

**Spill Volume(Bbls) Calculator***Inputs in blue, Outputs in red*

Length(Ft)	Width(Ft)	Depth(In)
60.000	10.000	43.000
Cubic Feet Impacted		2150.000
Barrels		382.90
Soil Type		Clay/Sand
Bbls Assuming 100% Saturation		57.44
Saturation	Fluid present with shovel/backhoe	
Estimated Barrels Released		57.50000

**Instructions**

1. Input spill measurements below. Length and width need to be input in feet and depth in inches.
2. Select a soil type from the drop down menu.
3. Select a saturation level from the drop down menu.

(For data gathering instructions see appendix tab)

**Measurements**

Length (ft)	60
Width (ft)	10
Depth (in)	43.000







## Remediation Summary and Deferral Request

**Spur Energy Partners, LLC**

**Tarpan 33 Fee #004H Battery**

Eddy County, New Mexico

Unit Letter N, Section 33, Township 18 South, Range 26 East

Latitude 32.697548 North, Longitude 104.388359 West

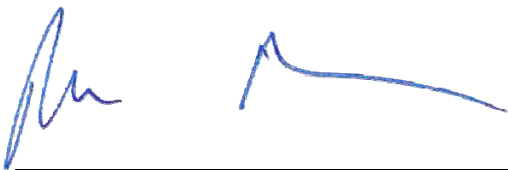
**NMOCD Reference No. nAPP2311043712**

Prepared By:

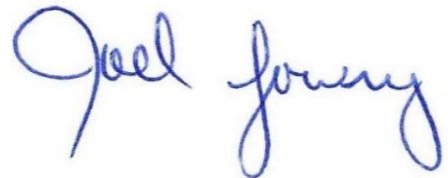
**Etech Environmental & Safety Solutions, Inc.**

2617 W. Marland

Hobbs, New Mexico 88240



Robbie Runnels



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Midland • San Antonio • Lubbock • Hobbs • Lafayette

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1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Spur Energy Partners, LLC, has prepared this *Remediation Summary and Deferral Request* for the release site known as the Tarpan 33 Fee #004H Battery (henceforth, "Site"). Details of the release are summarized below:")

Location of Release Source

Latitude: 32.697548 Longitude: -104.388359  
Provided GPS are in WGS84 format.

Site Name: Tarpan 33 Fee #004H Battery	Site Type: Tank Battery
Date Release Discovered: 4/19/2023	API # (if applicable): 30-015-41662

Unit Letter	Section	Township	Range	County
N	33	18S	26E	Eddy

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (Name Spur Energy Partners, LLC )

Nature and Volume of Release

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 29	Volume Recovered (bbls) 28
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 29	Volume Recovered (bbls) 29
	Is the concentration of total dissolved solids (TDS) in the produced water > 10,000 mg/L?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released	Volume/Weight Recovered

Cause of Release:  
Failure of a water transfer pump caused a tank to overflow into the lined containment.

Initial Response

- ☒ The source of the release has been stopped.
- ☒ The impacted area has been secured to protect human health and the environment.
- ☒ Release materials have been contained via the use of berms or dikes, absorbent pad, or other containment devices
- ☒ All free liquids and recoverable materials have been removed and managed appropriately.

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

## 2.0 SITE CHARACTERIZATION

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

What is the shallowest depth to groundwater beneath the area affected by the release?	49 Feet			
Did the release impact groundwater or surface water?	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
Are the lateral extents of the release within 300 feet of any occupied permanent residence, school, hospital, institution or church?	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
Are the lateral extents of the release within the incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
Did the release impact areas not on an exploration, development, production or storage site?	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No

NMOCD Siting Criteria data was gathered from available resources including Bureau of Land Management (BLM) shapefiles; topographic maps; NMOSE and USGS databases; and aerial imagery. The results are depicted on Figures 1, 2, 4, and 5.

3.0 CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE

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

Probable Depth to Groundwater	Constituent	Laboratory Analytical Method	Closure Criteria*†	Reclamation Standard*‡
49 Feet	Chloride (Cl-)	EPA 300.0 or SM4500 Cl B	600	600
	Total Petroleum Hydrocarbons (TPH)	EPA SW-846 Method 8015M Ext	100	100
	Gas Range Organics + Diesel Range Organics (GRO + DRO)	EPA SW-846 Method 8015M	-	-
	Benzene	EPA SW-846 Methods 8021b or 8260b	10	10
	Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX)	EPA SW-846 Methods 8021b or 8260b	50	50

\* Measured in milligrams per kilogram (mg/kg)  
† Table I, Section 19.15.29.12 of the New Mexico Administrative Code (NMAC).  
‡ The NMOCD Reclamation Standard applies only to the top 4' of soil in non-production areas. Section 19.15.29.13 D.(1) NMAC.

4.0 REMEDIATION ACTIVITIES SUMMARY

Requesting a remediation plan approval with this submission?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Have the lateral and vertical extents of contamination been fully delineated?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Was this release entirely contained within a lined containment area?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
On what estimated date did, or will, the remediation commence?	<u>2/6/2024</u>
On what date will (or was) the remediation complete(d)?	<u>2/9/2024</u>
What was the total surface area (sq. ft.) that has or will be remediated?	<u>160</u>
What was the total volume (cy) that has or will be remediated?	<u>60</u>
This remediation utilized the following processes to remediate/reduce contaminants: (Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
(In Situ) Soil Vapor Extraction	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Ground Water Abatement pursuant to 19.15.30 NMAC	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Other (Non-listed remedial process)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Which OCD approved facility was or will be used for off-site disposal?	<u>Lea Land, Inc.</u>
NMOCD Disposal Facility ID?	<u>fEEM0112342028</u>
Summarize any additional remediation activities not included by answers above.	<u>See below</u>

On February 6, 2024, remediation activities commenced at the Site. In accordance with the NMOCD, impacted soil affected above the NMOCD Closure Criteria and/or NMOCD Reclamation Standard was excavated and stockpiled on-site, pending transfer to an NMOCD-approved surface waste disposal facility. The floor and sidewalls of the excavation were advanced until field observations and test results suggested BTEX, TPH, and chloride concentrations were below the NMOCD Closure Criteria and/or NMOCD Reclamation Standards. Representative five-point composite confirmation soil samples were collected from the floor and sidewalls of the excavated area to be submitted for laboratory analyses. A summary of the soil sampling events is provided below:

Constituent	Highest Observable Concentration (mg/kg)	Sample ID	Sample Date	Sample Depth (ft bgs)	Soil Status
Chloride	8,000	V1 @ 0'	4/28/2024	0	In-Situ
TPH	59,000	V1 @ 0'	4/28/2024	0.5	In-Situ
GRO+DRO	50,500	V1 @ 0'	4/28/2024	0.5	In-Situ
Benzene	13.9	V1 @ 2'-R	5/24/2024	2	Excavated
BTEX	312.0	V1 @ 0'	4/28/2024	0.5	In-Situ

Please reference Table 1 for additional information.

On April 28, 2023, Etech collected four (4) soil samples (OS 1 @ 0', OS 1 @ 1', OS 2 @ 0', OS 2 @ 1') from the overspray area. The collected soil samples were submitted to a certified commercial laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the NMOCD Closure Criteria and/or the NMOCD Reclamation Standards in each of the submitted soil samples. In addition, Etech established a sample point for delineation purposes where vertical soil samples were taken at depth (V1 @ 0' and V1 @ 1'). Vertical delineation was not achieved as both soil samples were above the NMOCD Closure Criteria and/or the NMOCD Reclamation Standards for BTEX, TPH, and chloride concentrations.

On May 24, 2023, Etech attempted to complete vertical delineation (V1 @ 2'-R) but hit auger refusal at a depth of two (2) feet below ground surface.

On February 6, 2024, Etech collected seven (7) confirmation soil samples. Soil samples were three (3) wall samples and 2 deferral soil samples (WW-1, EW-1, SW-1, DEF @ 6", DEF @ 8.5'). A floor sample was taken (FL @ 8.5') as well as a horizontal sample to delineate horizontally to the north (NH-1). The collected soil samples were submitted to a certified commercial laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the NMOCD Closure Criteria and/or the NMOCD Reclamation Standards in each of the submitted soil samples, with the exception of deferral sample DEF @ 6", which exhibited a chloride concentration of 1,020 mg/kg, a BTEX concentration of 189 mg/kg, and a TPH concentration of 7,240 mg/kg with a concentration of GRO + DRO of 6,200 mg/kg.

The deferral soil samples were collected immediately adjacent to the tank battery containment wall. These samples indicate what contamination is being left in-situ (DEF1 @ 6") and at what depth (DEF @ 8.5') remediation will ultimately take place in order to fully remove the contamination.

On February 6, 2024, a liner inspection was performed to ensure the integrity of the liner. All five-thousand six-hundred and thirty (5,630) square feet of liner was inspected. There was no noticeable holes, tears, or imperfections. The liner integrity appeared to be intact.

On February 9, 2024, excavation activities resumed at the Site. A horizontal soil sample was taken at depth (NH-1 @ 1') to ensure full horizontal delineation was achieved. Impacted soil was transported to an NMOCD-approved surface waste facility for disposal. Clean, non-impacted, like material was brought back to the location and placed in the excavation. The impacted area was compacted and contoured to achieve erosion control, stability, and preservation of surface water flow, to the extent

practicable.

A site and sample location map is provided as Figure 3. A soil chemistry table is provided as Table 1. Field data and soil profile logs, if applicable, are provided as Appendix B. Laboratory analytical reports are provided as Appendix C. A photographic log is provided as Appendix D. Copies of all regulatory correspondence are provided in Appendix F.

The final dimensions of the excavated area were approximately sixteen (16) feet in length, ten (10) feet in width and eight and one-half (8.5) feet in depth. During the course of remediation activities, approximately sixty (60) cubic yards of impacted soil were transported to an NMOCD-approved surface waste facility for disposal.

## 5.0 RESTORATION, RECLAMATION, AND RE-VEGETATION PLAN

All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste containing earthen material with concentrations of less than 600 mg/kg chloride, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg benzene?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
What was the total surface area (sq. ft.) reclaimed?	<u>160</u>
What was the total volume (cy) reclaimed?	<u>60</u>
What is the total surface area (sq. ft.) that will <i>eventually</i> be reclaimed?	<u>10</u>
What is the total volume (cy) that will <i>eventually</i> be reclaimed?	<u>2</u>

Upon receiving laboratory analytical results from confirmation soil samples, excavated areas were backfilled with locally sourced, non-impacted "like" material placed at or near original relative positions. The affected area was compacted and contoured to achieve erosion control, stability, and preservation of surface water flow, to the extent practicable. Affected areas not on production pads and/or lease roads will be reseeded with an agency and/or landowner-approved seed mixture free of noxious weeds during the first favorable growing season following closure of the site.

## 6.0 SOIL DEFERRAL REQUEST

Requesting a deferral of remediation closure due date with the approval of this submission?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Requesting a remediation closure approval with this submission?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Remediation activities were conducted in accordance with applicable NMOCD Regulations. Impacted soil affected above the NMOCD Closure Criteria and/or NMOCD Reclamation Standards was excavated to the extent practicable and transported to an NMOCD-approved disposal facility. Laboratory analytical results from confirmation soil samples indicate concentrations of BTEX, TPH, and chloride in the excavated area are below the NMOCD Closure Criteria and/or NMOCD Reclamation

Remediation of the approximate 2 cubic yards of impacted soil affected above the NMOCD Closure Criteria remaining in-situ in the Deferral Area will be completed upon decommissioning and abandonment of the tank battery facility in accordance with

Sections 19.15.29.12 and 19.15.29.13 of the NMAC.

