11/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	11/05/2024	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	11/05/2024	ND	230	115	200	2.35	
DRO >C10-C28*	<10.0	10.0	11/05/2024	ND	235	118	200	1.62	
EXT DRO >C28-C36	<10.0	10.0	11/05/2024	ND					

Surrogate: 1-Chlorooctane 58.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 51.9 % 49.1-148

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/31/2024  
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 Project Name: POKER LAKE UNIT 28-21 BIG SINKS  
 Project Number: 20159  
 Project Location: XTO 32.10571,-103.80745

Sampling Date: 10/30/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: AH 1 @ 2' (H246661-09)**

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	11/05/2024	ND	2.38	119	2.00	4.55		
Toluene*	<0.050	0.050	11/05/2024	ND	2.29	115	2.00	3.44		
Ethylbenzene*	<0.050	0.050	11/05/2024	ND	2.40	120	2.00	2.94		
Total Xylenes*	<0.150	0.150	11/05/2024	ND	7.08	118	6.00	2.38		
Total BTEX	<0.300	0.300	11/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	11/05/2024	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	11/05/2024	ND	230	115	200	2.35	
DRO >C10-C28*	<10.0	10.0	11/05/2024	ND	235	118	200	1.62	
EXT DRO >C28-C36	<10.0	10.0	11/05/2024	ND					

Surrogate: 1-Chlorooctane 62.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 54.3 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/31/2024  
 Reported: 11/06/2024  
 Project Name: POKER LAKE UNIT 28-21 BIG SINKS  
 Project Number: 20159  
 Project Location: XTO 32.10571,-103.80745

Sampling Date: 10/30/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: AH 2 @ 2' (H246661-10)**

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	11/05/2024	ND	2.38	119	2.00	4.55		
Toluene*	<0.050	0.050	11/05/2024	ND	2.29	115	2.00	3.44		
Ethylbenzene*	<0.050	0.050	11/05/2024	ND	2.40	120	2.00	2.94		
Total Xylenes*	<0.150	0.150	11/05/2024	ND	7.08	118	6.00	2.38		
Total BTEX	<0.300	0.300	11/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	11/05/2024	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	11/05/2024	ND	230	115	200	2.35	
DRO >C10-C28*	<10.0	10.0	11/05/2024	ND	235	118	200	1.62	
EXT DRO >C28-C36	<10.0	10.0	11/05/2024	ND					

Surrogate: 1-Chlorooctane 81.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/31/2024  
 Reported: 11/06/2024  
 Project Name: POKER LAKE UNIT 28-21 BIG SINKS  
 Project Number: 20159  
 Project Location: XTO 32.10571,-103.80745

Sampling Date: 10/30/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: AH 3 @ 2' (H246661-11)**

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	11/05/2024	ND	2.38	119	2.00	4.55		
Toluene*	<0.050	0.050	11/05/2024	ND	2.29	115	2.00	3.44		
Ethylbenzene*	<0.050	0.050	11/05/2024	ND	2.40	120	2.00	2.94		
Total Xylenes*	<0.150	0.150	11/05/2024	ND	7.08	118	6.00	2.38		
Total BTEX	<0.300	0.300	11/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/05/2024	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	11/04/2024	ND	226	113	200	9.71	
DRO >C10-C28*	<10.0	10.0	11/04/2024	ND	208	104	200	10.6	
EXT DRO >C28-C36	<10.0	10.0	11/04/2024	ND					

Surrogate: 1-Chlorooctane 73.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/31/2024  
 Reported: 11/06/2024  
 Project Name: POKER LAKE UNIT 28-21 BIG SINKS  
 Project Number: 20159  
 Project Location: XTO 32.10571,-103.80745

Sampling Date: 10/30/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: AH 4 @ 2' (H246661-12)**

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	11/05/2024	ND	2.38	119	2.00	4.55		
Toluene*	<0.050	0.050	11/05/2024	ND	2.29	115	2.00	3.44		
Ethylbenzene*	<0.050	0.050	11/05/2024	ND	2.40	120	2.00	2.94		
Total Xylenes*	<0.150	0.150	11/05/2024	ND	7.08	118	6.00	2.38		
Total BTEX	<0.300	0.300	11/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	11/05/2024	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	11/04/2024	ND	226	113	200	9.71	
DRO >C10-C28*	<10.0	10.0	11/04/2024	ND	208	104	200	10.6	
EXT DRO >C28-C36	<10.0	10.0	11/04/2024	ND					

Surrogate: 1-Chlorooctane 55.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 53.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/31/2024  
 Reported: 11/06/2024  
 Project Name: POKER LAKE UNIT 28-21 BIG SINKS  
 Project Number: 20159  
 Project Location: XTO 32.10571,-103.80745

