

Remediation Summary & Soil Closure Request

Permian Resources

Woody CTB 1

Lea County, New Mexico

Unit Letter K, Section 22, Township 20 South, Range 35 East

Latitude 32.55729 North, Longitude 103.44071 West

NMOCD Reference No. nAPP2411548875

Prepared By:

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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 Permian Resources, has prepared this *Remediation Summary & Soil Closure Request* for the release site known as the Woody CTB 1 (henceforth, "Site"). Details of the release are summarized below:

Location of Release Source

Latitude: 32.55729 Longitude: -103.44071

Provided GPS are in WGS84 format.

Site Name:	Woody CTB 1	Site Type:	Tank Battery
Date Release Discovered:	4/24/2024	API # (if applicable):	N/A

Unit Letter	Section	Township	Range	County
K	22	20S	35E	Lea

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (Name Simms Ranch)

Nature and Volume of Release

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 34	Volume Recovered (bbls) 4
	Is the concentration of dissolved chloride in the produced water > 10,000 mg/L?	<input checked="" type="checkbox"/> Yes <input 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: Normal Operations		

Initial Response

<input checked="" type="checkbox"/> The source of the release has been stopped.
<input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment.
<input checked="" type="checkbox"/> Release materials have been contained via the use of berms or dikes, absorbent pad, or other containment devices
<input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.

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

2.0 SITE CHARACTERIZATION

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (bgs)?	Between 51 and 75 (ft.)
What method was used to determine the depth to groundwater?	NM OSE iWaters Database Search
Did the release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
What is the minimum distance between the closest lateral extents of the release and the following surface areas?	
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 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	Between 1 and 5 (mi.)
Any other fresh water well or spring?	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field?	Greater than 5 (mi.)
A wetland?	Between 1 and 5 (mi.)
A subsurface mine?	Greater than 5 (mi.)
A (non-karst) unstable area?	Greater than 5 (mi.)
Categorize the risk of this well/site being in a karst geology.	Low
A 100-year floodplain?	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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.

Additional NMOCD Siting Criteria data was gathered from available resources including Bureau of Land Management (BLM) and Fish and Wildlife Services (FWS) shapefiles; topographic maps; NMOSE and USGS databases; and aerial imagery. The results are depicted in Figures 1, 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**‡
Between 51 and 75 (ft.)	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	N/A	N/A
	Benzene	EPA SW-846 Methods 8021b or 8260b	10	10
	Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX)	EPA SW-846 Methods 8021b or 8260b	50	50

* Measured in milligrams per kilogram (mg/kg)

** Environmental Protection Agency

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

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

4.0 INITIAL SITE ASSESSMENT

On August 14, 2024, Etech conducted an initial site assessment. During the initial site assessment, a total of eight (8) hand-augured soil bores (EH, WH, SH, NH, SP 1 through SP 4) were advanced along the inferred margins of the release in an effort to determine the horizontal extent of impacted soil. During the advancement of the hand-augured soil bores, soil samples were collected and field-screened for the presence of Volatile Organic Compounds (VOCs) utilizing olfactory/visual senses and/or concentrations of chloride utilizing a Hach Quantab ® chloride test kit.

Based on field observations and field test data, sixteen (16) delineation soil samples (EH @ SUR, EH @ 1', NH @ SUR, NH @ 1', SH @ SUR, SH @ 1', WH @ SUR, WH @ 1', SP 1 @ SUR, SP 1 @ 1', SP 2 @ SUR, SP 2 @ 2', SP 3 @ SUR, SP 3 @ 1', SP 4 @ SUR, SP 4 @ 1') were submitted to a certified, commercial laboratory (henceforth, "the laboratory") for analysis of BTEX, TPH, and chloride. A review of laboratory analytical results indicated that BTEX and TPH concentrations were below the NMOCD Closure Criteria in each of the submitted soil samples. Chloride concentrations were below the NMOCD Closure Criteria in each of the submitted soil samples with the exception of Samples SP 1 @ SUR through SP 4 @ SUR. Based on the laboratory analytical results, the vertical and horizontal extent of impacted soil was adequately defined.

5.0 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 will (or did) the remediation commence?	9/16/2024
On what date will (or did) the final sampling or liner inspection occur?	9/18/2024
On what date will (or was) the remediation complete(d)?	10/1/2024
What is the total surface area (sq. ft.) in need of or that will <i>eventually</i> be reclaimed?	8,700
What is the total volume (cy) in need of or that will <i>eventually</i> be reclaimed?	400
What was the total surface area (sq. ft.) that has or will be remediated?	8,700
What was the total volume (cy) that has or will be remediated?	400
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?	Lea Land, Inc.
NMOCD Disposal Facility ID?	fEEM0112342028
Summarize any additional remediation activities not included by answers above.	See below

On September 16, 2024, Etech commenced remediation activities at the Site. In accordance with NMOCD regulatory guidelines, impacted soil affected above the NMOCD Closure Criteria and/or NMOCD Reclamation Standards was excavated and stockpiled on-site, pending transfer to an NMOCD-permitted surface waste facility for disposal. Olfactory/visual senses and/or a chloride test kit were utilized to field-screen the horizontal and vertical extent of impacted soil and to guide the excavation. The sidewalls and floor of the excavation were advanced until field tests and field observations suggested that BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standards. Representative five-point composite confirmation soil samples were collected every 200 square feet from the sidewalls and floor of the excavated area to be submitted for laboratory analysis. A summary of soil sampling events is provided below:

Constituent	Highest Observable Concentration	Sample ID	Sample Date	Sample Depth (ft bgs)	Soil Status
Chloride	54,000	SP 1 @ SUR	8/14/2024	0	In-Situ
TPH	48.1	SP 3 @ SUR	8/14/2024	0	In-Situ
GRO+DRO	48.1	SP 3 @ SUR	8/14/2024	0	In-Situ
BTEX	<0.300	All submitted samples	8/14 - 9/25/2024	0 - 2	In-Situ
Benzene	<0.050	All submitted samples	8/14 - 9/25/2024	0 - 2	In-Situ

Please reference Table 1 for additional information.

On September 16, 2024, Etech collected twenty-one (21) confirmation soil samples (FL 1 - FL 18, FL 20 - FL 22) from the floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples with the exception of FL 6 @ 8" that had elevated chloride concentrations.

On September 18, 2024, Etech collected thirty-two (32) confirmation soil samples (FL 19, FL 23 - FL 45, EW 1, EW 2, WW 1, WW 2, NW 1, NW 2, SW 1, SW 2) from the floor and sidewalls of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples.

On September 25, 2024, Etech deepened the excavation in the area represented by soil sample FL 6 @ 8". Etech collected one confirmation soil sample (FL 6 @ 1') from the floor of the excavated area. The soil sample was submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria as well as the NMOCD Reclamation Standards for the submitted soil sample.

The final dimensions of the excavated area were approximately eighty (80) to one-hundred fifty-five (155) feet in length, forty-four (44) to eighty-three (83) feet in width, and three quarters (0.75) to one and one-half (1.5) feet in depth. During the course of remediation activities, Etech transported approximately 400 cubic yards of impacted soil to an NMOCD-permitted surface waste facility for disposal and imported approximately 420 cubic yards of locally sourced, non-impacted material to the site for use as backfill.

Soil sample locations and the extent of the excavated area are depicted in Figure 3, "Sample Location Map". Soil chemistry data is summarized in Table 1. Field data is provided in Appendix B. Laboratory analytical reports are provided in Appendix C. General photographs of the site are provided in Appendix D. Copies of all regulatory correspondence are provided in Appendix E.

6.0 SOIL CLOSURE REQUEST

Requesting a deferral of remediation closure due date with the approval of this submission?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Requesting a remediation closure 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
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the site's existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion.	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
What was the total surface area (sq. ft.) remediated?	8,700	
What was the total volume (cy) remediated?	400	

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

Based on laboratory analytical results and field activities conducted to date, Etech recommends Permian Resources provide copies of *this Remediation Summary & Soil Closure Request* to the appropriate agencies and request remediation closure approval be granted to the Site.

7.0 RESTORATION, RECLAMATION & 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
Requesting a reclamation approval with this submission?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Requesting a restoration complete approval with this submission?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
What was the total surface area (in square feet) reclaimed?	8,700	
What was the total volume (in cubic yards) reclaimed?	400	

On September 18, 2024, in accordance with NMOCD requirements, a 5-point composite soil sample (Simms Backfill Pit) was collected from the imported material stockpiled on-site to be utilized as backfill. The soil sample was submitted to the laboratory for analysis of BTEX, TPH, and chloride concentrations. Laboratory analytical results indicated that the BTEX, TPH, and chloride concentrations in the soil sample were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards and confirmed that the material was acceptable for use as backfill.

On October 2, 2024, upon receiving laboratory analytical results from confirmation soil samples, the excavated area was backfilled with locally sourced, non-impacted "like" material placed at or near original relative positions. The affected areas were contoured and/or compacted to achieve erosion control, stability and preservation of surface water flow to the extent practicable.

The release was limited to the production pad of an active tank battery and did not impact the adjacent pasture. Final reclamation will be conducted upon decommissioning and abandonment of the facility. The reclaimed area will be revegetated with a certified weed-free, land-owner approved, seed mix free of noxious weeds during the first favorable growing season following closure of the facility. The seed will be installed at the prescribed rate utilizing either a seed drill or a broadcaster and harrow.

8.0 LIMITATIONS

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

This report has been prepared for the benefit of Permian Resources. Use of the information contained in this report is prohibited without the consent of Etech and/or Permian Resources.