Based on laboratory analytical results and field activities conducted to date, Etech recommends Spur Energy Partners, LLC, provide copies of the *Remediation Summary and Deferral Request* to the appropriate agencies and request deferral be granted to the Tarpan33 Fee #004H Battery Site.

## **7.0 LIMITATIONS**

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

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

## **8.0 DISTRIBUTION**

***Spur Energy Partners, LLC***

*9655 Katy Freeway*

*Suite 500*

*Houston, TX 77024*

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

*Oil Conservation Division, District 2*

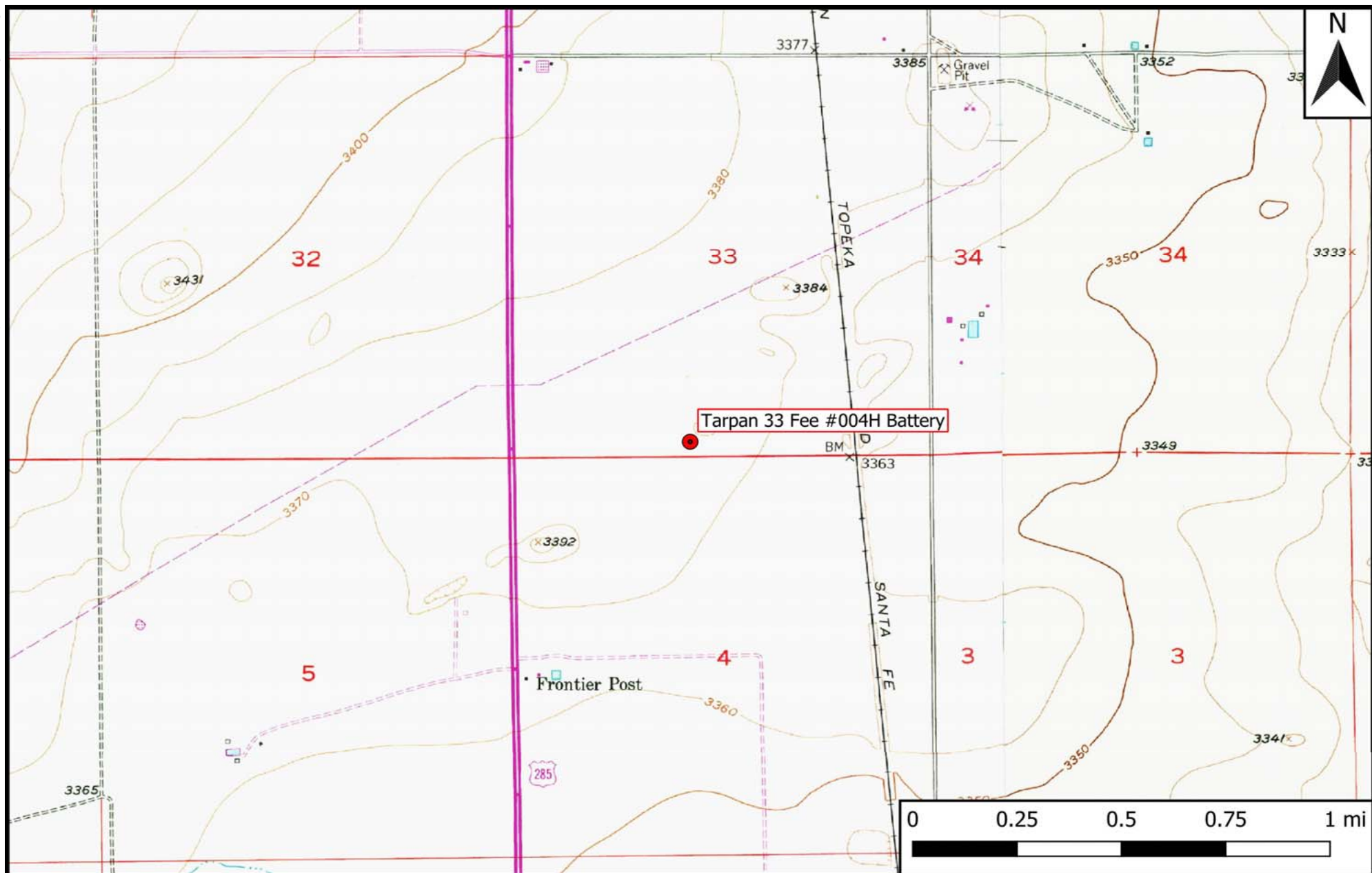
*811 S. First Street*

*Artesia, NM 88210*

*(Electronic Submission)*

# **Figure 1**

## **Topographic Map**



Legend

● Site Location

Figure 1

Topographic Map  
Spur Energy Partners, LLC  
Tarpan 33 Fee #004H Battery  
GPS: 32.697548, -104.388359  
Eddy County



Drafted: mag

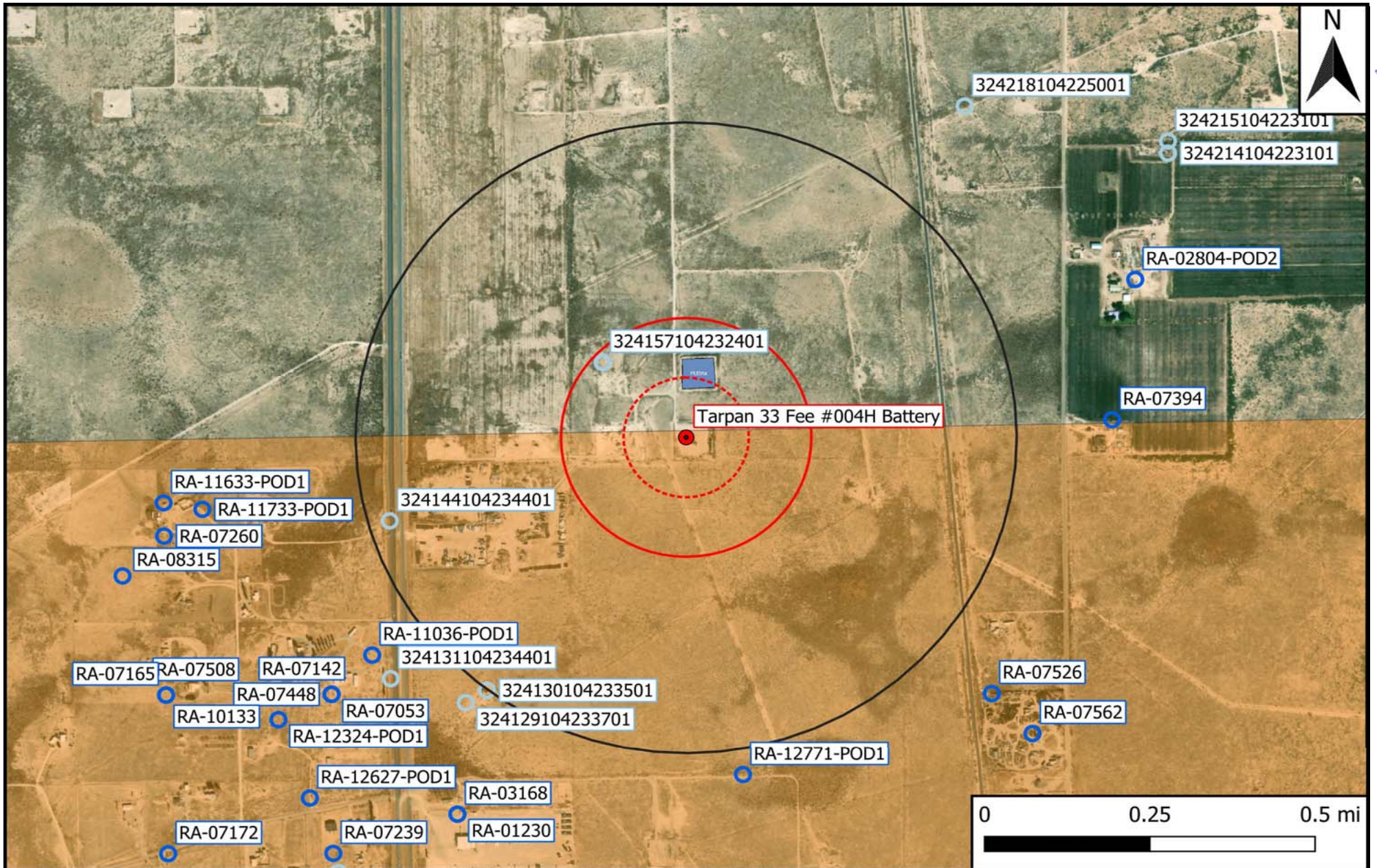
Checked: jwl

Date:

3/1/24

## **Figure 2**

### **Aerial Proximity Map**



- Legend**
- Site Location
  - Well - NMOSE
  - Well - USGS
  - Potash Mine Workings
  - Medium/High Karst
  - - - 500 Ft Radius
  - 1000 Ft Radius
  - 0.5 Mi Radius
  - 1% Annual Flood Chance
  - Lake/Freshwater Pond
  - Emergent/Forested Wetlands
  - Riverine

**Figure 2**  
Aerial Proximity Map  
Spur Energy Partners, LLC  
Tarpan 33 Fee #004H Battery  
GPS: 32.697548, -104.388359  
Eddy County



Drafted: mag      Checked: jwl      Date: 3/1/24

## **Figure 3**

### **Site and Sample Location Map**

**Legend:**

- Sample Point
- Excavated Area

**Figure 3**

Site and Sample Location Map  
Spur Energy Partners, LLC  
Tarpan 33 Fee #004H Battery  
GPS: 32.697548, -104.388359  
Eddy County



Drafted:

Checked: jwl

Date: 2/20/24

**Table 1**  
**Concentrations of BTEX, TPH, and/or Chloride in Soil**

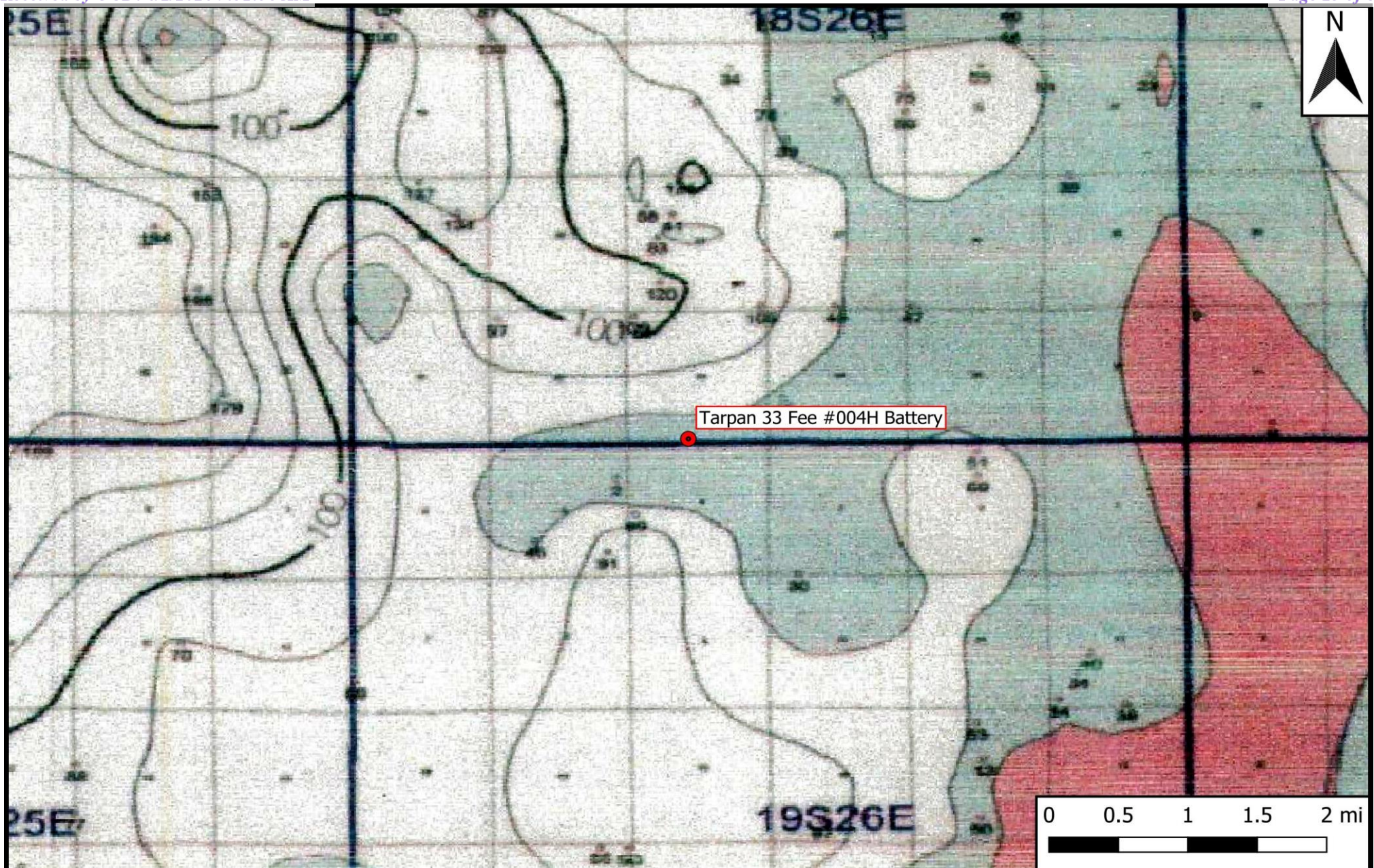
**Table 1**  
**Concentrations of BTEX, TPH, and Chloride in Soil**  
**Spur Energy Partners, LLC**  
**Tarpan 33 Fee #004H Battery**  
**NMOCD Ref. #: nAPP2311043712**

NMOCD Closure Criteria				10	50	-	-	-	-	100	600
NMOCD Reclamation Standard				10	50	-	-	-	-	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C <sub>6</sub> -C <sub>10</sub> (mg/kg)	DRO C <sub>10</sub> -C <sub>28</sub> (mg/kg)	GRO + DRO C <sub>6</sub> -C <sub>28</sub> (mg/kg)	ORO C <sub>28</sub> -C <sub>36</sub> (mg/kg)	TPH C <sub>6</sub> -C <sub>36</sub> (mg/kg)	Chloride (mg/kg)
OS 1 @ 0'	4/28/2023	0	In-Situ	<0.050	<0.300	<10.0	50.9	50.9	12.0	62.9	32.0
OS 1 @ 1'	4/28/2023	1	In-Situ	<0.050	<0.300	<10.0	11.4	11.4	<10.0	11.4	32.0
OS 2 @ 0'	4/28/2023	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
OS 2 @ 1'	4/28/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
V 1 @ 0'	4/28/2023	0	Excavated	2.87	<b>312</b>	5,550	44,900	50,500	8,530	<b>59,000</b>	<b>8,000</b>
V 1 @ 1'	4/28/2023	1	Excavated	0.223	11.7	136	2,380	2,520	816	<b>3,330</b>	<b>5,520</b>
V 1 @ 2'-R	5/24/2023	2	Excavated	<b>13.9</b>	<b>190</b>	719	2,790	3,510	437	<b>3,950</b>	<b>3,680</b>
FL - 1 @ 8.5'	2/6/2024	8.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
EW - 1	2/6/2024	0-8.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	496
SW - 1	2/6/2024	0-8.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
WW - 1	2/6/2024	0-8.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
DEF @ 6"	2/6/2024	0.5	In-Situ	3.50	<b>189</b>	1,760	4,440	6,200	1,040	<b>7,240</b>	<b>1,020</b>
DEF @ 8.5'	2/6/2024	8.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
NH - 1	2/6/2024	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
NH - 1 @ 1'	2/9/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0

Dash (-): Sample not analyzed for that constituent. **Bold:**  
NMOCD Closure Criteria Exceedance. **Red:**  
NMOCD Reclamation Standard exceedance.

## **Appendix A**

### **Depth to Groundwater Information**



## Legend

- Site Location

## Figure 4

Inferred Depth to Groundwater Trend Map  
Spur Energy Partners, LLC  
Tarpan 33 Fee #004H Battery  
GPS: 32.697548, -104.388359  
Eddy County



Drafted: mag

Checked: jwl

Date: 5/8/23



# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
<a href="#">RA 06431</a>		RA	ED	1	1	1	04	19S	26E	556765	3617775*	585	200		

Average Depth to Water: --

Minimum Depth: --

Maximum Depth: --

**Record Count:** 1

### UTMNAD83 Radius Search (in meters):

**Easting (X):** 557331.56

**Northing (Y):** 3617923.21

**Radius:** 804.67

\*UTM location was derived from PLSS - see Help

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


5/8/23 12:52 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER



# New Mexico Office of the State Engineer

## Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)				(quarters are smallest to largest)				(NAD83 UTM in meters)	
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y		
	RA 06431	1	1	1	04	19S	26E	556765	3617775*		
<hr/>											
Driller License: 784		Driller Company:				STEPHENS, RAY WELDING & DRLG.					
Driller Name:											
Drill Start Date: 01/25/1979		Drill Finish Date:				02/07/1979		Plug Date:			
Log File Date: 02/07/1979		PCW Rev Date:				Source:				Shallow	
Pump Type:		Pipe Discharge Size:				Estimated Yield:					
Casing Size:		Depth Well:				200 feet		Depth Water:			
<hr/>											

\*UTM location was derived from PLSS - see Help

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

5/8/23 12:54 PM

POINT OF DIVERSION SUMMARY



# New Mexico Office of the State Engineer

## Transaction Summary

72121 All Applications Under Statute 72-12-1

Transaction Number: 252588

Transaction Desc: RA 06431

File Date: 01/18/1979

Primary Status: PMT Permit

Secondary Status: LOG Well Log Received


Person Assigned: \*\*\*\*\*

Applicant: MRS. ROBERT STEVENSON

### Events

Date	Type	Description	Comment	Processed By
01/18/1979	APP	Application Received		*****
01/18/1979	FIN	Final Action on application		*****
01/18/1979	WAP	General Approval Letter		*****
02/14/1979	LOG	Well Log Received		*****

### Change To:

WR File Nbr	Acres	Diversion	Consumptive	Purpose of Use
RA 06431		3		DOM 72-12-1 DOMESTIC ONE HOUSEHOLD
<b>**Point of Diversion</b>				
RA 06431		557071	3617473*	

\*An (\*) after northing value indicates UTM location was derived from PLSS - see Help

### Conditions

- 1A Depth of the well shall not exceed the thickness of the valley fill.
- 4 Use shall be limited to household, non-commercial trees, lawn and garden not to exceed one acre and/or stock use.

### Action of the State Engineer

\*\* See Image For Any Additional Conditions of Approval \*\*

Approval Code: A - Approved

Action Date: 01/18/1979

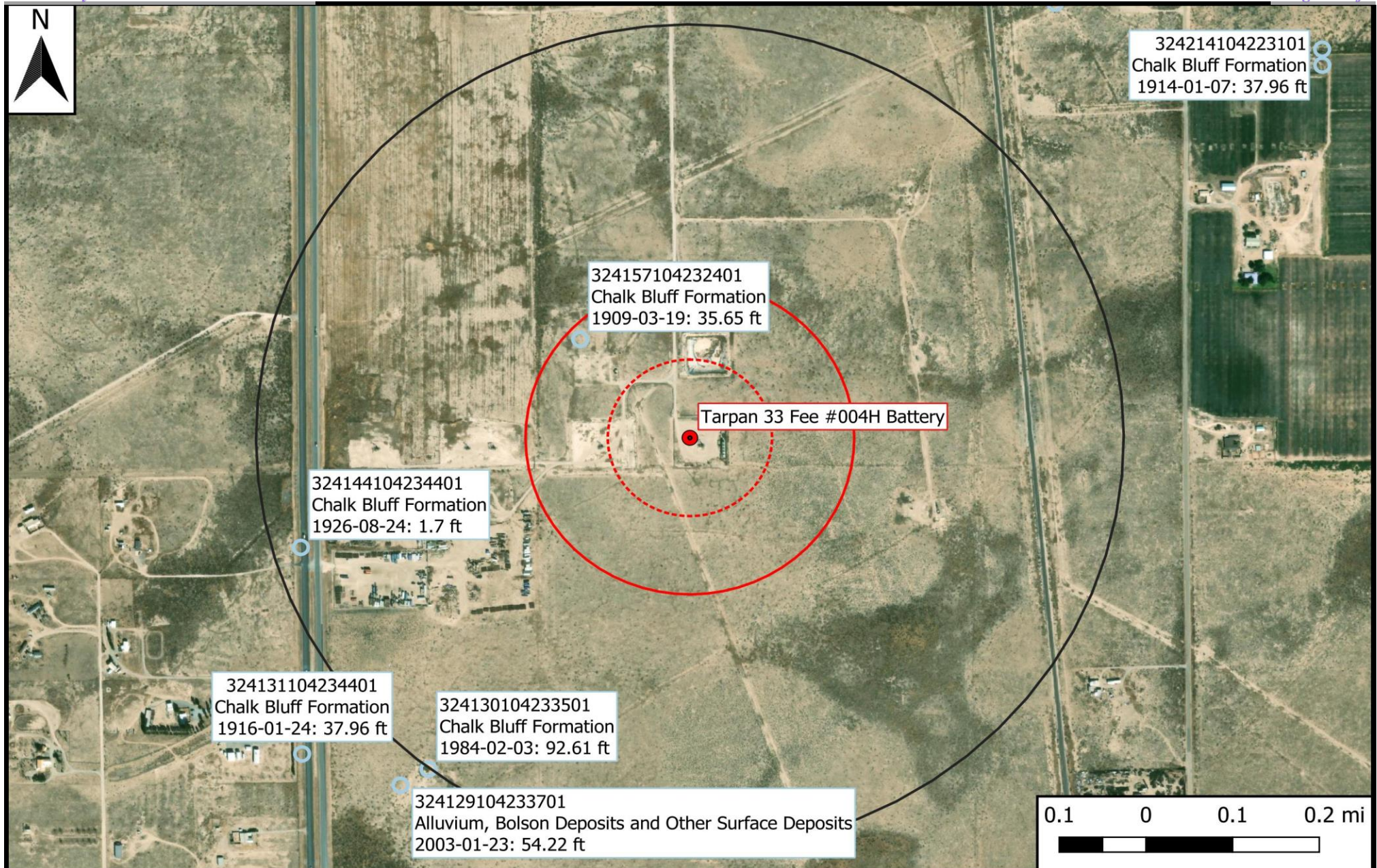
Log Due Date: 01/31/1980

State Engineer:

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

5/8/23 12:54 PM

TRANSACTION  
SUMMARY



## Legend

- Site Location
- Well - USGS
- ⋯ 500 Ft Radius
- ▭ 1000 Ft Radius
- ▭ 0.5 Mi Radius

## Figure 5

USGS Well Proximity Map  
 Spur Energy Partners, LLC  
 Tarpan 33 Fee #004H Battery  
 GPS: 32.697548, -104.388359  
 Eddy County



Drafted: mag

Checked: jwl

Date: 5/8/23



USGS Home  
Contact USGS  
Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater

▼

Geographic Area:

United States

▼

GO

Click forNews Bulletins

Groundwater levels for the Nation

 Important: [Next Generation Monitoring Location Page](#)

Search Results -- 1 sites found

Agency code = usgs

site\_no list =

- 324130104233501

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

USGS 324130104233501 19S.26E.04.311214

Available data for this site

Groundwater:

Field measurements

▼

GO

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°41'30", Longitude 104°23'35" NAD27

Land-surface elevation 3,372 feet above NAVD88

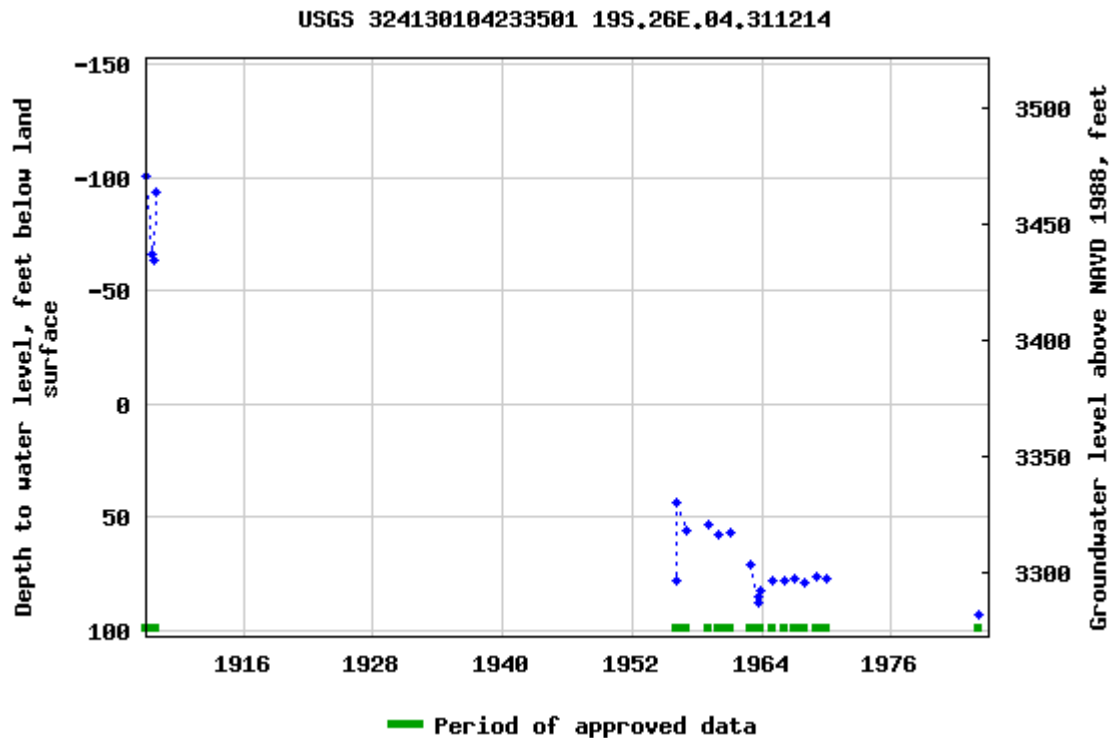
The depth of the well is 705 feet below land surface.

This well is completed in the Roswell Basin aquifer system (S400RSWLBS) national aquifer.

This well is completed in the Grayburg Formation of Artesia Group (313GRBG) local aquifer.

Output formats

<a href="#">Table of data</a>
<a href="#">Tab-separated data</a>
<a href="#">Graph of data</a>
<a href="#">Reselect period</a>



Breaks in the plot represent a gap of at least one year between field measurements.

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**Title: Groundwater for USA: Water Levels**

**URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>**

Page Contact Information: [USGS Water Data Support Team](#)

Page Last Modified: 2023-05-08 14:50:44 EDT

0.6 0.53 nadww02





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## National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater

Geographic Area:

United States

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Groundwater levels for the Nation

 Important: [Next Generation Monitoring Location Page](#)

### Search Results -- 1 sites found

Agency code = usgs

site\_no list =

- 324144104234401

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

### USGS 324144104234401 19S.26E.05.24212

Available data for this site

Groundwater: Field measurements

GO

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°41'44", Longitude 104°23'44" NAD27

Land-surface elevation 3,374 feet above NAVD88

The depth of the well is 666 feet below land surface.

This well is completed in the Roswell Basin aquifer system (S400RSWLBS) national aquifer.

This well is completed in the Grayburg Formation of Artesia Group (313GRBG) local aquifer.

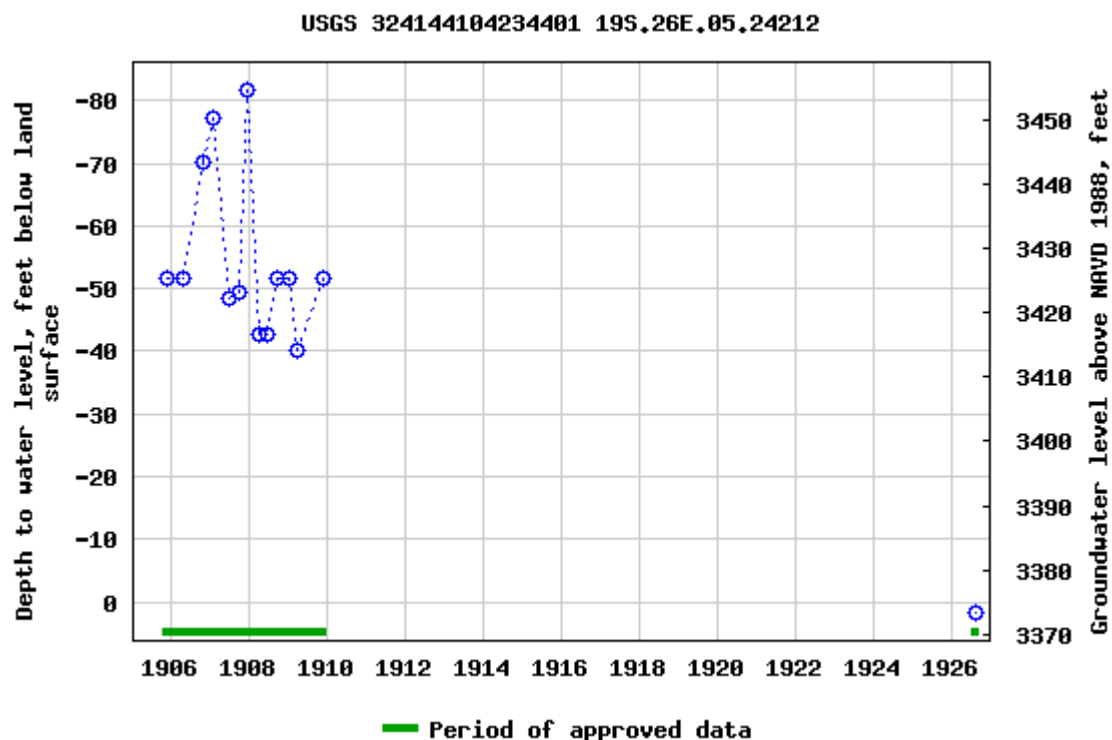
#### Output formats

[Table of data](#)

[Tab-separated data](#)

[Graph of data](#)

[Reselect period](#)



Breaks in the plot represent a gap of at least one year between field measurements.  
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**Title: Groundwater for USA: Water Levels**

**URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>**

Page Contact Information: [USGS Water Data Support Team](#)

Page Last Modified: 2023-05-08 14:50:30 EDT

0.64 0.55 nadww02





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## National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater

Geographic Area:

United States

GO

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Groundwater levels for the Nation

 Important: [Next Generation Monitoring Location Page](#)

### Search Results -- 1 sites found

Agency code = usgs

site\_no list =

- 324157104232401

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

### USGS 324157104232401 19S.26E.04.12111

Available data for this site

Groundwater: Field measurements

GO

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°41'57", Longitude 104°23'24" NAD27

Land-surface elevation 3,377 feet above NAVD88

This well is completed in the Roswell Basin aquifer system (S400RSWLBS) national aquifer.

This well is completed in the Grayburg Formation of Artesia Group (313GRBG) local aquifer.

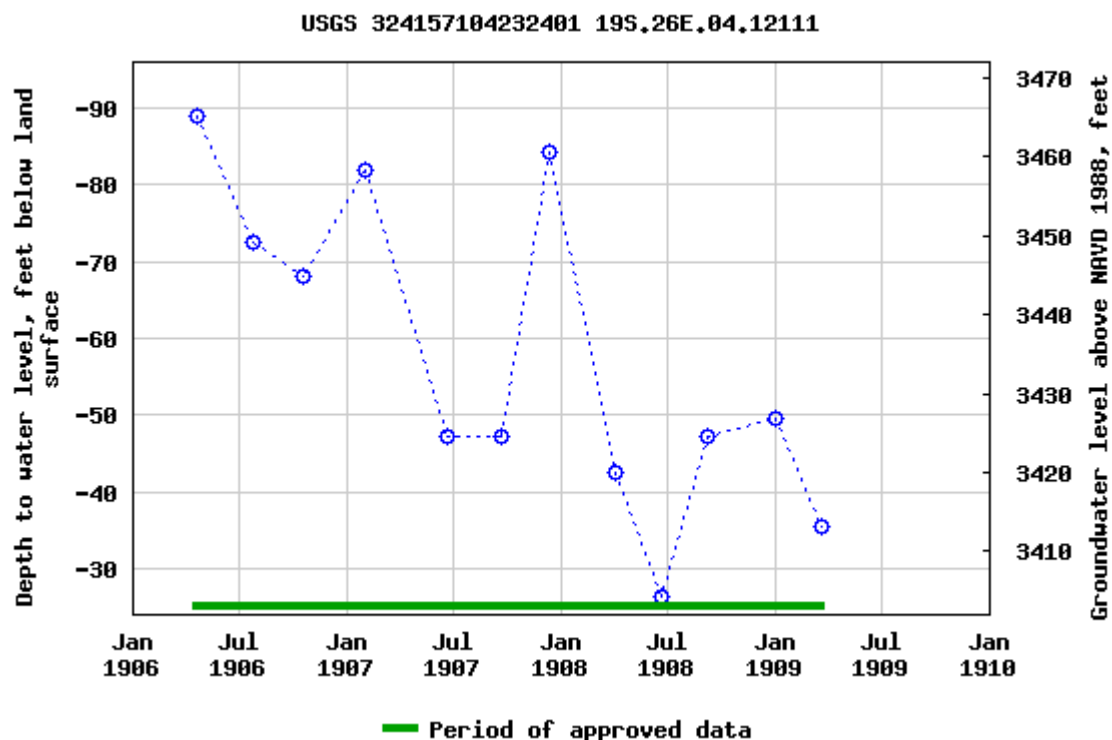
#### Output formats

[Table of data](#)

[Tab-separated data](#)

[Graph of data](#)

[Reselect period](#)



Breaks in the plot represent a gap of at least one year between field measurements.