Sampling Date: 10/30/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: AH 1 @ 3' (H246661-13)**

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	11/05/2024	ND	2.29	114	2.00	6.08		
Toluene*	<0.050	0.050	11/05/2024	ND	2.17	109	2.00	6.15		
Ethylbenzene*	<0.050	0.050	11/05/2024	ND	2.16	108	2.00	5.99		
Total Xylenes*	<0.150	0.150	11/05/2024	ND	6.43	107	6.00	6.30		
Total BTEX	<0.300	0.300	11/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/05/2024	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	11/04/2024	ND	226	113	200	9.71	
DRO >C10-C28*	<10.0	10.0	11/04/2024	ND	208	104	200	10.6	
EXT DRO >C28-C36	<10.0	10.0	11/04/2024	ND					

Surrogate: 1-Chlorooctane 75.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/31/2024  
 Reported: 11/06/2024  
 Project Name: POKER LAKE UNIT 28-21 BIG SINKS  
 Project Number: 20159  
 Project Location: XTO 32.10571,-103.80745

Sampling Date: 10/30/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: AH 2 @ 3' (H246661-14)**

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	11/05/2024	ND	2.29	114	2.00	6.08		
Toluene*	<0.050	0.050	11/05/2024	ND	2.17	109	2.00	6.15		
Ethylbenzene*	<0.050	0.050	11/05/2024	ND	2.16	108	2.00	5.99		
Total Xylenes*	<0.150	0.150	11/05/2024	ND	6.43	107	6.00	6.30		
Total BTEX	<0.300	0.300	11/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/05/2024	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	11/04/2024	ND	226	113	200	9.71	
DRO >C10-C28*	<10.0	10.0	11/04/2024	ND	208	104	200	10.6	
EXT DRO >C28-C36	<10.0	10.0	11/04/2024	ND					

Surrogate: 1-Chlorooctane 72.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/31/2024  
 Reported: 11/06/2024  
 Project Name: POKER LAKE UNIT 28-21 BIG SINKS  
 Project Number: 20159  
 Project Location: XTO 32.10571,-103.80745

Sampling Date: 10/30/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: AH 3 @ 3' (H246661-15)**

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	11/05/2024	ND	2.29	114	2.00	6.08		
Toluene*	<0.050	0.050	11/05/2024	ND	2.17	109	2.00	6.15		
Ethylbenzene*	<0.050	0.050	11/05/2024	ND	2.16	108	2.00	5.99		
Total Xylenes*	<0.150	0.150	11/05/2024	ND	6.43	107	6.00	6.30		
Total BTEX	<0.300	0.300	11/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	11/05/2024	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	11/04/2024	ND	226	113	200	9.71	
DRO >C10-C28*	<10.0	10.0	11/04/2024	ND	208	104	200	10.6	
EXT DRO >C28-C36	<10.0	10.0	11/04/2024	ND					

Surrogate: 1-Chlorooctane 67.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 66.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/31/2024  
 Reported: 11/06/2024  
 Project Name: POKER LAKE UNIT 28-21 BIG SINKS  
 Project Number: 20159  
 Project Location: XTO 32.10571,-103.80745

Sampling Date: 10/30/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: AH 4 @ 3' (H246661-16)**

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	11/05/2024	ND	2.29	114	2.00	6.08		
Toluene*	<0.050	0.050	11/05/2024	ND	2.17	109	2.00	6.15		
Ethylbenzene*	<0.050	0.050	11/05/2024	ND	2.16	108	2.00	5.99		
Total Xylenes*	<0.150	0.150	11/05/2024	ND	6.43	107	6.00	6.30		
Total BTEX	<0.300	0.300	11/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/05/2024	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	11/04/2024	ND	226	113	200	9.71	
DRO >C10-C28*	<10.0	10.0	11/04/2024	ND	208	104	200	10.6	
EXT DRO >C28-C36	<10.0	10.0	11/04/2024	ND					

Surrogate: 1-Chlorooctane 77.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.0 % 49.1-148

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/31/2024  
 Reported: 11/06/2024  
 Project Name: POKER LAKE UNIT 28-21 BIG SINKS  
 Project Number: 20159  
 Project Location: XTO 32.10571,-103.80745

Sampling Date: 10/30/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: AH 1 @ 4' (H246661-17)**