9.0 DISTRIBUTION

Permian Resources

*300 N. Marienfeld St. Suite 100
Midland, TX 79701*

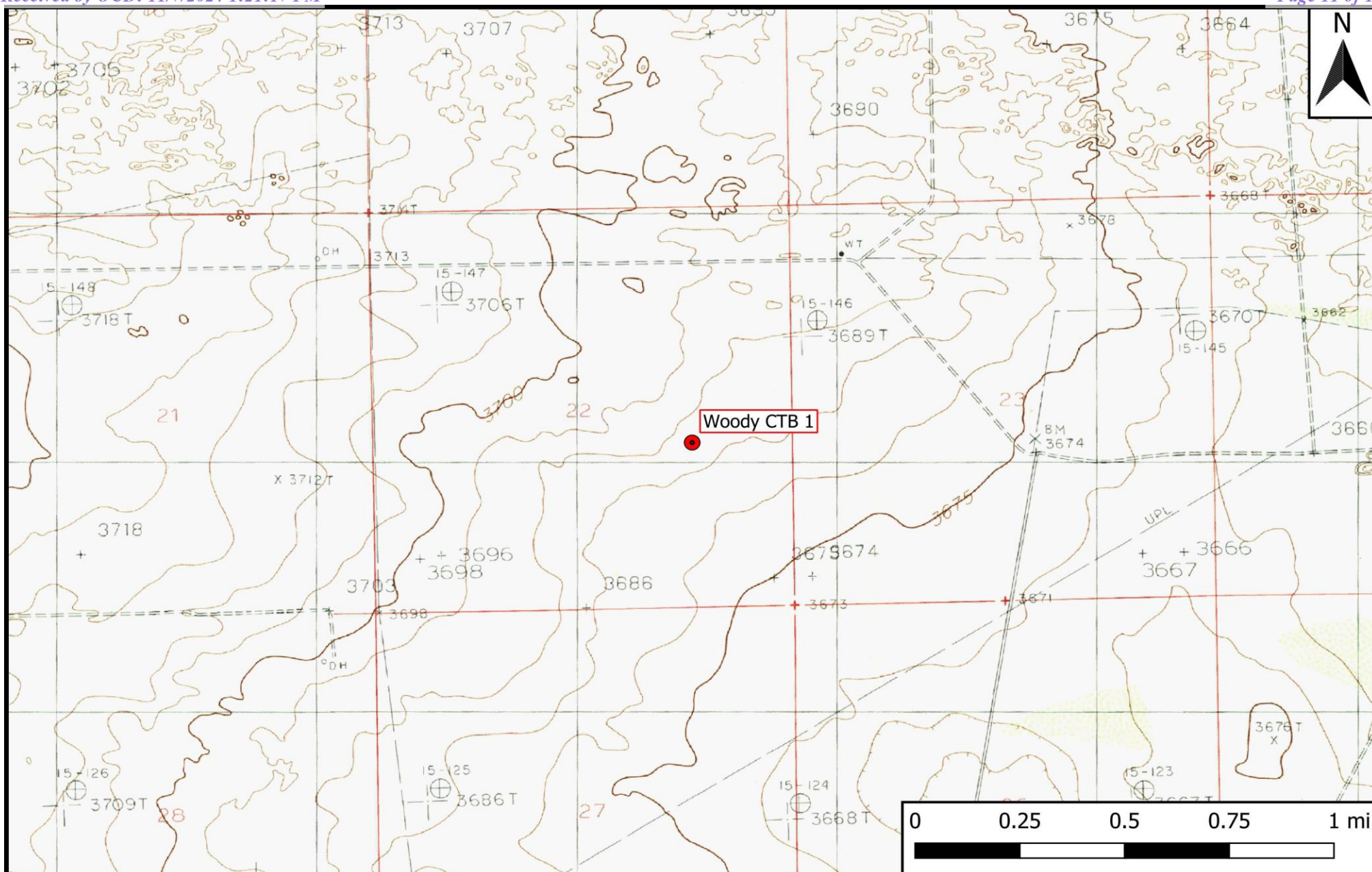
New Mexico Energy, Minerals and Natural Resources Department

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

(Electronic Submission)

Figure 1

Site Location Map



Legend

- Site Location

Figure 1
Topographic Map
Permian Resources
Woody CTB 1
GPS: 32.55729, -103.44071
Lea County



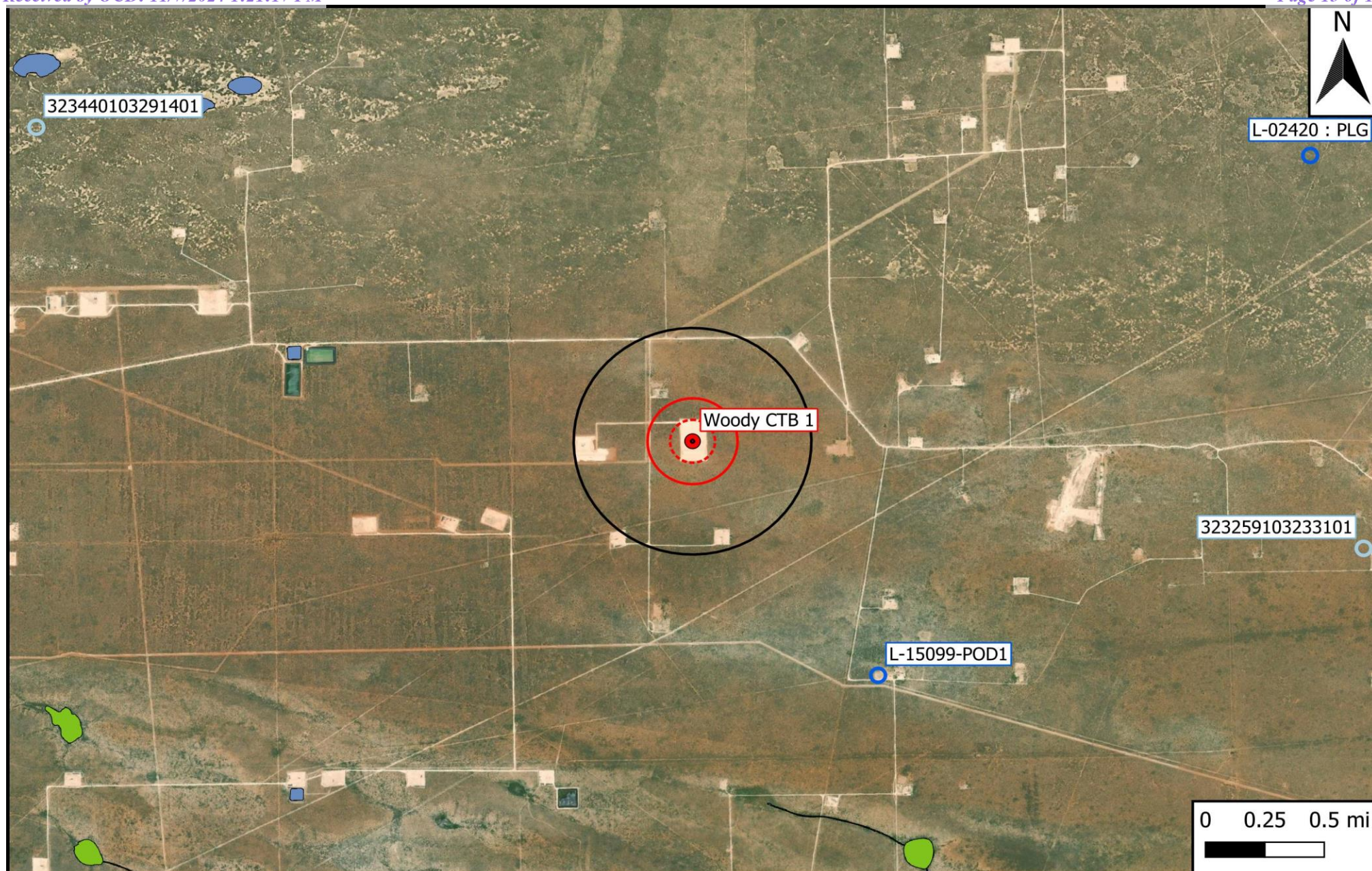
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Checked: jwl

Date: 8/20/24

Figure 2

Aerial Proximity Map



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

Figure 2
Aerial Proximity Map
Permian Resources
Woody CTB 1
GPS: 32.55729, -103.44071
Lea County

eTECH
Environmental & Safety Solutions, Inc.

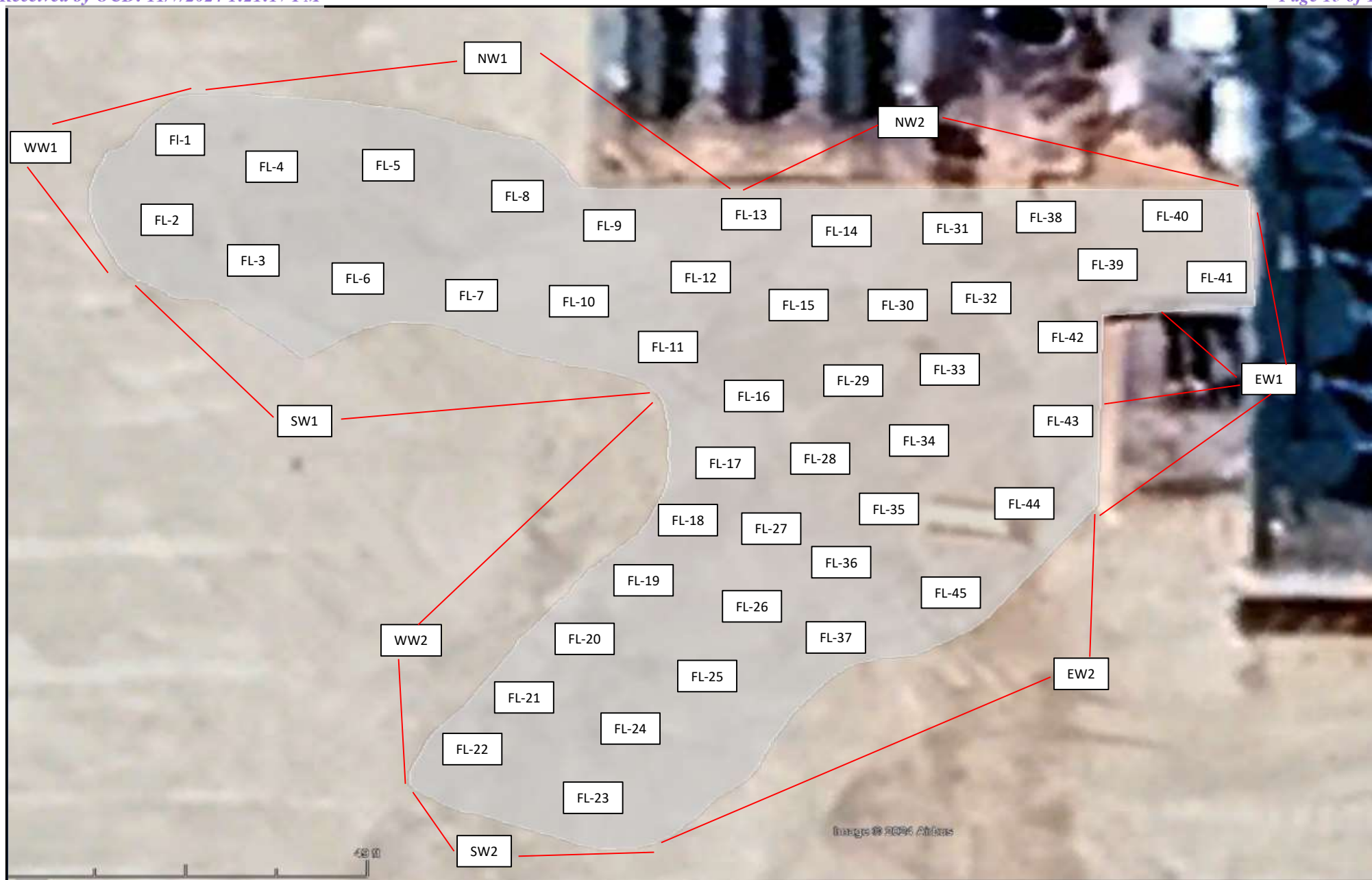
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Date: 8/20/24

Figure 3

Site and Sample Location Map



Legend:



Sample Point



Excavated Area

Figure 3

Site and Sample Location Map
 Permian Resources
 Woody CTB 1
 GPS: 32.55729, -103.44071
 Lea County

eTECH

Environmental & Safety Solutions, Inc.