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**Title: Groundwater for USA: Water Levels**

**URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>**

Page Contact Information: [USGS Water Data Support Team](#)

Page Last Modified: 2023-05-08 14:50:31 EDT

0.65 0.58 nadww02



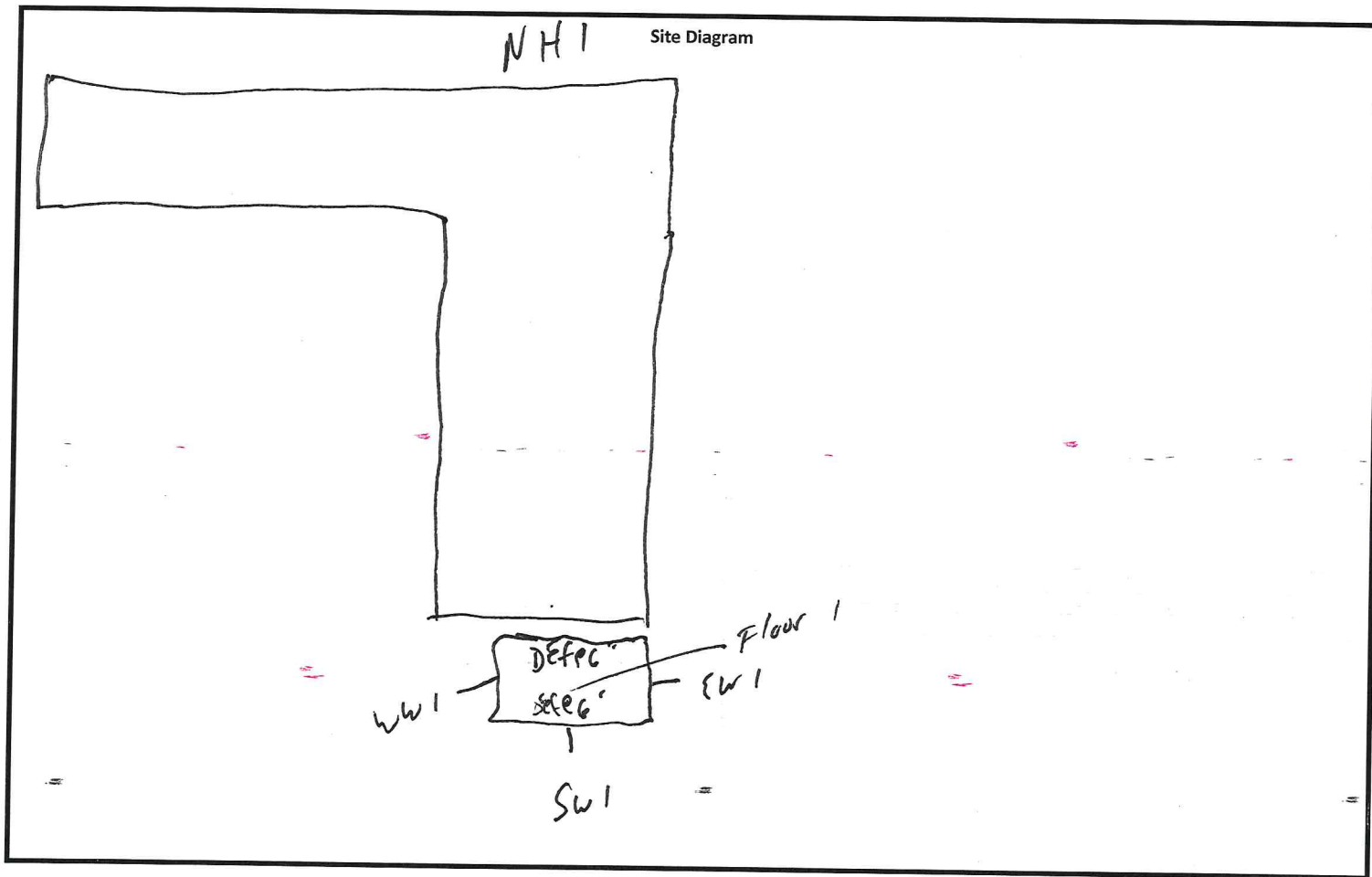
## **Appendix B**

### **Field Data and Soil Profile Logs**



Initial Release Assessment Form

Project: Tarpan 33 Fee #004H Battery      Date: 2/6/24  
Project Number: 18100      Clean Up Level: 0  
Latitude: 32.697548      Longitude: -104.388359



Notes:

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~Length:	~Width:	~Area:	~Depth:	Yes	No
3-4 Representative Pictures of the Affected Area including sample locations?				<input type="checkbox"/>	<input type="checkbox"/>
Necessary Samples Field Screened and on Ice?				<input type="checkbox"/>	<input type="checkbox"/>
Sample and Field Screen Data Entered on Sample Log?				<input type="checkbox"/>	<input type="checkbox"/>
Was horizontal and vertical delineation achieved?				<input type="checkbox"/>	<input type="checkbox"/>

## Sample Log

Date:

2/5/24

Project: Tarpan 33 Fee #004H Battery

Project Number: 18100

Latitude: 32.697548

Longitude: -104.388359

[illegible]

**Sample Point = SP #1 @ ## etc**

Floor = FL #1 etc

Sidewall = SW #1 etc

**Test Trench = TT #1 @ ##**

**Refusal = SP #1 @ 4'-R**

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

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

**Stockpile = Stockpile #1**

### GPS Sample Points, Center of Comp Areas

## **Appendix C**

### **Laboratory Analytical Reports**



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

February 14, 2024

ROBBIE RUNNELS

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: TARPAN 33 FEE #004H BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 02/09/24 12:11.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 ROBBIE RUNNELS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 02/09/2024  
 Reported: 02/14/2024  
 Project Name: TARPAN 33 FEE #004H BATTERY  
 Project Number: 18100  
 Project Location: SPUR - UL / N SEC 33 T18S - R26E

Sampling Date: 02/09/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: NH - 1 @ 1' (H240633-01)**

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	02/10/2024	ND	2.21	111	2.00	13.2	
Toluene*	<0.050	0.050	02/10/2024	ND	2.21	110	2.00	13.3	
Ethylbenzene*	<0.050	0.050	02/10/2024	ND	2.19	109	2.00	13.3	
Total Xylenes*	<0.150	0.150	02/10/2024	ND	6.37	106	6.00	13.6	
Total BTX	<0.300	0.300	02/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 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	02/12/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/09/2024	ND	202	101	200	0.0700	
DRO >C10-C28*	<10.0	10.0	02/09/2024	ND	192	95.9	200	0.524	
EXT DRO >C28-C36	<10.0	10.0	02/09/2024	ND					

Surrogate: 1-Chlorooctane 83.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.8 % 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

Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

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\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

[illegible]

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

---

February 08, 2024

ROBBIE RUNNELS

Etech Environmental &amp; Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: TARPAN 33 FEE #004H BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 02/07/24 8:12.

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/ga/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/ga/lab_accred_certif.html).

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
2617 W MARLAND  
HOBBS NM, 88240

Project: TARPAN 33 FEE #004H BATTERY  
Project Number: 18100  
Project Manager: ROBBIE RUNNELS  
Fax To:

Reported:  
08-Feb-24 13:56

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
NH - 1	H240564-01	Soil	06-Feb-24 13:00	07-Feb-24 08:12
WW - 1	H240564-02	Soil	06-Feb-24 13:05	07-Feb-24 08:12
EW - 1	H240564-03	Soil	06-Feb-24 13:10	07-Feb-24 08:12
SW - 1	H240564-04	Soil	06-Feb-24 13:15	07-Feb-24 08:12
FL - 1 @ 8.5'	H240564-05	Soil	06-Feb-24 13:20	07-Feb-24 08:12
DEF @ 6"	H240564-06	Soil	06-Feb-24 13:25	07-Feb-24 08:12
DEF @ 8.5'	H240564-07	Soil	06-Feb-24 13:30	07-Feb-24 08:12

02/08/24 - Client clarified that sample -06 is DEF @ 6" instead of 6'. This is the revised report and will replace the one sent earlier today, 02/08/24.

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
2617 W MARLAND  
HOBBS NM, 88240

Project: TARPAN 33 FEE #004H BATTERY  
Project Number: 18100  
Project Manager: ROBBIE RUNNELS  
Fax To:

Reported:  
08-Feb-24 13:56

**NH - 1**  
**H240564-01 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>16.0</b>		16.0	mg/kg	4	4020716	HM	07-Feb-24	4500-Cl-B	
-----------------	-------------	--	------	-------	---	---------	----	-----------	-----------	--

**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4020705	JH	07-Feb-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4020705	JH	07-Feb-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4020705	JH	07-Feb-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4020705	JH	07-Feb-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4020705	JH	07-Feb-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			104 %	71.5-134		4020705	JH	07-Feb-24	8021B	
---------------------------------------	--	--	-------	----------	--	---------	----	-----------	-------	--

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4020708	MS	07-Feb-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4020708	MS	07-Feb-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4020708	MS	07-Feb-24	8015B	

Surrogate: 1-Chlorooctane			95.8 %	48.2-134		4020708	MS	07-Feb-24	8015B	
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Surrogate: 1-Chlorooctadecane			89.2 %	49.1-148		4020708	MS	07-Feb-24	8015B	
-------------------------------	--	--	--------	----------	--	---------	----	-----------	-------	--

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
2617 W MARLAND  
HOBBS NM, 88240

Project: TARPAN 33 FEE #004H BATTERY  
Project Number: 18100  
Project Manager: ROBBIE RUNNELS  
Fax To:

Reported:  
08-Feb-24 13:56

**WW - 1****H240564-02 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

**Cardinal Laboratories****Inorganic Compounds**

Chloride	176		16.0	mg/kg	4	4020716	HM	07-Feb-24	4500-Cl-B	
----------	-----	--	------	-------	---	---------	----	-----------	-----------	--

**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4020705	JH	07-Feb-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4020705	JH	07-Feb-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4020705	JH	07-Feb-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4020705	JH	07-Feb-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4020705	JH	07-Feb-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			104 %		71.5-134	4020705	JH	07-Feb-24	8021B	
---------------------------------------	--	--	-------	--	----------	---------	----	-----------	-------	--

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4020708	MS	07-Feb-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4020708	MS	07-Feb-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4020708	MS	07-Feb-24	8015B	

Surrogate: 1-Chlorooctane			82.3 %		48.2-134	4020708	MS	07-Feb-24	8015B	
---------------------------	--	--	--------	--	----------	---------	----	-----------	-------	--

Surrogate: 1-Chlorooctadecane			76.9 %		49.1-148	4020708	MS	07-Feb-24	8015B	
-------------------------------	--	--	--------	--	----------	---------	----	-----------	-------	--

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
2617 W MARLAND  
HOBBS NM, 88240

Project: TARPAN 33 FEE #004H BATTERY  
Project Number: 18100  
Project Manager: ROBBIE RUNNELS  
Fax To:

Reported:  
08-Feb-24 13:56

**EW - 1****H240564-03 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>496</b>		16.0	mg/kg	4	4020716	HM	07-Feb-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	4020705	JH	07-Feb-24	8021B	
Toluene*	<0.050	0.050	mg/kg	50	4020705	JH	07-Feb-24	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	4020705	JH	07-Feb-24	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	4020705	JH	07-Feb-24	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	4020705	JH	07-Feb-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	105 %	71.5-134	4020705	JH	07-Feb-24	8021B
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	4020708	MS	07-Feb-24	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	4020708	MS	07-Feb-24	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	4020708	MS	07-Feb-24	8015B