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	11/05/2024	ND	2.29	114	2.00	6.08		
Toluene*	<0.050	0.050	11/05/2024	ND	2.17	109	2.00	6.15		
Ethylbenzene*	<0.050	0.050	11/05/2024	ND	2.16	108	2.00	5.99		
Total Xylenes*	<0.150	0.150	11/05/2024	ND	6.43	107	6.00	6.30		
Total BTEX	<0.300	0.300	11/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/05/2024	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	11/04/2024	ND	226	113	200	9.71	
DRO >C10-C28*	<10.0	10.0	11/04/2024	ND	208	104	200	10.6	
EXT DRO >C28-C36	<10.0	10.0	11/04/2024	ND					

Surrogate: 1-Chlorooctane 74.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/31/2024  
 Reported: 11/06/2024  
 Project Name: POKER LAKE UNIT 28-21 BIG SINKS  
 Project Number: 20159  
 Project Location: XTO 32.10571,-103.80745

Sampling Date: 10/30/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: AH 2 @ 4' (H246661-18)**

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	11/05/2024	ND	2.29	114	2.00	6.08	
Toluene*	<0.050	0.050	11/05/2024	ND	2.17	109	2.00	6.15	
Ethylbenzene*	<0.050	0.050	11/05/2024	ND	2.16	108	2.00	5.99	
Total Xylenes*	<0.150	0.150	11/05/2024	ND	6.43	107	6.00	6.30	
Total BTEX	<0.300	0.300	11/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/06/2024	ND	480	120	400	3.39		

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	11/04/2024	ND	226	113	200	9.71	
DRO >C10-C28*	<10.0	10.0	11/04/2024	ND	208	104	200	10.6	
EXT DRO >C28-C36	<10.0	10.0	11/04/2024	ND					

Surrogate: 1-Chlorooctane 78.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/31/2024  
 Reported: 11/06/2024  
 Project Name: POKER LAKE UNIT 28-21 BIG SINKS  
 Project Number: 20159  
 Project Location: XTO 32.10571,-103.80745

Sampling Date: 10/30/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: AH 3 @ 4' (H246661-19)**

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	11/05/2024	ND	2.29	114	2.00	6.08		
Toluene*	<0.050	0.050	11/05/2024	ND	2.17	109	2.00	6.15		
Ethylbenzene*	<0.050	0.050	11/05/2024	ND	2.16	108	2.00	5.99		
Total Xylenes*	<0.150	0.150	11/05/2024	ND	6.43	107	6.00	6.30		
Total BTEX	<0.300	0.300	11/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/06/2024	ND	480	120	400	3.39		

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	11/05/2024	ND	226	113	200	9.71	
DRO >C10-C28*	<10.0	10.0	11/05/2024	ND	208	104	200	10.6	
EXT DRO >C28-C36	<10.0	10.0	11/05/2024	ND					

Surrogate: 1-Chlorooctane 69.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 69.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/31/2024  
 Reported: 11/06/2024  
 Project Name: POKER LAKE UNIT 28-21 BIG SINKS  
 Project Number: 20159  
 Project Location: XTO 32.10571,-103.80745

Sampling Date: 10/30/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: AH 4 @ 4' (H246661-20)**

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	11/05/2024	ND	2.29	114	2.00	6.08		
Toluene*	<0.050	0.050	11/05/2024	ND	2.17	109	2.00	6.15		
Ethylbenzene*	<0.050	0.050	11/05/2024	ND	2.16	108	2.00	5.99		
Total Xylenes*	<0.150	0.150	11/05/2024	ND	6.43	107	6.00	6.30		
Total BTEX	<0.300	0.300	11/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	11/06/2024	ND	480	120	400	3.39		

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	11/05/2024	ND	226	113	200	9.71	
DRO >C10-C28*	<10.0	10.0	11/05/2024	ND	208	104	200	10.6	
EXT DRO >C28-C36	<10.0	10.0	11/05/2024	ND					

Surrogate: 1-Chlorooctane 60.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 60.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



---

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---

### Notes and Definitions

BS-3	Blank spike recovery outside of lab established statistical 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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A handwritten signature in black ink, appearing to read "Celey D. Keene".

---

Celey D. Keene, Lab Director/Quality Manager





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

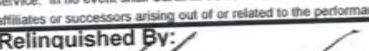
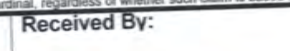

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 2

Page 23 of 24

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Relinquished By:  Date: 10/31/24 Time: 1:50 PM		Received By:  Date: _____ Time: _____		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: _____ All Results are emailed. Please provide Email address: <a href="mailto:pm@etechnv.com">pm@etechnv.com</a>	
Relinquished By: _____ Date: _____ Time: _____		Received By: _____ Date: _____ Time: _____		REMARKS: _____	
Delivered By: (Circle One) Sampler - UPS - Bus - Other: _____		Observed Temp. °C: 5.4 Corrected Temp. °C: 4.6		Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
		CHECKED BY: (Initials) 		Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Thermometer ID #140 Correction Factor -0.6°C	
				Bacteria (only) Sample Condition Cool Intact Observed Temp. °C <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No Corrected Temp. °C	