Drafted: rr

Checked: jwl

Date:

9/25/24

Table 1
Concentrations of BTEX, TPH, and Chloride in Soil

Table 1
Concentrations of BTEX, TPH, and Chloride in Soil
Permian Resources
Woody CTB 1
NMOCD Ref. #: nAPP2411548875

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 ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
EH @ SUR	8/14/2024	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
EH @ 1'	8/14/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
NH @ SUR	8/14/2024	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
NH @ 1'	8/14/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
SH @ SUR	8/14/2024	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
SH @ 1'	8/14/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
WH @ SUR	8/14/2024	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
WH @ 1'	8/14/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
SP 1 @ SUR	8/14/2024	0	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	54,000
SP 1 @ 1'	8/14/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
SP 2 @ SUR	8/14/2024	0	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	39,200
SP 2 @ 2'	8/14/2024	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
SP 3 @ SUR	8/14/2024	0	Excavated	<0.050	<0.300	<10.0	48.1	48.1	<10.0	48.1	13,500
SP 3 @ 1'	8/14/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
SP 4 @ SUR	8/14/2024	0	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	46,400
SP 4 @ 1'	8/14/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 1 @ 8"	9/16/2024	0.67	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
FL 2 @ 1.5'	9/16/2024	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 3 @ 1'	9/16/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
FL 4 @ 1.5'	9/16/2024	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 5 @ 1'	9/16/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 6 @ 8"	9/16/2024	0.67	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	832
FL 6 @ 1'	9/25/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 7 @ 1.5'	9/16/2024	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 8 @ 8"	9/16/2024	0.67	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 9 @ 1'	9/16/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	448
FL 10 @ 1'	9/16/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	368
FL 11 @ 1'	9/16/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 12 @ 1'	9/16/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 13 @ 6"	9/16/2024	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 14 @ 1'	9/16/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 15 @ 8"	9/16/2024	0.67	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FL 16 @ 8"	9/16/2024	0.67	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 17 @ 1'	9/16/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 18 @ 8"	9/16/2024	0.67	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 19 @ 1.5'	9/18/2024	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 20 @ 8"	9/16/2024	0.67	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
FL 21 @ 8"	9/16/2024	0.67	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL 22 @ 8"	9/16/2024	0.67	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL 23 @ 2'	9/18/2024	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 24 @ 1.5'	9/18/2024	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0

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

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

Red Border with Shading: Highest observed concentration.

Table 1
Concentrations of BTEX, TPH, and Chloride in Soil
Permian Resources
Woody CTB 1
NMOCD Ref. #: nAPP2411548875

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 ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
FL 25 @ 1'	9/18/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
FL 26 @ 8"	9/18/2024	0.67	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 27 @ 8"	9/18/2024	0.67	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	528
FL 28 @ 2'	9/18/2024	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 29 @ 8"	9/18/2024	0.67	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 30 @ 1'	9/18/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL 31 @ 2'	9/18/2024	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL 32 @ 1.5'	9/18/2024	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 33 @ 1'	9/18/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 34 @ 8"	9/18/2024	0.67	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
FL 35 @ 1.5'	9/18/2024	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 36 @ 1'	9/18/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 37 @ 1'	9/18/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 38 @ 1.5'	9/18/2024	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 39 @ 1.5'	9/18/2024	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	352
FL 40 @ 1'	9/18/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL 41 @ 1.5'	9/18/2024	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 42 @ 8"	9/18/2024	0.67	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL 43 @ 2'	9/18/2024	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 44 @ 1.5'	9/18/2024	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 45 @ 1'	9/18/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
EW 1	9/18/2024	0-1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
EW 2	9/18/2024	0-1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
NW 1	9/18/2024	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
NW 2	9/18/2024	0-1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SW 1	9/18/2024	0-1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
SW 2	9/18/2024	0-1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
WW 1	9/18/2024	0-1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
WW 2	9/18/2024	0-1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SIMMS BACKFILL PIT	9/18/2024	N/A	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.

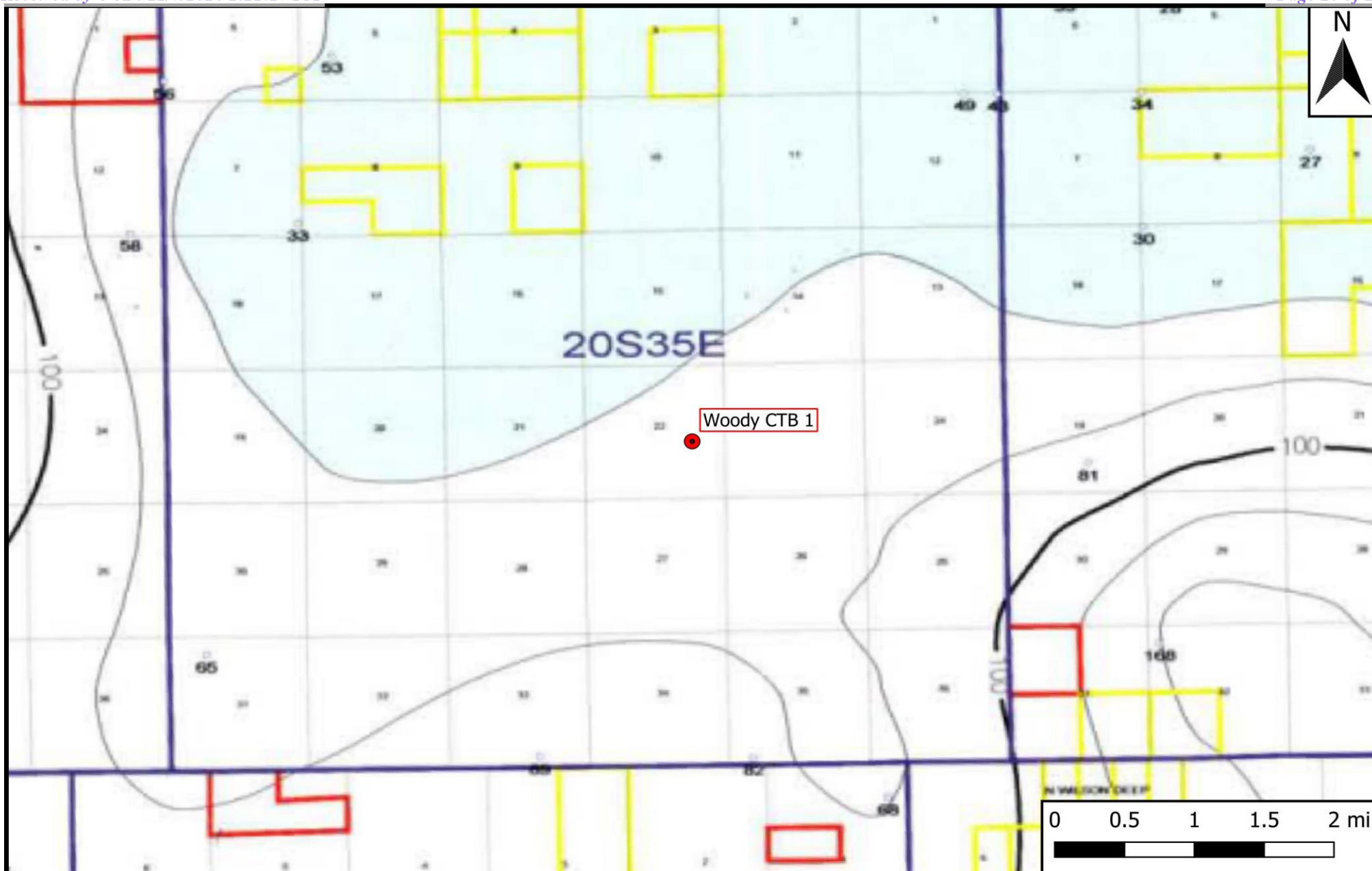
Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

Red Border with Shading: Highest observed concentration.

Appendix A

Depth to Groundwater Information



Legend

- Site Location

Figure 4

Inferred Depth to Groundwater Trend Map
Permian Resources
Woody CTB 1
GPS: 32.55729, -103.44071
Lea County

eTECH
Environmental & Safety Solutions, Inc.

Drafted: mag


Checked: jwl

Date: 8/20/24

Point of Diversion Summary

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

NAD83 UTM in meters

Well Tag	POD Nbr	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Map
NA	L 15099 POD1	SW	NW	SE	26	20S	35E	647650.4	3601626.2	

* UTM location was derived from PLSS - see Help

Driller License:	1800	Driller Company:	ALAMO ENVIRONMENTAL DBA VORTEX DRILLING				
Driller Name:	02/22/21						
Drill Start Date:	2021-02-22	Drill Finish Date:			Plug Date:	2021-02-22	
Log File Date:	2021-03-11	PCW Rcv Date:			Source:	Shallow	
Pump Type:			Pipe Discharge Size:			Estimated Yield:	0
Casing Size:	2.00	Depth Well:	110			Depth Water:	58

Water Bearing Stratifications:

Top	Bottom	Description
48	60	Sandstone/Gravel/Conglomerate
60	62	Sandstone/Gravel/Conglomerate
62	100	Sandstone/Gravel/Conglomerate
100	110	Sandstone/Gravel/Conglomerate

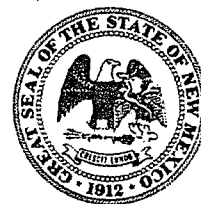
Casing Perforations:

Top	Bottom
100	110

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



PLUGGING RECORD



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

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: L-15099-POD1

Well owner: Centennial Resource Development, INC.

Phone No.: 806-467-0607 Ext. 404

Mailing address: 1001 17th Street Suite 1800

City: Denver

State: Colorado

Zip code: 80202

II. WELL PLUGGING INFORMATION:

1) Name of well drilling company that plugged well: Talon LPE

2) New Mexico Well Driller License No.: WD-1800 Expiration Date: 06/17/2022

3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Devin Londagin

4) Date well plugging began: 02/22/2021 Date well plugging concluded: 02/22/2021

5) GPS Well Location: Latitude: 32 deg, 32 min, 31.9 sec
Longitude: 103 deg, 25 min, 39.3 sec, WGS 84

6) Depth of well confirmed at initiation of plugging as: 110 ft below ground level (bgl),
by the following manner: Water level meter

7) Static water level measured at initiation of plugging: 60.48 ft bgl

8) Date well plugging plan of operations was approved by the State Engineer: 01/28/2021

9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

OSE DT MAR 11 2021 PM 2:04

- For each interval plugged, describe within the following columns:**

USE DTI MAR 11 2021 PM 2:04

III. SIGNATURE:

John

03/05/2021

Date _____



STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER
ROSWELL

John R. D'Antonio , P.E.
State Engineer

DISTRICT II
1900 West Second St.
Roswell, NM 88201
Phone: (575) 622-6521
Fax: (575) 623-8559

March 22, 2021


Centennial Resource Development, INC
1001 17th Street Suite 1800
Denver, CO 80202

RE: Well Plugging Record for OSE File No. L-15099-POD1

Greetings:

Please find enclosed Well Plugging Record, received and filed in our office on 03/11/21


Thank you,


Andrew Dennis
Engineering Technician

Point of Diversion Summary

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

NAD83 UTM in meters

Well Tag	POD Nbr	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Map
	L 02420		SE	NW	18	20S	36E	650577.0	3605304.0 *	

* UTM location was derived from PLSS - see Help

Driller License:	111	Driller Company:	BURKE, EDWARD B.		
Driller Name:	BURKE, EDWARD B.				
Drill Start Date:	1953-11-25	Drill Finish Date:	1953-11-25	Plug Date:	1962-07-11
Log File Date:	1953-12-03	PCW Rcv Date:	1953-12-03	Source:	Shallow
Pump Type:		Pipe Discharge Size:		Estimated Yield:	
Casing Size:	7.00	Depth Well:	80	Depth Water:	34

Water Bearing Stratifications:

Top	Bottom	Description
42	64	Sandstone/Gravel/Conglomerate

Casing Perforations:

Top	Bottom
30	70

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.

