



## Remediation Summary and Closure Request

**Energex, LLC**

**Lucas Fee #1**

**Chaves County, New Mexico**

**Unit Letter "K", Section 24, Township 8 South, Range 33 East**

**Latitude 33.605541 North, Longitude 103.519656 West**

**NMOCD Incident # nAPP2411639976**

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Prepared For:

Murchison Oil & Gas  
5325 Sierra Vista  
Carlsbad, NM 88230

Prepared By:

Hungry Horse, LLC  
4024 Plains Hwy  
Lovington, NM 88260  
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**July 2024**

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## HUNGRY HORSE, LLC

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The following *Remediation Summary and Closure Request* serves as a condensed update on field activities undertaken at the afore referenced Site.

### Background:

The site is located in Unit Letter K (NE/SW), Section 24, Township 8 South, Range 33 East, approximately 27 miles Northwest of Tatum, in Chaves County, New Mexico. The property is located on private land. Topographic Map, OSE POD Locations Map, and USGS Well Locations Map are included as Figure 1, Figure 2, and Figure 3, respectively.

The release occurred on an active tank battery; Latitude 33.605541 North, Longitude 103.519656 West. The NMOCD Form C-141 indicated that on March 9, 2023 approximately twenty-six bbls of crude oil was released due to an unknown cause. No fluid was recovered. The release occurred within the tank battery containment; however, the NMOCD also identified an area outside the containment affected by the release. A small area appeared to have overflowed the berm while a larger area appeared to be overspray. Previously submitted pages of the NMOCD Form C-141 are available on the NMOCD Permitting Portal.

### NMOCD Site Classification:

A search of the New Mexico Office of the State Engineer (NMOSE) and United States Geological Survey (USGS) groundwater databases was completed in an effort to determine the horizontal distance to known water sources within a half mile radius of the Release Site. Approximate depth to groundwater was determined using maintained and published water well data. Karst mapping indicates the site is not located in a Karst designated area. Depth to groundwater information is provided as Attachment II and the results are depicted on Figures 2 and 3.

No water wells were located within a half mile of the release area. Therefore, the site will be remediated according to the strictest NMOCD Closure Criteria. Utilizing this information, the NMOCD Closure Criteria for the Site were determined as follows:

Depth to Groundwater	Constituent	Method	Limit
<50'	Chloride	EPA 300.0 or SM4500 CLB	600 mg/kg
	TPH (GRO + DRO + MRO)	EPA SW-846 Method 8015M Ext	100 mg/kg
	BTEX	EPA SW-846 Methods 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Methods 8021B or 8260B	10 mg/kg

A United States Department of Agriculture (USDA) Web Soil Survey was completed to determine soil types in the area of reclamation. Web Soil Survey indicates the area is located in the Amarose-Douro loamy fine sands comprised of loamy fine sand and sandy clay loam soils with 0 to 3 percent slopes. Landowner approved seed mixture will be utilized for seeding the area after reclamation activities are complete. Karst, Wetland, and Soil Maps are provided as Attachment I.



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**Delineation and Remediation Activities:**

On May 16, 2024, Hungry Horse conducted an initial site assessment consisting of photographing, mapping, and delineating the release area outside the containment. During delineation activities, sample test trenches were advanced within the release area in an effort to determine the vertical extent of contamination. These sample locations are identified by SP designation. In addition, sample test trenches were advanced along the outside edges of the affected area in an effort to determine the horizontal extent of contamination. These sample locations are identified by HZ designation. During the advancement of the test trenches, soil samples were collected and field screened for the presence of chloride concentrations utilizing a Hach Quantab® chloride test kit. At this time the overspray area was also field screened for the presence of chlorides. Field screen results indicated chloride concentrations were below NMOCD Closure Criteria.

Based on field observations and field test data noted above and provided in Attachment V, fourteen representative soil samples were selected for laboratory analysis. Delineation soil samples SP1 and SP2, HZ1 through HZ5, were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated contaminant concentrations were below the NMOCD Closure Criteria in each submitted sample, with the exception of SP1 and SP2, each at Surface, which exhibited TPH concentrations in excess of NMOCD Closure Criteria.

The liner was power washed on May 31, 2024. On June 3, 2024, Hungry Horse, LLC notified NMOCD that a liner inspection would be conducted on June 7, 2024. On June 7, 2024, Hungry Horse personnel arrived on location to inspect the liner. It was noted that it had rained the night before, leaving some standing water within the lined containment area. The liner and containment were thoroughly inspected from edge to edge, as well as around the tanks and process equipment installed on the liner itself. The liner was found to be in place, intact, with no visible breaks, or tears. There was no evidence of the release leaking through the lined containment area. Photographs are provided as Attachment III and a completed Liner Inspection Form as Attachment V.

From June 26-27, 2024, the release area was excavated. Excavated contaminated soil was temporarily stockpiled onsite, within the excavated area, before transport to an NMOCD approved disposal facility.

On June 27, 2024, Hungry Horse, LLC notified NMOCD that closure samples would be collected on July 1, 2024.

On July 1, 2024, forty-eight composite confirmation soil samples were collected from the excavation floor, sidewalls, and overspray area, with each sample representing no more than 200 square feet. Soil samples FL1 through FL9, SW1 through SW3, and OS1 through OS36, were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated contaminant concentrations were below NMOCD Closure Criteria in each submitted sample.





The excavated area measured approximately eighteen hundred square feet, and three feet in depth. During remediation activities approximately 200 yds of contaminated soil was excavated and hauled to an NMOCD approved disposal facility.

A Delineation Sample Map and Excavation Floor Sample Map are provided as Figure 4 and Figure 5, respectively. A Summary of Soil Sample Laboratory Analytical Results are provided as Table 1 and Laboratory Analytical Reports are provided as Attachment VI.

### **Restoration, Reclamation, and Re-Vegetation:**

Based upon laboratory analytical results from confirmation soil samples, the excavation was backfilled with locally sourced, clean, non-impacted soil. The area was contoured to achieve erosion control and preserve surface water flow.

The affected area will be scarified and seeded, via hand broadcast at double the recommended rate, with a landowner approved seed mixture, free of noxious weeds, within 30 days. The reclaimed areas will then be watered to aid in seed germination.

### **Closure Request:**

Remediation activities, and liner inspection, were conducted in accordance with applicable NMOCD Regulations. Soil affected above the NMOCD Closure Criteria has been excavated and hauled to an NMOCD approved facility for disposal. Laboratory analytical results from composite confirmation samples indicate concentrations of BTEX, TPH, and chloride are below the NMOCD Closure Criteria.

Based on laboratory analytical results and a thorough liner inspection, Energex, LLC respectfully requests closure of the Lucas Fee #1 location, nAPP1902343484.

### **Limitations:**

Hungry Horse, LLC, has prepared this *Remediation Summary and Closure Request* to the best of its ability. No other warranty, expressed or implied, is made or intended. Hungry Horse has examined and relied upon documents referenced in the report and on oral statements made by certain individuals. Hungry Horse has not conducted an independent examination of the facts contained in referenced materials and statements. Hungry Horse has presumed the genuineness of these documents and statements and that the information provided therein is true and accurate. Hungry Horse 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.



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**Distribution:**

**Energex, LLC**

5325 Sierra Vista  
Carlsbad, NM 88230

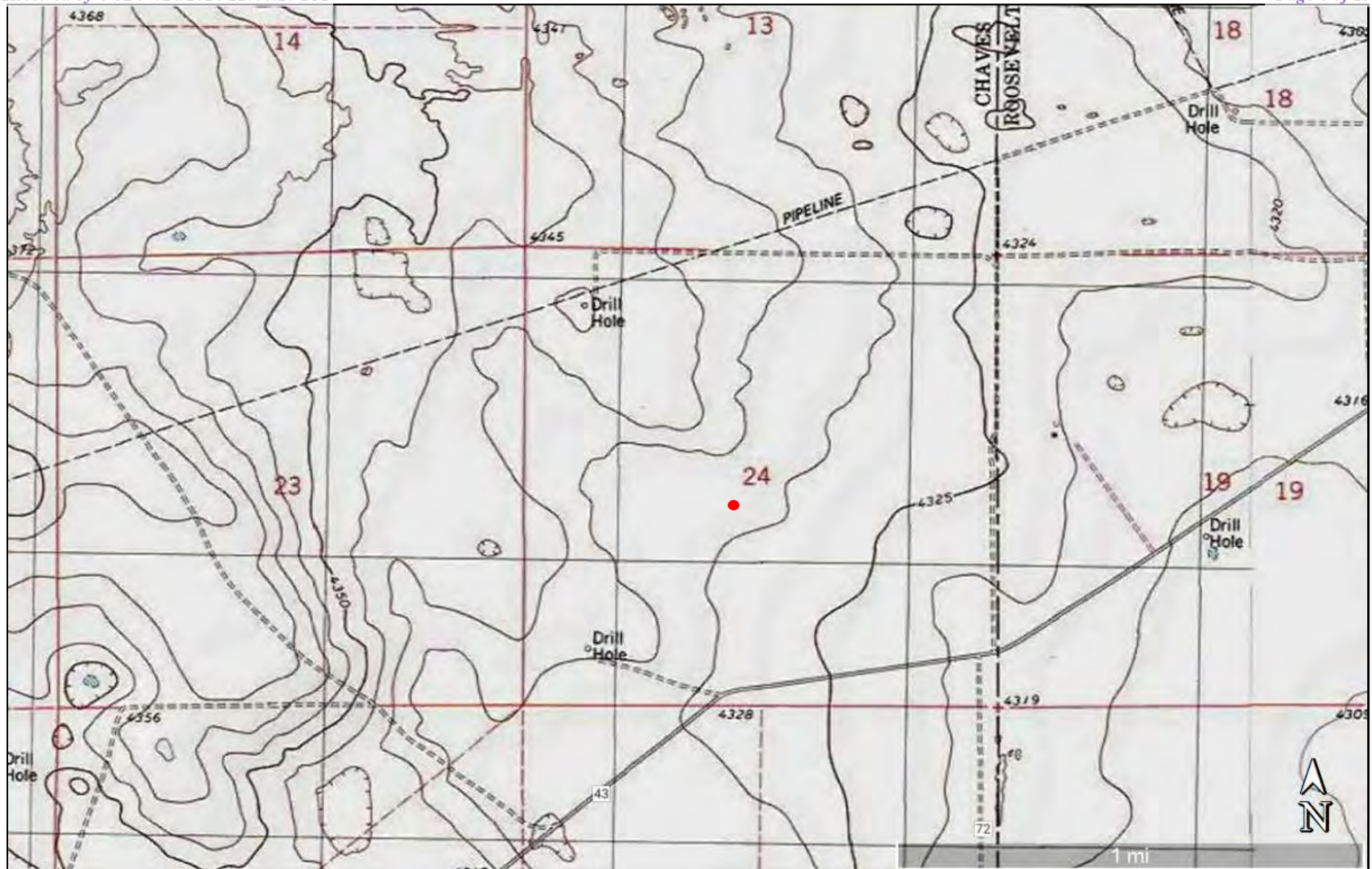
**New Mexico Energy, Minerals and Natural Resources Department**

Oil Conservation Division, District 2  
811 S. First St.  
Artesia, NM 88210

**Shannon Kizer**

PO Box 56  
Pep, NM 88126

## Figures

**Figure 1**

Topographic Map

Energex, LLC

Lucas Fee #1

GPS: 33.605541, -103.519656

Chaves County

**Legend:** Lucas Fee #1 Location

Drafted: dd

Checked: bw

Date: 5/15/24







1:9,028

**Figure 2**

OSE POD Locations Map  
Energex, LLC  
Lucas Fee #1  
GPS: 33.605541, -103.519656  
Chaves County

**Legend:**

● Lucas Fee #1 Location

Drafted: dd  
Checked: bw  
Date: 5/15/24





**Figure 3**

USGS Well Locations Map  
Energex, LLC  
Lucas Fee #1  
GPS: 33.605541, -103.519656  
Chaves County

**Legend:**

● Lucas Fee #1 Location

Drafted: dd  
Checked: bw  
Date: 5/15/24





**Figure 4**

Proposed Delineation Sample Map  
 Energex, LLC  
 Lucas Fee #1  
 GPS: 33.605541, -103.519656  
 Chaves County

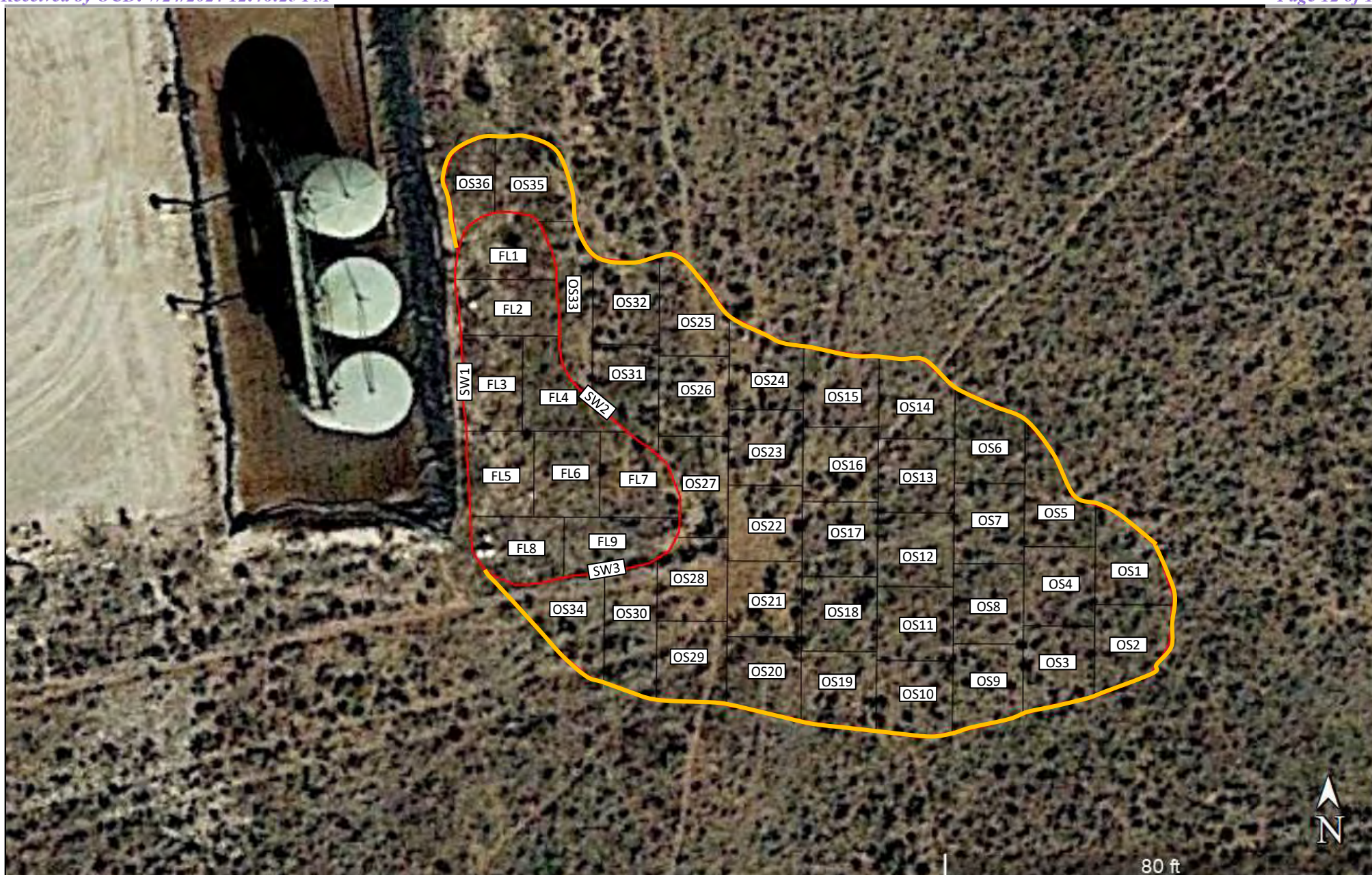
**Legend:**

- Release Areas
- Overspray Area
- SP1 Vertical Delineation Sample Location
- FT1 Field Test Delineation Sample Location

Drafted: dd  
 Checked: bw  
 Date: 5/15/24





**Figure 5**

Excavation Sample Map

Energex, LLC

Lucas Fee #1

GPS: 33.605541, -103.519656

Chaves County

**Legend:**

- Excavated Area
- 200 Square Foot Sample Areas
- Unexcavated Overspray Area
- FL1 Composite Confirmation Sample Location

Drafted: dd  
 Checked: bw  
 Date: 6/28/24





**Table**

**TABLE 1**  
**Summary of Soil Sample Laboratory Analytical Results**  
**Energex, LLC**  
**Lucas Fee #1**  
**NMOCD Ref. #: nAPP2411639976**

Sample ID	Date	Depth (ft)	Soil Status	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)
SP1	5/16/24	Surf	Excavated	<0.050	<0.300	<10.0	11,400	11,400	1,370	<b>12,770</b>	32.0
	5/16/24	3	Excavated	<0.050	<0.300	<10.0	31.7	31.7	<10.0	31.7	32.0
SP2	5/16/24	Surf	Excavated	<0.050	<0.300	<10.0	6,310	6,310	955	<b>7,265</b>	<16.0
	5/16/24	3	Excavated	<0.050	<0.300	<10.0	45.9	45.9	<10.0	45.9	<16.0
HZ1	5/16/24	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
	5/16/24	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
HZ2	5/16/24	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
	5/16/24	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
HZ3	5/16/24	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
	5/16/24	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
HZ4	5/16/24	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
	5/16/24	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
HZ5	5/16/24	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
	5/16/24	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL1	7/1/24	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL2	7/1/24	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL3	7/1/24	3	In-Situ	<0.050	<0.300	<10.0	71.1	71.1	14.7	85.8	16.0
FL4	7/1/24	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL5	7/1/24	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL6	7/1/24	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL7	7/1/24	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL8	7/1/24	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL9	7/1/24	3	In-Situ	<0.050	<0.300	<10.0	17.8	<20.0	<10.0	<30.0	<16.0
SW1	7/1/24	0-3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SW2	7/1/24	0-3	In-Situ	<0.050	<0.300	<10.0	13.4	<20.0	<10.0	<30.0	16.0
SW3	7/1/24	0-3	In-Situ	<0.050	<0.300	<10.0	10.5	<20.0	<10.0	<30.0	<16.0
<b>NMOCD Closure Criteria</b>				<b>10</b>	<b>50</b>	<b>-</b>	<b>-</b>	<b>N/A</b>	<b>-</b>	<b>100</b>	<b>600</b>

**NOTES:**

- = Sample not analyzed for that constituent.

**Bold text denotes a concentration that exceeds the NMOCD Closure Criteria**

**TABLE 1**  
**Summary of Soil Sample Laboratory Analytical Results**  
**Energex, LLC**  
**Lucas Fee #1**  
**NMOCD Ref. #: nAPP2411639976**

Sample ID	Date	Depth (ft)	Soil Status	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)
OS1	7/1/24	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
OS2	7/1/24	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
OS3	7/1/24	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
OS4	7/1/24	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
OS5	7/1/24	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
OS6	7/1/24	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
OS7	7/1/24	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
OS8	7/1/24	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
OS9	7/1/24	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
OS10	7/1/24	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
OS11	7/1/24	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
OS12	7/1/24	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
OS13	7/1/24	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
OS14	7/1/24	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
OS15	7/1/24	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
OS16	7/1/24	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
OS17	7/1/24	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
OS18	7/1/24	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
OS19	7/1/24	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
OS20	7/1/24	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
OS21	7/1/24	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
OS22	7/1/24	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
OS23	7/1/24	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
OS24	7/1/24	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
OS25	7/1/24	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
OS26	7/1/24	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
OS27	7/1/24	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
OS28	7/1/24	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
OS29	7/1/24	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
OS30	7/1/24	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
OS31	7/1/24	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
OS32	7/1/24	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
OS33	7/1/24	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
OS34	7/1/24	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
OS35	7/1/24	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
OS36	7/1/24	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
<b>NMOCD Closure Criteria</b>				<b>10</b>	<b>50</b>	<b>-</b>	<b>-</b>	<b>N/A</b>	<b>-</b>	<b>100</b>	<b>600</b>

**NOTES:**

- = Sample not analyzed for that constituent.

**Bold text denotes a concentration that exceeds the NMOCD Closure Criteria**

## **Attachment I**

### **Karst, Wetland, and Soil Maps**

## Lucas Fee #1



7/19/2024

## Karst Type

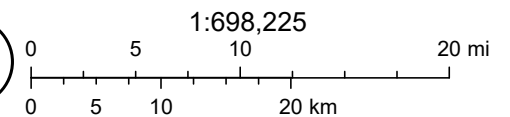
- Carbonate
- Erosional
- Gypsum

- Volcanic
- World Imagery
- Low Resolution 15m Imagery
- High Resolution 60cm Imagery

High Resolution 30cm Imagery

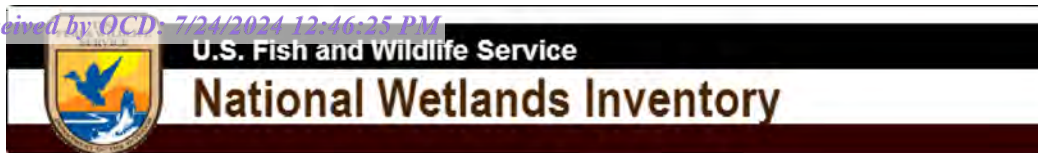
Citations

150m Resolution Metadata



U.S. Geological Survey Open-File Report 2004-1352, Caves and Karst in the  
U.S. National Park Service, AGI Karst Map of the US., Earthstar Geographics





## Lucas Fee #1



July 19, 2024

**Wetlands**

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond

- Lake
- Other
- Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

Soil Map—Chaves County, New Mexico, Northern Part  
(Lucas Fee #1)



Map Scale: 1:16,400 if printed on A landscape (11" x 8.5") sheet.

0 200 400 800 1200 Meters

0 500 1000 2000 3000 Feet

Map projection: Web Mercator Corner coordinates: WGS84



Natural Resources  
Conservation Service

Web Soil Survey  
National Cooperative Soil Survey


7/19/2024  
Page 1 of 3



Soil Map—Chaves County, New Mexico, Northern Part  
(Lucas Fee #1)

## MAP LEGEND

### Area of Interest (AOI)

 Area of Interest (AOI)

### Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

### Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

### Water Features



Streams and Canals

### Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

### Background



Aerial Photography

## MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Chaves County, New Mexico, Northern Part

Survey Area Data: Version 19, Sep 7, 2023

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Feb 5, 2021—Feb 8, 2021

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.



Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
DUA	Douro-Faskin, moist association, gently undulating	43.1	3.7%
FSA	Amarose-Douro loamy fine sands, 0 to 3 percent slopes	1,111.3	96.1%
NJC	Penwell-Jalmar fine sands, 0 to 12 percent slopes	1.5	0.1%
Totals for Area of Interest		1,155.9	100.0%

Map Unit Description: Amarose-Douro loamy fine sands, 0 to 3 percent slopes---Chaves County, New Mexico, Northern Part

Lucas Fee #1

## Chaves County, New Mexico, Northern Part

### FSA—Amarose-Douro loamy fine sands, 0 to 3 percent slopes

#### Map Unit Setting

*National map unit symbol:* 308qq  
*Elevation:* 2,500 to 4,600 feet  
*Mean annual precipitation:* 14 to 16 inches  
*Mean annual air temperature:* 57 to 63 degrees F  
*Frost-free period:* 180 to 220 days  
*Farmland classification:* Not prime farmland

#### Map Unit Composition

*Amarose and similar soils:* 55 percent  
*Douro and similar soils:* 30 percent  
*Minor components:* 15 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### Description of Amarose

##### Setting

*Landform:* Plains  
*Landform position (three-dimensional):* Talf  
*Down-slope shape:* Linear  
*Across-slope shape:* Linear  
*Parent material:* Loamy eolian deposits from the blackwater draw formation of pleistocene age

##### Typical profile

*A - 0 to 9 inches:* loamy fine sand  
*Bt1 - 9 to 32 inches:* sandy clay loam  
*Bt2 - 32 to 39 inches:* fine sandy loam  
*Btk - 39 to 80 inches:* loam

##### Properties and qualities

*Slope:* 0 to 3 percent  
*Depth to restrictive feature:* More than 80 inches  
*Drainage class:* Well drained  
*Runoff class:* Low  
*Capacity of the most limiting layer to transmit water (Ksat):* Moderately high to high (0.60 to 2.00 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Calcium carbonate, maximum content:* 55 percent  
*Maximum salinity:* Nonsaline (0.0 to 1.0 mmhos/cm)  
*Sodium adsorption ratio, maximum:* 2.0  
*Available water supply, 0 to 60 inches:* Moderate (about 8.9 inches)

Map Unit Description: Amarose-Douro loamy fine sands, 0 to 3 percent slopes---Chaves  
County, New Mexico, Northern Part

Lucas Fee #1

### Interpretive groups

*Land capability classification (irrigated): 3e*

*Land capability classification (nonirrigated): 6e*

*Hydrologic Soil Group: B*

*Ecological site: R077DY046TX - Sandy 12-17" PZ*

*Hydric soil rating: No*

### Description of Douro

#### Setting

*Landform: Plains*

*Down-slope shape: Linear*

*Across-slope shape: Linear*

*Parent material: Loamy eolian deposits from the blackwater draw  
formation of pleistocene age*

#### Typical profile

*A - 0 to 8 inches: loamy fine sand*

*Bt1 - 8 to 16 inches: sandy clay loam*

*Bt2 - 16 to 30 inches: sandy clay loam*

*Bkkm - 30 to 40 inches: cemented material*

*2BCkk - 40 to 80 inches: very gravelly loam*

#### Properties and qualities

*Slope: 0 to 3 percent*

*Depth to restrictive feature: 20 to 39 inches to petrocalcic*

*Drainage class: Well drained*

*Runoff class: High*

*Capacity of the most limiting layer to transmit water (Ksat): Very low  
to low (0.00 to 0.01 in/hr)*

*Depth to water table: More than 80 inches*

*Frequency of flooding: None*

*Frequency of ponding: None*

*Calcium carbonate, maximum content: 90 percent*

*Maximum salinity: Nonsaline to slightly saline (0.0 to 5.0  
mmhos/cm)*

*Sodium adsorption ratio, maximum: 5.0*

*Available water supply, 0 to 60 inches: Low (about 4.7 inches)*

### Interpretive groups

*Land capability classification (irrigated): 3e*

*Land capability classification (nonirrigated): 6e*

*Hydrologic Soil Group: C*

*Ecological site: R077DY046TX - Sandy 12-17" PZ*

*Hydric soil rating: No*

### Minor Components

#### Jalmar

*Percent of map unit: 6 percent*

*Landform: Plains*

*Down-slope shape: Linear*

*Across-slope shape: Linear*

Map Unit Description: Amarose-Douro loamy fine sands, 0 to 3 percent slopes---Chaves  
County, New Mexico, Northern Part

Lucas Fee #1

*Ecological site:* R077DY046TX - Sandy 12-17" PZ

*Hydric soil rating:* No

**Delphos**

*Percent of map unit:* 5 percent

*Landform:* Plains, draws

*Landform position (two-dimensional):* Backslope, footslope

*Down-slope shape:* Linear, concave

*Across-slope shape:* Linear

*Ecological site:* R077DY046TX - Sandy 12-17" PZ

*Hydric soil rating:* No

**Spraberry**

*Percent of map unit:* 4 percent

*Landform:* Plains, playa rims

*Down-slope shape:* Linear, convex

*Across-slope shape:* Linear

*Ecological site:* R077DY049TX - Very Shallow 12-17" PZ

*Hydric soil rating:* No

## Data Source Information

Soil Survey Area: Chaves County, New Mexico, Northern Part

Survey Area Data: Version 19, Sep 7, 2023



## **Attachment II**

### **NMOCD Correspondence**

**District I**

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

**District II**

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

**District III**

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

**District IV**

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

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

QUESTIONS

Action 350302

**QUESTIONS**

Operator: ENERGEX, LLC 18291 Pima Rd. Suite 110 Scottsdale, AZ 85255	OGRID: 296260
	Action Number: 350302
	Action Type: [NOTIFY] Notification Of Liner Inspection (C-141L)

**QUESTIONS**

Prerequisites	
Incident ID (n#)	nAPP2411639976
Incident Name	NAPP2411639976 LUCAS FEE #1 @ 30-005-29212
Incident Type	Oil Release
Incident Status	Initial C-141 Approved
Incident Well	[30-005-29212] LUCAS FEE #001

Location of Release Source	
Site Name	Lucas Fee #1
Date Release Discovered	03/09/2023
Surface Owner	Private

Liner Inspection Event Information	
Please answer all the questions in this group.	
What is the liner inspection surface area in square feet	6,300
Have all the impacted materials been removed from the liner	Yes
Liner inspection date pursuant to Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC	06/07/2024
Time liner inspection will commence	08:00 AM
Please provide any information necessary for observers to liner inspection	33.605395, -103.519250
Please provide any information necessary for navigation to liner inspection site	FROM NM-206 & CR-258, GO W ON CR-258 4.97MI, TRN N STAYING ON CR-258 1 MI, TRN W STAYING ON CR-258 1.99MI, TRN S ON UNNAMED CALICHE RD 5.84MI, TRN N 0.38MI TO THE LOCATION

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720  
**District II**  
811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720  
**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 350302

CONDITIONS

Operator: ENERGEX, LLC 18291 Pima Rd. Suite 110 Scottsdale, AZ 85255	OGRID: 296260
	Action Number: 350302
	Action Type: [NOTIFY] Notification Of Liner Inspection (C-141L)

CONDITIONS

Created By	Condition	Condition Date
mlilley	Failure to notify the OCD of liner inspections including any changes in date/time per the requirements of 19.15.29.11.A(5)(a)(ii) NMAC, may result in the inspection not being accepted.	6/3/2024

**District I**

1625 N. French Dr., Hobbs, NM 88240  
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811 S. First St., Artesia, NM 88210  
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**District IV**

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

QUESTIONS

Action 359276

**QUESTIONS**

Operator: ENERGEX, LLC 18291 Pima Rd. Suite 110 Scottsdale, AZ 85255	OGRID: 296260
	Action Number: 359276
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

**QUESTIONS**

Prerequisites	
Incident ID (n#)	nAPP2411639976
Incident Name	NAPP2411639976 LUCAS FEE #1 @ 30-005-29212
Incident Type	Oil Release
Incident Status	Initial C-141 Approved
Incident Well	[30-005-29212] LUCAS FEE #001

Location of Release Source	
Site Name	Lucas Fee #1
Date Release Discovered	03/09/2023
Surface Owner	Private

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	9,000
What is the estimated number of samples that will be gathered	48
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	07/01/2024
Time sampling will commence	08:00 AM
Please provide any information necessary for observers to contact samplers	Jerry Heidelberg 575-390-3639 9 Floor samples, 3 Sidewall samples, 36 Overspray area samples
Please provide any information necessary for navigation to sampling site	33.605541, -103.519656



**District I**  
1625 N. French Dr., Hobbs, NM 88240  
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State of New Mexico  
Energy, Minerals and Natural Resources  
Oil Conservation Division  
1220 S. St Francis Dr.  
Santa Fe, NM 87505

CONDITIONS  
  
Action 359276

CONDITIONS

Operator: ENERGEX, LLC 18291 Pima Rd. Suite 110 Scottsdale, AZ 85255	OGRID: 296260
	Action Number: 359276
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
mlilley	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.	6/27/2024

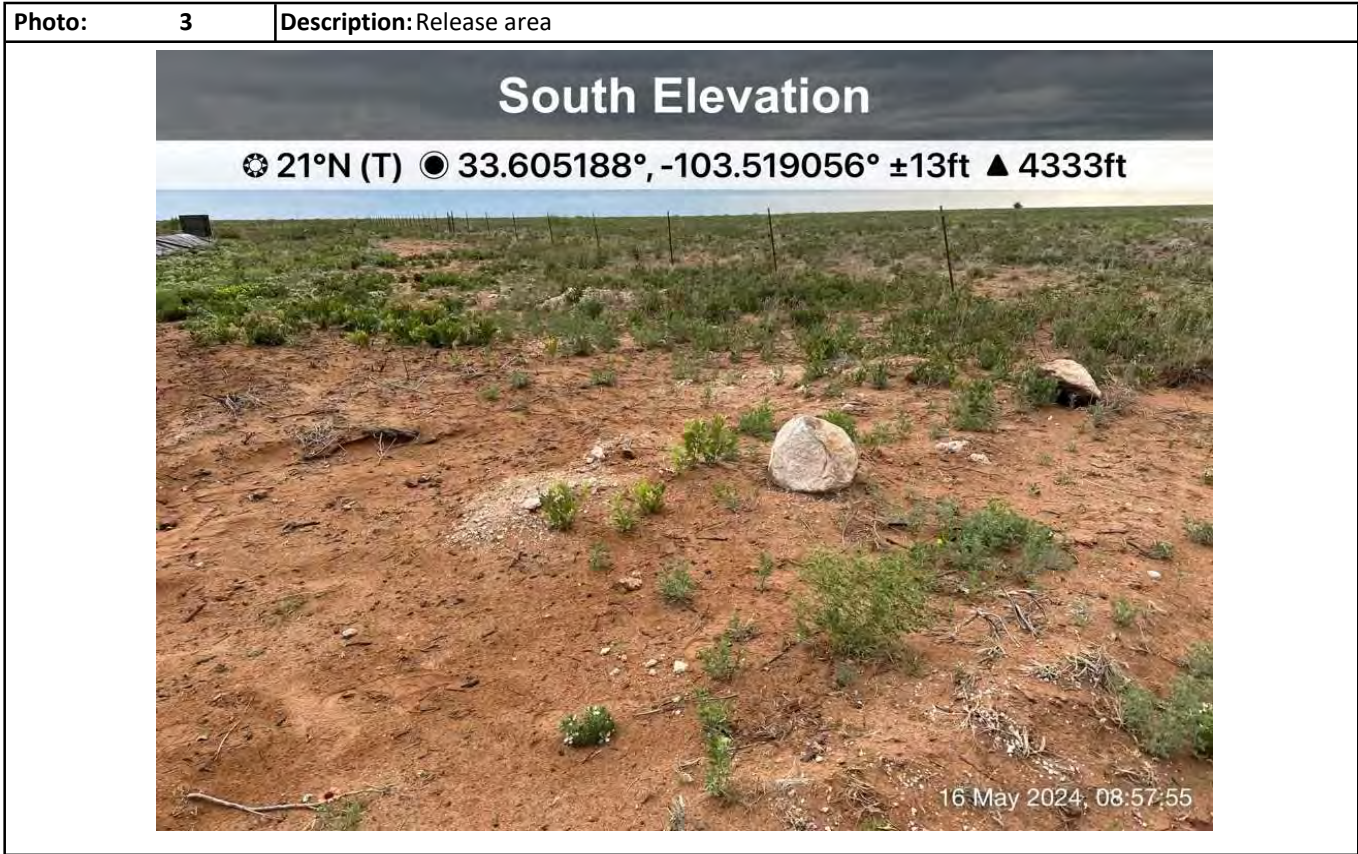
## **Attachment III Site Photographs**

Photographs



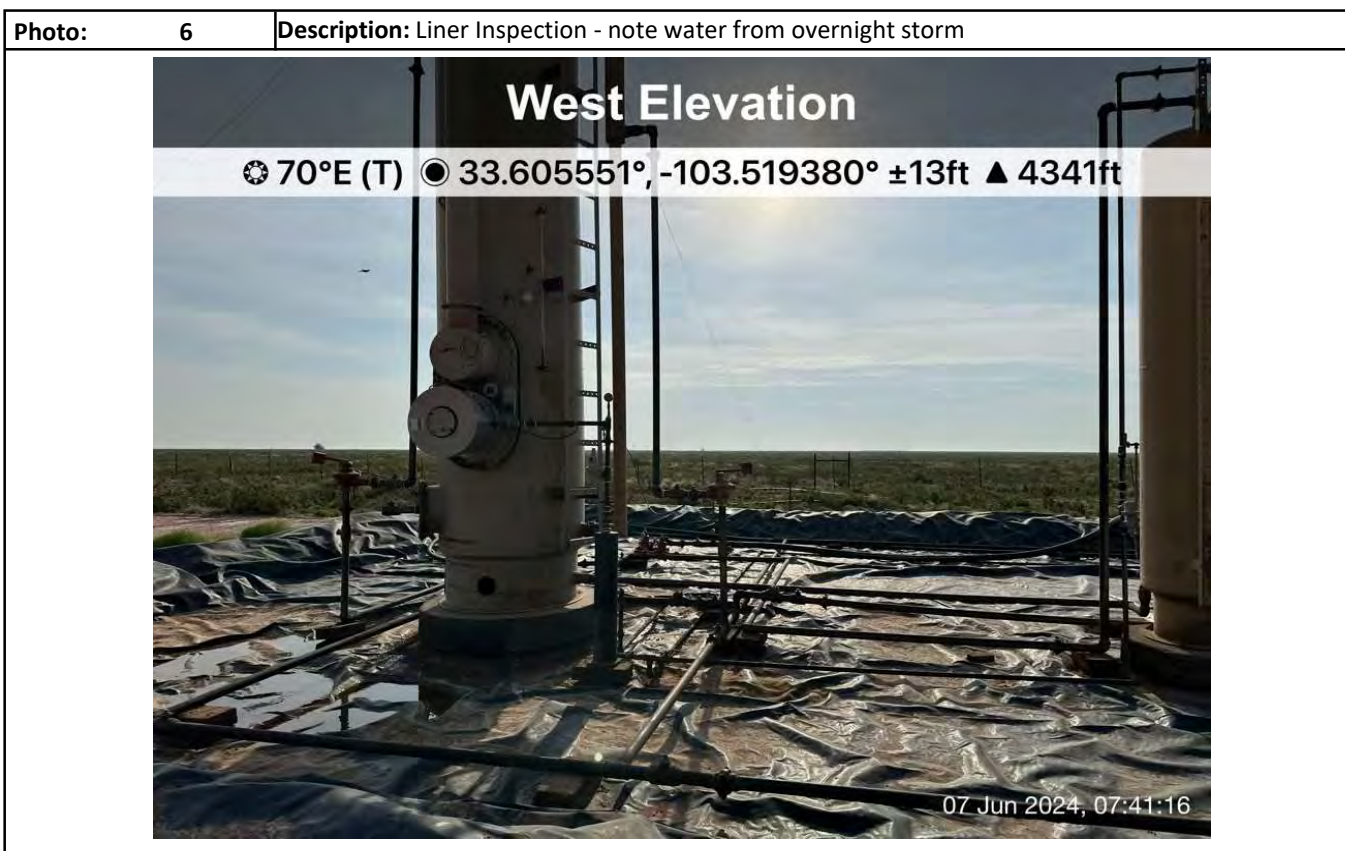
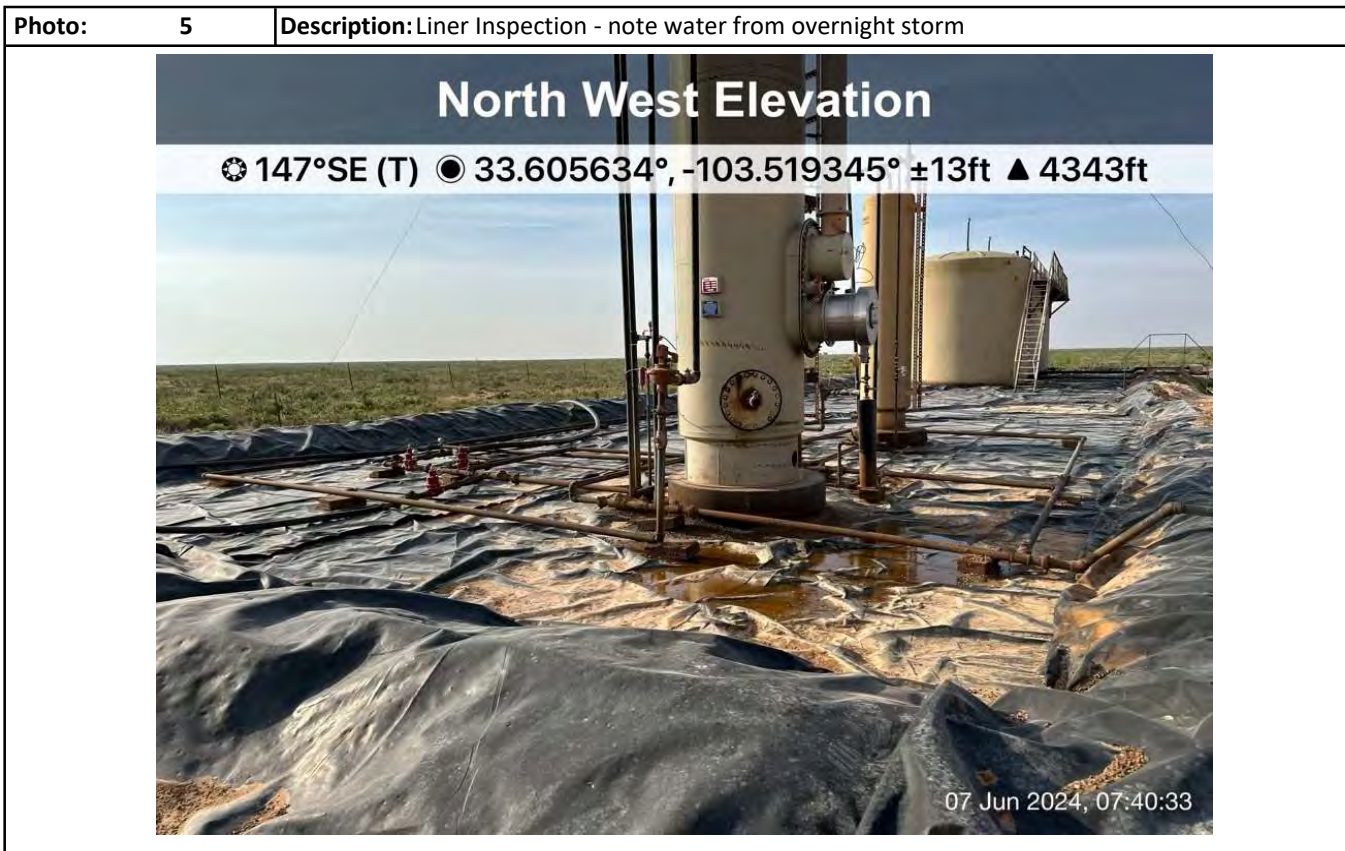


Photographs





## Photographs





## Photographs



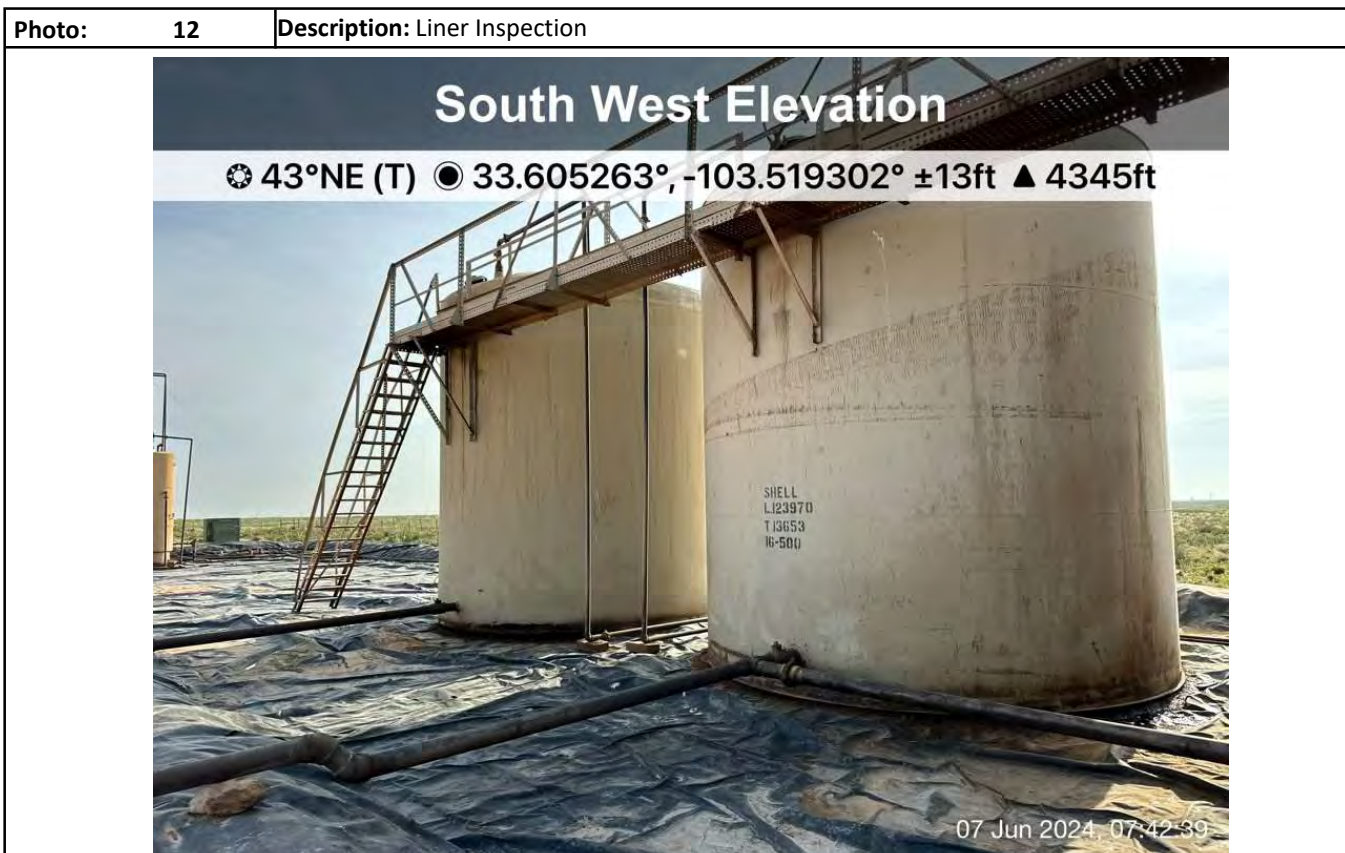
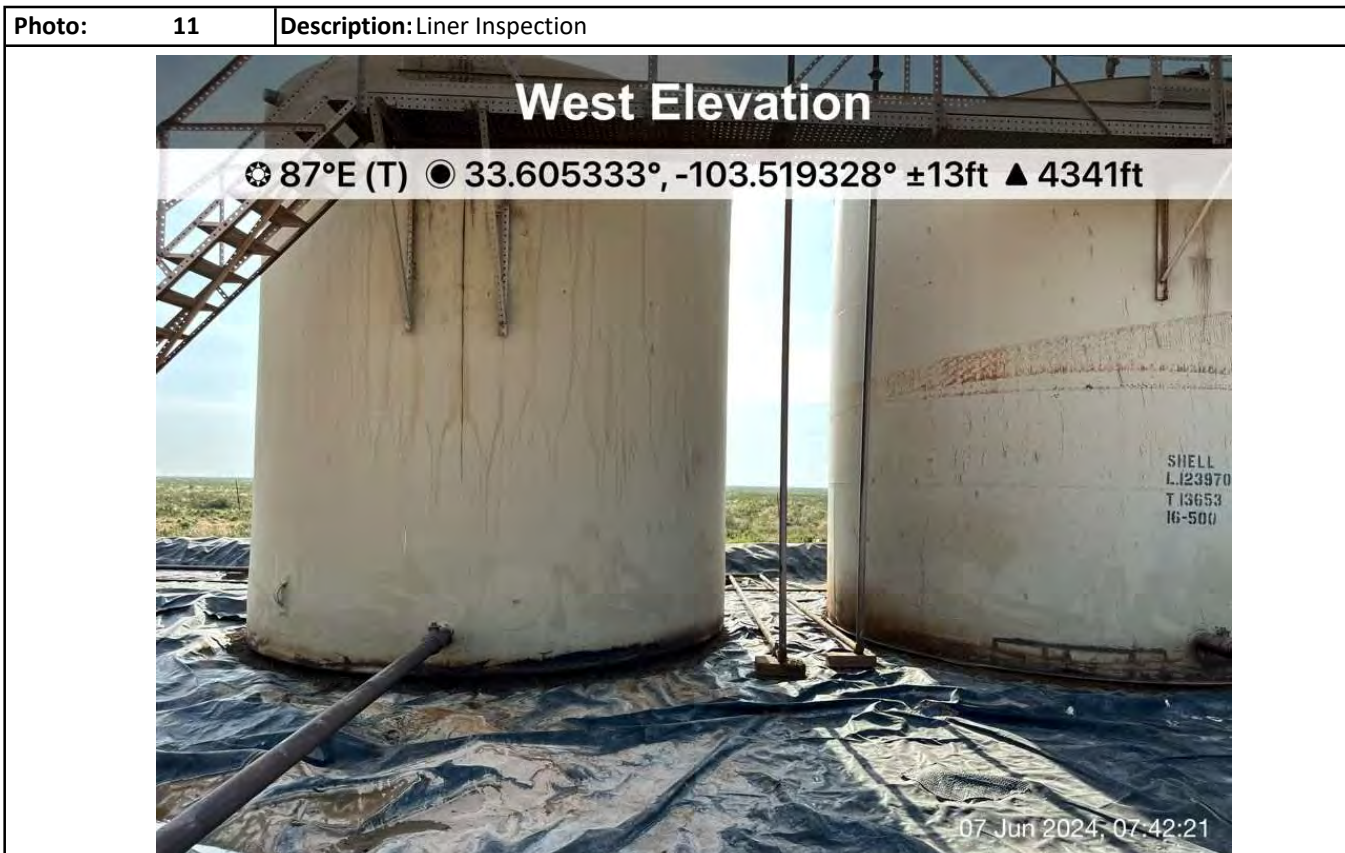