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

(575) 393-2326 FAX (575) 393-2476				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																						
Company Name: Etech Environmental & Safety Solutions, Inc.				P.O. #:				<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Chloride</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH (8015M)</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX (8021B)</div> </div>																						
Project Manager: Lance Crenshaw				Company: XTO																										
Address: 2617 West Mariland				Attn: Amy Ruth																										
City: Hobbs State: NM Zip: 88240				Address:																										
Phone #: (575) 264-9884 Fax #:				City:																										
Project #: 20159 Project Owner: XTO				State: Zip:																										
Project Name: Poker Lake Unit 28-21 Big Sinks				Phone #:																										
Project Location: 32.10571, -103.80745				Fax #:																										
Sampler Name: Martin Sepulveda																														
FOR LAB USE ONLY		Lab I.D.		Sample I.D.		(GRAB OR (C)OMP.) # CONTAINERS	MATRIX					PRESERV.	SAMPLING																	
							GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME													
													X			10/30/24		X	X	X										
						G 1			X				X			10/30/24		X	X	X										
						G 1			X				X			10/30/24		X	X	X										
						G 1			X				X			10/30/24		X	X	X										
						G 1			X				X			10/30/24		X	X	X										
						G 1			X				X			10/30/24		X	X	X										
						G 1			X				X			10/30/24		X	X	X										
						G 1			X				X			10/30/24		X	X	X										
						G 1			X				X			10/30/24		X	X	X										
						G 1			X				X			10/30/24		X	X	X										
						G 1			X				X			10/30/24		X	X	X										
						G 1			X				X			10/30/24		X	X	X										
						G 1			X				X			10/30/24		X	X	X										

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Relinquished By: _____		Date: 10/31/24	Received By: [Signature]	Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #:
Time: 1:50 PM				All Results are emailed. Please provide Email address: pm@etechenv.com
Relinquished By: _____		Date: _____	Received By: _____	REMARKS:
Time: _____				
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C Corrected Temp. °C	Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials) [Signature]	Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Thermometer ID #140 Correction Factor -0.6°C
				Bacteria (only) Sample Condition Cool Intact Observed Temp. °C <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No Corrected Temp. °C

Please email changes to celey.keene@cardinallabsnm.com

## **Appendix E**

### **Regulatory Correspondence**

**From:** [Romero, Alan](#)  
**To:** [NMOED \(ocd.enviro@emnrd.nm.gov\)](mailto:nmoed.enviro@emnrd.nm.gov)  
**Cc:** [Garcia, Amanda](#); [Ruth, Amy](#); [Brown, Colton S](#); [Dirkx, Kaylan](#); [Smith, Kailee /C](#)  
**Subject:** XTO Extension Request - Multiple Past-Due Incidents Discovered  
**Attachments:** [XTO Multiple Incidents Extension Request 8-16-24.pdf](#)

---

Good Afternoon,

XTO is requesting an extension for a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC for the attached locations/incident numbers listed in this message. We understand that the releases all occurred between February and March of this year and attendant documentation is overdue. Kindly be aware that these occurred during a high turnover period of personnel in our department, transitioning staff, and a large company-wide data migration that collectively disturbed our incident tracking efforts for remediation. In our efforts to correct the issue, XTO is proactively assigning each of these incidents to be successfully addressed by contractors for closure in accordance with 19.15.29.12 NMAC.

Please let me know if there is any more information or clarity I can provide. Thank you for your time and consideration.