Surrogate: 1-Chlorooctane	91.5 %	48.2-134	4020708	MS	07-Feb-24	8015B
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Surrogate: 1-Chlorooctadecane	85.4 %	49.1-148	4020708	MS	07-Feb-24	8015B
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Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
2617 W MARLAND  
HOBBS NM, 88240

Project: TARPAN 33 FEE #004H BATTERY  
Project Number: 18100  
Project Manager: ROBBIE RUNNELS  
Fax To:

Reported:  
08-Feb-24 13:56

**SW - 1****H240564-04 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	256		16.0	mg/kg	4	4020716	HM	07-Feb-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4020705	JH	07-Feb-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4020705	JH	07-Feb-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4020705	JH	07-Feb-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4020705	JH	07-Feb-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4020705	JH	07-Feb-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			103 %		71.5-134	4020705	JH	07-Feb-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4020708	MS	07-Feb-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4020708	MS	07-Feb-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4020708	MS	07-Feb-24	8015B	

Surrogate: 1-Chlorooctane			92.4 %		48.2-134	4020708	MS	07-Feb-24	8015B	
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Surrogate: 1-Chlorooctadecane			83.4 %		49.1-148	4020708	MS	07-Feb-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
2617 W MARLAND  
HOBBS NM, 88240

Project: TARPAN 33 FEE #004H BATTERY  
Project Number: 18100  
Project Manager: ROBBIE RUNNELS  
Fax To:

Reported:  
08-Feb-24 13:56

**FL - 1 @ 8.5'**  
**H240564-05 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>208</b>		16.0	mg/kg	4	4020716	HM	07-Feb-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4020705	JH	07-Feb-24	8021B	
<b>Toluene*</b>	<b>0.065</b>		0.050	mg/kg	50	4020705	JH	07-Feb-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4020705	JH	07-Feb-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4020705	JH	07-Feb-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4020705	JH	07-Feb-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			105 %		71.5-134	4020705	JH	07-Feb-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4020708	MS	07-Feb-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4020708	MS	07-Feb-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4020708	MS	07-Feb-24	8015B	

Surrogate: 1-Chlorooctane			102 %		48.2-134	4020708	MS	07-Feb-24	8015B	
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Surrogate: 1-Chlorooctadecane			95.3 %		49.1-148	4020708	MS	07-Feb-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
2617 W MARLAND  
HOBBS NM, 88240

Project: TARPAN 33 FEE #004H BATTERY  
Project Number: 18100  
Project Manager: ROBBIE RUNNELS  
Fax To:

Reported:  
08-Feb-24 13:56

**DEF @ 6"**  
**H240564-06 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>1020</b>		16.0	mg/kg	4	4020716	HM	07-Feb-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

<b>Benzene*</b>	<b>3.50</b>		1.00	mg/kg	1000	4020705	JH	07-Feb-24	8021B	
<b>Toluene*</b>	<b>50.3</b>		1.00	mg/kg	1000	4020705	JH	07-Feb-24	8021B	
<b>Ethylbenzene*</b>	<b>46.8</b>		1.00	mg/kg	1000	4020705	JH	07-Feb-24	8021B	
<b>Total Xylenes*</b>	<b>88.8</b>		3.00	mg/kg	1000	4020705	JH	07-Feb-24	8021B	
<b>Total BTEX</b>	<b>189</b>		6.00	mg/kg	1000	4020705	JH	07-Feb-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			131 %		71.5-134	4020705	JH	07-Feb-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

<b>GRO C6-C10*</b>	<b>1760</b>		50.0	mg/kg	5	4020708	MS	07-Feb-24	8015B	
<b>DRO &gt;C10-C28*</b>	<b>4440</b>		50.0	mg/kg	5	4020708	MS	07-Feb-24	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>1040</b>		50.0	mg/kg	5	4020708	MS	07-Feb-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			125 %		48.2-134	4020708	MS	07-Feb-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			108 %		49.1-148	4020708	MS	07-Feb-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
2617 W MARLAND  
HOBBS NM, 88240

Project: TARPAN 33 FEE #004H BATTERY  
Project Number: 18100  
Project Manager: ROBBIE RUNNELS  
Fax To:

Reported:  
08-Feb-24 13:56

**DEF @ 8.5'**  
**H240564-07 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	176		16.0	mg/kg	4	4020716	HM	07-Feb-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4020705	JH	07-Feb-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4020705	JH	07-Feb-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4020705	JH	07-Feb-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4020705	JH	07-Feb-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4020705	JH	07-Feb-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			104 %	71.5-134		4020705	JH	07-Feb-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4020708	MS	07-Feb-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4020708	MS	07-Feb-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4020708	MS	07-Feb-24	8015B	

Surrogate: 1-Chlorooctane			107 %	48.2-134		4020708	MS	07-Feb-24	8015B	
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Surrogate: 1-Chlorooctadecane			102 %	49.1-148		4020708	MS	07-Feb-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
2617 W MARLAND  
HOBBS NM, 88240

Project: TARPAN 33 FEE #004H BATTERY  
Project Number: 18100  
Project Manager: ROBBIE RUNNELS  
Fax To:

Reported:  
08-Feb-24 13:56

**Inorganic Compounds - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 4020716 - 1:4 DI Water</b>										
<b>Blank (4020716-BLK1)</b>				Prepared & Analyzed: 07-Feb-24						
Chloride	ND	16.0	mg/kg							
<b>LCS (4020716-BS1)</b>				Prepared & Analyzed: 07-Feb-24						
Chloride	432	16.0	mg/kg	400		108	80-120			
<b>LCS Dup (4020716-BSD1)</b>				Prepared & Analyzed: 07-Feb-24						
Chloride	432	16.0	mg/kg	400		108	80-120	0.00	20	

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
2617 W MARLAND  
HOBBS NM, 88240

Project: TARPAN 33 FEE #004H BATTERY  
Project Number: 18100  
Project Manager: ROBBIE RUNNELS  
Fax To:

Reported:  
08-Feb-24 13:56

**Volatile Organic Compounds by EPA Method 8021 - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4020705 - Volatiles****Blank (4020705-BLK1)**

Prepared &amp; Analyzed: 07-Feb-24

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0518		mg/kg	0.0500		104	71.5-134			

**LCS (4020705-BS1)**

Prepared &amp; Analyzed: 07-Feb-24

Benzene	1.93	0.050	mg/kg	2.00		96.5	82.8-130			
Toluene	1.95	0.050	mg/kg	2.00		97.6	86-128			
Ethylbenzene	1.93	0.050	mg/kg	2.00		96.6	85.9-128			
m,p-Xylene	3.93	0.100	mg/kg	4.00		98.2	89-129			
o-Xylene	1.89	0.050	mg/kg	2.00		94.6	86.1-125			
Total Xylenes	5.82	0.150	mg/kg	6.00		97.0	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0510		mg/kg	0.0500		102	71.5-134			

**LCS Dup (4020705-BSD1)**

Prepared &amp; Analyzed: 07-Feb-24

Benzene	2.09	0.050	mg/kg	2.00		105	82.8-130	8.00	15.8	
Toluene	2.11	0.050	mg/kg	2.00		105	86-128	7.62	15.9	
Ethylbenzene	2.09	0.050	mg/kg	2.00		105	85.9-128	7.92	16	
m,p-Xylene	4.24	0.100	mg/kg	4.00		106	89-129	7.63	16.2	
o-Xylene	2.05	0.050	mg/kg	2.00		103	86.1-125	8.16	16.7	
Total Xylenes	6.29	0.150	mg/kg	6.00		105	88.2-128	7.81	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0512		mg/kg	0.0500		102	71.5-134			

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
2617 W MARLAND  
HOBBS NM, 88240

Project: TARPAN 33 FEE #004H BATTERY  
Project Number: 18100  
Project Manager: ROBBIE RUNNELS  
Fax To:

Reported:  
08-Feb-24 13:56

**Petroleum Hydrocarbons by GC FID - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4020708 - General Prep - Organics****Blank (4020708-BLK1)**

Prepared &amp; Analyzed: 07-Feb-24

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	56.8		mg/kg	50.0		114	48.2-134			
Surrogate: 1-Chlorooctadecane	54.5		mg/kg	50.0		109	49.1-148			

**LCS (4020708-BS1)**

Prepared &amp; Analyzed: 07-Feb-24

GRO C6-C10	199	10.0	mg/kg	200		99.6	66.4-123			
DRO >C10-C28	224	10.0	mg/kg	200		112	66.5-118			
Total TPH C6-C28	424	10.0	mg/kg	400		106	77.6-123			
Surrogate: 1-Chlorooctane	61.8		mg/kg	50.0		124	48.2-134			
Surrogate: 1-Chlorooctadecane	73.4		mg/kg	50.0		147	49.1-148			

**LCS Dup (4020708-BSD1)**

Prepared &amp; Analyzed: 07-Feb-24

GRO C6-C10	203	10.0	mg/kg	200		102	66.4-123	2.08	17.7	
DRO >C10-C28	203	10.0	mg/kg	200		101	66.5-118	10.1	21	
Total TPH C6-C28	406	10.0	mg/kg	400		102	77.6-123	4.21	18.5	
Surrogate: 1-Chlorooctane	60.4		mg/kg	50.0		121	48.2-134			
Surrogate: 1-Chlorooctadecane	58.8		mg/kg	50.0		118	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

Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

\*=Accredited Analyte

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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

<b>Company Name:</b> Spur Energy Partners, LLC <b>Project Manager:</b> Robbie Runnels <b>Address:</b> 3100 Plains Hwy <b>City:</b> Lovington <b>State:</b> NM <b>Zip:</b> 88260 <b>Phone #:</b> 575-396-2378 <b>Fax #:</b> 575-396-1429 <b>Project #:</b> 18100 <b>Project Owner:</b> Spur Energy Partners, LLC <b>Project Name:</b> Tarpan 33 Fee #004H Battery <b>Project Location:</b> U/N Sec 33 T18S - R26E <b>Sample Name:</b> Robbie Runnels <b>FOR LAB USE ONLY</b>		<b>BILL TO</b> <b>P.O. #:</b> <b>Company:</b> Spur Energy <b>Attn:</b> Kathy Purvis <b>Address:</b> <b>City:</b> <b>State:</b> <b>Zip:</b> <b>Phone #:</b> <b>Fax #:</b>																																																	
<b>Lab I.D.</b> H01004 <b>Sample I.D.</b>		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="2">MATRIX</th> <th>PRESERV</th> <th>SAMPLING</th> </tr> <tr> <td>(G)RAB OR (C)OMP.</td> <td></td> <td></td> <td></td> </tr> <tr> <td># CONTAINERS</td> <td></td> <td></td> <td></td> </tr> <tr> <td>GROUNDWATER</td> <td></td> <td></td> <td></td> </tr> <tr> <td>WASTEWATER</td> <td></td> <td></td> <td></td> </tr> <tr> <td>SOIL</td> <td></td> <td></td> <td></td> </tr> <tr> <td>OIL</td> <td></td> <td></td> <td></td> </tr> <tr> <td>SLUDGE</td> <td></td> <td></td> <td></td> </tr> <tr> <td>OTHER :</td> <td></td> <td></td> <td></td> </tr> <tr> <td>ACID/BASE:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>ICE / COOL</td> <td></td> <td></td> <td></td> </tr> <tr> <td>OTHER :</td> <td></td> <td></td> <td></td> </tr> </table>		MATRIX		PRESERV	SAMPLING	(G)RAB OR (C)OMP.				# CONTAINERS				GROUNDWATER				WASTEWATER				SOIL				OIL				SLUDGE				OTHER :				ACID/BASE:				ICE / COOL				OTHER :			
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DATE	TIME	Chloride	TPH	BTEX 8021																																															
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**PLEASE NOTE:** Liability and Damages. Cardiac'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 services. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardiac within 30 days after completion of the applicable service. In no event shall Cardiac 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 Cardiac, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