## Photographs





## Photographs





Photographs


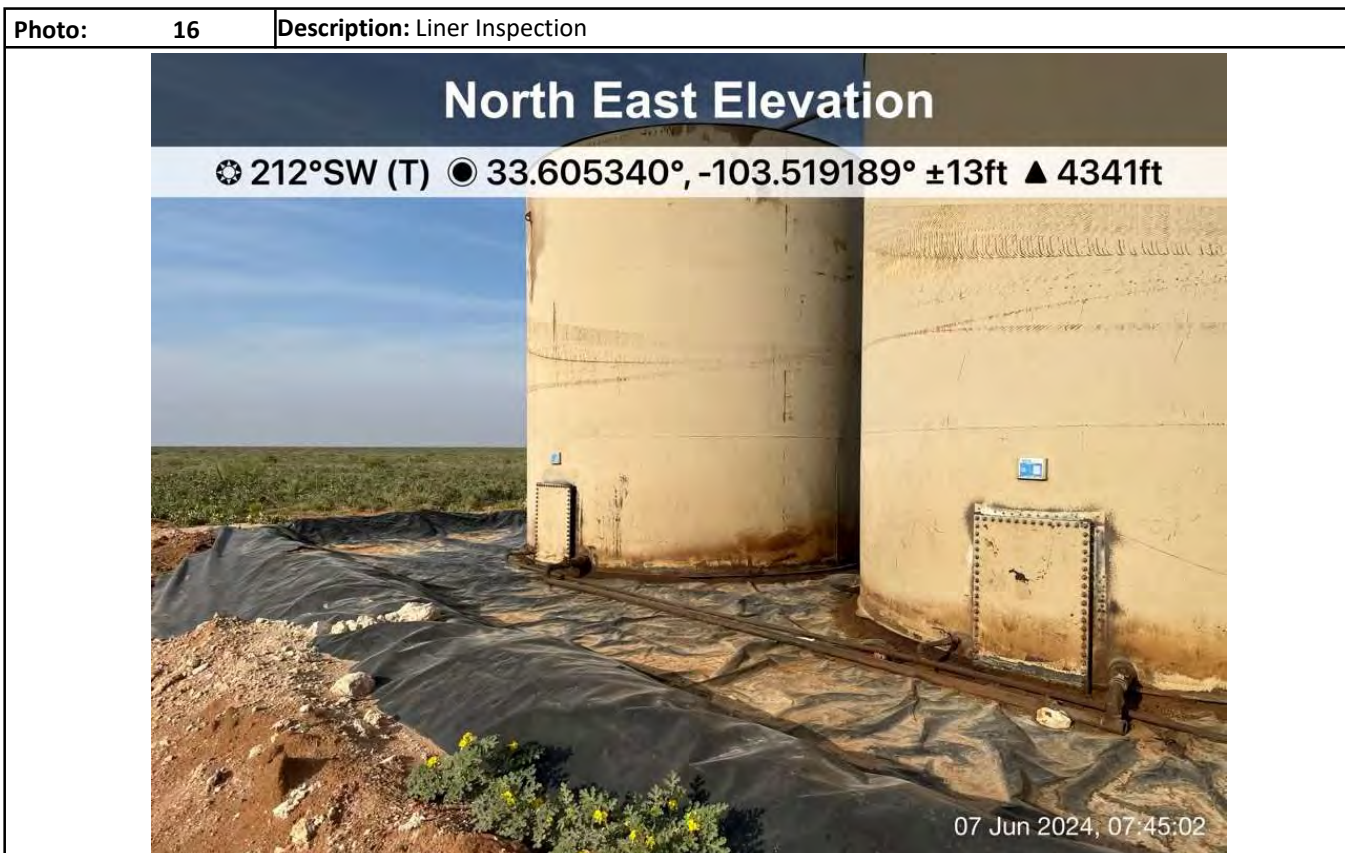
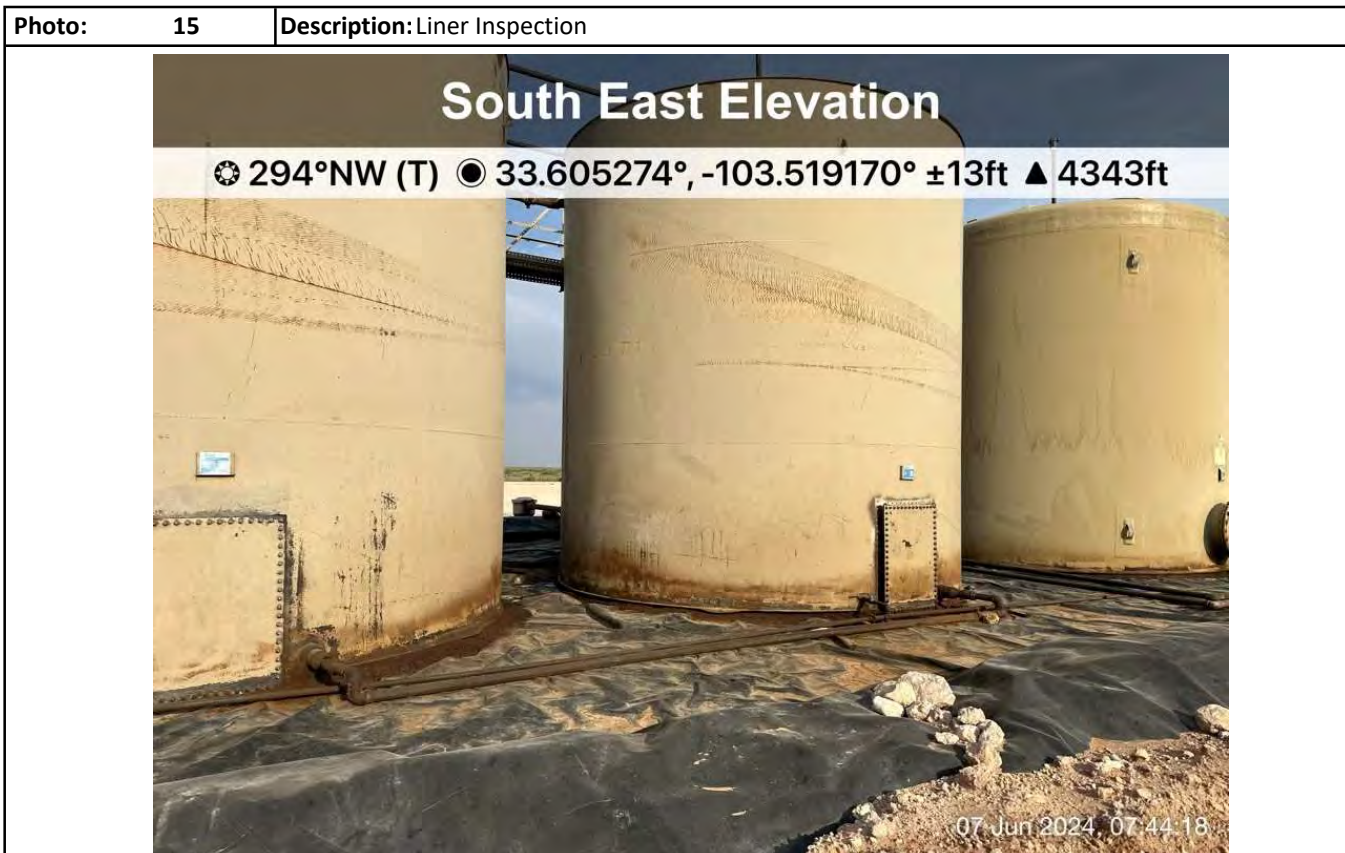
Photo: 13	Description: Liner Inspection - note water from overnight storm
<div><div>South East Elevation</div><div>☼ 336°NW (T) ● 33.605200°, -103.519242° ±13ft ▲ 4342ft</div></div>	

Photo: 14	Description: Liner Inspection - note water from overnight storm
<div><div>South Elevation</div><div>☼ 16°N (T) ● 33.605199°, -103.519243° ±13ft ▲ 4342ft</div></div>	

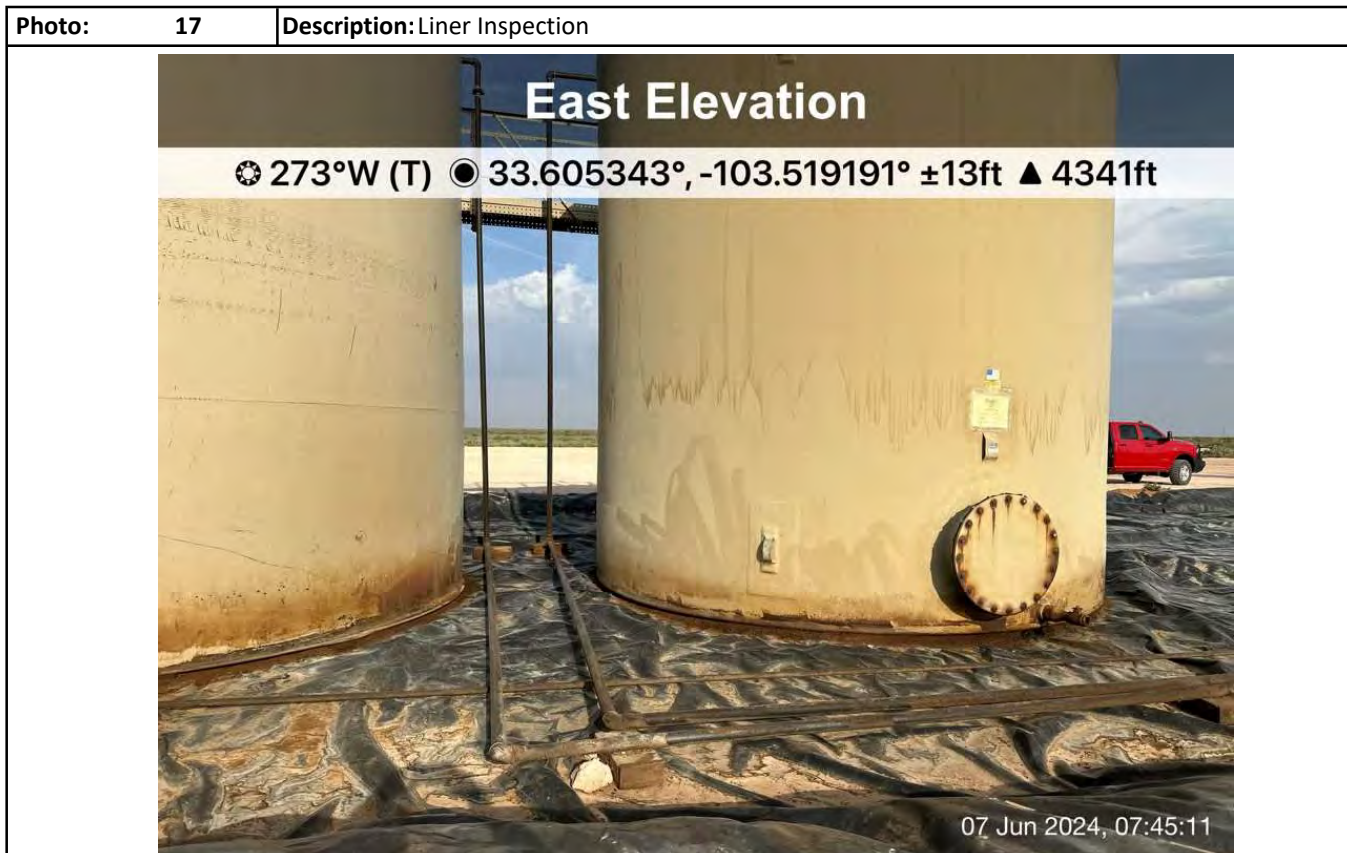


## Photographs



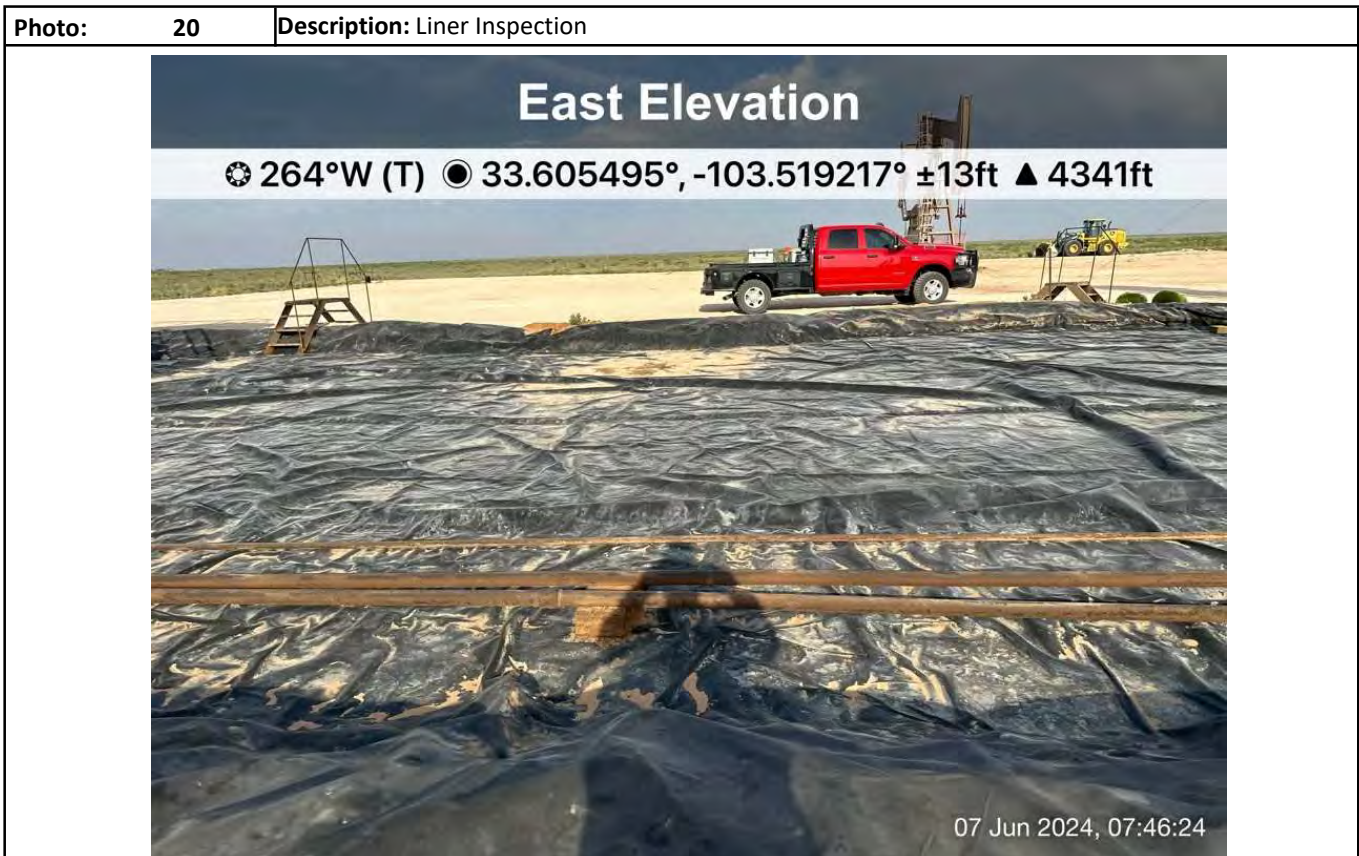
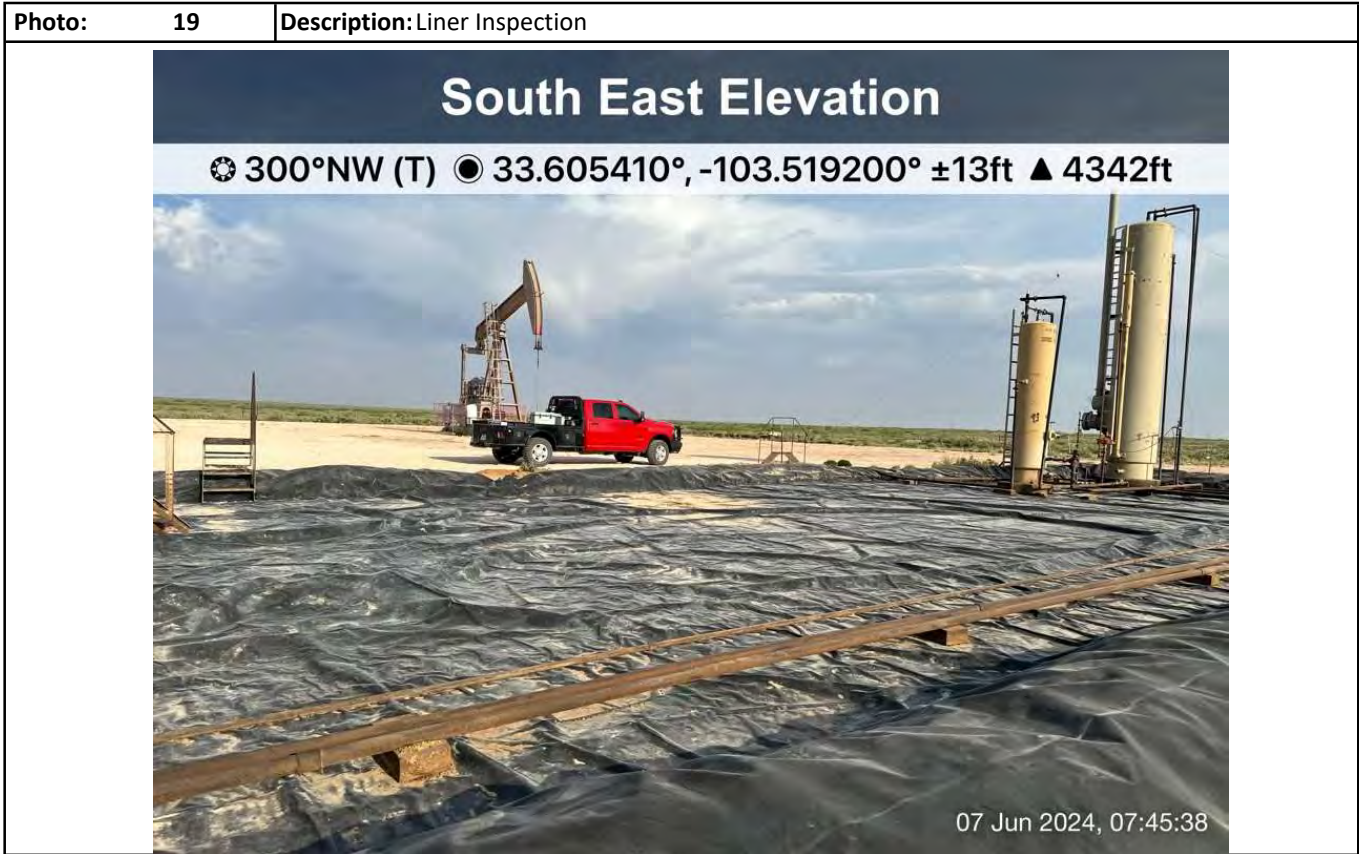


## Photographs



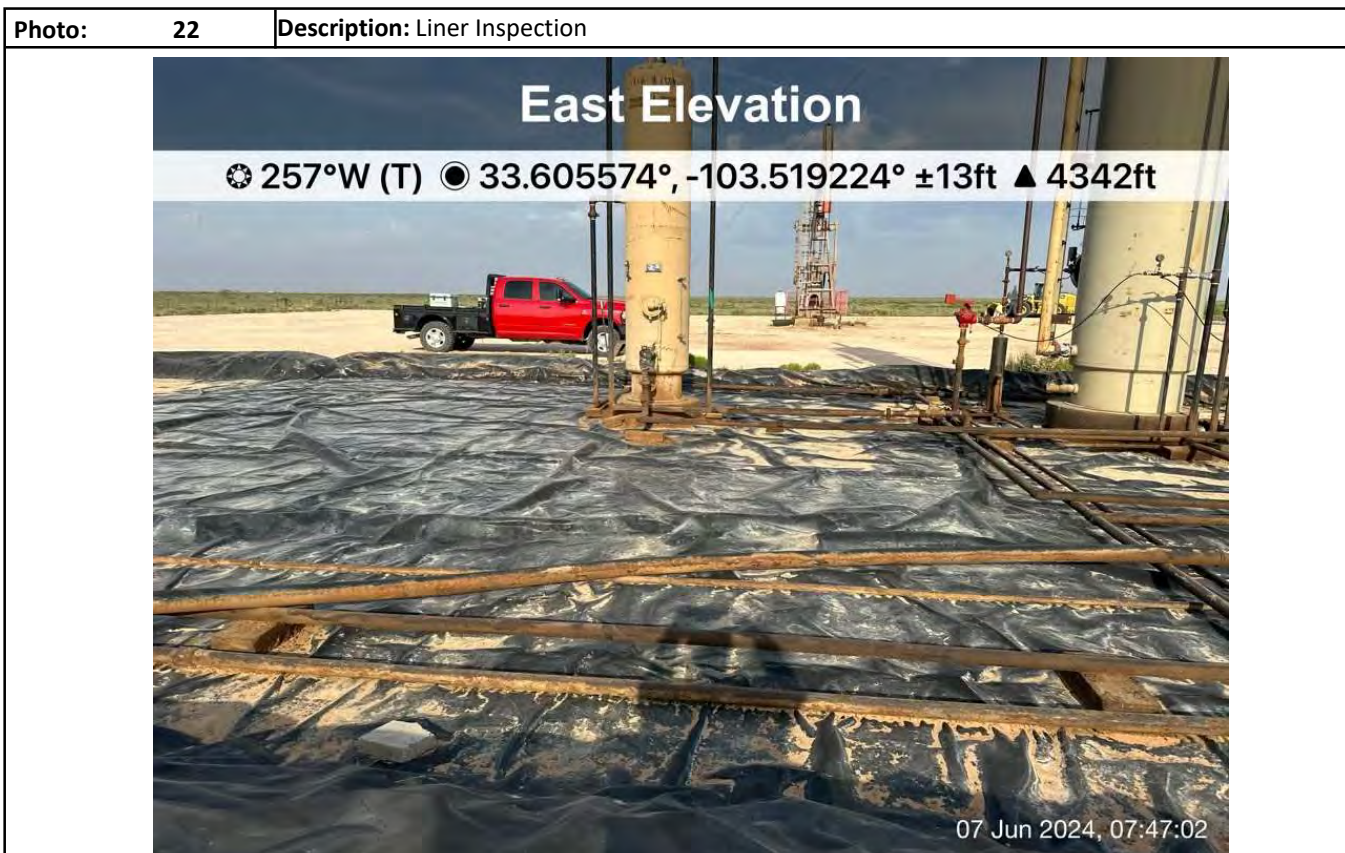
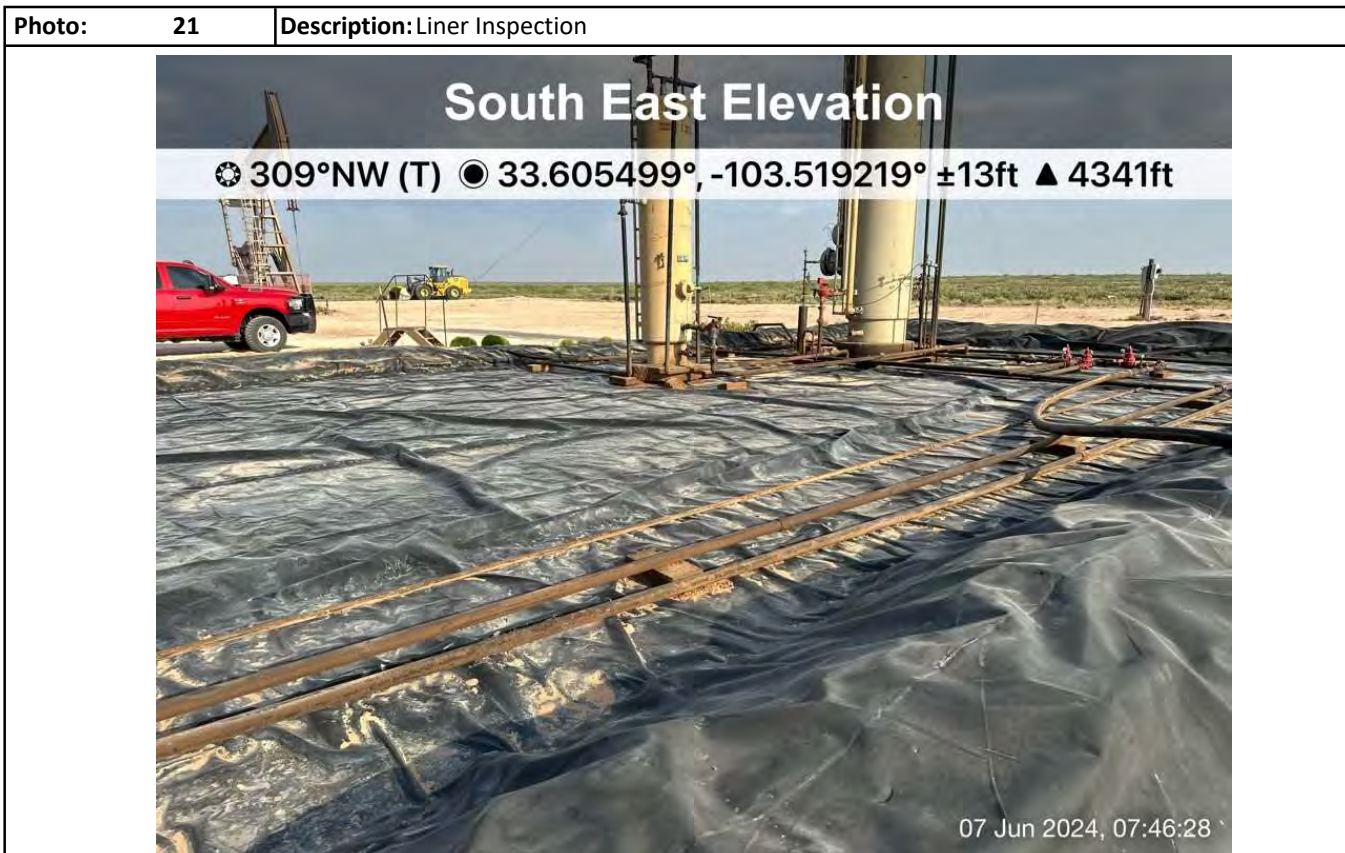