Respectfully,

**Alan Romero**

Environmental/Regulatory Advisor

Permian Business Unit – New Mexico Delaware Basin

**ExxonMobil Upstream Oil & Gas Company Unconventional**

3104 East Greene Street

Carlsbad, New Mexico 88220

Direct: (575) 988-3383

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**Poker Lake Unit 22 DTD**

NAPP2405961992

Release Date: 2/14/24

Closure Due Date: 5/14/24

**PLU 342**

NAPP2407438506

Release Date: 2/27/24

Closure Due Date: 5/27/24

**PLU South Pond**

NAPP2405971517

Release Date: 2/14/24

Closure Due Date: 5/14/24

**PLU 25 CTB**

NAPP2408553359

Release Date: 3/11/24

Closure Due Date: 6/10/24

**PLU 28 Big Sinks West Battery**

NAPP2406159589

Release Date: 2/16/24

Closure Due Date: 5/16/24

**Big Eddy Hackberry 34 Battery**

NAPP2408932392

Release Date: 3/15/24

Closure Due Date: 6/13/24

**Poker Lake Unit 26 BD W CVB**

NAPP2406161820

Release Date: 2/16/24

Closure Due Date: 5/16/24

**Poker Lake Unit 28-21 Big Sinks**

NAPP2409248851

Release Date: 3/19/24

Closure Due Date: 6/17/24

**Nash Unit 53 SWD**

NAPP2406163532

Release Date: 2/20/24

Closure Due Date: 5/20/24

**Perla Verde 31 State 001H**

NAPP2412749555

Release Date: 5/2/24

Closure Due Date: 7/31/24



**From:** [Hamlet, Robert, EMNRD](#)  
**To:** [Romero, Alan](#)  
**Cc:** [Garcia, Amanda](#); [Ruth, Amy](#); [Brown, Colton S](#); [Dirkx, Kaylan](#); [Smith, Kailee /C](#); [Bratcher, Michael, EMNRD](#); [Wells, Shelly, EMNRD](#); [Velez, Nelson, EMNRD](#)  
**Subject:** (Extensions Denied) - XTO - Multiple Past-Due Incidents Discovered  
**Date:** Monday, August 19, 2024 9:17:37 AM

---

RE: Incident #**NAPP2405961992, NAPP2405971517, NAPP2406159589, NAPP2406161820, NAPP2406163532, NAPP2407438506, NAPP2408553359, NAPP2408932392, NAPP2409248851**

Alan,

An extension request needs to be requested before the Remediation Closure Report Due Date Deadline. All of these incidents are at least 60 days out of compliance. The extension requests are denied. Please include this e-mail correspondence in the remediation and/or closure reports.

**Robert Hamlet** • Environmental Specialist - Advanced  
Environmental Bureau  
EMNRD - Oil Conservation Division  
506 W. Texas Ave. | Artesia, NM 88210  
575.909.0302 | [robert.hamlet@state.nm.us](mailto:robert.hamlet@state.nm.us)  
<http://www.emnrd.state.nm.us/OCD/>



---

**From:** Wells, Shelly, EMNRD <[Shelly.Wells@emnrd.nm.gov](mailto:Shelly.Wells@emnrd.nm.gov)>  
**Sent:** Friday, August 16, 2024 3:35 PM  
**To:** Hamlet, Robert, EMNRD <[Robert.Hamlet@emnrd.nm.gov](mailto:Robert.Hamlet@emnrd.nm.gov)>  
**Subject:** FW: [EXTERNAL] XTO Extension Request - Multiple Past-Due Incidents Discovered

Hi Rob,

All of the incidents in this extension request are yours except for the very last one Perla Verde 31 which I am going to approve.

Shelly

---

**From:** Wells, Shelly, EMNRD <[Shelly.Wells@emnrd.nm.gov](mailto:Shelly.Wells@emnrd.nm.gov)>  
**Sent:** Friday, August 16, 2024 3:20 PM  
**To:** Bratcher, Michael, EMNRD <[mike.bratcher@emnrd.nm.gov](mailto:mike.bratcher@emnrd.nm.gov)>; Wells, Shelly, EMNRD <[Shelly.Wells@emnrd.nm.gov](mailto:Shelly.Wells@emnrd.nm.gov)>

**Subject:** FW: [EXTERNAL] XTO Extension Request - Multiple Past-Due Incidents Discovered

---

**From:** Romero, Alan <[alan.romero1@exxonmobil.com](mailto:alan.romero1@exxonmobil.com)>

**Sent:** Friday, August 16, 2024 11:59 AM

**To:** Enviro, OCD, EMNRD <[OCD.Enviro@emnrd.nm.gov](mailto:OCD.Enviro@emnrd.nm.gov)>

**Cc:** Garcia, Amanda <[amanda.garcia@exxonmobil.com](mailto:amanda.garcia@exxonmobil.com)>; Ruth, Amy <[amy.ruth@exxonmobil.com](mailto:amy.ruth@exxonmobil.com)>; Brown, Colton S <[colton.s.brown@exxonmobil.com](mailto:colton.s.brown@exxonmobil.com)>; Dirkx, Kaylan <[kaylan.dirkx@exxonmobil.com](mailto:kaylan.dirkx@exxonmobil.com)>; Smith, Kailee /C <[kailee.smith@exxonmobil.com](mailto:kailee.smith@exxonmobil.com)>

**Subject:** [EXTERNAL] XTO Extension Request - Multiple Past-Due Incidents Discovered

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good Afternoon,

XTO is requesting an extension for a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC for the attached locations/incident numbers listed in this message. We understand that the releases all occurred between February and March of this year and attendant documentation is overdue. Kindly be aware that these occurred during a high turnover period of personnel in our department, transitioning staff, and a large company-wide data migration that collectively disturbed our incident tracking efforts for remediation. In our efforts to correct the issue, XTO is proactively assigning each of these incidents to be successfully addressed by contractors for closure in accordance with 19.15.29.12 NMAC.