S.F. COPY
L-2420

488588

(This form to be executed in triplicate)

WELL RECORD

Date of Receipt 12-3-53 Permit No. L-2420

Name of permittee, Moran Drilling Co.

Street or P. O. _____, City and State Hobbs, New Mexico

1. Well location and description: The Shallow well is located in _____ NE _____
(shallow or artesian)

NW _____ of Section 18, Township 20 South, Range 36 East; Elevation of top of casing above sea level, _____ feet; diameter of hole, 8 inches; total depth, 80 feet; depth to water upon completion, 34 feet; drilling was commenced November 25, 1953, and completed November 25, 1953; name of drilling contractor Ed. B. Burke

P.O. Box 306; Address, Hobbs, New Mexico; Driller's License No. WD-111

2. Principal Water-bearing Strata:

	Depth in Feet		Thickness	Description of Water-bearing Formation
	From	To		
No. 1	<u>42</u>	<u>64</u>	<u>22</u>	<u>Water sand and gravel</u>
No. 2				
No. 3				
No. 4				
No. 5				

3. Casing Record:

Diameter in inches	Pounds per ft.	Threads per inch	Depth of Casing or Liner		Feet of Casing	Type of Shoe	Perforation	
			Top	Bottom			From	To
<u>7</u>	<u>22</u>	<u>8</u>	<u>0</u>	<u>80</u>	<u>80</u>	<u>no</u>	<u>30</u>	<u>70</u>

4. If above construction replaces old well to be abandoned, give location: _____
of Section _____, Township _____, Range _____; name and address of plugging contractor, _____

date of plugging _____, 19____; describe how well was plugged: _____

STATE ENGINEER-Santa Fe, N. M.
RECEIVED
JAN 20 1954
1M
7 8 9 10 11 12 1 2 3 4 5 6

FILED
DEC 3 1953
OFFICE
GROUND WATER SUPERVISOR
ROSWELL, NEW MEXICO

L-2420

Form WR-23

STATE ENGINEER OFFICE

SANTA FE

WELL RECORD

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the nearest district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1A and Section 5 need be completed.

Section 1

(A) Owner of well MORAN OIL PROD. & DRLG. CORP.
Street and Number Box 1718
City HOBBS State NEW MEXICO
Well was drilled under Permit No. L-2420 and is located in the
1/4 NE 1/4 NW 1/4 of Section 18 20 Twp. 20 Rge. 36
(B) Drilling Contractor E. B. BURKE License No. WD 111
Street and Number 724 E. LUNA
City HOBBS State NEW MEXICO
Drilling was commenced 19
Drilling was completed 19

(Plat of 640 acres)

Elevation at top of casing in feet above sea level Total depth of well
State whether well is shallow or artesian Depth to water upon completion

Section 2

PRINCIPAL WATER-BEARING STRATA

No.	Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation
	From	To		
1				
2				
3				
4				
5				

1962 JUL 27 AM 9:00
STATE ENGINEER OFFICE
SANTA FE, N.M.

Section 3

RECORD OF CASING

Dia in.	Pounds ft.	Threads in	Depth		Feet	Type Shoe	Perforations	
			Top	Bottom			From	To

Section 4

RECORD OF MUDDING AND CEMENTING

Depth in Feet		Diameter Hole in in.	Tons Clay	No. Sacks of Cement	Methods Used
From	To				

Section 5

PLUGGING RECORD

Name of Plugging Contractor E. B. BURKE License No. WD 111
Street and Number 724 E. LUNA City HOBBS State NEW MEXICO
Tons of Clay used Tons of Roughage used Type of roughage
Plugging method used WELDED STEEL CAP ON TOP OF CASING Date Plugged 7-11-62 19
Plugging approved by:

James D. ...
Basin Supervisor

Cement Plugs were placed as follows:

No.	Depth of Plug		No. of Sacks Used
	From	To	

FOR USE OF STATE ENGINEER ONLY
Date Received 30120 11:00:00 11/10/1962
80:18 WA 91 700 2961
File No. L-2420 Use O.W.P. Location No. 20.36.18.120

1111 D - OK

P 9 1 1 1

(This form to be executed in triplicate)

S. F. COPY

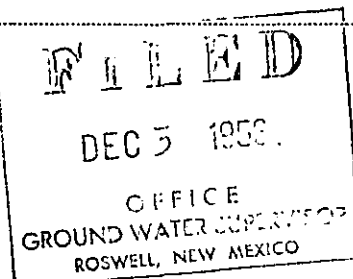
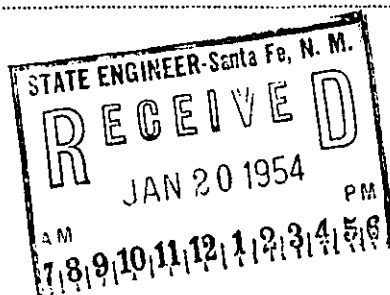
L-2420

PROOF OF COMPLETION OF WORKS

UNDERGROUND WATERS

Date of Receipt 12-3-53 Permit No. L-2420

1. Name of permittee Moran Drilling Co.
P. O. address _____, City and State Hobbs, New Mexico
Permit No. L-2420 to Appropriate
(appropriate, repair well, change location of well)
in the Lea County Underground Basin
(name of underground reservoir, artesian basin, etc.)
2. Description of well: location, _____ $\frac{1}{4}$, NE $\frac{1}{4}$, NW $\frac{1}{4}$, of Section 18
Township 20 South, Range 36 East; total depth, 80 feet; outside diameter of top casing
(or hole, if uncased) 7 inches; if artesian, is well equipped with gate valve? no; name
and address of driller, Ed. B. Burken P.O. Box 306, Hobbs, New Mexico
Date drilled, November 25, 1953, 19____
3. Record of Pumping Test (to be supplied by person or firm making test; Name and address of person making
test, Ed. B. Burke, Hobbs, New Mexico
date of test, November 26, 1953; depth to water before test, 34 feet, and im-
mediately afterward 55 feet; Length of test, 2 hours; average discharge, 90 G.P.M.;
Specific capacity of well, 4.3 gal. per min. per ft. of drawdown.
4. Description of pump: Make, Peerless
type, turbine; if turbine type, give size of column, 4 inches; diameter of
bowls 6 inches; number of bowls 8; length of suction pipe, - feet; total
length of column, bowls and suction pipe, 74 feet; if centrifugal type, give size of pump _____
inches; if other type, describe, _____
rated capacity of pump (if known) Unknown G.P.M., at _____ rev. per min., from a depth of _____ feet.
5. Description of power plant: make, International U-2
type, Industrial; rated horsepower (if available) 22; type of drive connection
to pump, belt; date of installation of power plant, November 26, 1953.
6. Actual discharge of pump, 90 G.P.M., at varied ~~1500~~ rev. per min., from a depth of 55 feet;
Date of test November 26, 1953; Name and address of dealer supplying pump and power
plant, Company owned unit



7. Permit acreage to be served by well, 1.0 acres, to receive a total of 3.0 acre feet of water allowed by permit.
8. The distribution system consists of overnight storage reservoir no, and _____ feet of main canal; (yes or no)
give approximate capacity of reservoir or tank (if any) _____ cubic feet.
9. If above construction replaces an old well to be plugged or abandoned, fill out the following: the well abandoned is located in the _____ of Section _____, Township _____, Range _____;
Name of plugging contractor, _____;
Well was plugged in accordance with terms of permit _____, 19____.
10. Give date "Well Record" was filed with State Engineer's Office, _____ November, 1953.
11. Pump and power plant were installed and works completed _____ November 26, 1953.

The undersigned, owner and holder of Permit No. P-2420, being first duly sworn upon his oath, states that he has read the foregoing statements and that the same are true to the best of his knowledge and belief.

Moran Drilling Co.

by: Edward B. Burke

Subscribed and sworn to before me this 30 day of November, 1953

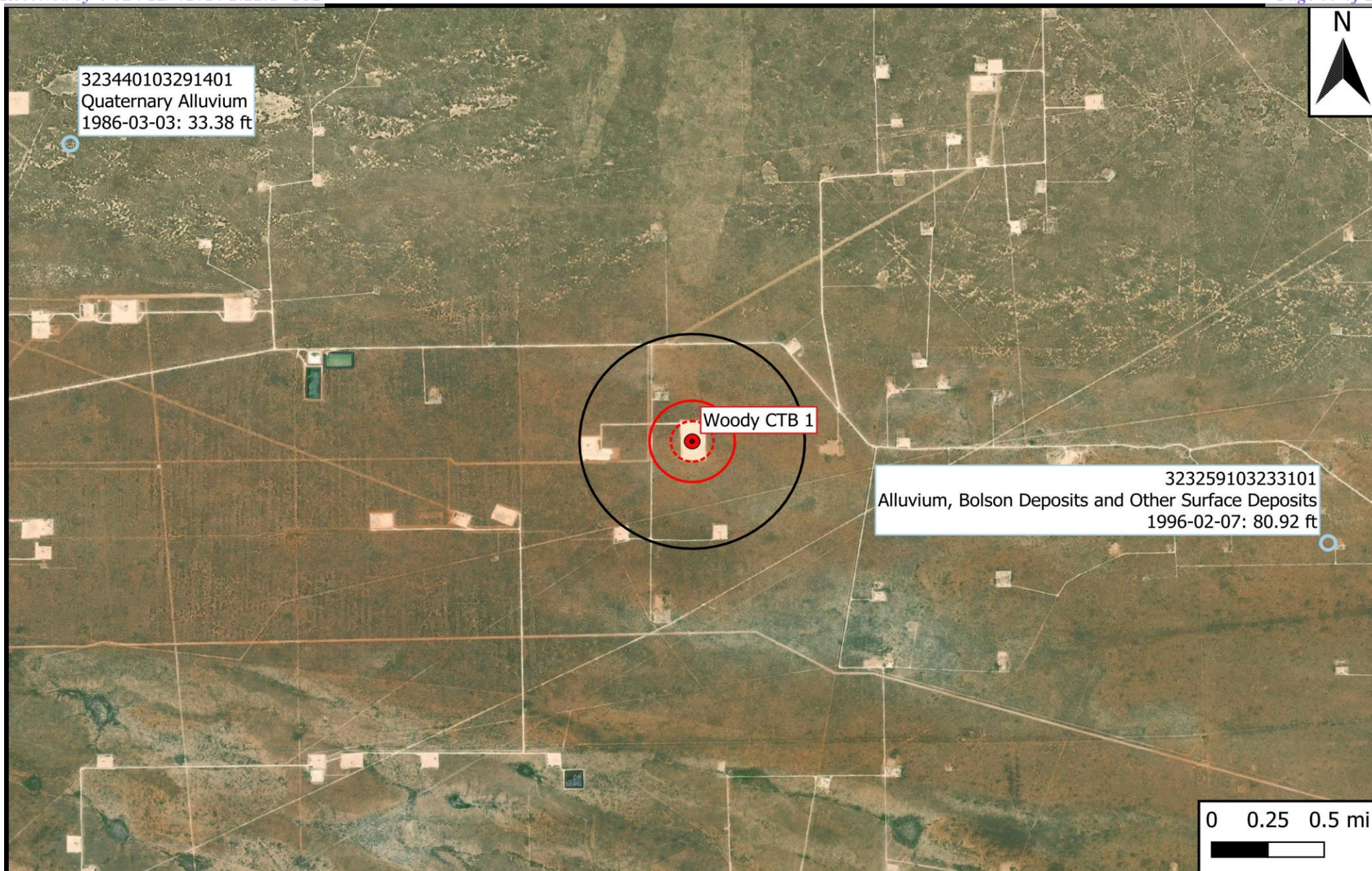
My commission expires Sept. 26, 1957
John W. Pharr
Notary Public