Photographs



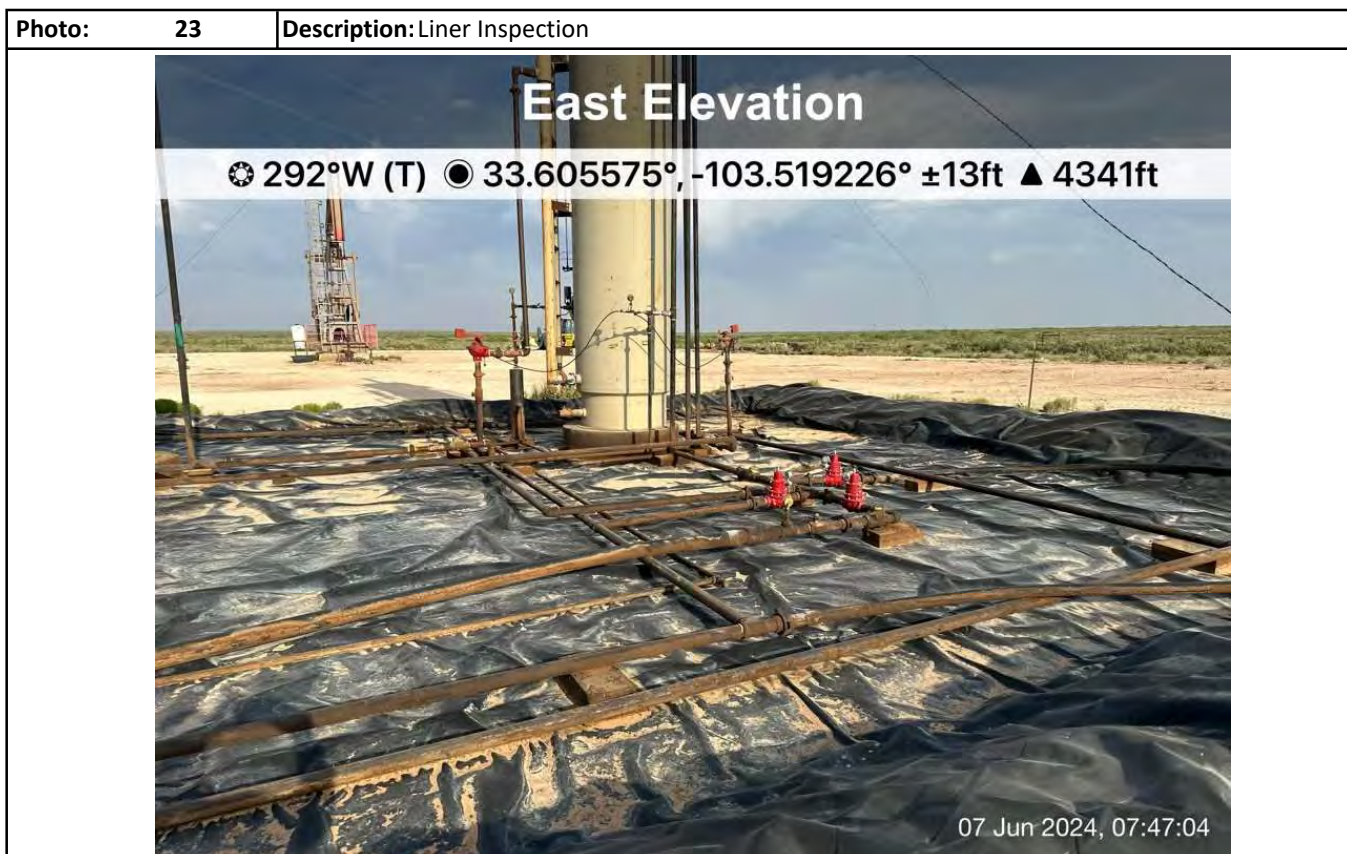


## Photographs



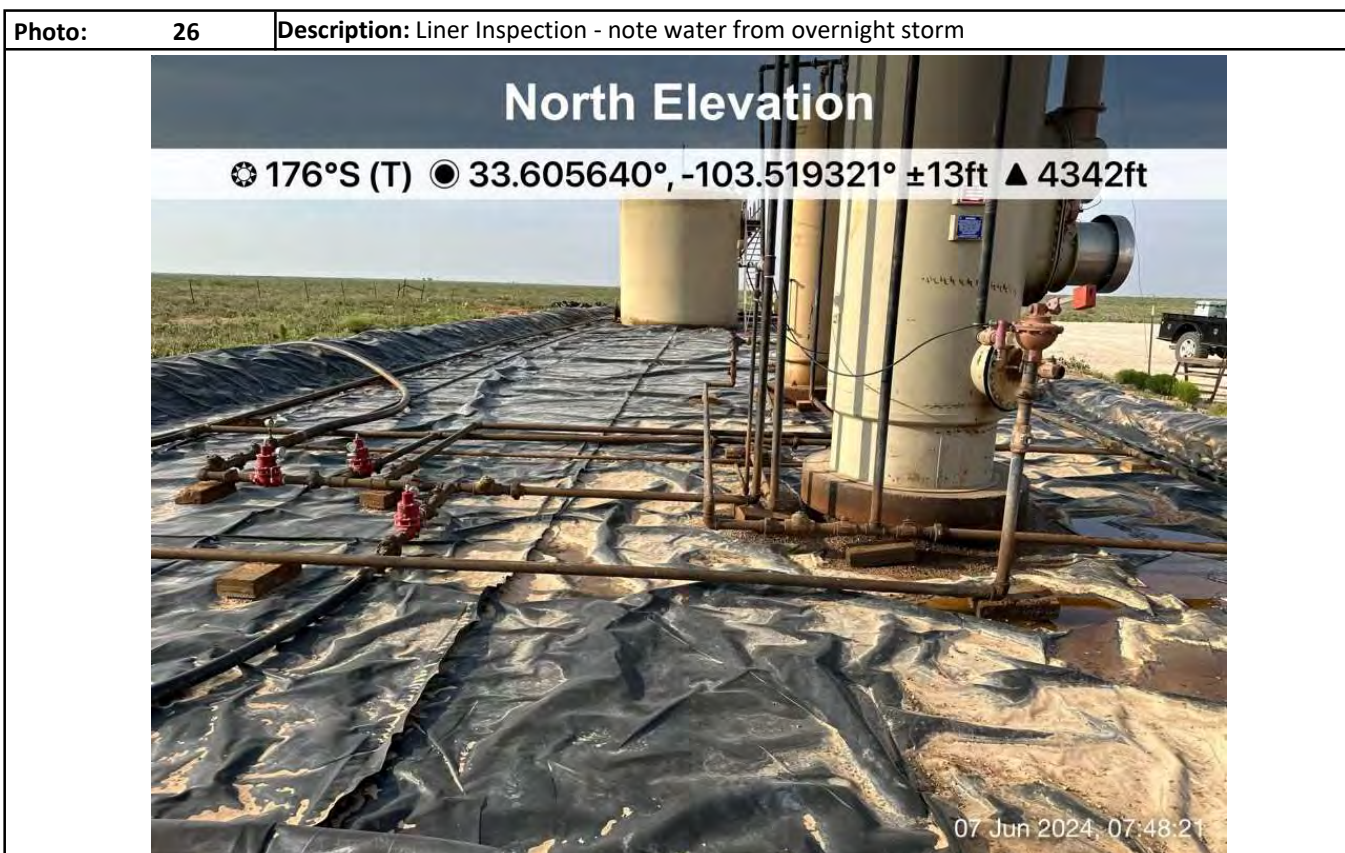


## Photographs





## Photographs



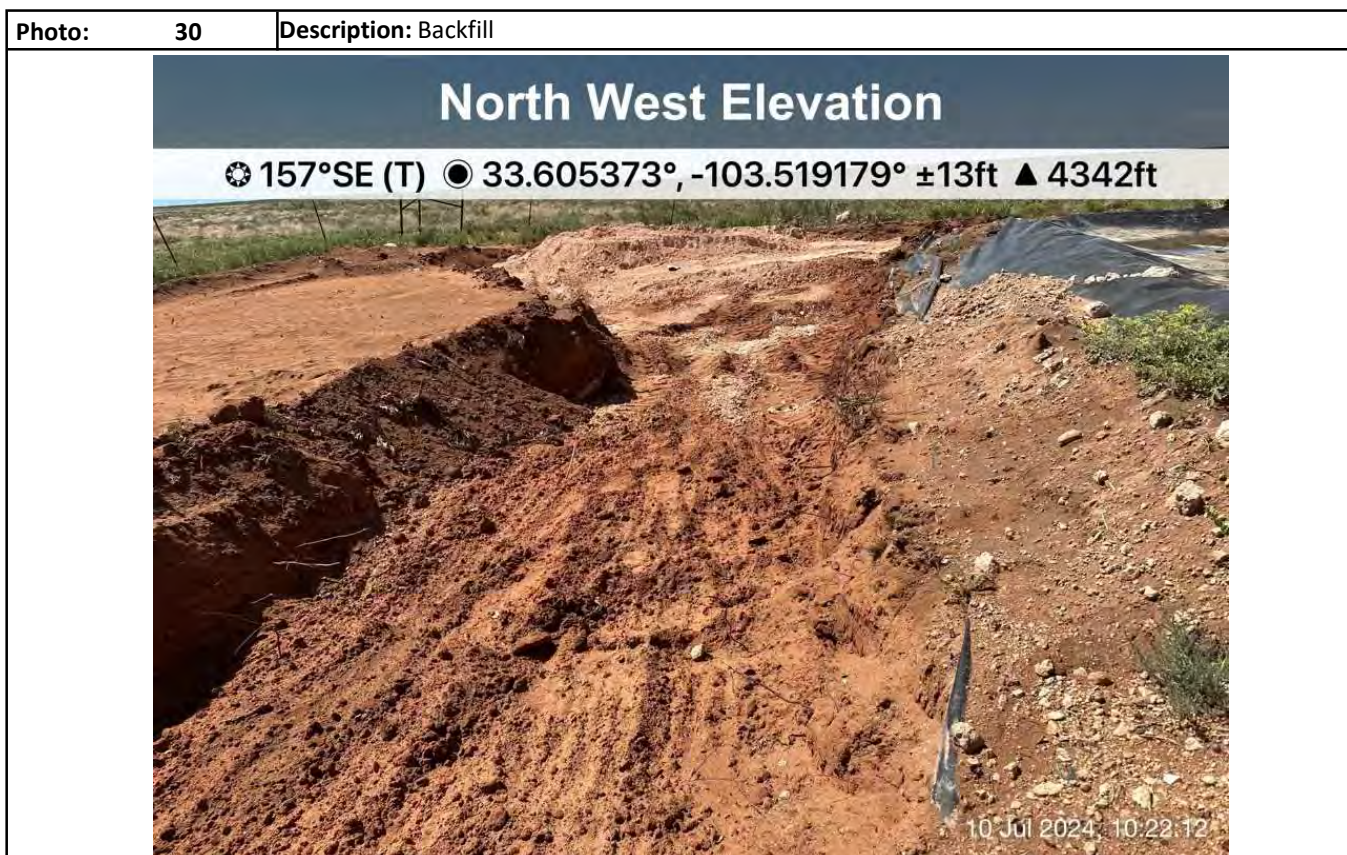
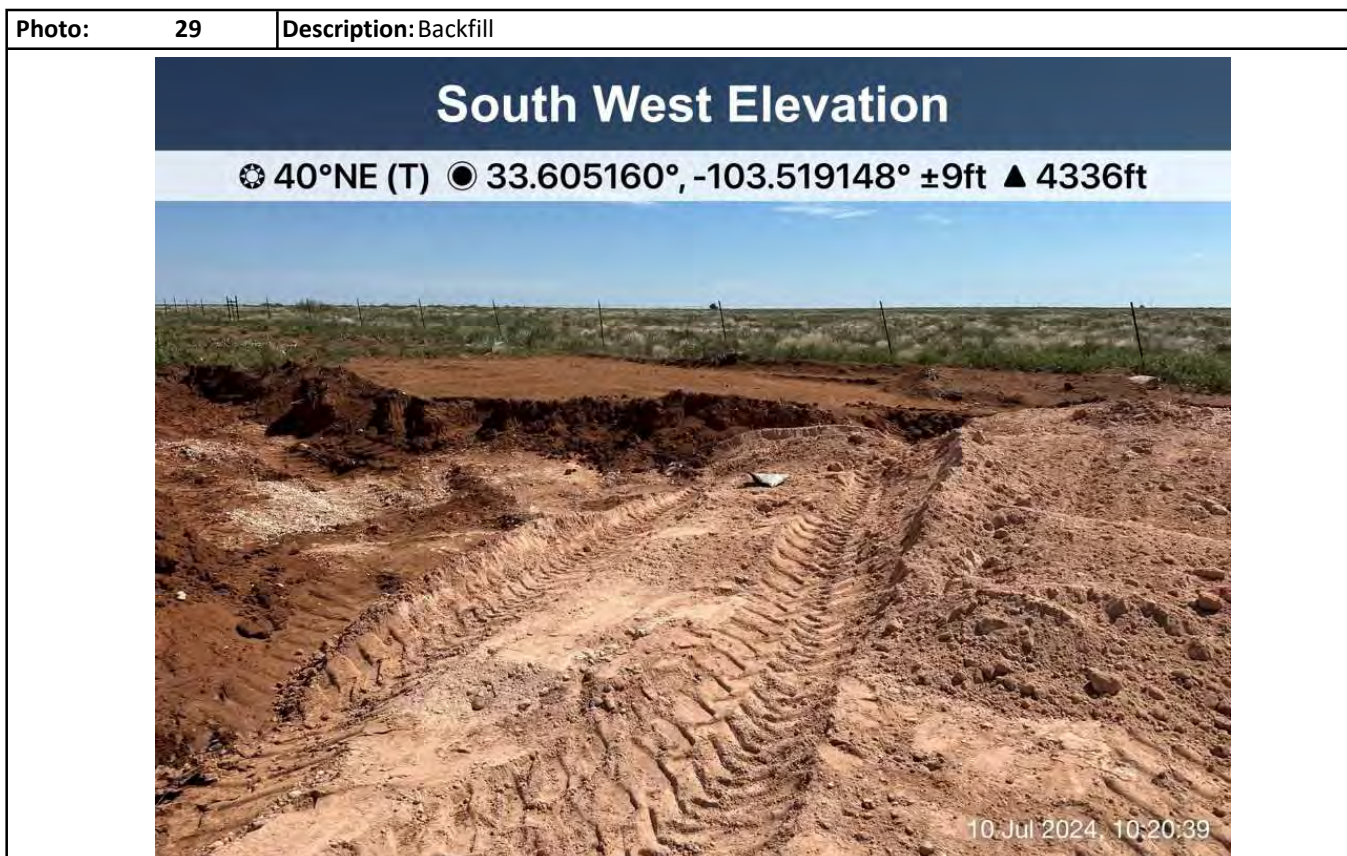


Photographs





## Photographs



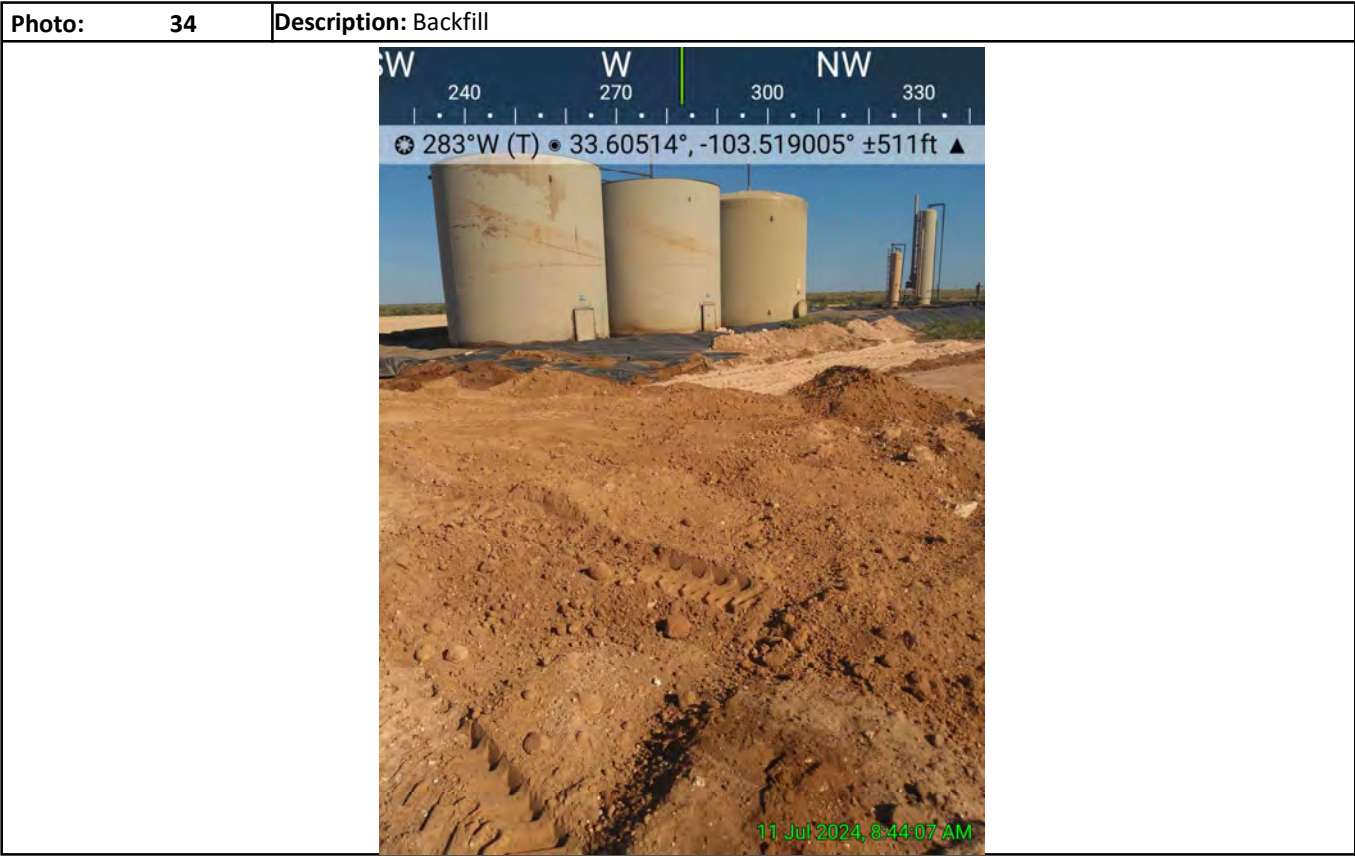
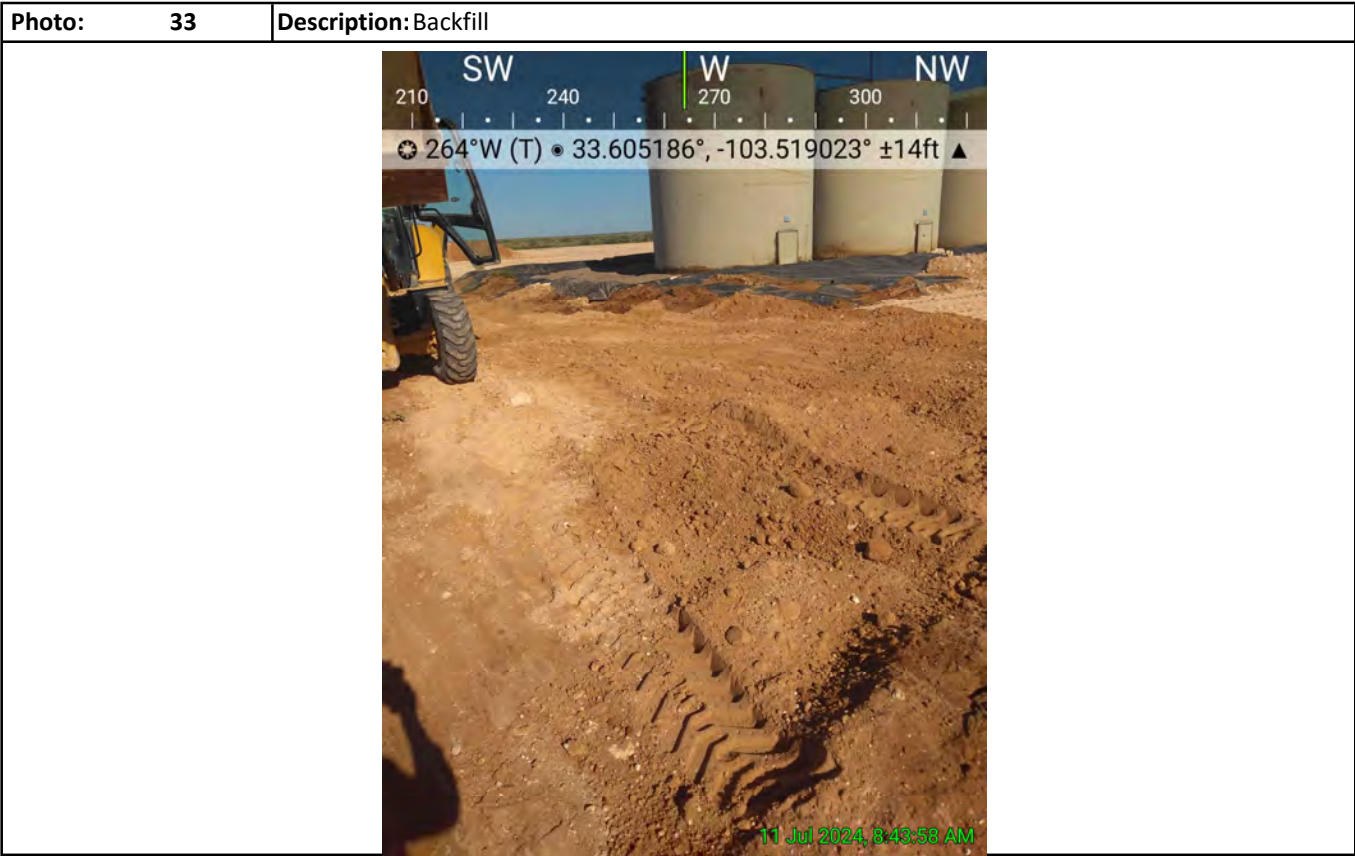


Photographs





Photographs





Photographs



## **Attachment IV**

### **Depth to Groundwater**





New Mexico Office of the State Engineer  
Wells with Well Log Information

No wells found.