Please let me know if there is any more information or clarity I can provide. Thank you for your time and consideration.

Respectfully,

**Alan Romero**

Environmental/Regulatory Advisor

Permian Business Unit – New Mexico Delaware Basin

**ExxonMobil Upstream Oil & Gas Company Unconventional**

3104 East Greene Street

Carlsbad, New Mexico 88220

Direct: (575) 988-3383

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**Robbie Runnels**

---

**From:** Lance Crenshaw  
**Sent:** Wednesday, November 13, 2024 2:51 PM  
**To:** Robbie Runnels  
**Subject:** FW: The Oil Conservation Division (OCD) has accepted the application, Application ID: 395990

---

**From:** Lance Crenshaw  
**Sent:** Friday, October 25, 2024 1:46 PM  
**To:** Woodall, Robert D <[robert.d.woodall@exxonmobil.com](mailto:robert.d.woodall@exxonmobil.com)>; Ben Arguijo <[bena@etechenv.com](mailto:bena@etechenv.com)>  
**Cc:** Brown, Colton S <[colton.s.brown@exxonmobil.com](mailto:colton.s.brown@exxonmobil.com)>; Dirkx, Kaylan <[kaylan.dirkx@exxonmobil.com](mailto:kaylan.dirkx@exxonmobil.com)>; Garcia, Amanda <[amanda.garcia@exxonmobil.com](mailto:amanda.garcia@exxonmobil.com)>; Smith, Kailee /C <[kailee.smith@exxonmobil.com](mailto:kailee.smith@exxonmobil.com)>  
**Subject:** RE: The Oil Conservation Division (OCD) has accepted the application, Application ID: 395990

Thank you Robert

---

**From:** Woodall, Robert D <[robert.d.woodall@exxonmobil.com](mailto:robert.d.woodall@exxonmobil.com)>  
**Sent:** Friday, October 25, 2024 1:45 PM  
**To:** Lance Crenshaw <[lance@etechenv.com](mailto:lance@etechenv.com)>; Ben Arguijo <[bena@etechenv.com](mailto:bena@etechenv.com)>  
**Cc:** Brown, Colton S <[colton.s.brown@exxonmobil.com](mailto:colton.s.brown@exxonmobil.com)>; Dirkx, Kaylan <[kaylan.dirkx@exxonmobil.com](mailto:kaylan.dirkx@exxonmobil.com)>; Garcia, Amanda <[amanda.garcia@exxonmobil.com](mailto:amanda.garcia@exxonmobil.com)>; Smith, Kailee /C <[kailee.smith@exxonmobil.com](mailto:kailee.smith@exxonmobil.com)>  
**Subject:** FW: The Oil Conservation Division (OCD) has accepted the application, Application ID: 395990

Sample notification submitted.

**R. Dale Woodall**  
Wastewater Advisor

**ExxonMobil Upstream Company**  
3104 E. Greene St.  
Carlsbad, NM 88220  
Cell Phone: 575-988-4374  
[Robert.D.Woodall@exxonmobil.com](mailto:Robert.D.Woodall@exxonmobil.com)

---

**From:** [OCDOnline@state.nm.us](mailto:OCDOnline@state.nm.us) <[OCDOnline@state.nm.us](mailto:OCDOnline@state.nm.us)>  
**Sent:** Friday, October 25, 2024 1:39 PM  
**To:** Woodall, Robert D <[robert.d.woodall@exxonmobil.com](mailto:robert.d.woodall@exxonmobil.com)>  
**Subject:** The Oil Conservation Division (OCD) has accepted the application, Application ID: 395990

To whom it may concern (c/o Robert Woodall for XTO ENERGY, INC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release (C-141N)*, for incident ID (n#) nAPP2409248851.

The sampling event is expected to take place:

**When:** 10/30/2024 @ 08:00

**Where:** D-29-25S-31E 0 FNL 0 FEL (32.10571,-103.80745)

**Additional Information:** Martin Sepulvedo, 432-305-7322

etech

**Additional Instructions:** From the intersection of Buck Jackson Rd and Buckthorn Rd (32.109114, -103.824943), head E on Buckthorn Rd for 0.83 mi, then E for 0.20 mi, then S for 0.02 mi, then E for 0.03 mi to arrive at the Poker Lake Unit 28-21 Big Sinks location (32.105695, -103.807496).