<b>Relinquished By:</b> [Signature] <b>Date:</b> 11/10/04 <b>Time:</b> 1:50	<b>Received By:</b> [Signature] <b>Date:</b> 11/10/04 <b>Time:</b> 1:50
<b>Relinquished By:</b> [Signature] <b>Date:</b> 11/10/04 <b>Time:</b> 1:50	<b>Received By:</b> [Signature] <b>Date:</b> 11/10/04 <b>Time:</b> 1:50

**REMARKS:** Email results to robbie@etechenv.com

RUSIA SAMPLES



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

May 30, 2023

ZACH CONDER

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: TARPAN 33 FEE #004H BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 05/24/23 16:18.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 ZACH CONDER  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 05/24/2023  
 Reported: 05/30/2023  
 Project Name: TARPAN 33 FEE #004H BATTERY  
 Project Number: 18100  
 Project Location: SPUR - UL / N SEC 33 T18S - R26E

Sampling Date: 05/24/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: V 1 @ 2'-R (H232657-01)**

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>13.9</b>	1.00	05/26/2023	ND	2.01	101	2.00	0.329	
<b>Toluene*</b>	<b>72.4</b>	1.00	05/26/2023	ND	2.08	104	2.00	2.03	
<b>Ethylbenzene*</b>	<b>19.6</b>	1.00	05/26/2023	ND	2.01	101	2.00	0.300	
<b>Total Xylenes*</b>	<b>84.5</b>	3.00	05/26/2023	ND	6.18	103	6.00	1.39	
<b>Total BTX</b>	<b>190</b>	6.00	05/26/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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
<b>Chloride</b>	<b>3680</b>	16.0	05/25/2023	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10*</b>	<b>719</b>	50.0	05/25/2023	ND	176	87.8	200	0.899		
<b>DRO &gt;C10-C28*</b>	<b>2790</b>	50.0	05/25/2023	ND	181	90.3	200	0.439		
<b>EXT DRO &gt;C28-C36</b>	<b>437</b>	50.0	05/25/2023	ND						

Surrogate: 1-Chlorooctane 155 % 48.2-134

Surrogate: 1-Chlorooctadecane 133 % 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

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.
- 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

Cardinal Laboratories \*=Accredited Analyte

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Caley D. Keene, Lab Director/Quality Manager



ARDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ettech Environmental & Safety Solutions, Inc.		P.O. #:		ANALYSIS REQUEST															
Project Manager: Zach Conder		Company: SPOR																	
Address: P.O. Box 301		Attn: Kathy Purvis																	
City: Lovington		Address:																	
Phone #: (575) 396-2378		City:																	
Fax #: (575) 396-1429		State:																	
Project #: 18100		Zip:																	
Project Owner: SPUR		Phone #:																	
Project Location: Tarpun 33 Fee # 0044 Battery		Fax #:																	
Sampler Name: [Signature]																			
FOR LAB USE ONLY																			
Lab I.D. H834057	Sample I.D. VI 02-2	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX			PRESERV.	SAMPLING											
				GROUNDWATER					Chloride										
				WASTEWATER					TPH (8015M)										
				SOIL					BTEX (8021B)										
				OIL															
				SLUDGE															
				OTHER :															
				ACID/BASE:															
				ICE / COOL															
				OTHER :															
				DATE	TIME														
				5/24/23	10:15	X	X	Y											
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: 5/24/23	Time: 10:18	Received By: [Signature]		REMARKS:						Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:							
Relinquished By: [Signature]		Date:	Time:	Received By:		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:													
Delivered By: (Circle One) 3.51C-O-U		Sample Condition		CHECKED BY: [Signature]		Please email results to pm@etechnv.com.													
Sampler - UPS - Bus - Other: 3.9. #113		Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>																	
		Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>																	

FORM-006  
Revision 1.0  
† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476



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

May 10, 2023

ZACH CONDER

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: TARPAN 33 FEE #004H BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 05/05/23 10:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 ZACH CONDER  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 05/05/2023  
 Reported: 05/10/2023  
 Project Name: TARPAN 33 FEE #004H BATTERY  
 Project Number: 18100  
 Project Location: SPUR - UL / N SEC 33 T18S - R26E

Sampling Date: 04/28/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: OS 1 @ 0' (H232228-01)**

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	05/08/2023	ND	1.95	97.5	2.00	5.26	
Toluene*	<0.050	0.050	05/08/2023	ND	1.95	97.7	2.00	3.92	
Ethylbenzene*	<0.050	0.050	05/08/2023	ND	2.08	104	2.00	3.79	
Total Xylenes*	<0.150	0.150	05/08/2023	ND	6.13	102	6.00	4.51	
Total BTX	<0.300	0.300	05/08/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/08/2023	ND	400	100	400	3.92	

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	05/08/2023	ND	173	86.6	200	1.79	
DRO >C10-C28*	50.9	10.0	05/08/2023	ND	191	95.4	200	2.81	
EXT DRO >C28-C36	12.0	10.0	05/08/2023	ND					

Surrogate: 1-Chlorooctane 68.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.9 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 ZACH CONDER  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 05/05/2023  
 Reported: 05/10/2023  
 Project Name: TARPAN 33 FEE #004H BATTERY  
 Project Number: 18100  
 Project Location: SPUR - UL / N SEC 33 T18S - R26E

Sampling Date: 04/28/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: OS 1 @ 1' (H232228-02)**

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	05/06/2023	ND	1.95	97.5	2.00	5.26		
Toluene*	<0.050	0.050	05/06/2023	ND	1.95	97.7	2.00	3.92		
Ethylbenzene*	<0.050	0.050	05/06/2023	ND	2.08	104	2.00	3.79		
Total Xylenes*	<0.150	0.150	05/06/2023	ND	6.13	102	6.00	4.51		
Total BTEX	<0.300	0.300	05/06/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	05/08/2023	ND	400	100	400	3.92		

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	05/08/2023	ND	173	86.6	200	1.79	
DRO >C10-C28*	11.4	10.0	05/08/2023	ND	191	95.4	200	2.81	
EXT DRO >C28-C36	<10.0	10.0	05/08/2023	ND					

Surrogate: 1-Chlorooctane 84.4 % 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:**

Etech Environmental & Safety Solutions  
 ZACH CONDER  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 05/05/2023  
 Reported: 05/10/2023  
 Project Name: TARPAN 33 FEE #004H BATTERY  
 Project Number: 18100  
 Project Location: SPUR - UL / N SEC 33 T18S - R26E

Sampling Date: 04/28/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: OS 2 @ 0' (H232228-03)**

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	05/06/2023	ND	1.95	97.5	2.00	5.26		
Toluene*	<0.050	0.050	05/06/2023	ND	1.95	97.7	2.00	3.92		
Ethylbenzene*	<0.050	0.050	05/06/2023	ND	2.08	104	2.00	3.79		
Total Xylenes*	<0.150	0.150	05/06/2023	ND	6.13	102	6.00	4.51		
Total BTEX	<0.300	0.300	05/06/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	05/08/2023	ND	400	100	400	3.92		

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	05/08/2023	ND	173	86.6	200	1.79	
DRO >C10-C28*	<10.0	10.0	05/08/2023	ND	191	95.4	200	2.81	
EXT DRO >C28-C36	<10.0	10.0	05/08/2023	ND					

Surrogate: 1-Chlorooctane 99.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 ZACH CONDER  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 05/05/2023  
 Reported: 05/10/2023  
 Project Name: TARPAN 33 FEE #004H BATTERY  
 Project Number: 18100  
 Project Location: SPUR - UL / N SEC 33 T18S - R26E

Sampling Date: 04/28/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: OS 2 @ 1' (H232228-04)**

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	05/06/2023	ND	1.95	97.5	2.00	5.26		
Toluene*	<0.050	0.050	05/06/2023	ND	1.95	97.7	2.00	3.92		
Ethylbenzene*	<0.050	0.050	05/06/2023	ND	2.08	104	2.00	3.79		
Total Xylenes*	<0.150	0.150	05/06/2023	ND	6.13	102	6.00	4.51		
Total BTEX	<0.300	0.300	05/06/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	05/08/2023	ND	400	100	400	3.92		

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	05/06/2023	ND	159	79.5	200	5.37	
DRO >C10-C28*	<10.0	10.0	05/06/2023	ND	163	81.7	200	6.15	
EXT DRO >C28-C36	<10.0	10.0	05/06/2023	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 ZACH CONDER  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	05/05/2023	Sampling Date:	04/28/2023
Reported:	05/10/2023	Sampling Type:	Soil
Project Name:	TARPAN 33 FEE #004H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	18100	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - UL / N SEC 33 T18S - R26E		

**Sample ID: V 1 @ 0' (H232228-05)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	2.87	2.00	05/06/2023	ND	1.95	97.5	2.00	5.26		
Toluene*	50.1	2.00	05/06/2023	ND	1.95	97.7	2.00	3.92		
Ethylbenzene*	88.7	2.00	05/06/2023	ND	2.08	104	2.00	3.79		
Total Xylenes*	170	6.00	05/06/2023	ND	6.13	102	6.00	4.51		
Total BTEX	312	12.0	05/06/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 129 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	8000	16.0	05/08/2023	ND	400	100	400	3.92			
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*	5550	50.0	05/08/2023	ND	173	86.6	200	1.79			
DRO >C10-C28*	44900	50.0	05/08/2023	ND	191	95.4	200	2.81			
EXT DRO >C28-C36	8530	50.0	05/08/2023	ND							

Surrogate: 1-Chlorooctane 660 % 48.2-134

Surrogate: 1-Chlorooctadecane 1010 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 ZACH CONDER  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	05/05/2023	Sampling Date:	04/28/2023
Reported:	05/10/2023	Sampling Type:	Soil
Project Name:	TARPAN 33 FEE #004H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	18100	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - UL / N SEC 33 T18S - R26E		

**Sample ID: V 1 @ 1' (H232228-06)**

BTEx 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.223</b>	0.200	05/06/2023	ND	1.95	97.5	2.00	5.26	
<b>Toluene*</b>	<b>1.59</b>	0.200	05/06/2023	ND	1.95	97.7	2.00	3.92	
<b>Ethylbenzene*</b>	<b>3.10</b>	0.200	05/06/2023	ND	2.08	104	2.00	3.79	
<b>Total Xylenes*</b>	<b>6.81</b>	0.600	05/06/2023	ND	6.13	102	6.00	4.51	
<b>Total BTEX</b>	<b>11.7</b>	1.20	05/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 138 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>5520</b>	16.0	05/08/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>136</b>	50.0	05/08/2023	ND	173	86.6	200	1.79	
<b>DRO &gt;C10-C28*</b>	<b>2380</b>	50.0	05/08/2023	ND	191	95.4	200	2.81	
<b>EXT DRO &gt;C28-C36</b>	<b>816</b>	50.0	05/08/2023	ND					

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 140 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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### 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.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: Spur Energy Partners, LLC

Project Manager: Zach Conder

Address: 3100 Plains Hwy

City: Lovington

Phone #: 575-396-2378

Project #: 18100

Project Name: Tarpan 33 Fee #004H Battery

Project Location: UL/N Sec 33 T18S - R26E

Sampler Name:

FOR LAB USE ONLY

P.O. #:

Company: Spur Energy Partners

Attn: Kathy Purvis

Address:

City:

State:

Phone #:

Fax #:

MATRIX

PRESERV.