UTMNAD83 Radius Search (in meters):

Easting (X): 637341.16      Northing (Y): 3719402.64      Radius: 805

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

7/23/24 4:03 PM      WELLS WITH WELL LOG INFORMATION

## **Attachment V**

### **Liner Inspection Report and Field Data**



## Liner Inspection Form



Client Energex, LLC

Site Name Lucas Fee #1

Lat/Long 33.605541, -103.519656

Release Date 09-Mar-23

Incident Number nAPP2411639976

NMOCD Notified 03-Jun-24

Inspection Date 06-07-2024

Observations	Yes	No	Comments
Is the liner present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is the liner torn?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are there visible holes in the liner?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Is the liner retaining any liquids?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Recent Rainwater left in liner
Does it appear the liner had the ability to contain the leak?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

Type of liner:

Earthen with liner

Earthen no liner

Metal with Poly Lining

Metal with Spray Epoxy Lining

Other: \_\_\_\_\_

Other concerns or observations: \_\_\_\_\_

Inspector Name Jerry Heidelberg

Inspector Signature

A handwritten signature in black ink, appearing to read "Jerry Heidelberg", is written over a horizontal line.

**Hungry Horse, LLC**

Date:

GPS: 33.605541, -103.519656

Sampler: Jerry Heidelberg

**Stockpile = Stockpile #1**





## **Attachment VI**

### **Laboratory Analytical Reports**





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

May 22, 2024

DANIEL DOMINGUEZ

Hungry Horse Environmental

P.O. Box 1058

Hobbs, NM 88240

RE: LUCAS FEE #1

Enclosed are the results of analyses for samples received by the laboratory on 05/16/24 13:25.

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:**

Hungry Horse Environmental  
 DANIEL DOMINGUEZ  
 P.O. Box 1058  
 Hobbs NM, 88240  
 Fax To: (505) 391-4585

Received:	05/16/2024	Sampling Date:	05/16/2024
Reported:	05/22/2024	Sampling Type:	Soil
Project Name:	LUCAS FEE #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	ENERGEX - UL/K SEC 24 T8S - R33E		

**Sample ID: HZ 1 - SURF (H242724-01)**

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	05/18/2024	ND	2.27	114	2.00	6.00	
Toluene*	<0.050	0.050	05/18/2024	ND	2.33	116	2.00	6.78	
Ethylbenzene*	<0.050	0.050	05/18/2024	ND	2.29	114	2.00	7.14	
Total Xylenes*	<0.150	0.150	05/18/2024	ND	6.98	116	6.00	6.21	
Total BTEX	<0.300	0.300	05/18/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	32.0	16.0	05/20/2024	ND	432	108	400	0.00	

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	199	99.3	200	2.12	
DRO >C10-C28*	<10.0	10.0	05/17/2024	ND	182	90.8	200	0.291	
EXT DRO >C28-C36	<10.0	10.0	05/17/2024	ND					

Surrogate: 1-Chlorooctane 92.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

PLEASE 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 client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, 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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

Hungry Horse Environmental  
 DANIEL DOMINGUEZ  
 P.O. Box 1058  
 Hobbs NM, 88240  
 Fax To: (505) 391-4585

Received:	05/16/2024	Sampling Date:	05/16/2024
Reported:	05/22/2024	Sampling Type:	Soil
Project Name:	LUCAS FEE #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	ENERGEX - UL/K SEC 24 T8S - R33E		

**Sample ID: HZ 1 - 1' (H242724-02)**

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	05/18/2024	ND	1.98	98.9	2.00	2.50		
Toluene*	<0.050	0.050	05/18/2024	ND	1.94	96.9	2.00	4.34		
Ethylbenzene*	<0.050	0.050	05/18/2024	ND	1.93	96.3	2.00	1.73		
Total Xylenes*	<0.150	0.150	05/18/2024	ND	6.29	105	6.00	1.59		
Total BTEX	<0.300	0.300	05/18/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	0.00		

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	199	99.3	200	2.12	
DRO >C10-C28*	<10.0	10.0	05/17/2024	ND	182	90.8	200	0.291	
EXT DRO >C28-C36	<10.0	10.0	05/17/2024	ND					

Surrogate: 1-Chlorooctane 87.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.2 % 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:**

Hungry Horse Environmental  
 DANIEL DOMINGUEZ  
 P.O. Box 1058  
 Hobbs NM, 88240  
 Fax To: (505) 391-4585

Received: 05/16/2024  
 Reported: 05/22/2024  
 Project Name: LUCAS FEE #1  
 Project Number: NONE GIVEN  
 Project Location: ENERGEX - UL/K SEC 24 T8S - R33E

Sampling Date: 05/16/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: HZ 2 - SURF (H242724-03)**

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	05/18/2024	ND	1.98	98.9	2.00	2.50		
Toluene*	<0.050	0.050	05/18/2024	ND	1.94	96.9	2.00	4.34		
Ethylbenzene*	<0.050	0.050	05/18/2024	ND	1.93	96.3	2.00	1.73		
Total Xylenes*	<0.150	0.150	05/18/2024	ND	6.29	105	6.00	1.59		
Total BTEx	<0.300	0.300	05/18/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	0.00		

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	199	99.3	200	2.12	
DRO >C10-C28*	<10.0	10.0	05/17/2024	ND	182	90.8	200	0.291	
EXT DRO >C28-C36	<10.0	10.0	05/17/2024	ND					

Surrogate: 1-Chlorooctane 86.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.6 % 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:**

Hungry Horse Environmental  
 DANIEL DOMINGUEZ  
 P.O. Box 1058  
 Hobbs NM, 88240  
 Fax To: (505) 391-4585

Received:	05/16/2024	Sampling Date:	05/16/2024
Reported:	05/22/2024	Sampling Type:	Soil
Project Name:	LUCAS FEE #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	ENERGEX - UL/K SEC 24 T8S - R33E		

**Sample ID: HZ 2 - 1' (H242724-04)**

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	05/18/2024	ND	1.98	98.9	2.00	2.50		
Toluene*	<0.050	0.050	05/18/2024	ND	1.94	96.9	2.00	4.34		
Ethylbenzene*	<0.050	0.050	05/18/2024	ND	1.93	96.3	2.00	1.73		
Total Xylenes*	<0.150	0.150	05/18/2024	ND	6.29	105	6.00	1.59		
Total BTEX	<0.300	0.300	05/18/2024	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	16.0	16.0	05/20/2024	ND	416	104	400	0.00		

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	199	99.3	200	2.12	
DRO >C10-C28*	<10.0	10.0	05/17/2024	ND	182	90.8	200	0.291	
EXT DRO >C28-C36	<10.0	10.0	05/17/2024	ND					

Surrogate: 1-Chlorooctane 104 % 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:**

Hungry Horse Environmental  
 DANIEL DOMINGUEZ  
 P.O. Box 1058  
 Hobbs NM, 88240  
 Fax To: (505) 391-4585

Received:	05/16/2024	Sampling Date:	05/16/2024
Reported:	05/22/2024	Sampling Type:	Soil
Project Name:	LUCAS FEE #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	ENERGEX - UL/K SEC 24 T8S - R33E		

**Sample ID: HZ 3 - SURF (H242724-05)**

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	05/18/2024	ND	1.98	98.9	2.00	2.50		
Toluene*	<0.050	0.050	05/18/2024	ND	1.94	96.9	2.00	4.34		
Ethylbenzene*	<0.050	0.050	05/18/2024	ND	1.93	96.3	2.00	1.73		
Total Xylenes*	<0.150	0.150	05/18/2024	ND	6.29	105	6.00	1.59		
Total BTEx	<0.300	0.300	05/18/2024	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	0.00		

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	199	99.3	200	2.12	
DRO >C10-C28*	<10.0	10.0	05/17/2024	ND	182	90.8	200	0.291	
EXT DRO >C28-C36	<10.0	10.0	05/17/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 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:**

Hungry Horse Environmental  
 DANIEL DOMINGUEZ  
 P.O. Box 1058  
 Hobbs NM, 88240  
 Fax To: (505) 391-4585

Received:	05/16/2024	Sampling Date:	05/16/2024
Reported:	05/22/2024	Sampling Type:	Soil
Project Name:	LUCAS FEE #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	ENERGEX - UL/K SEC 24 T8S - R33E		

**Sample ID: HZ 3 - 1' (H242724-06)**

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	05/18/2024	ND	1.98	98.9	2.00	2.50		
Toluene*	<0.050	0.050	05/18/2024	ND	1.94	96.9	2.00	4.34		
Ethylbenzene*	<0.050	0.050	05/18/2024	ND	1.93	96.3	2.00	1.73		
Total Xylenes*	<0.150	0.150	05/18/2024	ND	6.29	105	6.00	1.59		
Total BTEX	<0.300	0.300	05/18/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 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	<16.0	16.0	05/20/2024	ND	416	104	400	0.00		

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	199	99.3	200	2.12	
DRO >C10-C28*	<10.0	10.0	05/17/2024	ND	182	90.8	200	0.291	
EXT DRO >C28-C36	<10.0	10.0	05/17/2024	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Hungry Horse Environmental  
 DANIEL DOMINGUEZ  
 P.O. Box 1058  
 Hobbs NM, 88240  
 Fax To: (505) 391-4585

Received:	05/16/2024	Sampling Date:	05/16/2024
Reported:	05/22/2024	Sampling Type:	Soil
Project Name:	LUCAS FEE #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	ENERGEX - UL/K SEC 24 T8S - R33E		

**Sample ID: HZ 4 - SURF (H242724-07)**

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	05/18/2024	ND	1.98	98.9	2.00	2.50	
Toluene*	<0.050	0.050	05/18/2024	ND	1.94	96.9	2.00	4.34	
Ethylbenzene*	<0.050	0.050	05/18/2024	ND	1.93	96.3	2.00	1.73	
Total Xylenes*	<0.150	0.150	05/18/2024	ND	6.29	105	6.00	1.59	
Total BTEx	<0.300	0.300	05/18/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	0.00		

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	199	99.3	200	2.12	
DRO >C10-C28*	<10.0	10.0	05/17/2024	ND	182	90.8	200	0.291	
EXT DRO >C28-C36	<10.0	10.0	05/17/2024	ND					

Surrogate: 1-Chlorooctane 102 % 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:**

Hungry Horse Environmental  
 DANIEL DOMINGUEZ  
 P.O. Box 1058  
 Hobbs NM, 88240  
 Fax To: (505) 391-4585

Received:	05/16/2024	Sampling Date:	05/16/2024
Reported:	05/22/2024	Sampling Type:	Soil
Project Name:	LUCAS FEE #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	ENERGEX - UL/K SEC 24 T8S - R33E		

**Sample ID: HZ 4 - 1' (H242724-08)**

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	05/18/2024	ND	1.98	98.9	2.00	2.50		
Toluene*	<0.050	0.050	05/18/2024	ND	1.94	96.9	2.00	4.34		
Ethylbenzene*	<0.050	0.050	05/18/2024	ND	1.93	96.3	2.00	1.73		
Total Xylenes*	<0.150	0.150	05/18/2024	ND	6.29	105	6.00	1.59		
Total BTEx	<0.300	0.300	05/18/2024	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	32.0	16.0	05/20/2024	ND	416	104	400	0.00		

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	199	99.3	200	2.12	
DRO >C10-C28*	<10.0	10.0	05/17/2024	ND	182	90.8	200	0.291	
EXT DRO >C28-C36	<10.0	10.0	05/17/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 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:**

Hungry Horse Environmental  
 DANIEL DOMINGUEZ  
 P.O. Box 1058  
 Hobbs NM, 88240  
 Fax To: (505) 391-4585

Received:	05/16/2024	Sampling Date:	05/16/2024
Reported:	05/22/2024	Sampling Type:	Soil
Project Name:	LUCAS FEE #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	ENERGEX - UL/K SEC 24 T8S - R33E		

**Sample ID: HZ 5 - SURF (H242724-09)**

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	05/18/2024	ND	1.98	98.9	2.00	2.50		
Toluene*	<0.050	0.050	05/18/2024	ND	1.94	96.9	2.00	4.34		
Ethylbenzene*	<0.050	0.050	05/18/2024	ND	1.93	96.3	2.00	1.73		
Total Xylenes*	<0.150	0.150	05/18/2024	ND	6.29	105	6.00	1.59		
Total BTEx	<0.300	0.300	05/18/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	0.00		

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	199	99.3	200	2.12	
DRO >C10-C28*	<10.0	10.0	05/17/2024	ND	182	90.8	200	0.291	
EXT DRO >C28-C36	<10.0	10.0	05/17/2024	ND					

Surrogate: 1-Chlorooctane 102 % 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:**

Hungry Horse Environmental  
 DANIEL DOMINGUEZ  
 P.O. Box 1058  
 Hobbs NM, 88240  
 Fax To: (505) 391-4585

Received:	05/16/2024	Sampling Date:	05/16/2024
Reported:	05/22/2024	Sampling Type:	Soil
Project Name:	LUCAS FEE #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	ENERGEX - UL/K SEC 24 T8S - R33E		

**Sample ID: HZ 5 - 1' (H242724-10)**

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	05/18/2024	ND	1.98	98.9	2.00	2.50		
Toluene*	<0.050	0.050	05/18/2024	ND	1.94	96.9	2.00	4.34		
Ethylbenzene*	<0.050	0.050	05/18/2024	ND	1.93	96.3	2.00	1.73		
Total Xylenes*	<0.150	0.150	05/18/2024	ND	6.29	105	6.00	1.59		
Total BTEx	<0.300	0.300	05/18/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	0.00		

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	199	99.3	200	2.12	
DRO >C10-C28*	<10.0	10.0	05/17/2024	ND	182	90.8	200	0.291	
EXT DRO >C28-C36	<10.0	10.0	05/17/2024	ND					

Surrogate: 1-Chlorooctane 101 % 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:**

Hungry Horse Environmental  
 DANIEL DOMINGUEZ  
 P.O. Box 1058  
 Hobbs NM, 88240  
 Fax To: (505) 391-4585

Received:	05/16/2024	Sampling Date:	05/16/2024
Reported:	05/22/2024	Sampling Type:	Soil
Project Name:	LUCAS FEE #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	ENERGEX - UL/K SEC 24 T8S - R33E		

**Sample ID: SP 1 - SURF (H242724-11)**

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	05/18/2024	ND	1.98	98.9	2.00	2.50		
Toluene*	<0.050	0.050	05/18/2024	ND	1.94	96.9	2.00	4.34		
Ethylbenzene*	<0.050	0.050	05/18/2024	ND	1.93	96.3	2.00	1.73		
Total Xylenes*	<0.150	0.150	05/18/2024	ND	6.29	105	6.00	1.59		
Total BTEx	<0.300	0.300	05/18/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 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	32.0	16.0	05/20/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<100	100	05/20/2024	ND	199	99.3	200	2.12		
DRO >C10-C28*	11400	100	05/20/2024	ND	182	90.8	200	0.291		
EXT DRO >C28-C36	1370	100	05/20/2024	ND						

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 336 % 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:**

Hungry Horse Environmental  
 DANIEL DOMINGUEZ  
 P.O. Box 1058  
 Hobbs NM, 88240  
 Fax To: (505) 391-4585

Received:	05/16/2024	Sampling Date:	05/16/2024
Reported:	05/22/2024	Sampling Type:	Soil
Project Name:	LUCAS FEE #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	ENERGEX - UL/K SEC 24 T8S - R33E		

**Sample ID: SP 1 - 3' (H242724-12)**

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	05/18/2024	ND	1.98	98.9	2.00	2.50		
Toluene*	<0.050	0.050	05/18/2024	ND	1.94	96.9	2.00	4.34		
Ethylbenzene*	<0.050	0.050	05/18/2024	ND	1.93	96.3	2.00	1.73		
Total Xylenes*	<0.150	0.150	05/18/2024	ND	6.29	105	6.00	1.59		
Total BTEX	<0.300	0.300	05/18/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 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	0.00		

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	199	99.3	200	2.12	
DRO >C10-C28*	31.7	10.0	05/17/2024	ND	182	90.8	200	0.291	
EXT DRO >C28-C36	<10.0	10.0	05/17/2024	ND					

Surrogate: 1-Chlorooctane 101 % 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:**

Hungry Horse Environmental  
 DANIEL DOMINGUEZ  
 P.O. Box 1058  
 Hobbs NM, 88240  
 Fax To: (505) 391-4585

Received:	05/16/2024	Sampling Date:	05/16/2024
Reported:	05/22/2024	Sampling Type:	Soil
Project Name:	LUCAS FEE #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	ENERGEX - UL/K SEC 24 T8S - R33E		

**Sample ID: SP 2 - SURF (H242724-13)**

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	05/18/2024	ND	1.98	98.9	2.00	2.50		
Toluene*	<0.050	0.050	05/18/2024	ND	1.94	96.9	2.00	4.34		
Ethylbenzene*	<0.050	0.050	05/18/2024	ND	1.93	96.3	2.00	1.73		
Total Xylenes*	<0.150	0.150	05/18/2024	ND	6.29	105	6.00	1.59		
Total BTEx	<0.300	0.300	05/18/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.2 % 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	0.00		

TPH 8015M		mg/kg		Analyzed By: ms				S-04	
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	199	99.3	200	2.12	
DRO >C10-C28*	6310	10.0	05/17/2024	ND	182	90.8	200	0.291	
EXT DRO >C28-C36	955	10.0	05/17/2024	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 196 % 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:**

Hungry Horse Environmental  
 DANIEL DOMINGUEZ  
 P.O. Box 1058  
 Hobbs NM, 88240  
 Fax To: (505) 391-4585

Received:	05/16/2024	Sampling Date:	05/16/2024
Reported:	05/22/2024	Sampling Type:	Soil
Project Name:	LUCAS FEE #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	ENERGEX - UL/K SEC 24 T8S - R33E		

**Sample ID: SP 2 - 3' (H242724-14)**

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	05/18/2024	ND	1.98	98.9	2.00	2.50		
Toluene*	<0.050	0.050	05/18/2024	ND	1.94	96.9	2.00	4.34		
Ethylbenzene*	<0.050	0.050	05/18/2024	ND	1.93	96.3	2.00	1.73		
Total Xylenes*	<0.150	0.150	05/18/2024	ND	6.29	105	6.00	1.59		
Total BTEX	<0.300	0.300	05/18/2024	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	<16.0	16.0	05/20/2024	ND	416	104	400	0.00		

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	199	99.3	200	2.12	
<b>DRO &gt;C10-C28*</b>	<b>45.9</b>	10.0	05/18/2024	ND	182	90.8	200	0.291	
EXT DRO >C28-C36	<10.0	10.0	05/18/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager




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

Notes and Definitions

- S-06            The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- S-04            The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- 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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\_\_\_\_\_  
Celey D. Keene, Lab Director/Quality Manager

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Hungry Horse LLC		P.O. #:		BILL TO		ANALYSIS REQUEST																					
Project Manager: Daniel Dominguez		Address: 4024 Plains Hwy		City: Lovington		State: NM		Zip: 88260		Company: Energex, LLC		Attn: Marc Lilley		Address: 5325 Sierra Vista		City: Carlsbad		State: NM		Zip: 88230		Phone #: 575-496-2506		Fax #:			
Phone #: 575 393-3386		Fax #:		Project Owner: Energex, LLC		Project Name: Lucas Fee #1		Project Location: U/L K Sec 24 T8S - R33E		Sampler Name: Jerry Heidelberg		FOR LAB USE ONLY		Lab I.D. Sample I.D.		HZ1-Surf		G 1		X		5/16/24		X		X	
Project #:		Project Owner:		City:		State:		Zip:		Company:		Attn:		Address:		City:		State:		Zip:		Phone #:		Fax #:			
Project Name:		Project Location:		Sampler Name:		FOR LAB USE ONLY		Lab I.D. Sample I.D.		HZ1-Surf		G 1		X		5/16/24		X		X		5/16/24		X		X	
Project #:		Project Owner:		City:		State:		Zip:		Company:		Attn:		Address:		City:		State:		Zip:		Phone #:		Fax #:			
Project Name:		Project Location:		Sampler Name:		FOR LAB USE ONLY		Lab I.D. Sample I.D.		HZ1-Surf		G 1		X		5/16/24		X		X		5/16/24		X		X	
Project #:		Project Owner:		City:		State:		Zip:		Company:		Attn:		Address:		City:		State:		Zip:		Phone #:		Fax #:			
Project Name:		Project Location:		Sampler Name:		FOR LAB USE ONLY		Lab I.D. Sample I.D.		HZ1-Surf		G 1		X		5/16/24		X		X		5/16/24		X		X	
Project #:		Project Owner:		City:		State:		Zip:		Company:		Attn:		Address:		City:		State:		Zip:		Phone #:		Fax #:			
Project Name:		Project Location:		Sampler Name:		FOR LAB USE ONLY		Lab I.D. Sample I.D.		HZ1-Surf		G 1		X		5/16/24		X		X		5/16/24		X		X	
Project #:		Project Owner:		City:		State:		Zip:		Company:		Attn:		Address:		City:		State:		Zip:		Phone #:		Fax #:			
Project Name:		Project Location:		Sampler Name:		FOR LAB USE ONLY		Lab I.D. Sample I.D.		HZ1-Surf		G 1		X		5/16/24		X		X		5/16/24		X		X	
Project #:		Project Owner:		City:		State:		Zip:		Company:		Attn:		Address:		City:		State:		Zip:		Phone #:		Fax #:			
Project Name:		Project Location:		Sampler Name:		FOR LAB USE ONLY		Lab I.D. Sample I.D.		HZ1-Surf		G 1		X		5/16/24		X		X		5/16/24		X		X	
Project #:		Project Owner:		City:		State:		Zip:		Company:		Attn:		Address:		City:		State:		Zip:		Phone #:		Fax #:			
Project Name:		Project Location:		Sampler Name:		FOR LAB USE ONLY		Lab I.D. Sample I.D.		HZ1-Surf		G 1		X		5/16/24		X		X		5/16/24		X		X	
Project #:		Project Owner:		City:		State:		Zip:		Company:		Attn:		Address:		City:		State:		Zip:		Phone #:		Fax #:			
Project Name:		Project Location:		Sampler Name:		FOR LAB USE ONLY		Lab I.D. Sample I.D.		HZ1-Surf		G 1		X		5/16/24		X		X		5/16/24		X		X	
Project #:		Project Owner:		City:		State:		Zip:		Company:		Attn:		Address:		City:		State:		Zip:		Phone #:		Fax #:			
Project Name:		Project Location:		Sampler Name:		FOR LAB USE ONLY		Lab I.D. Sample I.D.		HZ1-Surf		G 1		X		5/16/24		X		X		5/16/24		X		X	
Project #:		Project Owner:		City:		State:		Zip:		Company:		Attn:		Address:		City:		State:		Zip:		Phone #:		Fax #:			
Project Name:		Project Location:		Sampler Name:		FOR LAB USE ONLY		Lab I.D. Sample I.D.		HZ1-Surf		G 1		X		5/16/24		X		X		5/16/24		X		X	
Project #:		Project Owner:		City:		State:		Zip:		Company:		Attn:		Address:		City:		State:		Zip:		Phone #:		Fax #:			
Project Name:		Project Location:		Sampler Name:		FOR LAB USE ONLY		Lab I.D. Sample I.D.		HZ1-Surf		G 1		X		5/16/24		X		X		5/16/24		X		X	
Project #:		Project Owner:		City:		State:		Zip:		Company:		Attn:		Address:		City:		State:		Zip:		Phone #:		Fax #:			
Project Name:		Project Location:		Sampler Name:		FOR LAB USE ONLY		Lab I.D. Sample I.D.		HZ1-Surf		G 1		X		5/16/24		X		X		5/16/24		X		X	
Project #:		Project Owner:		City:		State:		Zip:		Company:		Attn:															





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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:	Hungry Horse LLC	P.O. #:		BILL TO		ANALYSIS REQUEST									
Project Manager:	Daniel Dominguez	Company:		EnergeX, LLC											

Address:	4024 Plains Hwy	City:		State:	Zip:	Attn:												
City:	Livingston	State:		NM	Zip:	88260	Attn:	Marc Lilley										

Phone #:	575 393-3386	Fax #:		Address:																
Project #:		Project Owner:		EnergeX, LLC		City:		Carlsbad	State:		NM	Zip:	88230							

Project Name:	Lucas Fee #1	Project Location:		UL/K Sec 24 T8S - R33E		Phone #:		575-496-2506	Fax #:											
Sampler Name:	Jerry Heidelberg																			

FOR LAB USE ONLY											
Lab I.D.											
Sample I.D.											