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

**New Mexico Energy, Minerals and Natural Resources Department**

1220 South St. Francis Drive

Santa Fe, NM 87505

**From:** [OCDOnline@state.nm.us](mailto:OCDOnline@state.nm.us) <[OCDOnline@state.nm.us](mailto:OCDOnline@state.nm.us)>

**Sent:** Thursday, October 24, 2024 2:16 PM

**To:** Brown, Colton S <[colton.s.brown@exxonmobil.com](mailto:colton.s.brown@exxonmobil.com)>

**Subject:** The Oil Conservation Division (OCD) has rejected the application, Application ID: 387971

To whom it may concern (c/o Colton Brown for XTO ENERGY, INC), The OCD has rejected the submitted Application for administrative approval of a release notification and corrective action (C-141), for incident ID (n#) nAPP2409248851, for the following

To whom it may concern (c/o Colton Brown for XTO ENERGY, INC),

The OCD has rejected the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2409248851, for the following reasons:

- **The Remediation Closure Report is Denied. A large release of 30 BBLs of produced water that is greater than 10,000 mg/l almost always leaves a very large footprint and high chlorides in the soil. Please explain how such extremely low chloride levels were found in the soil. The pictures of the release do not look like a 30 BBL release. If this amount was entered in error, please resubmit an updated initial C-141 and correct the amount released on the report. If XTO reaffirms that the produced water is greater than 10,000 mg/l, the OCD will request 4-foot vertical samples be taken at each floor sample location and pictures of the borehole locations be included in the report. Please provide these results in the resubmission.**

The rejected C-141 can be found in the OCD Online: Permitting - Action Status, under the Application ID: 387971.

Please review and make the required correction(s) prior to resubmitting.

If you have any questions why this application was rejected or believe it was rejected in error, please contact me prior to submitting an additional C-141.

Thank you,

Robert Hamlet

575-748-1283

[Robert.Hamlet@emnrd.nm.gov](mailto:Robert.Hamlet@emnrd.nm.gov)

**New Mexico Energy, Minerals and Natural Resources Department**

1220 South St. Francis Drive

Santa Fe, NM 87505



**From:** [OCDOnline@state.nm.us](mailto:OCDOnline@state.nm.us) <[OCDOnline@state.nm.us](mailto:OCDOnline@state.nm.us)>  
**Sent:** Thursday, October 24, 2024 2:16 PM  
**To:** Brown, Colton S <[colton.s.brown@exxonmobil.com](mailto:colton.s.brown@exxonmobil.com)>  
**Subject:** The Oil Conservation Division (OCD) has rejected the application, Application ID: 387971

To whom it may concern (c/o Colton Brown for XTO ENERGY, INC),

The OCD has rejected the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2409248851, for the following reasons:

- **The Remediation Closure Report is Denied. A large release of 30 BBLs of produced water that is greater than 10,000 mg/l almost always leaves a very large footprint and high chlorides in the soil. Please explain how such extremely low chloride levels were found in the soil. The pictures of the release do not look like a 30 BBL release. If this amount was entered in error, please resubmit an updated initial C-141 and correct the amount released on the report. If XTO reaffirms that the produced water is greater than 10,000 mg/l, the OCD will request 4-foot vertical samples be taken at each floor sample location and pictures of the borehole locations be included in the report. Please provide these results in the resubmission.**

The rejected C-141 can be found in the OCD Online: Permitting - Action Status, under the Application ID: 387971.

Please review and make the required correction(s) prior to resubmitting.

If you have any questions why this application was rejected or believe it was rejected in error, please contact me prior to submitting an additional C-141.

Thank you,  
Robert Hamlet  
575-748-1283  
[Robert.Hamlet@emnrd.nm.gov](mailto:Robert.Hamlet@emnrd.nm.gov)

**New Mexico Energy, Minerals and Natural Resources Department**  
1220 South St. Francis Drive  
Santa Fe, NM 87505

Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

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<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**

QUESTIONS

Action 498517

**QUESTIONS**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 498517
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

Prerequisites	
Incident ID (n#)	nAPP2409248851
Incident Name	NAPP2409248851 POKER LAKE UNIT 28-21 BIG SINKS @ D-29-25S-31E
Incident Type	Release Other
Incident Status	Remediation Closure Report Received

**Location of Release Source***Please answer all the questions in this group.*

Site Name	Poker Lake Unit 28-21 Big Sinks
Date Release Discovered	03/19/2024
Surface Owner	Federal

**Incident Details***Please answer all the questions in this group.*

Incident Type	Release Other
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	Not answered.
Produced Water Released (bbls) Details	Not answered.
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	Cause: Normal Operations   Pump   Brine Water   Released: 30 BBL   Recovered: 0 BBL   Lost: 30 BBL.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	brackish water