Affidavit of State Engineer's Representative

I hereby certify that I have duly inspected the above Works and find them adequate and properly constructed according to the terms and conditions of the permit. Note any exceptions _____

Delbert W. Nelson
Groundwater Supervisor or other representative of State Engineer

Date, Nov 28, 1953

**Legend**

- Site Location
- Well - USGS
- ⊞ 500 Ft Radius
- ⊞ 1000 Ft Radius
- ⊞ 0.5 Mi Radius

Figure 5

USGS Well Proximity Map
Permian Resources
Woody CTB 1
GPS: 32.55729, -103.44071
Lea County



Drafted: mag

Checked: jwl

Date: 8/20/24



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

Search Results -- 1 sites found

Agency code = usgs

site_no list =

- 323440103291401

Minimum number of levels = 1

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

USGS 323440103291401 20S.35E.07.44420

Available data for this site

Groundwater: Field measurements

GO

Lea County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°34'40", Longitude 103°29'14" NAD27

Land-surface elevation 3,692 feet above NAVD88

This well is completed in the Other aquifers (N9999OTHER) national aquifer.

This well is completed in the Ogallala Formation (121OGLL) local aquifer.

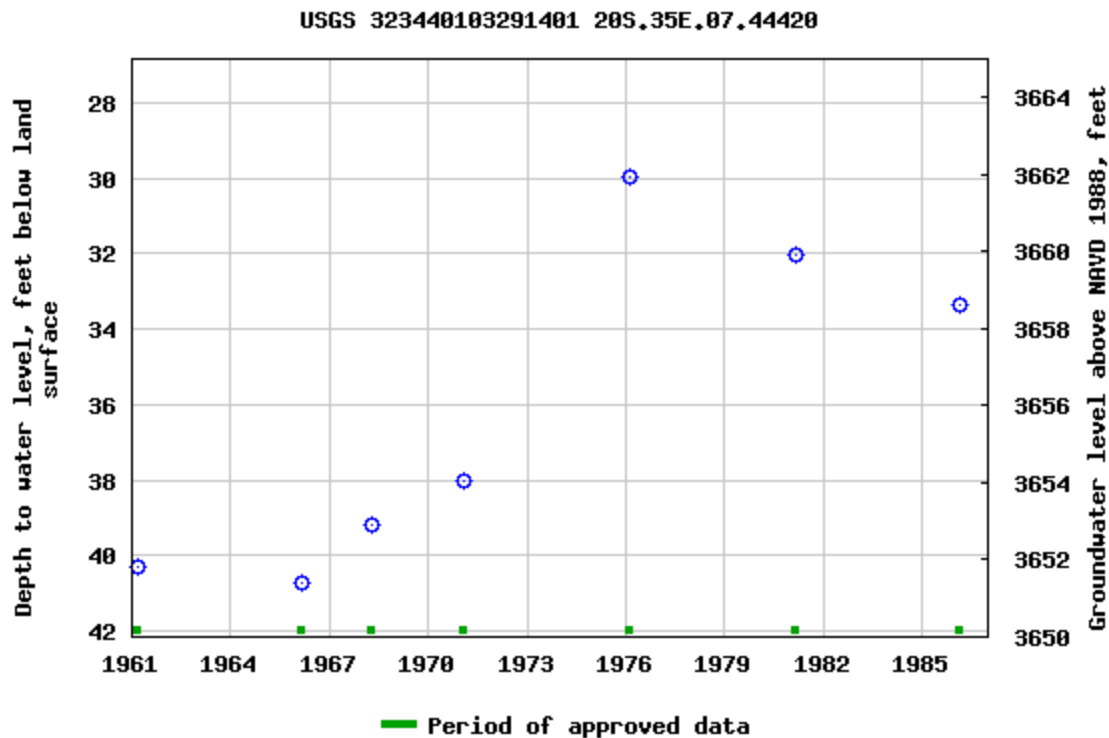
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Title: Groundwater for USA: Water Levels

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



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

Page Last Modified: 2024-08-20 13:28:15 EDT

0.65 0.5 nadww01



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Search Results -- 1 sites found

Agency code = usgs

site_no list =

- 323259103233101

Minimum number of levels = 1

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

USGS 323259103233101 20S.36E.19.43120

Available data for this site

Groundwater: Field measurements

GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°32'59", Longitude 103°23'31" NAD27

Land-surface elevation 3,652 feet above NAVD88

This well is completed in the Other aquifers (N9999OTHER) national aquifer.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

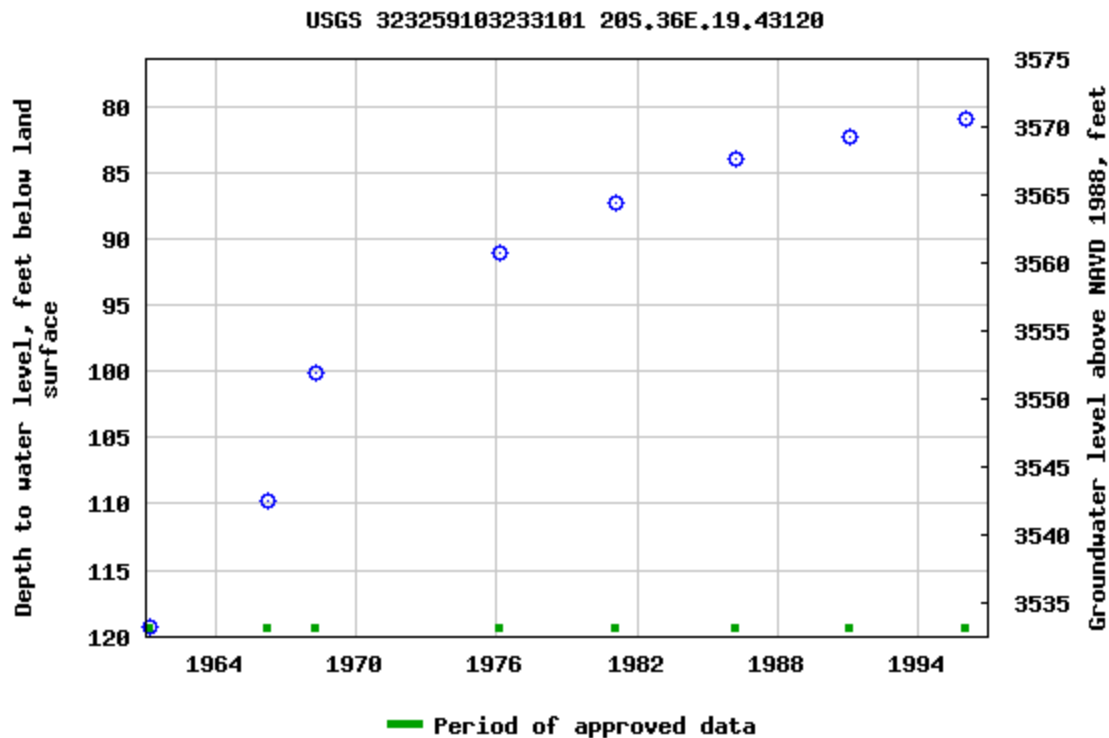
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Title: Groundwater for USA: Water Levels

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

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

Page Last Modified: 2024-08-20 13:28:14 EDT

0.66 0.51 nadww01



Appendix B

Field Data



Sample Log

Project: Woody CTB 1
Project Number: 20415
Latitude: 32.55641
Longitude: -103.447308
Date: _____

Sample ID	PID/Odor	Chloride Conc.	GPS
SP1 @ 5'		72344	
SP1 @ 1'		216	
SP2 @ 5'		72344	
SP2 @ 1'		1256	
SP2 @ 2'		244	
SP3 @ 5'		72344	
SP3 @ 1'		< 116	
SH @ 5'		348	
SH @ 1'		276	
WH @ 5'		428	
WH @ 1'		276	
NH @ 5'		316	
NH @ 1'		276	
EH @ 5'		316	
EH @ 1'		276	
SP4 @ 5'		72344	
SP4 @ 1'		160	
<hr/>			
FL-1 @ 8"		428	
FL-2 @ 1'		804	
FL-3 @ 6"		1168	
FL-4 @ 6"		1256	
FL-2 @ 1.5'		266	
FL-3 @ 1'		338	
FL-4 @ 1'		684	
FL-4 @ 1.5'		160	
FL-5 @ 8"		1012	
FL-6 @ 8"		572	
FL-7 @ 8"		1652	
FL-5 @ 1'		548	
FL-7 @ 1'		160	
FL-8 @ 8"		292	
FL-9 @ 6"		72344	
FL-10 @ 6"		72344	
FL-11 @ 6"		728	
FL-12 @ 6"		664	

Sample Point = SP #1 @ ## etc
Floor = FL #1 etc
Sidewall = SW #1 etc
Test Trench = TT #1 @ ##
Refusal = SP #1 @ 4'-R
Soil Intended to be Deferred = SP #1 @ 4' In-Situ
Resamples= SP #1 @ 5b or SW #1b
Stockpile = Stockpile #1
GPS Sample Points, Center of Comp Areas



Sample Log

Project: Woody CTB 1
Project Number: 20415
Latitude: 32.55641
Longitude: -103.447308
Date: _____

Sample ID	PID/Odor	Chloride Conc.	GPS
FL13 @ 1'	192		
FL14 @ 1'	1068		
FL16 @ 1'	504		
FL9 @ 1'	456		
FL4 @ 1'	456		
FL12 @ 1'	328		
FL14 @ 1'	488		
FL5 @ 8"	368		
FL6 @ 8"	328		
FL17 @ 8"	724		
FL18 @ 8"	168		
FL17 @ 1'	168		
FL15 @ 8"	1188		
FL2 @ 8"	368		
FL21 @ 8"	368		
FL22 @ 8"	328		
FL23 @ 8"	72344		
FL24 @ 8"	72344		
FL25 @ 8"	724		
FL26 @ 8"	256		
FL27 @ 8"	556		
FL28 @ 8"	608		
FL29 @ 8"	328		
FL30 @ 8"	1728		
FL31 @ 8"	608		
FL32 @ 8"	608		
FL33 @ 8"	1328		
FL34 @ 8"	368		
FL35 @ 8"	492		
FL36 @ 8"	608		
FL37 @ 8"	492		
FL38 @ 8"	72344		
FL39 @ 8"	1968		
FL40 @ 8"	72344		
FL41 @ 8"	1728		
FL42 @ 8"	504		