	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					DATE	TIME	Chloride	TPH	BTEX 8021										
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE															
SP1-Surf	G	1	X					5/16/24		X	X	X										
SP1-3'	G	1	X					5/16/24		X	X	X										
SP2-Surf	G	1	X					5/16/24		X	X	X										
SP2-3'	G	1	X					5/16/24		X	X	X										

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Reinquinshed By:	Date:	5/16/24	Received By:	ADP	Phone Result:	<input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:	
Reinquinshed By:	Date:	5/18/25	Received By:	ADP	Fax Result:	<input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:	

Delivered By: (Circle One)	1-1-C	Sample Condition	CHECKED BY: (Initials)	ADP
Sampler - UPS - Bus - Other:	#110	Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>		
Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476				



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

---

July 08, 2024

DANIEL DOMINGUEZ

Hungry Horse Environmental

P.O. Box 1058

Hobbs, NM 88240

RE: LUCAS FEE #1

Enclosed are the results of analyses for samples received by the laboratory on 07/01/24 15:00.

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 written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

Hungry Horse Environmental  
 DANIEL DOMINGUEZ  
 P.O. Box 1058  
 Hobbs NM, 88240  
 Fax To: (505) 391-4585

Received:	07/01/2024	Sampling Date:	07/01/2024
Reported:	07/08/2024	Sampling Type:	Soil
Project Name:	LUCAS FEE #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	ENERGEX - UL/K SEC 24 T8S - R33E		

**Sample ID: FL 1 - 3' (H243938-01)**

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	07/05/2024	ND	2.01	101	2.00	4.06	
Toluene*	<0.050	0.050	07/05/2024	ND	2.00	100	2.00	4.49	
Ethylbenzene*	<0.050	0.050	07/05/2024	ND	2.04	102	2.00	5.29	
Total Xylenes*	<0.150	0.150	07/05/2024	ND	6.00	100	6.00	5.30	
Total BTX	<0.300	0.300	07/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 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	07/05/2024	ND	416	104	400	10.9	

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	07/05/2024	ND	216	108	200	0.356	
DRO >C10-C28*	<10.0	10.0	07/05/2024	ND	216	108	200	0.866	
EXT DRO >C28-C36	<10.0	10.0	07/05/2024	ND					

Surrogate: 1-Chlorooctane 99.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 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:**

Hungry Horse Environmental  
 DANIEL DOMINGUEZ  
 P.O. Box 1058  
 Hobbs NM, 88240  
 Fax To: (505) 391-4585

Received: 07/01/2024  
 Reported: 07/08/2024  
 Project Name: LUCAS FEE #1  
 Project Number: NONE GIVEN  
 Project Location: ENERGEX - UL/K SEC 24 T8S - R33E

Sampling Date: 07/01/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 2 - 3' (H243938-02)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/05/2024	ND	2.01	101	2.00	4.06	
Toluene*	<0.050	0.050	07/05/2024	ND	2.00	100	2.00	4.49	
Ethylbenzene*	<0.050	0.050	07/05/2024	ND	2.04	102	2.00	5.29	
Total Xylenes*	<0.150	0.150	07/05/2024	ND	6.00	100	6.00	5.30	
Total BTEx	<0.300	0.300	07/05/2024	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	16.0	16.0	07/05/2024	ND	416	104	400	10.9		

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	07/05/2024	ND	216	108	200	0.356	
DRO >C10-C28*	<10.0	10.0	07/05/2024	ND	216	108	200	0.866	
EXT DRO >C28-C36	<10.0	10.0	07/05/2024	ND					

Surrogate: 1-Chlorooctane 99.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Hungry Horse Environmental  
 DANIEL DOMINGUEZ  
 P.O. Box 1058  
 Hobbs NM, 88240  
 Fax To: (505) 391-4585

Received: 07/01/2024  
 Reported: 07/08/2024  
 Project Name: LUCAS FEE #1  
 Project Number: NONE GIVEN  
 Project Location: ENERGEX - UL/K SEC 24 T8S - R33E

Sampling Date: 07/01/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 3 - 3' (H243938-03)**

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	07/05/2024	ND	2.01	101	2.00	4.06	
Toluene*	<0.050	0.050	07/05/2024	ND	2.00	100	2.00	4.49	
Ethylbenzene*	<0.050	0.050	07/05/2024	ND	2.04	102	2.00	5.29	
Total Xylenes*	<0.150	0.150	07/05/2024	ND	6.00	100	6.00	5.30	
Total BTEx	<0.300	0.300	07/05/2024	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	16.0	16.0	07/05/2024	ND	416	104	400	10.9		

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	07/05/2024	ND	216	108	200	0.356	
DRO >C10-C28*	71.1	10.0	07/05/2024	ND	216	108	200	0.866	
EXT DRO >C28-C36	14.7	10.0	07/05/2024	ND					

Surrogate: 1-Chlorooctane 98.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Hungry Horse Environmental  
 DANIEL DOMINGUEZ  
 P.O. Box 1058  
 Hobbs NM, 88240  
 Fax To: (505) 391-4585

Received: 07/01/2024  
 Reported: 07/08/2024  
 Project Name: LUCAS FEE #1  
 Project Number: NONE GIVEN  
 Project Location: ENERGEX - UL/K SEC 24 T8S - R33E

Sampling Date: 07/01/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 4 - 3' (H243938-04)**

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	07/05/2024	ND	2.01	101	2.00	4.06		
Toluene*	<0.050	0.050	07/05/2024	ND	2.00	100	2.00	4.49		
Ethylbenzene*	<0.050	0.050	07/05/2024	ND	2.04	102	2.00	5.29		
Total Xylenes*	<0.150	0.150	07/05/2024	ND	6.00	100	6.00	5.30		
Total BTEX	<0.300	0.300	07/05/2024	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	16.0	16.0	07/05/2024	ND	416	104	400	10.9		

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	07/05/2024	ND	216	108	200	0.356	
DRO >C10-C28*	<10.0	10.0	07/05/2024	ND	216	108	200	0.866	
EXT DRO >C28-C36	<10.0	10.0	07/05/2024	ND					

Surrogate: 1-Chlorooctane 97.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.6 % 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:**

Hungry Horse Environmental  
 DANIEL DOMINGUEZ  
 P.O. Box 1058  
 Hobbs NM, 88240  
 Fax To: (505) 391-4585

Received: 07/01/2024  
 Reported: 07/08/2024  
 Project Name: LUCAS FEE #1  
 Project Number: NONE GIVEN  
 Project Location: ENERGEX - UL/K SEC 24 T8S - R33E

Sampling Date: 07/01/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 5 - 3' (H243938-05)**

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	07/05/2024	ND	2.01	101	2.00	4.06		
Toluene*	<0.050	0.050	07/05/2024	ND	2.00	100	2.00	4.49		
Ethylbenzene*	<0.050	0.050	07/05/2024	ND	2.04	102	2.00	5.29		
Total Xylenes*	<0.150	0.150	07/05/2024	ND	6.00	100	6.00	5.30		
Total BTEX	<0.300	0.300	07/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 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	07/05/2024	ND	416	104	400	10.9		

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	07/05/2024	ND	216	108	200	0.356	
DRO >C10-C28*	<10.0	10.0	07/05/2024	ND	216	108	200	0.866	
EXT DRO >C28-C36	<10.0	10.0	07/05/2024	ND					

Surrogate: 1-Chlorooctane 87.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Hungry Horse Environmental  
 DANIEL DOMINGUEZ  
 P.O. Box 1058  
 Hobbs NM, 88240  
 Fax To: (505) 391-4585

Received: 07/01/2024  
 Reported: 07/08/2024  
 Project Name: LUCAS FEE #1  
 Project Number: NONE GIVEN  
 Project Location: ENERGEX - UL/K SEC 24 T8S - R33E

Sampling Date: 07/01/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 6 - 3' (H243938-06)**

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	07/05/2024	ND	2.01	101	2.00	4.06		
Toluene*	<0.050	0.050	07/05/2024	ND	2.00	100	2.00	4.49		
Ethylbenzene*	<0.050	0.050	07/05/2024	ND	2.04	102	2.00	5.29		
Total Xylenes*	<0.150	0.150	07/05/2024	ND	6.00	100	6.00	5.30		
Total BTEX	<0.300	0.300	07/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 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	07/05/2024	ND	416	104	400	10.9		

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	07/05/2024	ND	216	108	200	0.356	
DRO >C10-C28*	<10.0	10.0	07/05/2024	ND	216	108	200	0.866	
EXT DRO >C28-C36	<10.0	10.0	07/05/2024	ND					

Surrogate: 1-Chlorooctane 92.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.2 % 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:**

Hungry Horse Environmental  
 DANIEL DOMINGUEZ  
 P.O. Box 1058  
 Hobbs NM, 88240  
 Fax To: (505) 391-4585

Received: 07/01/2024  
 Reported: 07/08/2024  
 Project Name: LUCAS FEE #1  
 Project Number: NONE GIVEN  
 Project Location: ENERGEX - UL/K SEC 24 T8S - R33E

Sampling Date: 07/01/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 7 - 3' (H243938-07)**

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	07/05/2024	ND	1.98	99.2	2.00	0.473		
Toluene*	<0.050	0.050	07/05/2024	ND	2.16	108	2.00	1.61		
Ethylbenzene*	<0.050	0.050	07/05/2024	ND	2.17	109	2.00	2.68		
Total Xylenes*	<0.150	0.150	07/05/2024	ND	6.70	112	6.00	1.48		
Total BTEX	<0.300	0.300	07/05/2024	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	<16.0	16.0	07/05/2024	ND	416	104	400	10.9		

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	07/05/2024	ND	216	108	200	0.356	
DRO >C10-C28*	<10.0	10.0	07/05/2024	ND	216	108	200	0.866	
EXT DRO >C28-C36	<10.0	10.0	07/05/2024	ND					

Surrogate: 1-Chlorooctane 94.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

Hungry Horse Environmental  
 DANIEL DOMINGUEZ  
 P.O. Box 1058  
 Hobbs NM, 88240  
 Fax To: (505) 391-4585

Received: 07/01/2024  
 Reported: 07/08/2024  
 Project Name: LUCAS FEE #1  
 Project Number: NONE GIVEN  
 Project Location: ENERGEX - UL/K SEC 24 T8S - R33E

Sampling Date: 07/01/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 8 - 3' (H243938-08)**

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	07/05/2024	ND	1.98	99.2	2.00	0.473		
Toluene*	<0.050	0.050	07/05/2024	ND	2.16	108	2.00	1.61		
Ethylbenzene*	<0.050	0.050	07/05/2024	ND	2.17	109	2.00	2.68		
Total Xylenes*	<0.150	0.150	07/05/2024	ND	6.70	112	6.00	1.48		
Total BTEX	<0.300	0.300	07/05/2024	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	<16.0	16.0	07/05/2024	ND	416	104	400	10.9		

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	07/05/2024	ND	216	108	200	0.356	
DRO >C10-C28*	<10.0	10.0	07/05/2024	ND	216	108	200	0.866	
EXT DRO >C28-C36	<10.0	10.0	07/05/2024	ND					

Surrogate: 1-Chlorooctane 92.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Hungry Horse Environmental  
 DANIEL DOMINGUEZ  
 P.O. Box 1058  
 Hobbs NM, 88240  
 Fax To: (505) 391-4585

Received: 07/01/2024  
 Reported: 07/08/2024  
 Project Name: LUCAS FEE #1  
 Project Number: NONE GIVEN  
 Project Location: ENERGEX - UL/K SEC 24 T8S - R33E

Sampling Date: 07/01/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 9 - 3' (H243938-09)**

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	07/05/2024	ND	1.98	99.2	2.00	0.473		
Toluene*	<0.050	0.050	07/05/2024	ND	2.16	108	2.00	1.61		
Ethylbenzene*	<0.050	0.050	07/05/2024	ND	2.17	109	2.00	2.68		
Total Xylenes*	<0.150	0.150	07/05/2024	ND	6.70	112	6.00	1.48		
Total BTEX	<0.300	0.300	07/05/2024	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	<16.0	16.0	07/05/2024	ND	416	104	400	10.9		

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	07/05/2024	ND	216	108	200	0.356	
<b>DRO &gt;C10-C28*</b>	<b>17.8</b>	10.0	07/05/2024	ND	216	108	200	0.866	
EXT DRO >C28-C36	<10.0	10.0	07/05/2024	ND					

Surrogate: 1-Chlorooctane 94.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.1 % 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:**

Hungry Horse Environmental  
 DANIEL DOMINGUEZ  
 P.O. Box 1058  
 Hobbs NM, 88240  
 Fax To: (505) 391-4585

Received: 07/01/2024  
 Reported: 07/08/2024  
 Project Name: LUCAS FEE #1  
 Project Number: NONE GIVEN  
 Project Location: ENERGEX - UL/K SEC 24 T8S - R33E

Sampling Date: 07/01/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW 1 (H243938-10)**

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	07/05/2024	ND	1.98	99.2	2.00	0.473		
Toluene*	<0.050	0.050	07/05/2024	ND	2.16	108	2.00	1.61		
Ethylbenzene*	<0.050	0.050	07/05/2024	ND	2.17	109	2.00	2.68		
Total Xylenes*	<0.150	0.150	07/05/2024	ND	6.70	112	6.00	1.48		
Total BTEX	<0.300	0.300	07/05/2024	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	<16.0	16.0	07/05/2024	ND	416	104	400	10.9		

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	07/05/2024	ND	216	108	200	0.356	
DRO >C10-C28*	<10.0	10.0	07/05/2024	ND	216	108	200	0.866	
EXT DRO >C28-C36	<10.0	10.0	07/05/2024	ND					

Surrogate: 1-Chlorooctane 93.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.2 % 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:**

Hungry Horse Environmental  
 DANIEL DOMINGUEZ  
 P.O. Box 1058  
 Hobbs NM, 88240  
 Fax To: (505) 391-4585

Received: 07/01/2024  
 Reported: 07/08/2024  
 Project Name: LUCAS FEE #1  
 Project Number: NONE GIVEN  
 Project Location: ENERGEX - UL/K SEC 24 T8S - R33E

Sampling Date: 07/01/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW 2 (H243938-11)**

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	07/05/2024	ND	1.98	99.2	2.00	0.473		
Toluene*	<0.050	0.050	07/05/2024	ND	2.16	108	2.00	1.61		
Ethylbenzene*	<0.050	0.050	07/05/2024	ND	2.17	109	2.00	2.68		
Total Xylenes*	<0.150	0.150	07/05/2024	ND	6.70	112	6.00	1.48		
Total BTEX	<0.300	0.300	07/05/2024	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	16.0	16.0	07/05/2024	ND	416	104	400	10.9		

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	07/05/2024	ND	216	108	200	0.356	
DRO >C10-C28*	13.4	10.0	07/05/2024	ND	216	108	200	0.866	
EXT DRO >C28-C36	<10.0	10.0	07/05/2024	ND					

Surrogate: 1-Chlorooctane 93.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.6 % 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:**

Hungry Horse Environmental  
 DANIEL DOMINGUEZ  
 P.O. Box 1058  
 Hobbs NM, 88240  
 Fax To: (505) 391-4585

Received: 07/01/2024  
 Reported: 07/08/2024  
 Project Name: LUCAS FEE #1  
 Project Number: NONE GIVEN  
 Project Location: ENERGEX - UL/K SEC 24 T8S - R33E

Sampling Date: 07/01/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW 3 (H243938-12)**

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	07/05/2024	ND	1.98	99.2	2.00	0.473		
Toluene*	<0.050	0.050	07/05/2024	ND	2.16	108	2.00	1.61		
Ethylbenzene*	<0.050	0.050	07/05/2024	ND	2.17	109	2.00	2.68		
Total Xylenes*	<0.150	0.150	07/05/2024	ND	6.70	112	6.00	1.48		
Total BTEX	<0.300	0.300	07/05/2024	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	<16.0	16.0	07/05/2024	ND	416	104	400	10.9		

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	07/05/2024	ND	206	103	200	3.39	
<b>DRO &gt;C10-C28*</b>	<b>10.5</b>	10.0	07/05/2024	ND	183	91.3	200	0.524	
EXT DRO >C28-C36	<10.0	10.0	07/05/2024	ND					

Surrogate: 1-Chlorooctane 81.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

- S-04            The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- 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

[illegible]





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

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

July 09, 2024

DANIEL DOMINGUEZ

Hungry Horse Environmental

P.O. Box 1058

Hobbs, NM 88240

RE: LUCAS FEE #1

Enclosed are the results of analyses for samples received by the laboratory on 07/01/24 15:00.

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 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:**

Hungry Horse Environmental  
 DANIEL DOMINGUEZ  
 P.O. Box 1058  
 Hobbs NM, 88240  
 Fax To: (505) 391-4585

Received:	07/01/2024	Sampling Date:	07/01/2024
Reported:	07/09/2024	Sampling Type:	Soil
Project Name:	LUCAS FEE #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	ENERGEX - UL/K SEC 24 T8S - R33E		

**Sample ID: OS 1 - SURF (H243939-01)**

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	07/05/2024	ND	1.98	99.2	2.00	0.473	
Toluene*	<0.050	0.050	07/05/2024	ND	2.16	108	2.00	1.61	
Ethylbenzene*	<0.050	0.050	07/05/2024	ND	2.17	109	2.00	2.68	
Total Xylenes*	<0.150	0.150	07/05/2024	ND	6.70	112	6.00	1.48	
Total BTX	<0.300	0.300	07/05/2024	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	16.0	16.0	07/05/2024	ND	416	104	400	10.9	

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	07/05/2024	ND	206	103	200	3.39	
DRO >C10-C28*	<10.0	10.0	07/05/2024	ND	183	91.3	200	0.524	
EXT DRO >C28-C36	<10.0	10.0	07/05/2024	ND					

Surrogate: 1-Chlorooctane 78.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.0 % 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:**

Hungry Horse Environmental  
 DANIEL DOMINGUEZ  
 P.O. Box 1058  
 Hobbs NM, 88240  
 Fax To: (505) 391-4585

Received: 07/01/2024  
 Reported: 07/09/2024  
 Project Name: LUCAS FEE #1  
 Project Number: NONE GIVEN  
 Project Location: ENERGEX - UL/K SEC 24 T8S - R33E

Sampling Date: 07/01/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: OS 2 - SURF (H243939-02)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/05/2024	ND	1.98	99.2	2.00	0.473		
Toluene*	<0.050	0.050	07/05/2024	ND	2.16	108	2.00	1.61		
Ethylbenzene*	<0.050	0.050	07/05/2024	ND	2.17	109	2.00	2.68		
Total Xylenes*	<0.150	0.150	07/05/2024	ND	6.70	112	6.00	1.48		
Total BTEX	<0.300	0.300	07/05/2024	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	<16.0	16.0	07/05/2024	ND	416	104	400	10.9		

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	07/05/2024	ND	206	103	200	3.39	
DRO >C10-C28*	<10.0	10.0	07/05/2024	ND	183	91.3	200	0.524	
EXT DRO >C28-C36	<10.0	10.0	07/05/2024	ND					

Surrogate: 1-Chlorooctane 84.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.6 % 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:**

Hungry Horse Environmental  
 DANIEL DOMINGUEZ  
 P.O. Box 1058  
 Hobbs NM, 88240  
 Fax To: (505) 391-4585

Received: 07/01/2024  
 Reported: 07/09/2024  
 Project Name: LUCAS FEE #1  
 Project Number: NONE GIVEN  
 Project Location: ENERGEX - UL/K SEC 24 T8S - R33E

Sampling Date: 07/01/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: OS 3 - SURF (H243939-03)**

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	07/05/2024	ND	1.98	99.2	2.00	0.473		
Toluene*	<0.050	0.050	07/05/2024	ND	2.16	108	2.00	1.61		
Ethylbenzene*	<0.050	0.050	07/05/2024	ND	2.17	109	2.00	2.68		
Total Xylenes*	<0.150	0.150	07/05/2024	ND	6.70	112	6.00	1.48		
Total BTEx	<0.300	0.300	07/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	07/05/2024	ND	416	104	400	10.9		

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	07/05/2024	ND	206	103	200	3.39	
DRO >C10-C28*	<10.0	10.0	07/05/2024	ND	183	91.3	200	0.524	
EXT DRO >C28-C36	<10.0	10.0	07/05/2024	ND					

Surrogate: 1-Chlorooctane 72.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.1 % 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:**

Hungry Horse Environmental  
 DANIEL DOMINGUEZ  
 P.O. Box 1058  
 Hobbs NM, 88240  
 Fax To: (505) 391-4585

Received: 07/01/2024  
 Reported: 07/09/2024  
 Project Name: LUCAS FEE #1  
 Project Number: NONE GIVEN  
 Project Location: ENERGEX - UL/K SEC 24 T8S - R33E

Sampling Date: 07/01/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: OS 4 - SURF (H243939-04)**

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	07/05/2024	ND	1.98	99.2	2.00	0.473		
Toluene*	<0.050	0.050	07/05/2024	ND	2.16	108	2.00	1.61		
Ethylbenzene*	<0.050	0.050	07/05/2024	ND	2.17	109	2.00	2.68		
Total Xylenes*	<0.150	0.150	07/05/2024	ND	6.70	112	6.00	1.48		
Total BTEX	<0.300	0.300	07/05/2024	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	<16.0	16.0	07/05/2024	ND	416	104	400	10.9		

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	07/05/2024	ND	206	103	200	3.39	
DRO >C10-C28*	<10.0	10.0	07/05/2024	ND	183	91.3	200	0.524	
EXT DRO >C28-C36	<10.0	10.0	07/05/2024	ND					

Surrogate: 1-Chlorooctane 76.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Hungry Horse Environmental  
 DANIEL DOMINGUEZ  
 P.O. Box 1058  
 Hobbs NM, 88240  
 Fax To: (505) 391-4585

Received: 07/01/2024  
 Reported: 07/09/2024  
 Project Name: LUCAS FEE #1  
 Project Number: NONE GIVEN  
 Project Location: ENERGEX - UL/K SEC 24 T8S - R33E

Sampling Date: 07/01/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: OS 5 - SURF (H243939-05)**

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	07/05/2024	ND	1.98	99.2	2.00	0.473		
Toluene*	<0.050	0.050	07/05/2024	ND	2.16	108	2.00	1.61		
Ethylbenzene*	<0.050	0.050	07/05/2024	ND	2.17	109	2.00	2.68		
Total Xylenes*	<0.150	0.150	07/05/2024	ND	6.70	112	6.00	1.48		
Total BTEX	<0.300	0.300	07/05/2024	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	16.0	16.0	07/05/2024	ND	416	104	400	10.9		

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	07/05/2024	ND	206	103	200	3.39	
DRO >C10-C28*	<10.0	10.0	07/05/2024	ND	183	91.3	200	0.524	
EXT DRO >C28-C36	<10.0	10.0	07/05/2024	ND					

Surrogate: 1-Chlorooctane 75.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.8 % 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:**

Hungry Horse Environmental  
 DANIEL DOMINGUEZ  
 P.O. Box 1058  
 Hobbs NM, 88240  
 Fax To: (505) 391-4585

Received: 07/01/2024  
 Reported: 07/09/2024  
 Project Name: LUCAS FEE #1  
 Project Number: NONE GIVEN  
 Project Location: ENERGEX - UL/K SEC 24 T8S - R33E

Sampling Date: 07/01/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: OS 6 - SURF (H243939-06)**

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	07/05/2024	ND	1.98	99.2	2.00	0.473		
Toluene*	<0.050	0.050	07/05/2024	ND	2.16	108	2.00	1.61		
Ethylbenzene*	<0.050	0.050	07/05/2024	ND	2.17	109	2.00	2.68		
Total Xylenes*	<0.150	0.150	07/05/2024	ND	6.70	112	6.00	1.48		
Total BTEX	<0.300	0.300	07/05/2024	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	16.0	16.0	07/05/2024	ND	416	104	400	10.9		

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	07/05/2024	ND	206	103	200	3.39	
DRO >C10-C28*	<10.0	10.0	07/05/2024	ND	183	91.3	200	0.524	
EXT DRO >C28-C36	<10.0	10.0	07/05/2024	ND					

Surrogate: 1-Chlorooctane 80.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

Hungry Horse Environmental  
 DANIEL DOMINGUEZ  
 P.O. Box 1058  
 Hobbs NM, 88240  
 Fax To: (505) 391-4585

Received: 07/01/2024  
 Reported: 07/09/2024  
 Project Name: LUCAS FEE #1  
 Project Number: NONE GIVEN  
 Project Location: ENERGEX - UL/K SEC 24 T8S - R33E