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QUESTIONS, Page 2

Action 498517

**QUESTIONS (continued)**

Operator:  XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:  5380
	Action Number:  498517
	Action Type:  [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
Is this a gas only submission (i.e. only significant Mcf values reported)	<b>No, according to supplied volumes this does not appear to be a "gas only" report.</b>
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	<b>Yes</b>
Reasons why this would be considered a submission for a notification of a major release	<b>From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.</b>
<i>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.</i>	

**Initial Response**

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

The source of the release has been stopped	<b>True</b>
The impacted area has been secured to protect human health and the environment	<b>True</b>
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	<b>True</b>
All free liquids and recoverable materials have been removed and managed appropriately	<b>True</b>
If all the actions described above have not been undertaken, explain why	<b>Not answered.</b>

*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: Robert Woodall Title: Environmental Analyst Email: <a href="mailto:robert.d.woodall@exxonmobil.com">robert.d.woodall@exxonmobil.com</a> Date: 08/21/2025
--	---

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**Santa Fe, NM 87505**

QUESTIONS, Page 3

Action 498517

**QUESTIONS (continued)**

Operator:  XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:  5380
	Action Number:  498517
	Action Type:  [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Site Characterization</b>	
<i>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.</i>	
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
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1000 (ft.) and ½ (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1000 (ft.) and ½ (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1000 (ft.) and ½ (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 1000 (ft.) and ½ (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

<b>Remediation Plan</b>	
<i>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.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating 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.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
<b>Soil Contamination Sampling:</b> (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	224
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	0
GRO+DRO (EPA SW-846 Method 8015M)	0
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
On what estimated date will the remediation commence	05/15/2024
On what date will (or did) the final sampling or liner inspection occur	10/30/2024
On what date will (or was) the remediation complete(d)	10/30/2024
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	0
What is the estimated volume (in cubic yards) that will be remediated	0
<i>These estimated dates and measurements 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.</i>	
<i>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.</i>	

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**Santa Fe, NM 87505**

QUESTIONS, Page 4

Action 498517

**QUESTIONS (continued)**

Operator:  XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:  5380
	Action Number:  498517
	Action Type:  [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Remediation Plan (continued)</b>	
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.	
<b>This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:</b>	
(Select all answers below that apply.)	
(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Not answered.
(Ex Situ) Excavation and <b>on-site</b> 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)	Yes
Other Non-listed Remedial Process. Please specify	This spill was for brackish water, not produced water. Laboratory analytical results from delineation soil samples indicated that the release was adequately delineated both vertically and horizontally, and the affected area was not impacted above the applicable NMOCD Closure Criteria or NMOCD Reclamation Standards. Therefore, no further remedial action was required. In consideration of this information, Etech recommends XTO Energy, Inc., provide copies of this Site Assessment Summary & Closure Request to the appropriate agencies and request closure be granted to the Site
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
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: Robert Woodall Title: Environmental Analyst Email: robert.d.woodall@exxonmobil.com Date: 08/22/2025
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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Santa Fe, NM 87505

QUESTIONS, Page 5

Action 498517

QUESTIONS (continued)

Operator:  XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:  5380
	Action Number:  498517
	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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**Santa Fe, NM 87505**

QUESTIONS, Page 6

Action 498517

**QUESTIONS (continued)**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 498517
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

Sampling Event Information	
Last sampling notification (C-141N) recorded	395990
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/30/2024
What was the (estimated) number of samples that were to be gathered	20
What was the sampling surface area in square feet	1136

Remediation Closure Request	
<i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>	
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	1136
What was the total volume (cubic yards) remediated	42
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	1136
What was the total volume (in cubic yards) reclaimed	42
Summarize any additional remediation activities not included by answers (above)	Laboratory analytical results from delineation soil samples indicated that the release was adequately delineated both vertically and horizontally, and the affected area was not impacted above the applicable NMOCD Closure Criteria or NMOCD Reclamation Standards. Therefore, no further remedial action was required. In consideration of this information, Etech recommends XTO Energy, Inc., provide copies of this Site Assessment Summary & Closure Request to the appropriate agencies and request closure be granted to the Site
<i>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>	
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: Robert Woodall Title: Environmental Analyst Email: robert.d.woodall@exxonmobil.com Date: 08/22/2025

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QUESTIONS, Page 7

Action 498517

QUESTIONS (continued)

Operator:  XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:  5380
	Action Number:  498517
	Action Type:  [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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 498517

CONDITIONS

Operator:  XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:  5380
	Action Number:  498517
	Action Type:  [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your Remediation Closure Report for Incident #nAPP2409248851 Poker Lake Unit 28-21 Big Sinks, thank you. This Remediation Closure Report is approved.	10/6/2025