Sample Point = SP #1 @ ## etc
Floor = FL #1 etc
Sidewall = SW #1 etc
Test Trench = TT #1 @ ##
Refusal = SP #1 @ 4'-R
Soil Intended to be Deferred = SP #1 @ 4' In-Situ
Resamples= SP #1 @ 5b or SW #1b
Stockpile = Stockpile #1
GPS Sample Points, Center of Comp Areas



Sample Log

Project: Woody CTB 1

Date: _____

Project Number: _____

20415

Latitude: _____

32.55641

Longitude: _____

-103.447308

Sample ID	PID/Odor	Chloride Conc.	GPS
*FL 29 @ 1'	664	WU1	388
FL 48 @ 1'	288	UW2	368
*FL 28 @ 1'	72344	SW1	452
FL 30 @ 1'	288	SW2	388
*FL 19 @ 1'	896	EW1	358
*FL 31 @ 1'	608	EW2	388
FL 37 @ 1'	328	NW1	500
*FL 28 @ 1'	1684	NW2	358
*FL 32 @ 1'	896	FL @ 15'	608
FL 33 @ 1'	328	FL @ 1'	256
*FL 35 @ 1'	972		
FL 36 @ 1'	288		
*FL 23 @ 1'	72344		
*FL 24 @ 1'	2036		
FL 25 @ 1'	288		
FL 14 @ 1.5'	196		
FL 41 @ 1.5'	1116		
FL 24 @ 1.5'	452		
*FL 31 @ 1.5'	652		
*FL 23 @ 1.5'	1700		
FL 35 @ 1.5'	1116		
FL 38 @ 1.5'	196		
FL 34 @ 1.5'	548		
*FL 43 @ 8"	72344		
*FL 44 @ 8"	1486		
*FL 45 @ 8"	892		
*FL 28 @ 1.5'	72344		
FL 32 @ 1.5'	196		
FL 31 @ 2'	368		
FL 23 @ 2'	328		
FL 38 @ 2'	368		
*FL 43 @ 1.5'	1288		
*FL 43 @ 2'	452		
*FL 44 @ 1.0'	2072		
FL 44 @ 1.5'	548		
FL 45 @ 1.0'	368		

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

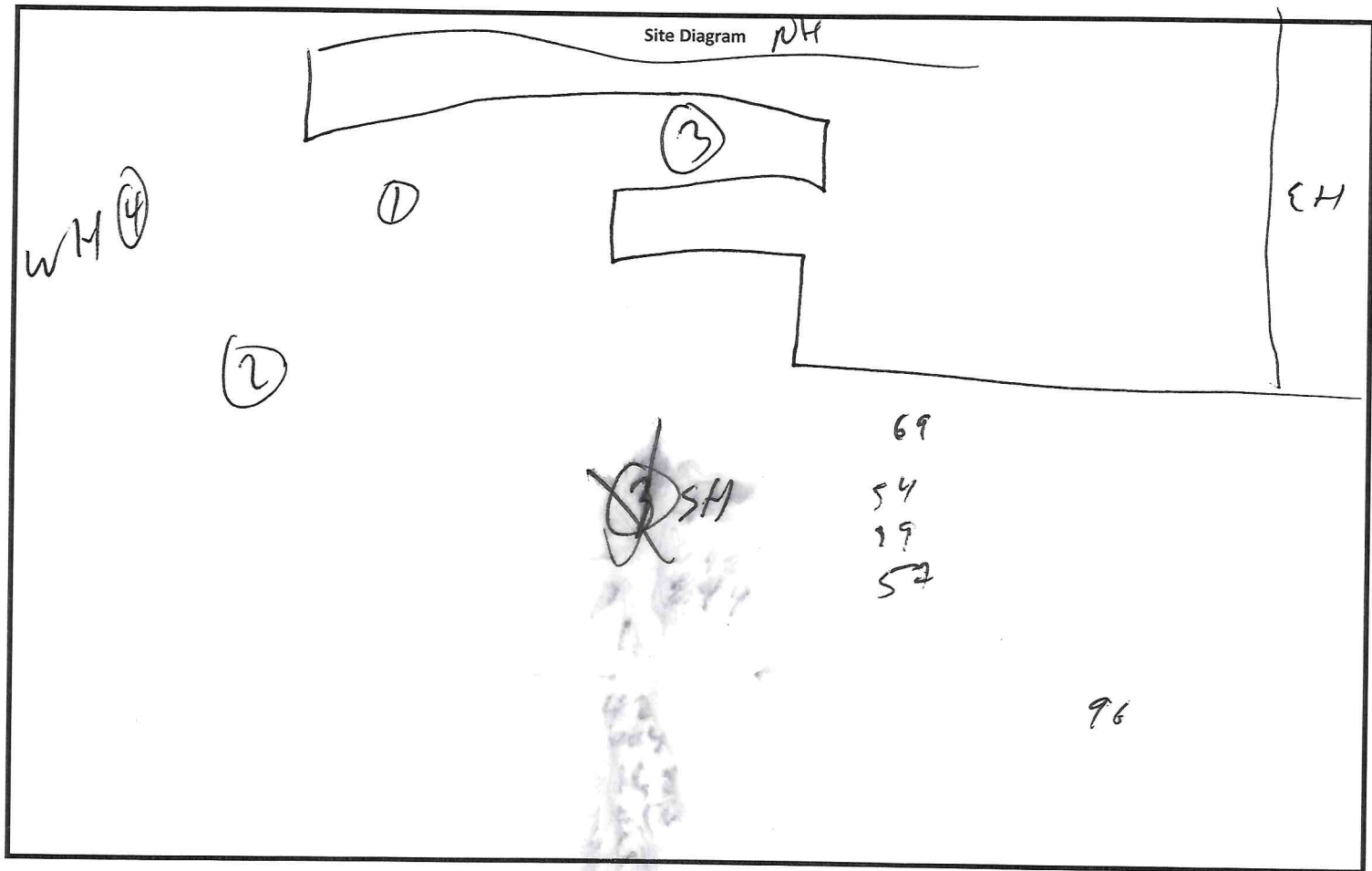
Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas



Initial Release Assessment Form

Project: Woody CTB 1 Clean Up Level: 600 mg/kg Cl-, 100 mg/kg TPH
Project Number: 20415 Latitude: 32.55641 Longitude: -103.447308



Notes:

~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"/>

Appendix C

Laboratory Analytical Reports



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

August 21, 2024

ROBBIE RUNNELS

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: WOODY CTB 1

Enclosed are the results of analyses for samples received by the laboratory on 08/15/24 8:32.

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

Cardinal Laboratories is 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: 08/15/2024
 Reported: 08/21/2024
 Project Name: WOODY CTB 1
 Project Number: 20415
 Project Location: PERMIAN 32.55641, -103.447308

Sampling Date: 08/14/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SP 1 @ SUR (H244936-01)

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	08/16/2024	ND	2.40	120	2.00	5.17	
Toluene*	<0.050	0.050	08/16/2024	ND	2.04	102	2.00	5.60	
Ethylbenzene*	<0.050	0.050	08/16/2024	ND	2.01	101	2.00	8.51	
Total Xylenes*	<0.150	0.150	08/16/2024	ND	6.10	102	6.00	8.54	
Total BTX	<0.300	0.300	08/16/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	54000	16.0	08/16/2024	ND	432	108	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	08/15/2024	ND	222	111	200	7.14	
DRO >C10-C28*	<10.0	10.0	08/15/2024	ND	214	107	200	9.55	
EXT DRO >C28-C36	<10.0	10.0	08/15/2024	ND					

Surrogate: 1-Chlorooctane 102 % 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

Analytical Results For:

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

Received: 08/15/2024
 Reported: 08/21/2024
 Project Name: WOODY CTB 1
 Project Number: 20415
 Project Location: PERMIAN 32.55641, -103.447308

Sampling Date: 08/14/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SP 1 @ 1' (H244936-02)

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	08/16/2024	ND	2.08	104	2.00	9.72		
Toluene*	<0.050	0.050	08/16/2024	ND	1.99	99.3	2.00	9.68		
Ethylbenzene*	<0.050	0.050	08/16/2024	ND	2.07	104	2.00	9.34		
Total Xylenes*	<0.150	0.150	08/16/2024	ND	6.15	102	6.00	9.33		
Total BTEX	<0.300	0.300	08/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	08/16/2024	ND	432	108	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	08/15/2024	ND	222	111	200	7.14	
DRO >C10-C28*	<10.0	10.0	08/15/2024	ND	214	107	200	9.55	
EXT DRO >C28-C36	<10.0	10.0	08/15/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 138 % 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
 ROBBIE RUNNELS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 08/15/2024
 Reported: 08/21/2024
 Project Name: WOODY CTB 1
 Project Number: 20415
 Project Location: PERMIAN 32.55641, -103.447308

Sampling Date: 08/14/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SP 2 @ SUR (H244936-03)

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	08/16/2024	ND	2.08	104	2.00	9.72		
Toluene*	<0.050	0.050	08/16/2024	ND	1.99	99.3	2.00	9.68		
Ethylbenzene*	<0.050	0.050	08/16/2024	ND	2.07	104	2.00	9.34		
Total Xylenes*	<0.150	0.150	08/16/2024	ND	6.15	102	6.00	9.33		
Total BTEx	<0.300	0.300	08/16/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	39200	16.0	08/19/2024	ND	448	112	400	3.64	QM-07	

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	08/15/2024	ND	222	111	200	7.14	
DRO >C10-C28*	<10.0	10.0	08/15/2024	ND	214	107	200	9.55	
EXT DRO >C28-C36	<10.0	10.0	08/15/2024	ND					

Surrogate: 1-Chlorooctane 79.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/15/2024
 Reported: 08/21/2024
 Project Name: WOODY CTB 1
 Project Number: 20415
 Project Location: PERMIAN 32.55641, -103.447308

Sampling Date: 08/14/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SP 2 @ 2' (H244936-04)

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	08/16/2024	ND	2.08	104	2.00	9.72		
Toluene*	<0.050	0.050	08/16/2024	ND	1.99	99.3	2.00	9.68		
Ethylbenzene*	<0.050	0.050	08/16/2024	ND	2.07	104	2.00	9.34		
Total Xylenes*	<0.150	0.150	08/16/2024	ND	6.15	102	6.00	9.33		
Total BTEX	<0.300	0.300	08/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	08/19/2024	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/15/2024	ND	222	111	200	7.14	
DRO >C10-C28*	<10.0	10.0	08/15/2024	ND	214	107	200	9.55	
EXT DRO >C28-C36	<10.0	10.0	08/15/2024	ND					

Surrogate: 1-Chlorooctane 99.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 131 % 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
 ROBBIE RUNNELS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 08/15/2024
 Reported: 08/21/2024
 Project Name: WOODY CTB 1
 Project Number: 20415
 Project Location: PERMIAN 32.55641, -103.447308

Sampling Date: 08/14/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SP 3 @ SUR (H244936-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/16/2024	ND	2.08	104	2.00	9.72		
Toluene*	<0.050	0.050	08/16/2024	ND	1.99	99.3	2.00	9.68		
Ethylbenzene*	<0.050	0.050	08/16/2024	ND	2.07	104	2.00	9.34		
Total Xylenes*	<0.150	0.150	08/16/2024	ND	6.15	102	6.00	9.33		
Total BTEx	<0.300	0.300	08/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	13500	16.0	08/19/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/15/2024	ND	222	111	200	7.14	
DRO >C10-C28*	48.1	10.0	08/15/2024	ND	214	107	200	9.55	
EXT DRO >C28-C36	<10.0	10.0	08/15/2024	ND					