Sampling Date: 07/01/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: OS 7 - SURF (H243939-07)**

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	07/05/2024	ND	1.98	99.2	2.00	0.473		
Toluene*	<0.050	0.050	07/05/2024	ND	2.16	108	2.00	1.61		
Ethylbenzene*	<0.050	0.050	07/05/2024	ND	2.17	109	2.00	2.68		
Total Xylenes*	<0.150	0.150	07/05/2024	ND	6.70	112	6.00	1.48		
Total BTEX	<0.300	0.300	07/05/2024	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	<16.0	16.0	07/05/2024	ND	416	104	400	10.9		

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	07/05/2024	ND	206	103	200	3.39	
DRO >C10-C28*	<10.0	10.0	07/05/2024	ND	183	91.3	200	0.524	
EXT DRO >C28-C36	<10.0	10.0	07/05/2024	ND					

Surrogate: 1-Chlorooctane 78.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.3 % 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:**

Hungry Horse Environmental  
 DANIEL DOMINGUEZ  
 P.O. Box 1058  
 Hobbs NM, 88240  
 Fax To: (505) 391-4585

Received: 07/01/2024  
 Reported: 07/09/2024  
 Project Name: LUCAS FEE #1  
 Project Number: NONE GIVEN  
 Project Location: ENERGEX - UL/K SEC 24 T8S - R33E

Sampling Date: 07/01/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: OS 8 - SURF (H243939-08)**

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	07/05/2024	ND	1.98	99.2	2.00	0.473		
Toluene*	<0.050	0.050	07/05/2024	ND	2.16	108	2.00	1.61		
Ethylbenzene*	<0.050	0.050	07/05/2024	ND	2.17	109	2.00	2.68		
Total Xylenes*	<0.150	0.150	07/05/2024	ND	6.70	112	6.00	1.48		
Total BTEX	<0.300	0.300	07/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	16.0	16.0	07/05/2024	ND	400	100	400	0.00		

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	07/05/2024	ND	206	103	200	3.39	
DRO >C10-C28*	<10.0	10.0	07/05/2024	ND	183	91.3	200	0.524	
EXT DRO >C28-C36	<10.0	10.0	07/05/2024	ND					

Surrogate: 1-Chlorooctane 81.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Hungry Horse Environmental  
 DANIEL DOMINGUEZ  
 P.O. Box 1058  
 Hobbs NM, 88240  
 Fax To: (505) 391-4585

Received: 07/01/2024  
 Reported: 07/09/2024  
 Project Name: LUCAS FEE #1  
 Project Number: NONE GIVEN  
 Project Location: ENERGEX - UL/K SEC 24 T8S - R33E

Sampling Date: 07/01/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: OS 9 - SURF (H243939-09)**

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	07/05/2024	ND	1.98	99.2	2.00	0.473		
Toluene*	<0.050	0.050	07/05/2024	ND	2.16	108	2.00	1.61		
Ethylbenzene*	<0.050	0.050	07/05/2024	ND	2.17	109	2.00	2.68		
Total Xylenes*	<0.150	0.150	07/05/2024	ND	6.70	112	6.00	1.48		
Total BTEX	<0.300	0.300	07/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	<16.0	16.0	07/05/2024	ND	400	100	400	0.00		

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	07/05/2024	ND	206	103	200	3.39	
DRO >C10-C28*	<10.0	10.0	07/05/2024	ND	183	91.3	200	0.524	
EXT DRO >C28-C36	<10.0	10.0	07/05/2024	ND					

Surrogate: 1-Chlorooctane 80.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

Hungry Horse Environmental  
 DANIEL DOMINGUEZ  
 P.O. Box 1058  
 Hobbs NM, 88240  
 Fax To: (505) 391-4585

Received: 07/01/2024  
 Reported: 07/09/2024  
 Project Name: LUCAS FEE #1  
 Project Number: NONE GIVEN  
 Project Location: ENERGEX - UL/K SEC 24 T8S - R33E

Sampling Date: 07/01/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: OS 10 - SURF (H243939-10)**

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	07/05/2024	ND	1.98	99.2	2.00	0.473		
Toluene*	<0.050	0.050	07/05/2024	ND	2.16	108	2.00	1.61		
Ethylbenzene*	<0.050	0.050	07/05/2024	ND	2.17	109	2.00	2.68		
Total Xylenes*	<0.150	0.150	07/05/2024	ND	6.70	112	6.00	1.48		
Total BTEX	<0.300	0.300	07/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	<16.0	16.0	07/05/2024	ND	400	100	400	0.00		

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	07/05/2024	ND	206	103	200	3.39	
DRO >C10-C28*	<10.0	10.0	07/05/2024	ND	183	91.3	200	0.524	
EXT DRO >C28-C36	<10.0	10.0	07/05/2024	ND					

Surrogate: 1-Chlorooctane 77.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.6 % 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:**

Hungry Horse Environmental  
 DANIEL DOMINGUEZ  
 P.O. Box 1058  
 Hobbs NM, 88240  
 Fax To: (505) 391-4585

Received: 07/01/2024  
 Reported: 07/09/2024  
 Project Name: LUCAS FEE #1  
 Project Number: NONE GIVEN  
 Project Location: ENERGEX - UL/K SEC 24 T8S - R33E

Sampling Date: 07/01/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: OS 11 - SURF (H243939-11)**

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	07/05/2024	ND	1.98	99.2	2.00	0.473	
Toluene*	<0.050	0.050	07/05/2024	ND	2.16	108	2.00	1.61	
Ethylbenzene*	<0.050	0.050	07/05/2024	ND	2.17	109	2.00	2.68	
Total Xylenes*	<0.150	0.150	07/05/2024	ND	6.70	112	6.00	1.48	
Total BTEX	<0.300	0.300	07/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	16.0	16.0	07/05/2024	ND	400	100	400	0.00	

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	07/05/2024	ND	206	103	200	3.39	
DRO >C10-C28*	<10.0	10.0	07/05/2024	ND	183	91.3	200	0.524	
EXT DRO >C28-C36	<10.0	10.0	07/05/2024	ND					

Surrogate: 1-Chlorooctane 86.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Hungry Horse Environmental  
 DANIEL DOMINGUEZ  
 P.O. Box 1058  
 Hobbs NM, 88240  
 Fax To: (505) 391-4585

Received: 07/01/2024  
 Reported: 07/09/2024  
 Project Name: LUCAS FEE #1  
 Project Number: NONE GIVEN  
 Project Location: ENERGEX - UL/K SEC 24 T8S - R33E

Sampling Date: 07/01/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: OS 12 - SURF (H243939-12)**

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	07/05/2024	ND	1.98	99.2	2.00	0.473		
Toluene*	<0.050	0.050	07/05/2024	ND	2.16	108	2.00	1.61		
Ethylbenzene*	<0.050	0.050	07/05/2024	ND	2.17	109	2.00	2.68		
Total Xylenes*	<0.150	0.150	07/05/2024	ND	6.70	112	6.00	1.48		
Total BTEX	<0.300	0.300	07/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	<16.0	16.0	07/05/2024	ND	400	100	400	0.00		

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	07/05/2024	ND	206	103	200	3.39	
DRO >C10-C28*	<10.0	10.0	07/05/2024	ND	183	91.3	200	0.524	
EXT DRO >C28-C36	<10.0	10.0	07/05/2024	ND					

Surrogate: 1-Chlorooctane 75.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Hungry Horse Environmental  
 DANIEL DOMINGUEZ  
 P.O. Box 1058  
 Hobbs NM, 88240  
 Fax To: (505) 391-4585

Received: 07/01/2024  
 Reported: 07/09/2024  
 Project Name: LUCAS FEE #1  
 Project Number: NONE GIVEN  
 Project Location: ENERGEX - UL/K SEC 24 T8S - R33E

Sampling Date: 07/01/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: OS 13 - SURF (H243939-13)**

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	07/05/2024	ND	1.90	94.8	2.00	3.01		
Toluene*	<0.050	0.050	07/05/2024	ND	1.90	94.8	2.00	4.31		
Ethylbenzene*	<0.050	0.050	07/05/2024	ND	2.07	103	2.00	7.04	GC-NC	
Total Xylenes*	<0.150	0.150	07/05/2024	ND	5.95	99.1	6.00	6.13		
Total BTEx	<0.300	0.300	07/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	16.0	16.0	07/05/2024	ND	400	100	400	0.00		

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	07/05/2024	ND	206	103	200	3.39	
DRO >C10-C28*	<10.0	10.0	07/05/2024	ND	183	91.3	200	0.524	
EXT DRO >C28-C36	<10.0	10.0	07/05/2024	ND					

Surrogate: 1-Chlorooctane 78.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.3 % 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:**

Hungry Horse Environmental  
 DANIEL DOMINGUEZ  
 P.O. Box 1058  
 Hobbs NM, 88240  
 Fax To: (505) 391-4585

Received: 07/01/2024  
 Reported: 07/09/2024  
 Project Name: LUCAS FEE #1  
 Project Number: NONE GIVEN  
 Project Location: ENERGEX - UL/K SEC 24 T8S - R33E

Sampling Date: 07/01/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: OS 14 - SURF (H243939-14)**

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	07/05/2024	ND	1.90	94.8	2.00	3.01		
Toluene*	<0.050	0.050	07/05/2024	ND	1.90	94.8	2.00	4.31		
Ethylbenzene*	<0.050	0.050	07/05/2024	ND	2.07	103	2.00	7.04	GC-NC	
Total Xylenes*	<0.150	0.150	07/05/2024	ND	5.95	99.1	6.00	6.13		
Total BTEX	<0.300	0.300	07/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	16.0	16.0	07/05/2024	ND	400	100	400	0.00		

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	07/05/2024	ND	206	103	200	3.39	
DRO >C10-C28*	<10.0	10.0	07/05/2024	ND	183	91.3	200	0.524	
EXT DRO >C28-C36	<10.0	10.0	07/05/2024	ND					

Surrogate: 1-Chlorooctane 80.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.7 % 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:**

Hungry Horse Environmental  
 DANIEL DOMINGUEZ  
 P.O. Box 1058  
 Hobbs NM, 88240  
 Fax To: (505) 391-4585

Received: 07/01/2024  
 Reported: 07/09/2024  
 Project Name: LUCAS FEE #1  
 Project Number: NONE GIVEN  
 Project Location: ENERGEX - UL/K SEC 24 T8S - R33E

Sampling Date: 07/01/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: OS 15 - SURF (H243939-15)**

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	07/05/2024	ND	1.90	94.8	2.00	3.01		
Toluene*	<0.050	0.050	07/05/2024	ND	1.90	94.8	2.00	4.31		
Ethylbenzene*	<0.050	0.050	07/05/2024	ND	2.07	103	2.00	7.04	GC-NC	
Total Xylenes*	<0.150	0.150	07/05/2024	ND	5.95	99.1	6.00	6.13		
Total BTEX	<0.300	0.300	07/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 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	<16.0	16.0	07/05/2024	ND	400	100	400	0.00		

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	07/05/2024	ND	206	103	200	3.39	
DRO >C10-C28*	<10.0	10.0	07/05/2024	ND	183	91.3	200	0.524	
EXT DRO >C28-C36	<10.0	10.0	07/05/2024	ND					

Surrogate: 1-Chlorooctane 79.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.1 % 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:**

Hungry Horse Environmental  
 DANIEL DOMINGUEZ  
 P.O. Box 1058  
 Hobbs NM, 88240  
 Fax To: (505) 391-4585

Received: 07/01/2024  
 Reported: 07/09/2024  
 Project Name: LUCAS FEE #1  
 Project Number: NONE GIVEN  
 Project Location: ENERGEX - UL/K SEC 24 T8S - R33E

Sampling Date: 07/01/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: OS 16 - SURF (H243939-16)**

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	07/05/2024	ND	1.90	94.8	2.00	3.01	
Toluene*	<0.050	0.050	07/05/2024	ND	1.90	94.8	2.00	4.31	
Ethylbenzene*	<0.050	0.050	07/05/2024	ND	2.07	103	2.00	7.04	
Total Xylenes*	<0.150	0.150	07/05/2024	ND	5.95	99.1	6.00	6.13	
Total BTEX	<0.300	0.300	07/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 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	<16.0	16.0	07/05/2024	ND	400	100	400	0.00	

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	07/05/2024	ND	206	103	200	3.39	
DRO >C10-C28*	<10.0	10.0	07/05/2024	ND	183	91.3	200	0.524	
EXT DRO >C28-C36	<10.0	10.0	07/05/2024	ND					

Surrogate: 1-Chlorooctane 77.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.1 % 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:**

Hungry Horse Environmental  
 DANIEL DOMINGUEZ  
 P.O. Box 1058  
 Hobbs NM, 88240  
 Fax To: (505) 391-4585

Received: 07/01/2024  
 Reported: 07/09/2024  
 Project Name: LUCAS FEE #1  
 Project Number: NONE GIVEN  
 Project Location: ENERGEX - UL/K SEC 24 T8S - R33E

Sampling Date: 07/01/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: OS 17 - SURF (H243939-17)**

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	07/05/2024	ND	1.90	94.8	2.00	3.01		
Toluene*	<0.050	0.050	07/05/2024	ND	1.90	94.8	2.00	4.31		
Ethylbenzene*	<0.050	0.050	07/05/2024	ND	2.07	103	2.00	7.04		
Total Xylenes*	<0.150	0.150	07/05/2024	ND	5.95	99.1	6.00	6.13		
Total BTEX	<0.300	0.300	07/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 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	<16.0	16.0	07/05/2024	ND	400	100	400	0.00		

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	07/05/2024	ND	206	103	200	3.39	
DRO >C10-C28*	<10.0	10.0	07/05/2024	ND	183	91.3	200	0.524	
EXT DRO >C28-C36	<10.0	10.0	07/05/2024	ND					

Surrogate: 1-Chlorooctane 82.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.1 % 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:**

Hungry Horse Environmental  
 DANIEL DOMINGUEZ  
 P.O. Box 1058  
 Hobbs NM, 88240  
 Fax To: (505) 391-4585

Received: 07/01/2024  
 Reported: 07/09/2024  
 Project Name: LUCAS FEE #1  
 Project Number: NONE GIVEN  
 Project Location: ENERGEX - UL/K SEC 24 T8S - R33E

Sampling Date: 07/01/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: OS 18 - SURF (H243939-18)**

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	07/05/2024	ND	1.90	94.8	2.00	3.01		
Toluene*	<0.050	0.050	07/05/2024	ND	1.90	94.8	2.00	4.31		
Ethylbenzene*	<0.050	0.050	07/05/2024	ND	2.07	103	2.00	7.04		
Total Xylenes*	<0.150	0.150	07/05/2024	ND	5.95	99.1	6.00	6.13		
Total BTEX	<0.300	0.300	07/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.2 % 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	<16.0	16.0	07/05/2024	ND	400	100	400	0.00		

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	07/05/2024	ND	206	103	200	3.39	
DRO >C10-C28*	<10.0	10.0	07/05/2024	ND	183	91.3	200	0.524	
EXT DRO >C28-C36	<10.0	10.0	07/05/2024	ND					

Surrogate: 1-Chlorooctane 84.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.8 % 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:**

Hungry Horse Environmental  
 DANIEL DOMINGUEZ  
 P.O. Box 1058  
 Hobbs NM, 88240  
 Fax To: (505) 391-4585

Received: 07/01/2024  
 Reported: 07/09/2024  
 Project Name: LUCAS FEE #1  
 Project Number: NONE GIVEN  
 Project Location: ENERGEX - UL/K SEC 24 T8S - R33E

Sampling Date: 07/01/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: OS 19 - SURF (H243939-19)**

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	07/05/2024	ND	1.90	94.8	2.00	3.01		
Toluene*	<0.050	0.050	07/05/2024	ND	1.90	94.8	2.00	4.31		
Ethylbenzene*	<0.050	0.050	07/05/2024	ND	2.07	103	2.00	7.04		
Total Xylenes*	<0.150	0.150	07/05/2024	ND	5.95	99.1	6.00	6.13		
Total BTEX	<0.300	0.300	07/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 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	16.0	16.0	07/05/2024	ND	400	100	400	0.00		

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	07/05/2024	ND	206	103	200	3.39	
DRO >C10-C28*	<10.0	10.0	07/05/2024	ND	183	91.3	200	0.524	
EXT DRO >C28-C36	<10.0	10.0	07/05/2024	ND					

Surrogate: 1-Chlorooctane 79.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.5 % 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:**

Hungry Horse Environmental  
 DANIEL DOMINGUEZ  
 P.O. Box 1058  
 Hobbs NM, 88240  
 Fax To: (505) 391-4585

Received: 07/01/2024  
 Reported: 07/09/2024  
 Project Name: LUCAS FEE #1  
 Project Number: NONE GIVEN  
 Project Location: ENERGEX - UL/K SEC 24 T8S - R33E

Sampling Date: 07/01/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: OS 20 - SURF (H243939-20)**

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	07/05/2024	ND	1.90	94.8	2.00	3.01		
Toluene*	<0.050	0.050	07/05/2024	ND	1.90	94.8	2.00	4.31		
Ethylbenzene*	<0.050	0.050	07/05/2024	ND	2.07	103	2.00	7.04		
Total Xylenes*	<0.150	0.150	07/05/2024	ND	5.95	99.1	6.00	6.13		
Total BTEX	<0.300	0.300	07/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.3 % 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	16.0	16.0	07/05/2024	ND	400	100	400	0.00		

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	07/05/2024	ND	194	97.0	200	1.39	
DRO >C10-C28*	<10.0	10.0	07/05/2024	ND	198	99.1	200	2.72	
EXT DRO >C28-C36	<10.0	10.0	07/05/2024	ND					

Surrogate: 1-Chlorooctane 95.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.2 % 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:**

Hungry Horse Environmental  
 DANIEL DOMINGUEZ  
 P.O. Box 1058  
 Hobbs NM, 88240  
 Fax To: (505) 391-4585

Received: 07/01/2024  
 Reported: 07/09/2024  
 Project Name: LUCAS FEE #1  
 Project Number: NONE GIVEN  
 Project Location: ENERGEX - UL/K SEC 24 T8S - R33E

Sampling Date: 07/01/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: OS 21 - SURF (H243939-21)**

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	07/05/2024	ND	1.90	94.8	2.00	3.01		
Toluene*	<0.050	0.050	07/05/2024	ND	1.90	94.8	2.00	4.31		
Ethylbenzene*	<0.050	0.050	07/05/2024	ND	2.07	103	2.00	7.04		
Total Xylenes*	<0.150	0.150	07/05/2024	ND	5.95	99.1	6.00	6.13		
Total BTEX	<0.300	0.300	07/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 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	<16.0	16.0	07/05/2024	ND	400	100	400	0.00		

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	07/05/2024	ND	194	97.0	200	1.39	
DRO >C10-C28*	<10.0	10.0	07/05/2024	ND	198	99.1	200	2.72	
EXT DRO >C28-C36	<10.0	10.0	07/05/2024	ND					

Surrogate: 1-Chlorooctane 97.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.9 % 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:**

Hungry Horse Environmental  
 DANIEL DOMINGUEZ  
 P.O. Box 1058  
 Hobbs NM, 88240  
 Fax To: (505) 391-4585

Received: 07/01/2024  
 Reported: 07/09/2024  
 Project Name: LUCAS FEE #1  
 Project Number: NONE GIVEN  
 Project Location: ENERGEX - UL/K SEC 24 T8S - R33E

Sampling Date: 07/01/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: OS 22 - SURF (H243939-22)**

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	07/05/2024	ND	1.90	94.8	2.00	3.01		
Toluene*	<0.050	0.050	07/05/2024	ND	1.90	94.8	2.00	4.31		
Ethylbenzene*	<0.050	0.050	07/05/2024	ND	2.07	103	2.00	7.04		
Total Xylenes*	<0.150	0.150	07/05/2024	ND	5.95	99.1	6.00	6.13		
Total BTEX	<0.300	0.300	07/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.2 % 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	<16.0	16.0	07/05/2024	ND	400	100	400	0.00	

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	07/05/2024	ND	194	97.0	200	1.39	
DRO >C10-C28*	<10.0	10.0	07/05/2024	ND	198	99.1	200	2.72	
EXT DRO >C28-C36	<10.0	10.0	07/05/2024	ND					

Surrogate: 1-Chlorooctane 82.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Hungry Horse Environmental  
 DANIEL DOMINGUEZ  
 P.O. Box 1058  
 Hobbs NM, 88240  
 Fax To: (505) 391-4585

Received: 07/01/2024  
 Reported: 07/09/2024  
 Project Name: LUCAS FEE #1  
 Project Number: NONE GIVEN  
 Project Location: ENERGEX - UL/K SEC 24 T8S - R33E

Sampling Date: 07/01/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: OS 23 - SURF (H243939-23)**

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	07/05/2024	ND	1.90	94.8	2.00	3.01		
Toluene*	<0.050	0.050	07/05/2024	ND	1.90	94.8	2.00	4.31		
Ethylbenzene*	<0.050	0.050	07/05/2024	ND	2.07	103	2.00	7.04		
Total Xylenes*	<0.150	0.150	07/05/2024	ND	5.95	99.1	6.00	6.13		
Total BTEX	<0.300	0.300	07/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 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	<16.0	16.0	07/05/2024	ND	400	100	400	0.00		

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	07/05/2024	ND	194	97.0	200	1.39	
DRO >C10-C28*	<10.0	10.0	07/05/2024	ND	198	99.1	200	2.72	
EXT DRO >C28-C36	<10.0	10.0	07/05/2024	ND					

Surrogate: 1-Chlorooctane 87.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Hungry Horse Environmental  
 DANIEL DOMINGUEZ  
 P.O. Box 1058  
 Hobbs NM, 88240  
 Fax To: (505) 391-4585

Received: 07/01/2024  
 Reported: 07/09/2024  
 Project Name: LUCAS FEE #1  
 Project Number: NONE GIVEN  
 Project Location: ENERGEX - UL/K SEC 24 T8S - R33E

Sampling Date: 07/01/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: OS 24 - SURF (H243939-24)**

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	07/05/2024	ND	1.90	94.8	2.00	3.01		
Toluene*	<0.050	0.050	07/05/2024	ND	1.90	94.8	2.00	4.31		
Ethylbenzene*	<0.050	0.050	07/05/2024	ND	2.07	103	2.00	7.04		
Total Xylenes*	<0.150	0.150	07/05/2024	ND	5.95	99.1	6.00	6.13		
Total BTEX	<0.300	0.300	07/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.1 % 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	<16.0	16.0	07/05/2024	ND	400	100	400	0.00	

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	07/05/2024	ND	194	97.0	200	1.39	
DRO >C10-C28*	<10.0	10.0	07/05/2024	ND	198	99.1	200	2.72	
EXT DRO >C28-C36	<10.0	10.0	07/05/2024	ND					

Surrogate: 1-Chlorooctane 93.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Hungry Horse Environmental  
 DANIEL DOMINGUEZ  
 P.O. Box 1058  
 Hobbs NM, 88240  
 Fax To: (505) 391-4585

Received: 07/01/2024  
 Reported: 07/09/2024  
 Project Name: LUCAS FEE #1  
 Project Number: NONE GIVEN  
 Project Location: ENERGEX - UL/K SEC 24 T8S - R33E

Sampling Date: 07/01/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: OS 25 - SURF (H243939-25)**

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	07/05/2024	ND	1.90	94.8	2.00	3.01		
Toluene*	<0.050	0.050	07/05/2024	ND	1.90	94.8	2.00	4.31		
Ethylbenzene*	<0.050	0.050	07/05/2024	ND	2.07	103	2.00	7.04		
Total Xylenes*	<0.150	0.150	07/05/2024	ND	5.95	99.1	6.00	6.13		
Total BTEX	<0.300	0.300	07/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 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	<16.0	16.0	07/05/2024	ND	400	100	400	0.00	

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	07/05/2024	ND	194	97.0	200	1.39	
DRO >C10-C28*	<10.0	10.0	07/05/2024	ND	198	99.1	200	2.72	
EXT DRO >C28-C36	<10.0	10.0	07/05/2024	ND					

Surrogate: 1-Chlorooctane 93.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

Hungry Horse Environmental  
 DANIEL DOMINGUEZ  
 P.O. Box 1058  
 Hobbs NM, 88240  
 Fax To: (505) 391-4585

Received: 07/01/2024  
 Reported: 07/09/2024  
 Project Name: LUCAS FEE #1  
 Project Number: NONE GIVEN  
 Project Location: ENERGEX - UL/K SEC 24 T8S - R33E

Sampling Date: 07/01/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: OS 26 - SURF (H243939-26)**