SAMPLING

Lab I.D.

Sample I.D.

(G)RAB OR (C)OMP.

# CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

Chloride

TPH

BTEX 8021

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Relinquished By:

Date: 5-5-23

Received By:

Phone Result:

Yes

No

Add'l Phone #:

Fax Result:

Yes

No

Add'l Fax #:

Relinquished By:

Date: 5/10/10

Received By:

Phone Result:

Yes

No

Add'l Phone #:

Fax Result:

Yes

No

Add'l Fax #:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Sample Condition

CHECKED BY: (Initials)

Phone Result:

Yes

No

Add'l Phone #:

Fax Result:

Yes

No

Add'l Fax #:

REMARKS: Email results to zach@etechnv.com

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


## **Appendix D**

### **Photographic Log**

## Photographic Log



Photographic Log

<b>Photo Number:</b> #3		Feb 6, 2024 at 11:39:25 AM +32.697086, -104.387752 286° W Artesia NM 88210 United States
<b>Photo Direction:</b> East		
<b>Photo Description:</b>  Excavation		

<b>Photo Number:</b> #4		Feb 6, 2024 at 11:40:31 AM +32.697172, -104.387807 198° S Artesia NM 88210 United States
<b>Photo Direction:</b> Southeast		
<b>Photo Description:</b>  Excavation		

# Photographic Log



## **Appendix E**

### **Liner Integrity Form**



# Liner Integrity Inspection Report

Company: Spur Energy Site Name: Tarpan 33 Fee #004  
 Project #: \_\_\_\_\_ Inspection Tech: Robbie Runnels Date: 2/6/24

## Visual Inspection

Type of Secondary Containment		Containment Status	
Earthen	<input type="checkbox"/> Cement	<input type="checkbox"/> Free Fluid	<input type="checkbox"/> Traces of Leak Inside
Lined	<input checked="" type="checkbox"/> Coated Fabrics/Laminates	<input type="checkbox"/> Intermittent Pooling	<input type="checkbox"/> Traces of Leak Outside
Steel	<input checked="" type="checkbox"/> Other _____	<input checked="" type="checkbox"/> Intact	<input checked="" type="checkbox"/> Dry

## Observations

### Environmental Damage

Damage from animals or vegetation compromising liner integrity ☐

Discoloration, erosion, or chemical degradation of the liner ☐

Degradation from the storm water flow or erosion of containment ☐

### Comments

NA  
NA  
NA

### Physical Damage

Cracks, holes, bulges, stains, chips, or seepages in the liner system ☐

Improper or deferred maintenance of the liner system ☐

Dike wall, foundation, or embankment movement, settlement, or deterioration compromising liner integrity ☐

Degradation of the liner system at penetrations (piping, supports, wells, foundations, pads, etc.) ☐

Damage to the liner system from equipment, vehicles, foot traffic, etc. ☐

Evidence of foundation movement, settlement, or deterioration ☐

### Comments


\*Please take pictures of any type of damage (holes, etc.)

NA  
NA  
NA  
NA  
NA  
NA

## Photographic Log



## Photographic Log

<b>Photo Number:</b> #3	 <p>Feb 6, 2024 at 11:41:37 AM +32.697235,-104.387709 266° W Artesia NM 88210 United States</p>
<b>Photo Direction:</b> West	
<b>Photo Description:</b>  Liner not compromised	

<b>Photo Number:</b> #4	 <p>Feb 6, 2024 at 11:42:03 AM +32.697432,-104.387685 320° NW Artesia NM 88210 United States</p>
<b>Photo Direction:</b> Northwest	
<b>Photo Description:</b>  Liner not compromised	

## **Appendix F**

### **Correspondence**

**Robbie Runnels**

---

**From:** OCDOnline@state.nm.us  
**Sent:** Tuesday, January 30, 2024 2:33 PM  
**To:** Robbie Runnels  
**Subject:** The Oil Conservation Division (OCD) has accepted the application, Application ID: 309605

You don't often get email from ocdonline@state.nm.us. [Learn why this is important](#)

To whom it may concern (c/o Robbie Runnels for Spur Energy Partners LLC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release (C-141N)*, for incident ID (n#) nAPP2311043712.

The sampling event is expected to take place:

**When:** 02/06/2024 @ 12:00

**Where:** N-33-18S-26E 0 FNL 0 FEL (32.69754,-104.38835)

**Additional Information:** Martin Sepulveda will be sampling. 432-305-7322

**Additional Instructions:** From the intersection of Co Rd 38 and US-285 (GPS: 32.711612, -104.395745), head E on Co Rd 38 for 0.61 mi, then S for 0.11 mi, then SW for 0.97 mi, then SE for 0.03 mi to arrive at the Tarpan Fee 33 #004H pad (GPS: 32.697548, -104.388359).

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

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

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

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

**Robbie Runnels**

---

**From:** OCDOnline@state.nm.us  
**Sent:** Tuesday, January 30, 2024 2:30 PM  
**To:** Robbie Runnels  
**Subject:** The Oil Conservation Division (OCD) has accepted the application, Application ID: 309586

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To whom it may concern (c/o Robbie Runnels for Spur Energy Partners LLC),

The OCD has received the submitted *Notification for Liner Inspection for a Release* (C-141L), for incident ID (n#) nAPP2311043712.

The liner inspection is expected to take place:

**When:** 02/06/2024 @ 10:00

**Where:** N-33-18S-26E 0 FNL 0 FEL (32.69754,-104.38835)

**Additional Information:** Liner to be inspected by Etech Environmental. Contact number is 432-282-9143.

**Additional Instructions:** From the intersection of Co Rd 38 and US-285 (GPS: 32.711612, -104.395745), head E on Co Rd 38 for 0.61 mi, then S for 0.11 mi, then SW for 0.97 mi, then SE for 0.03 mi to arrive at the Tarpan Fee 33 #004H pad (GPS: 32.697548, -104.388359).

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, liner inspection pursuant to 19.15.29.11.A(5)(a) NMAC is required. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of 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.**

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

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

**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 328794

QUESTIONS

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 328794
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2311043712
Incident Name	NAPP2311043712 TARPAN 33 FEE #004H BATTERY @ 30-015-41662
Incident Type	Release Other
Incident Status	Deferral Request Received
Incident Well	[30-015-41662] TARPAN 33 FEE #004H

Location of Release Source	
Please answer all the questions in this group.	
Site Name	TARPAN 33 FEE #004H BATTERY
Date Release Discovered	04/19/2023
Surface Owner	Private

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Cause: Overflow - Tank, Pit, Etc.   Tank (Any)   Crude Oil   Released: 29 BBL   Recovered: 28 BBL   Lost: 1 BBL.
Produced Water Released (bbls) Details	Cause: Overflow - Tank, Pit, Etc.   Tank (Any)   Produced Water   Released: 29 BBL   Recovered: 29 BBL   Lost: 0 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	FAILURE OF A WATER TRANSFER PUMP CAUSED A TANK TO OVERFLOW INTO LINED CONTAINMENT WITH A SMALL AREA OF OVERSPRAY IN PASTURE

**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, Page 2

Action 328794

**QUESTIONS (continued)**

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID:
	328947
	Action Number:
	328794
Action Type:	
[C-141] Deferral Request C-141 (C-141-v-Deferral)	

**QUESTIONS**

Nature and Volume of Release (continued)	
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	N/A

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: Katherine Purvis Title: EHS Coordinator Email: katherine.purvis@spurenergy.com Date: 04/02/2024
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QUESTIONS, Page 3

Action 328794

**QUESTIONS (continued)**

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID:
	328947
	Action Number: 328794
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

**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 26 and 50 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between ½ and 1 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between ½ and 1 (mi.)
Any other fresh water well or spring	Between ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 500 and 1000 (ft.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Zero feet, overlying, or within area
Categorize the risk of this well / site being in a karst geology	High
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

**Remediation Plan**

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

Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report 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.	
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)	8000
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	58980
GRO+DRO (EPA SW-846 Method 8015M)	50450
BTEX (EPA SW-846 Method 8021B or 8260B)	312
Benzene (EPA SW-846 Method 8021B or 8260B)	2.9

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	02/06/2024
On what date will (or did) the final sampling or liner inspection occur	02/06/2024
On what date will (or was) the remediation complete(d)	02/06/2024
What is the estimated surface area (in square feet) that will be reclaimed	150
What is the estimated volume (in cubic yards) that will be reclaimed	60
What is the estimated surface area (in square feet) that will be remediated	150
What is the estimated volume (in cubic yards) that will be remediated	60

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 328794

**QUESTIONS (continued)**

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID:	328947
	Action Number:	328794
	Action Type:	[C-141] Deferral Request C-141 (C-141-v-Deferral)

**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	LEA LAND LANDFILL [fEEM0112342028]
<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: Katherine Purvis Title: EHS Coordinator Email: katherine.purvis@spurenergy.com Date: 04/02/2024
--	--

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 328794

**QUESTIONS (continued)**

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID:	328947
	Action Number:	328794
	Action Type:	[C-141] Deferral Request C-141 (C-141-v-Deferral)

**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	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Is the remaining contamination in areas immediately under or around production equipment where remediation could cause a major facility deconstruction	Yes
Please list or describe the production equipment and how (re)moving the equipment would cause major facility deconstruction	PIPING AND OTHER EQUIPMENT CANNOT BE REMOVED OR MOVED BECAUSE THEY ARE IN USE AND NECESSARY FOR PROPER USE
What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted	10
What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted	3
Per Paragraph (2) of Subsection C of 19.15.29.12 NMAC if contamination is located in areas immediately under or around production equipment such as production tanks, wellheads and pipelines where remediation could cause a major facility deconstruction, the remediation, restoration and reclamation may be deferred with division written approval until the equipment is removed during other operations, or when the well or facility is plugged or abandoned, whichever comes first.	
Enter the facility ID (f#) on which this deferral should be granted	Not answered.
Enter the well API (30-) on which this deferral should be granted	30-015-41662 TARPAN 33 FEE #004H
Contamination does not cause an imminent risk to human health, the environment, or groundwater	True
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: Katherine Purvis Title: EHS Coordinator Email: katherine.purvis@spurenergy.com Date: 04/02/2024

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QUESTIONS, Page 6  
  
Action 328794

**QUESTIONS (continued)**

Operator:  Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID:	328947
	Action Number:	328794
	Action Type:	[C-141] Deferral Request C-141 (C-141-v-Deferral)

**QUESTIONS**

Sampling Event Information	
Last sampling notification (C-141N) recorded	309605
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/06/2024
What was the (estimated) number of samples that were to be gathered	5
What was the sampling surface area in square feet	200

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	No

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CONDITIONS  
  
Action 328794

CONDITIONS

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 328794
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

CONDITIONS

Created By	Condition	Condition Date
scwells	Deferral approved. Deferral of sidewall sample DEF @ 6" (along edge of tank battery) is approved until plugging and abandonment or a major facility deconstruction, whichever comes first. A complete and accurate remediation report and/or reclamation report will need to be submitted at that time.	4/19/2024