Surrogate: 1-Chlorooctane 89.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/15/2024
 Reported: 08/21/2024
 Project Name: WOODY CTB 1
 Project Number: 20415
 Project Location: PERMIAN 32.55641, -103.447308

Sampling Date: 08/14/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SP 3 @ 1' (H244936-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/16/2024	ND	2.08	104	2.00	9.72		
Toluene*	<0.050	0.050	08/16/2024	ND	1.99	99.3	2.00	9.68		
Ethylbenzene*	<0.050	0.050	08/16/2024	ND	2.07	104	2.00	9.34		
Total Xylenes*	<0.150	0.150	08/16/2024	ND	6.15	102	6.00	9.33		
Total BTEX	<0.300	0.300	08/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	08/19/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/15/2024	ND	222	111	200	7.14	
DRO >C10-C28*	<10.0	10.0	08/15/2024	ND	214	107	200	9.55	
EXT DRO >C28-C36	<10.0	10.0	08/15/2024	ND					

Surrogate: 1-Chlorooctane 94.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 127 % 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
 ROBBIE RUNNELS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 08/15/2024
 Reported: 08/21/2024
 Project Name: WOODY CTB 1
 Project Number: 20415
 Project Location: PERMIAN 32.55641, -103.447308

Sampling Date: 08/14/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SP 4 @ SUR (H244936-07)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/16/2024	ND	2.08	104	2.00	9.72		
Toluene*	<0.050	0.050	08/16/2024	ND	1.99	99.3	2.00	9.68		
Ethylbenzene*	<0.050	0.050	08/16/2024	ND	2.07	104	2.00	9.34		
Total Xylenes*	<0.150	0.150	08/16/2024	ND	6.15	102	6.00	9.33		
Total BTEX	<0.300	0.300	08/16/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	46400	16.0	08/19/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/15/2024	ND	222	111	200	7.14	
DRO >C10-C28*	<10.0	10.0	08/15/2024	ND	214	107	200	9.55	
EXT DRO >C28-C36	<10.0	10.0	08/15/2024	ND					

Surrogate: 1-Chlorooctane 91.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/15/2024
 Reported: 08/21/2024
 Project Name: WOODY CTB 1
 Project Number: 20415
 Project Location: PERMIAN 32.55641, -103.447308

Sampling Date: 08/14/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SP 4 @ 1' (H244936-08)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/16/2024	ND	2.08	104	2.00	9.72		
Toluene*	<0.050	0.050	08/16/2024	ND	1.99	99.3	2.00	9.68		
Ethylbenzene*	<0.050	0.050	08/16/2024	ND	2.07	104	2.00	9.34		
Total Xylenes*	<0.150	0.150	08/16/2024	ND	6.15	102	6.00	9.33		
Total BTEX	<0.300	0.300	08/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	08/19/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/15/2024	ND	222	111	200	7.14	
DRO >C10-C28*	<10.0	10.0	08/15/2024	ND	214	107	200	9.55	
EXT DRO >C28-C36	<10.0	10.0	08/15/2024	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 133 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/15/2024
 Reported: 08/21/2024
 Project Name: WOODY CTB 1
 Project Number: 20415
 Project Location: PERMIAN 32.55641, -103.447308

Sampling Date: 08/14/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: NH @ SUR (H244936-09)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/16/2024	ND	2.08	104	2.00	9.72		
Toluene*	<0.050	0.050	08/16/2024	ND	1.99	99.3	2.00	9.68		
Ethylbenzene*	<0.050	0.050	08/16/2024	ND	2.07	104	2.00	9.34		
Total Xylenes*	<0.150	0.150	08/16/2024	ND	6.15	102	6.00	9.33		
Total BTEX	<0.300	0.300	08/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	08/19/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/16/2024	ND	222	111	200	7.14	
DRO >C10-C28*	<10.0	10.0	08/16/2024	ND	214	107	200	9.55	
EXT DRO >C28-C36	<10.0	10.0	08/16/2024	ND					

Surrogate: 1-Chlorooctane 82.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/15/2024
 Reported: 08/21/2024
 Project Name: WOODY CTB 1
 Project Number: 20415
 Project Location: PERMIAN 32.55641, -103.447308

Sampling Date: 08/14/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: NH @ 1' (H244936-10)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/16/2024	ND	2.08	104	2.00	9.72		
Toluene*	<0.050	0.050	08/16/2024	ND	1.99	99.3	2.00	9.68		
Ethylbenzene*	<0.050	0.050	08/16/2024	ND	2.07	104	2.00	9.34		
Total Xylenes*	<0.150	0.150	08/16/2024	ND	6.15	102	6.00	9.33		
Total BTEX	<0.300	0.300	08/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	08/19/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/16/2024	ND	222	111	200	7.14	
DRO >C10-C28*	<10.0	10.0	08/16/2024	ND	214	107	200	9.55	
EXT DRO >C28-C36	<10.0	10.0	08/16/2024	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 144 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/15/2024
 Reported: 08/21/2024
 Project Name: WOODY CTB 1
 Project Number: 20415
 Project Location: PERMIAN 32.55641, -103.447308

Sampling Date: 08/14/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: EH @ SUR (H244936-11)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/16/2024	ND	2.08	104	2.00	9.72		
Toluene*	<0.050	0.050	08/16/2024	ND	1.99	99.3	2.00	9.68		
Ethylbenzene*	<0.050	0.050	08/16/2024	ND	2.07	104	2.00	9.34		
Total Xylenes*	<0.150	0.150	08/16/2024	ND	6.15	102	6.00	9.33		
Total BTEX	<0.300	0.300	08/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	08/19/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/15/2024	ND	218	109	200	4.96	
DRO >C10-C28*	<10.0	10.0	08/15/2024	ND	231	115	200	9.13	
EXT DRO >C28-C36	<10.0	10.0	08/15/2024	ND					

Surrogate: 1-Chlorooctane 57.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/15/2024
 Reported: 08/21/2024
 Project Name: WOODY CTB 1
 Project Number: 20415
 Project Location: PERMIAN 32.55641, -103.447308

Sampling Date: 08/14/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: EH @ 1' (H244936-12)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/16/2024	ND	2.08	104	2.00	9.72		
Toluene*	<0.050	0.050	08/16/2024	ND	1.99	99.3	2.00	9.68		
Ethylbenzene*	<0.050	0.050	08/16/2024	ND	2.07	104	2.00	9.34		
Total Xylenes*	<0.150	0.150	08/16/2024	ND	6.15	102	6.00	9.33		
Total BTEX	<0.300	0.300	08/16/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	08/19/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/15/2024	ND	218	109	200	4.96	
DRO >C10-C28*	<10.0	10.0	08/15/2024	ND	231	115	200	9.13	
EXT DRO >C28-C36	<10.0	10.0	08/15/2024	ND					

Surrogate: 1-Chlorooctane 96.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 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
 ROBBIE RUNNELS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 08/15/2024
 Reported: 08/21/2024
 Project Name: WOODY CTB 1
 Project Number: 20415
 Project Location: PERMIAN 32.55641, -103.447308

Sampling Date: 08/14/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SH @ SUR (H244936-13)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/16/2024	ND	2.08	104	2.00	9.72		
Toluene*	<0.050	0.050	08/16/2024	ND	1.99	99.3	2.00	9.68		
Ethylbenzene*	<0.050	0.050	08/16/2024	ND	2.07	104	2.00	9.34		
Total Xylenes*	<0.150	0.150	08/16/2024	ND	6.15	102	6.00	9.33		
Total BTEx	<0.300	0.300	08/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	08/19/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/16/2024	ND	218	109	200	4.96	
DRO >C10-C28*	<10.0	10.0	08/16/2024	ND	231	115	200	9.13	
EXT DRO >C28-C36	<10.0	10.0	08/16/2024	ND					

Surrogate: 1-Chlorooctane 94.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/15/2024
 Reported: 08/21/2024
 Project Name: WOODY CTB 1
 Project Number: 20415
 Project Location: PERMIAN 32.55641, -103.447308

Sampling Date: 08/14/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SH @ 1' (H244936-14)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/16/2024	ND	2.08	104	2.00	9.72		
Toluene*	<0.050	0.050	08/16/2024	ND	1.99	99.3	2.00	9.68		
Ethylbenzene*	<0.050	0.050	08/16/2024	ND	2.07	104	2.00	9.34		
Total Xylenes*	<0.150	0.150	08/16/2024	ND	6.15	102	6.00	9.33		
Total BTEx	<0.300	0.300	08/16/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	08/19/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/16/2024	ND	218	109	200	4.96	
DRO >C10-C28*	<10.0	10.0	08/16/2024	ND	231	115	200	9.13	
EXT DRO >C28-C36	<10.0	10.0	08/16/2024	ND					

Surrogate: 1-Chlorooctane 96.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 128 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/15/2024
 Reported: 08/21/2024
 Project Name: WOODY CTB 1
 Project Number: 20415
 Project Location: PERMIAN 32.55641, -103.447308

Sampling Date: 08/14/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: WH @ SUR (H244936-15)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/16/2024	ND	2.08	104	2.00	9.72		
Toluene*	<0.050	0.050	08/16/2024	ND	1.99	99.3	2.00	9.68		
Ethylbenzene*	<0.050	0.050	08/16/2024	ND	2.07	104	2.00	9.34		
Total Xylenes*	<0.150	0.150	08/16/2024	ND	6.15	102	6.00	9.33		
Total BTEX	<0.300	0.300	08/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	08/19/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/16/2024	ND	218	109	200	4.96	
DRO >C10-C28*	<10.0	10.0	08/16/2024	ND	231	115	200	9.13	
EXT DRO >C28-C36	<10.0	10.0	08/16/2024	ND					

Surrogate: 1-Chlorooctane 85.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 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
 ROBBIE RUNNELS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 08/15/2024
 Reported: 08/21/2024
 Project Name: WOODY CTB 1
 Project Number: 20415
 Project Location: PERMIAN 32.55641, -103.447308

Sampling Date: 08/14/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: WH @ 1' (H244936-16)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/16/2024	ND	2.08	104	2.00	9.72		
Toluene*	<0.050	0.050	08/16/2024	ND	1.99	99.3	2.00	9.68		
Ethylbenzene*	<0.050	0.050	08/16/2024	ND	2.07	104	2.00	9.34		
Total Xylenes*	<0.150	0.150	08/16/2024	ND	6.15	102	6.00	9.33		
Total BTEX	<0.300	0.300	08/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	08/19/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/16/2024	ND	218	109	200	4.96	
DRO >C10-C28*	<10.0	10.0	08/16/2024	ND	231	115	200	9.13	
EXT DRO >C28-C36	<10.0	10.0	08/16/2024	ND					

Surrogate: 1-Chlorooctane 88.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

S-05	The surrogate recovery is outside of lab established statistical control limits but still within method limits. Data is not adversely affected.
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

Company Name: Ettech Environmental & Safety Solutions, Inc.