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	07/05/2024	ND	1.90	94.8	2.00	3.01		
Toluene*	<0.050	0.050	07/05/2024	ND	1.90	94.8	2.00	4.31		
Ethylbenzene*	<0.050	0.050	07/05/2024	ND	2.07	103	2.00	7.04		
Total Xylenes*	<0.150	0.150	07/05/2024	ND	5.95	99.1	6.00	6.13		
Total BTEX	<0.300	0.300	07/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.9 % 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	<16.0	16.0	07/05/2024	ND	400	100	400	0.00		

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	07/05/2024	ND	194	97.0	200	1.39	
DRO >C10-C28*	<10.0	10.0	07/05/2024	ND	198	99.1	200	2.72	
EXT DRO >C28-C36	<10.0	10.0	07/05/2024	ND					

Surrogate: 1-Chlorooctane 90.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.5 % 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:**

Hungry Horse Environmental  
 DANIEL DOMINGUEZ  
 P.O. Box 1058  
 Hobbs NM, 88240  
 Fax To: (505) 391-4585

Received: 07/01/2024  
 Reported: 07/09/2024  
 Project Name: LUCAS FEE #1  
 Project Number: NONE GIVEN  
 Project Location: ENERGEX - UL/K SEC 24 T8S - R33E

Sampling Date: 07/01/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: OS 27 - SURF (H243939-27)**

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	07/05/2024	ND	1.90	94.8	2.00	3.01		
Toluene*	<0.050	0.050	07/05/2024	ND	1.90	94.8	2.00	4.31		
Ethylbenzene*	<0.050	0.050	07/05/2024	ND	2.07	103	2.00	7.04		
Total Xylenes*	<0.150	0.150	07/05/2024	ND	5.95	99.1	6.00	6.13		
Total BTEX	<0.300	0.300	07/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 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	<16.0	16.0	07/05/2024	ND	400	100	400	0.00		

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	07/05/2024	ND	194	97.0	200	1.39	
DRO >C10-C28*	<10.0	10.0	07/05/2024	ND	198	99.1	200	2.72	
EXT DRO >C28-C36	<10.0	10.0	07/05/2024	ND					

Surrogate: 1-Chlorooctane 91.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Hungry Horse Environmental  
 DANIEL DOMINGUEZ  
 P.O. Box 1058  
 Hobbs NM, 88240  
 Fax To: (505) 391-4585

Received: 07/01/2024  
 Reported: 07/09/2024  
 Project Name: LUCAS FEE #1  
 Project Number: NONE GIVEN  
 Project Location: ENERGEX - UL/K SEC 24 T8S - R33E

Sampling Date: 07/01/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: OS 28 - SURF (H243939-28)**

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	07/05/2024	ND	1.90	94.8	2.00	3.01		
Toluene*	<0.050	0.050	07/05/2024	ND	1.90	94.8	2.00	4.31		
Ethylbenzene*	<0.050	0.050	07/05/2024	ND	2.07	103	2.00	7.04		
Total Xylenes*	<0.150	0.150	07/05/2024	ND	5.95	99.1	6.00	6.13		
Total BTEX	<0.300	0.300	07/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.9 % 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	<16.0	16.0	07/05/2024	ND	448	112	400	0.00		

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	07/05/2024	ND	194	97.0	200	1.39	
DRO >C10-C28*	<10.0	10.0	07/05/2024	ND	198	99.1	200	2.72	
EXT DRO >C28-C36	<10.0	10.0	07/05/2024	ND					

Surrogate: 1-Chlorooctane 95.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Hungry Horse Environmental  
 DANIEL DOMINGUEZ  
 P.O. Box 1058  
 Hobbs NM, 88240  
 Fax To: (505) 391-4585

Received: 07/01/2024  
 Reported: 07/09/2024  
 Project Name: LUCAS FEE #1  
 Project Number: NONE GIVEN  
 Project Location: ENERGEX - UL/K SEC 24 T8S - R33E

Sampling Date: 07/01/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: OS 29 - SURF (H243939-29)**

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	07/05/2024	ND	1.90	94.8	2.00	3.01		
Toluene*	<0.050	0.050	07/05/2024	ND	1.90	94.8	2.00	4.31		
Ethylbenzene*	<0.050	0.050	07/05/2024	ND	2.07	103	2.00	7.04		
Total Xylenes*	<0.150	0.150	07/05/2024	ND	5.95	99.1	6.00	6.13		
Total BTEx	<0.300	0.300	07/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.7 % 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	07/05/2024	ND	448	112	400	0.00		

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	07/05/2024	ND	194	97.0	200	1.39	
DRO >C10-C28*	<10.0	10.0	07/05/2024	ND	198	99.1	200	2.72	
EXT DRO >C28-C36	<10.0	10.0	07/05/2024	ND					

Surrogate: 1-Chlorooctane 87.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.2 % 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:**

Hungry Horse Environmental  
 DANIEL DOMINGUEZ  
 P.O. Box 1058  
 Hobbs NM, 88240  
 Fax To: (505) 391-4585

Received: 07/01/2024  
 Reported: 07/09/2024  
 Project Name: LUCAS FEE #1  
 Project Number: NONE GIVEN  
 Project Location: ENERGEX - UL/K SEC 24 T8S - R33E

Sampling Date: 07/01/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: OS 30 - SURF (H243939-30)**

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	07/05/2024	ND	1.90	94.8	2.00	3.01		
Toluene*	<0.050	0.050	07/05/2024	ND	1.90	94.8	2.00	4.31		
Ethylbenzene*	<0.050	0.050	07/05/2024	ND	2.07	103	2.00	7.04		
Total Xylenes*	<0.150	0.150	07/05/2024	ND	5.95	99.1	6.00	6.13		
Total BTEX	<0.300	0.300	07/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 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	07/05/2024	ND	448	112	400	0.00	

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	07/05/2024	ND	194	97.0	200	1.39	
DRO >C10-C28*	<10.0	10.0	07/05/2024	ND	198	99.1	200	2.72	
EXT DRO >C28-C36	<10.0	10.0	07/05/2024	ND					

Surrogate: 1-Chlorooctane 95.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.1 % 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:**

Hungry Horse Environmental  
 DANIEL DOMINGUEZ  
 P.O. Box 1058  
 Hobbs NM, 88240  
 Fax To: (505) 391-4585

Received: 07/01/2024  
 Reported: 07/09/2024  
 Project Name: LUCAS FEE #1  
 Project Number: NONE GIVEN  
 Project Location: ENERGEX - UL/K SEC 24 T8S - R33E

Sampling Date: 07/01/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: OS 31 - SURF (H243939-31)**

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	07/05/2024	ND	1.90	94.8	2.00	3.01		
Toluene*	<0.050	0.050	07/05/2024	ND	1.90	94.8	2.00	4.31		
Ethylbenzene*	<0.050	0.050	07/05/2024	ND	2.07	103	2.00	7.04		
Total Xylenes*	<0.150	0.150	07/05/2024	ND	5.95	99.1	6.00	6.13		
Total BTEX	<0.300	0.300	07/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.8 % 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	07/05/2024	ND	448	112	400	0.00		

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	07/05/2024	ND	194	97.0	200	1.39	
DRO >C10-C28*	<10.0	10.0	07/05/2024	ND	198	99.1	200	2.72	
EXT DRO >C28-C36	<10.0	10.0	07/05/2024	ND					

Surrogate: 1-Chlorooctane 118 % 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:**

Hungry Horse Environmental  
 DANIEL DOMINGUEZ  
 P.O. Box 1058  
 Hobbs NM, 88240  
 Fax To: (505) 391-4585

Received: 07/01/2024  
 Reported: 07/09/2024  
 Project Name: LUCAS FEE #1  
 Project Number: NONE GIVEN  
 Project Location: ENERGEX - UL/K SEC 24 T8S - R33E

Sampling Date: 07/01/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: OS 32 - SURF (H243939-32)**

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	07/05/2024	ND	1.90	94.8	2.00	3.01		
Toluene*	<0.050	0.050	07/05/2024	ND	1.90	94.8	2.00	4.31		
Ethylbenzene*	<0.050	0.050	07/05/2024	ND	2.07	103	2.00	7.04		
Total Xylenes*	<0.150	0.150	07/05/2024	ND	5.95	99.1	6.00	6.13		
Total BTEX	<0.300	0.300	07/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.2 % 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	07/05/2024	ND	448	112	400	0.00		

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	07/05/2024	ND	194	97.0	200	1.39	
DRO >C10-C28*	<10.0	10.0	07/05/2024	ND	198	99.1	200	2.72	
EXT DRO >C28-C36	<10.0	10.0	07/05/2024	ND					

Surrogate: 1-Chlorooctane 121 % 48.2-134

Surrogate: 1-Chlorooctadecane 127 % 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:**

Hungry Horse Environmental  
 DANIEL DOMINGUEZ  
 P.O. Box 1058  
 Hobbs NM, 88240  
 Fax To: (505) 391-4585

Received: 07/01/2024  
 Reported: 07/09/2024  
 Project Name: LUCAS FEE #1  
 Project Number: NONE GIVEN  
 Project Location: ENERGEX - UL/K SEC 24 T8S - R33E

Sampling Date: 07/01/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: OS 33 - SURF (H243939-33)**

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	07/05/2024	ND	2.00	100	2.00	2.14		
Toluene*	<0.050	0.050	07/05/2024	ND	2.10	105	2.00	2.79		
Ethylbenzene*	<0.050	0.050	07/05/2024	ND	2.17	109	2.00	3.06		
Total Xylenes*	<0.150	0.150	07/05/2024	ND	6.65	111	6.00	2.98		
Total BTEx	<0.300	0.300	07/05/2024	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	07/05/2024	ND	448	112	400	0.00		

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	07/05/2024	ND	194	97.0	200	1.39	
DRO >C10-C28*	<10.0	10.0	07/05/2024	ND	198	99.1	200	2.72	
EXT DRO >C28-C36	<10.0	10.0	07/05/2024	ND					

Surrogate: 1-Chlorooctane 118 % 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:**

Hungry Horse Environmental  
 DANIEL DOMINGUEZ  
 P.O. Box 1058  
 Hobbs NM, 88240  
 Fax To: (505) 391-4585

Received: 07/01/2024  
 Reported: 07/09/2024  
 Project Name: LUCAS FEE #1  
 Project Number: NONE GIVEN  
 Project Location: ENERGEX - UL/K SEC 24 T8S - R33E

Sampling Date: 07/01/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: OS 34 - SURF (H243939-34)**

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	07/05/2024	ND	2.00	100	2.00	2.14		
Toluene*	<0.050	0.050	07/05/2024	ND	2.10	105	2.00	2.79		
Ethylbenzene*	<0.050	0.050	07/05/2024	ND	2.17	109	2.00	3.06		
Total Xylenes*	<0.150	0.150	07/05/2024	ND	6.65	111	6.00	2.98		
Total BTEx	<0.300	0.300	07/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	07/05/2024	ND	448	112	400	0.00		

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	07/05/2024	ND	194	97.0	200	1.39	
DRO >C10-C28*	<10.0	10.0	07/05/2024	ND	198	99.1	200	2.72	
EXT DRO >C28-C36	<10.0	10.0	07/05/2024	ND					

Surrogate: 1-Chlorooctane 125 % 48.2-134

Surrogate: 1-Chlorooctadecane 128 % 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:**

Hungry Horse Environmental  
 DANIEL DOMINGUEZ  
 P.O. Box 1058  
 Hobbs NM, 88240  
 Fax To: (505) 391-4585

Received: 07/01/2024  
 Reported: 07/09/2024  
 Project Name: LUCAS FEE #1  
 Project Number: NONE GIVEN  
 Project Location: ENERGEX - UL/K SEC 24 T8S - R33E

Sampling Date: 07/01/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: OS 35 - SURF (H243939-35)**

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	07/05/2024	ND	2.00	100	2.00	2.14	
Toluene*	<0.050	0.050	07/05/2024	ND	2.10	105	2.00	2.79	
Ethylbenzene*	<0.050	0.050	07/05/2024	ND	2.17	109	2.00	3.06	
Total Xylenes*	<0.150	0.150	07/05/2024	ND	6.65	111	6.00	2.98	
Total BTEX	<0.300	0.300	07/05/2024	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	<16.0	16.0	07/05/2024	ND	448	112	400	0.00	

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	07/05/2024	ND	194	97.0	200	1.39	
DRO >C10-C28*	<10.0	10.0	07/05/2024	ND	198	99.1	200	2.72	
EXT DRO >C28-C36	<10.0	10.0	07/05/2024	ND					

Surrogate: 1-Chlorooctane 129 % 48.2-134

Surrogate: 1-Chlorooctadecane 130 % 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:**

Hungry Horse Environmental  
 DANIEL DOMINGUEZ  
 P.O. Box 1058  
 Hobbs NM, 88240  
 Fax To: (505) 391-4585

Received: 07/01/2024  
 Reported: 07/09/2024  
 Project Name: LUCAS FEE #1  
 Project Number: NONE GIVEN  
 Project Location: ENERGEX - UL/K SEC 24 T8S - R33E

Sampling Date: 07/01/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: OS 36 - SURF (H243939-36)**

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	07/05/2024	ND	2.00	100	2.00	2.14		
Toluene*	<0.050	0.050	07/05/2024	ND	2.10	105	2.00	2.79		
Ethylbenzene*	<0.050	0.050	07/05/2024	ND	2.17	109	2.00	3.06		
Total Xylenes*	<0.150	0.150	07/05/2024	ND	6.65	111	6.00	2.98		
Total BTEX	<0.300	0.300	07/05/2024	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	<16.0	16.0	07/05/2024	ND	448	112	400	0.00		

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	07/05/2024	ND	194	97.0	200	1.39	
DRO >C10-C28*	<10.0	10.0	07/05/2024	ND	198	99.1	200	2.72	
EXT DRO >C28-C36	<10.0	10.0	07/05/2024	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 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.
- GC-NC           8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.
- 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 "C. D. Keene", written over a horizontal line.

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

1/4

Company Name: Hungry Horse LLC		P.O. #:		BILL TO										ANALYSIS REQUEST									
Project Manager: Daniel Dominguez		Company: EnergeX, LLC																					
Address: 4024 Plains Hwy		Attn: Marc Lilley																					
City: Lovington	State: NM	Zip: 88260																					
Phone #: 575 393-3386	Fax #:																						
Project #:	Project Owner: EnergeX, LLC	City: Carlsbad																					
Project Name: Lucas Fee #1	State: NM	Zip: 88230																					
Project Location: UL/K Sec 24 T8S - R33E	Phone #: 575-496-2506																						
Sampler Name: Roy Bell	Fax #:																						
FOR LAB USE ONLY																							
Lab I.D. Sample I.D.																							
H243939																							
OS1-Surf																							
OS2-Surf																							
OS3-Surf																							
OS4-Surf																							
OS5-Surf																							
OS6-Surf																							
OS7-Surf																							
OS8-Surf																							
OS9-Surf																							
OS10-Surf																							
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Relinquished By: [Signature]																							
Date: 7-1-24																							
Time: 1:500																							
Received By: [Signature]																							
Date: 7-1-24																							
Time: 1:500																							
Delivered By: (Circle One) 4.9																							
Sampler - UPS - Bus - Other: #440																							
Sample Condition: Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No																							
CHECKED BY: [Signature]																							
REMARKS: Email results to: pm@hungry-horse.com marc@energeXllc.com																							




$$\frac{2}{4}$$
Page 40 of 42



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

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

$$7/3$$
[illegible]





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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

4/4

Company Name: Hungry Horse LLC

Project Manager: Daniel Dominguez

Address: 4024 Plains Hwy

City: Lovington

Phone #: 575 393-3386

Project #:

Project Name: Lucas Fee #1

Project Location: U/L K Sec 24 T8S - R33E

Sampler Name: Roy Bell

BILL TO

P.O. #:

Company: EnergeX, LLC

Attn: Marc Lilley

Address: 5325 Sierra Vista

City: Carlsbad

State: NM Zip: 88230

Phone #: 575-496-2506

Fax #:

ANALYSIS REQUEST

Project Manager:		Daniel Dominguez		P.O. #:			
Address:		4024 Plains Hwy		Company		Energec, LLC	
City:	Lovington	State:	NM	Zip:	88260	Attn:	Marc Lilley
Phone #:	575 393-3386	Fax #:		Address: 5325 Sierra Vista			
Project #:		Project Owner:	Energec, LLC		City:	Carlsbad	
Project Name:	Lucas Fee #1		State:	NM	Zip:	88230	
Project Location:	UL/ K Sec 24 T8S - R33E		Phone #:	575-496-2506			
Sampler Name:	Roy Bell		Fax #:				

FOR LAB USE ONLY											
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.	SAMPLING	
				GROUNDWATER							
				WASTEWATER							
				SOIL							
				OIL							
				SLUDGE							
				OTHER :							
				ACID/BASE:							
				ICE / COOL							
				OTHER :							
		DATE	TIME								
		Chloride									
		TPH									
		BTEX 8021									

PLEASE 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.

Relinquished By:

*[Signature]*

Date: 7-1-24

Time: 1500

Date:

Time:

Received By:

*[Signature]*

Phone Result: ☐ Yes ☐ No Add'l Phone #:  
Fax Result: ☐ Yes ☐ No Add'l Fax #:

REMARKS:

Email results to: pm@hungry-horse.com

marc@energeXllc.com

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

4-9

#140

Sample Condition

Cool ☒ Intact ☒

Yes ☒ No ☐

CHECKED BY:

*[Signature]*

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



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**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
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**Santa Fe, NM 87505**

QUESTIONS

Action 366911

**QUESTIONS**

Operator:	ENERGEX, LLC 18291 Pima Rd. Suite 110 Scottsdale, AZ 85255	OGRID:	296260
		Action Number:	366911
		Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nAPP2411639976
Incident Name	NAPP2411639976 LUCAS FEE #1 @ 30-005-29212
Incident Type	Oil Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-005-29212] LUCAS FEE #001

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

Site Name	LUCAS FEE #1
Date Release Discovered	03/09/2023
Surface Owner	Private

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

Incident Type	Oil Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

**Nature and Volume of Release***Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.*

Crude Oil Released (bbls) Details	Cause: Other   Tank (Any)   Crude Oil   Released: 26 BBL   Recovered: 0 BBL   Lost: 26 BBL.
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	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	cause of release is unknown. wind caused overspray outside of containment

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QUESTIONS, Page 2

Action 366911

**QUESTIONS (continued)**

Operator: ENERGEX, LLC 18291 Pima Rd. Suite 110 Scottsdale, AZ 85255	OGRID:	296260
	Action Number:	366911
	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)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

**Initial Response**

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

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

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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

I hereby agree and sign off to the above statement	Name: Marc Lilley Title: Managing Member Email: mallilley@yahoo.com Date: 04/25/2024
--	---

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QUESTIONS, Page 3

Action 366911

**QUESTIONS (continued)**

Operator: ENERGEX, LLC 18291 Pima Rd. Suite 110 Scottsdale, AZ 85255	OGRID:	296260
	Action Number:	366911
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS****Site Characterization**

*Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.*

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	U.S. Geological Survey
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	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (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	Greater than 5 (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	Greater than 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	None
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

**Remediation Plan**

*Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.*

Requesting a remediation plan approval with this submission	Yes
<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

**Soil Contamination Sampling:** (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride	(EPA 300.0 or SM4500 Cl B)	80
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	12770
GRO+DRO	(EPA SW-846 Method 8015M)	11400
BTEX	(EPA SW-846 Method 8021B or 8260B)	0
Benzene	(EPA SW-846 Method 8021B or 8260B)	0

*Per Subsection B of 19.15.29.11 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.*

On what estimated date will the remediation commence	06/26/2024
On what date will (or did) the final sampling or liner inspection occur	07/01/2024
On what date will (or was) the remediation complete(d)	07/11/2024
What is the estimated surface area (in square feet) that will be reclaimed	1800
What is the estimated volume (in cubic yards) that will be reclaimed	200
What is the estimated surface area (in square feet) that will be remediated	1800
What is the estimated volume (in cubic yards) that will be remediated	200

*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.*

*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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QUESTIONS, Page 4

Action 366911

**QUESTIONS (continued)**

Operator: ENERGEX, LLC 18291 Pima Rd. Suite 110 Scottsdale, AZ 85255	OGRID:	296260
	Action Number:	366911
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS****Remediation Plan (continued)**

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

**This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:**

(Select all answers below that apply.)

(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for <b>off-site</b> disposal	GANDY MARLEY LANDFARM/LANDFILL [FEEM0112338393]
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	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)	Not answered.

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: Marc Lilley Title: Managing Member Email: mallilley@yahoo.com Date: 07/24/2024
--	---

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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QUESTIONS, Page 5  
  
Action 366911

QUESTIONS (continued)

Operator:  ENERGEX, LLC 18291 Pima Rd. Suite 110 Scottsdale, AZ 85255	OGRID:  296260
	Action Number:  366911
	Action Type:  [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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QUESTIONS, Page 6

Action 366911

**QUESTIONS (continued)**

Operator: ENERGEX, LLC 18291 Pima Rd. Suite 110 Scottsdale, AZ 85255	OGRID:
	296260
	Action Number:
	366911
Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

**QUESTIONS**

Sampling Event Information	
Last sampling notification (C-141N) recorded	359276
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	07/01/2024
What was the (estimated) number of samples that were to be gathered	48
What was the sampling surface area in square feet	9000

**Remediation Closure Request**

*Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.*

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	1800
What was the total volume (cubic yards) remediated	200
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	1800
What was the total volume (in cubic yards) reclaimed	200
Summarize any additional remediation activities not included by answers (above)	Remediation activities, and liner inspection, were conducted in accordance with applicable NMOCD Regulations. Soil affected above the NMOCD Closure Criteria has been excavated and hauled to an NMOCD approved facility for disposal. Laboratory analytical results from composite confirmation samples indicate concentrations of BTEX, TPH, and chloride are below the NMOCD Closure Criteria. Based on laboratory analytical results and a thorough liner inspection, Energex, LLC respectfully requests closure of the Lucas Fee #1 location, nAPP1902343484.

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

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

I hereby agree and sign off to the above statement	Name: Marc Lilley Title: Managing Member Email: mallilley@yahoo.com Date: 07/24/2024
--	---

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QUESTIONS, Page 7  
  
Action 366911

QUESTIONS (continued)

Operator:  ENERGEX, LLC 18291 Pima Rd. Suite 110 Scottsdale, AZ 85255	OGRID:  296260
	Action Number:  366911
	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 366911

**CONDITIONS**

Operator: ENERGEX, LLC 18291 Pima Rd. Suite 110 Scottsdale, AZ 85255	OGRID:
	296260
	Action Number: 366911
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**CONDITIONS**

Created By	Condition	Condition Date
bhall	Remediation closure approved. The area of the release must meet the requirements of 19.15.29.13 NMAC as it is not reasonably needed for subsequent drilling or production operations.	7/30/2024
bhall	The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.	7/30/2024
bhall	A revegetation report will not be accepted until revegetation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	7/30/2024
bhall	All revegetation activities will need to be documented and included in the revegetation report. The revegetation report will need to include: An executive summary of the revegetation activities including: Seed mix, Method of seeding, dates of when the release area was reseeded, information pertinent to inspections, information about any amendments added to the soil, information on how the vegetative cover established meets the life-form ratio of plus or minus fifty percent of pre-disturbance levels and a total percent plant cover of at least seventy percent of pre-disturbance levels, excluding noxious weeds per 19.15.29.13 D.(3) NMAC, and any additional information; a scaled Site Map including area that was revegetated in square feet; and pictures of the revegetated areas during reseeding activities, inspections, and final pictures when revegetation is achieved.	7/30/2024
bhall	Be advised, pursuant to 19.15.29.10 NMAC, a major release requires notification to the division's environmental bureau chief and the appropriate division district office verbally or by e-mail within 24 hours of discovery of the release and within 5 days of discovering the release, the initial C-141 must be completed and submitted. The notification of release (NOR) and initial C-141 were not submitted until 4/25/2024 which is 413 days after the date of discovery (3/9/2023).	7/30/2024
bhall	NMOSE records show a well (L 14097) with a recorded depth to water at 25 ft bgs. This well is approximately 1 mile southeast of the release. Pursuant to 19.15.29.11.A.(2) NMAC, if the exact depth to groundwater is unknown, the responsible party must provide a reasonable determination of probable ground water depth using data generated by numeric models, cathodic well lithology, water well data, published information or other tools as approved by the division. Future reports must include a probable depth to groundwater utilizing either a soil boring drilled within 0.5 miles of the release or all applicable data available.	7/30/2024
bhall	The report references the incorrect operator on the cover page and an invalid incident number (nAPP1902343484) in the report. OCD is requesting that times be included on the chain of custody for all future reports in order to verify that sampling occurred per the date and times provided on the C-141N(s)	7/30/2024