Project Manager: Robbie Runnels

Address: 2617 West Marland

City: Hobbs

Phone #: (575) 264-9884

Project #: 20415

Project Name: Woody CTB 1

Project Location: 32.55641, -103.447308

Sampler Name: Robbie Runnels

BILL TO

P.O. #:

Company: Permian Resources

Attn: Montgomery Floyd

Address:

City:

State: Zip:

Phone #:

Fax #:

ANALYSIS REQUEST

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	Chloride									
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :			TPH (8015M)									
1	SP 1 @ Sur	G	1	X						8/14/24		X	X	X							
2	SP 1 @ 1'	G	1	X						8/14/24		X	X	X							
3	SP 2 @ Sur	G	1	X						8/14/24		X	X	X							
4	SP 2 @ 2'	G	1	X						8/14/24		X	X	X							
5	SP 3 @ Sur	G	1	X						8/14/24		X	X	X							
6	SP 3 @ 1'	G	1	X						8/14/24		X	X	X							
7	SP 4 @ Sur	G	1	X						8/14/24		X	X	X							
8	SP 4 @ 1'	G	1	X						8/14/24		X	X	X							
9	NH @ Sur	G	1	X						8/14/24		X	X	X							
10	NH @ 1'	G	1	X						8/14/24		X	X	X							

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Relinquished By: [Signature] Date: 8-15-24 Received By: [Signature] Date: 8-15-24

Relinquished By: [Signature]

Date: 8-15-24

Received By: [Signature]

Date: 8-15-24

REMARKS:

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

All Results are emailed. Please provide Email address:

pm@etechnv.com

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Observed Temp. °C -9.34 Cool Intact ☒ Yes ☐ No

Corrected Temp. °C -9.94 Cool Intact ☒ Yes ☐ No

CHECKED BY: [Signature]

Turnaround Time:

Thermometer ID #140 Correction Factor -0.6°C

Standard Rush

Bacteria (only) Sample Condition Cool Intact ☒ Yes ☐ No

Observed Temp. °C

Corrected Temp. °C



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc.

Project Manager: Robbie Runnels

Address: 2617 West Marland

City: Hobbs State: NM Zip: 88240

Phone #: (575) 264-9884 Fax #:

Project #: 20415 Project Owner: Permian Resources

Project Name: Woody CTB 1

Project Location: 32.55641, -103.447308

Sampler Name: Robbie Runnels

BILL TO

P.O. #:

Company: Permian Resources

Attn: Montgomery Floyd

Address:

City:

State: Zip:

Phone #:

Fax #:

ANALYSIS REQUEST

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	Chloride									
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :			TPH (8015M)									
11	EH @ Sur	G	1	X						8/14/24		X	X	X							
12	EH @ 1'	G	1	X						8/14/24		X	X	X							
13	SH @ Sur	G	1	X						8/14/24		X	X	X							
14	SH @ 1'	G	1	X						8/14/24		X	X	X							
15	WH @ Sur	G	1	X						8/14/24		X	X	X							
16	WH @ 1'	G	1	X						8/14/24		X	X	X							

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Relinquished By: [Signature]
Date: 8-15-24
Time: 0832

Received By: [Signature]
Date: 8-15-24
Time: 0832

Verbal Result: ☐ Yes ☐ No ☐ Add'l Phone #:
All Results are emailed. Please provide Email address: pm@etechnv.com

Refiniquished By: [Signature]
Date: 8-15-24
Time: 0832

Received By: [Signature]
Date: 8-15-24
Time: 0832

REMARKS:

Delivered By: (Circle One)	Observed Temp. °C	Sample Condition	CHECKED BY: (Initials)	Turnaround Time:	Standard	Bacteria (only) Sample Condition
Sampler - UPS - Bus - Other:	Corrected Temp. °C	Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	[Signature]	Thermometer ID #140	Rush <input checked="" type="checkbox"/>	Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
				Correction Factor -0.6°C		Observed Temp. °C
						Corrected Temp. °C



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

September 23, 2024

ROBBIE RUNNELS

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: WOODY CTB 1

Enclosed are the results of analyses for samples received by the laboratory on 09/18/24 14:41.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/18/2024
 Reported: 09/23/2024
 Project Name: WOODY CTB 1
 Project Number: 20415
 Project Location: PERMIAN 32.55641, -103.447308

Sampling Date: 09/16/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 1 @ 8" (H245684-01)

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	09/20/2024	ND	2.15	107	2.00	2.84	
Toluene*	<0.050	0.050	09/20/2024	ND	2.07	103	2.00	3.37	
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	2.13	107	2.00	4.21	
Total Xylenes*	<0.150	0.150	09/20/2024	ND	6.38	106	6.00	4.23	
Total BTX	<0.300	0.300	09/20/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	09/20/2024	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2024	ND	207	104	200	1.31	
DRO >C10-C28*	<10.0	10.0	09/19/2024	ND	200	99.9	200	1.83	
EXT DRO >C28-C36	<10.0	10.0	09/19/2024	ND					

Surrogate: 1-Chlorooctane 93.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 09/18/2024
 Reported: 09/23/2024
 Project Name: WOODY CTB 1
 Project Number: 20415
 Project Location: PERMIAN 32.55641, -103.447308

Sampling Date: 09/16/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 2 @ 1.5' (H245684-02)

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	09/20/2024	ND	2.15	107	2.00	2.84		
Toluene*	<0.050	0.050	09/20/2024	ND	2.07	103	2.00	3.37		
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	2.13	107	2.00	4.21		
Total Xylenes*	<0.150	0.150	09/20/2024	ND	6.38	106	6.00	4.23		
Total BTEX	<0.300	0.300	09/20/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	09/20/2024	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2024	ND	207	104	200	1.31	
DRO >C10-C28*	<10.0	10.0	09/19/2024	ND	200	99.9	200	1.83	
EXT DRO >C28-C36	<10.0	10.0	09/19/2024	ND					

Surrogate: 1-Chlorooctane 99.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/18/2024
 Reported: 09/23/2024
 Project Name: WOODY CTB 1
 Project Number: 20415
 Project Location: PERMIAN 32.55641, -103.447308

Sampling Date: 09/16/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 3 @ 1' (H245684-03)

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	09/20/2024	ND	2.15	107	2.00	2.84		
Toluene*	<0.050	0.050	09/20/2024	ND	2.07	103	2.00	3.37		
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	2.13	107	2.00	4.21		
Total Xylenes*	<0.150	0.150	09/20/2024	ND	6.38	106	6.00	4.23		
Total BTEX	<0.300	0.300	09/20/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	09/20/2024	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2024	ND	207	104	200	1.31	
DRO >C10-C28*	<10.0	10.0	09/19/2024	ND	200	99.9	200	1.83	
EXT DRO >C28-C36	<10.0	10.0	09/19/2024	ND					

Surrogate: 1-Chlorooctane 97.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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
 ROBBIE RUNNELS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 09/18/2024
 Reported: 09/23/2024
 Project Name: WOODY CTB 1
 Project Number: 20415
 Project Location: PERMIAN 32.55641, -103.447308

Sampling Date: 09/16/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 4 @ 1.5' (H245684-04)

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	09/20/2024	ND	2.15	107	2.00	2.84		
Toluene*	<0.050	0.050	09/20/2024	ND	2.07	103	2.00	3.37		
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	2.13	107	2.00	4.21		
Total Xylenes*	<0.150	0.150	09/20/2024	ND	6.38	106	6.00	4.23		
Total BTEX	<0.300	0.300	09/20/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/20/2024	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2024	ND	207	104	200	1.31	
DRO >C10-C28*	<10.0	10.0	09/19/2024	ND	200	99.9	200	1.83	
EXT DRO >C28-C36	<10.0	10.0	09/19/2024	ND					

Surrogate: 1-Chlorooctane 90.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/18/2024
 Reported: 09/23/2024
 Project Name: WOODY CTB 1
 Project Number: 20415
 Project Location: PERMIAN 32.55641, -103.447308

Sampling Date: 09/16/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 5 @ 1' (H245684-05)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/20/2024	ND	2.15	107	2.00	2.84		
Toluene*	<0.050	0.050	09/20/2024	ND	2.07	103	2.00	3.37		
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	2.13	107	2.00	4.21		
Total Xylenes*	<0.150	0.150	09/20/2024	ND	6.38	106	6.00	4.23		
Total BTEX	<0.300	0.300	09/20/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	09/20/2024	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2024	ND	207	104	200	1.31	
DRO >C10-C28*	<10.0	10.0	09/19/2024	ND	200	99.9	200	1.83	
EXT DRO >C28-C36	<10.0	10.0	09/19/2024	ND					

Surrogate: 1-Chlorooctane 97.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Analytical Results For:

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

Received: 09/18/2024
 Reported: 09/23/2024
 Project Name: WOODY CTB 1
 Project Number: 20415
 Project Location: PERMIAN 32.55641, -103.447308

Sampling Date: 09/16/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 6 @ 8" (H245684-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/20/2024	ND	2.15	107	2.00	2.84		
Toluene*	<0.050	0.050	09/20/2024	ND	2.07	103	2.00	3.37		
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	2.13	107	2.00	4.21		
Total Xylenes*	<0.150	0.150	09/20/2024	ND	6.38	106	6.00	4.23		
Total BTEX	<0.300	0.300	09/20/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	832	16.0	09/20/2024	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2024	ND	207	104	200	1.31	
DRO >C10-C28*	<10.0	10.0	09/19/2024	ND	200	99.9	200	1.83	
EXT DRO >C28-C36	<10.0	10.0	09/19/2024	ND					

Surrogate: 1-Chlorooctane 90.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Analytical Results For:

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

Received: 09/18/2024
 Reported: 09/23/2024
 Project Name: WOODY CTB 1
 Project Number: 20415
 Project Location: PERMIAN 32.55641, -103.447308

Sampling Date: 09/16/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 7 @ 1.5' (H245684-07)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/20/2024	ND	2.16	108	2.00	0.377		
Toluene*	<0.050	0.050	09/20/2024	ND	2.24	112	2.00	0.262		
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	2.28	114	2.00	0.403		
Total Xylenes*	<0.150	0.150	09/20/2024	ND	6.89	115	6.00	0.375		
Total BTEx	<0.300	0.300	09/20/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	09/20/2024	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2024	ND	207	104	200	1.31	
DRO >C10-C28*	<10.0	10.0	09/19/2024	ND	200	99.9	200	1.83	
EXT DRO >C28-C36	<10.0	10.0	09/19/2024	ND					

Surrogate: 1-Chlorooctane 93.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Analytical Results For:

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

Received: 09/18/2024
 Reported: 09/23/2024
 Project Name: WOODY CTB 1
 Project Number: 20415
 Project Location: PERMIAN 32.55641, -103.447308

Sampling Date: 09/16/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 8 @ 8" (H245684-08)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/20/2024	ND	2.16	108	2.00	0.377		
Toluene*	<0.050	0.050	09/20/2024	ND	2.24	112	2.00	0.262		
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	2.28	114	2.00	0.403		
Total Xylenes*	<0.150	0.150	09/20/2024	ND	6.89	115	6.00	0.375		
Total BTEX	<0.300	0.300	09/20/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	09/20/2024	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2024	ND	207	104	200	1.31	
DRO >C10-C28*	<10.0	10.0	09/19/2024	ND	200	99.9	200	1.83	
EXT DRO >C28-C36	<10.0	10.0	09/19/2024	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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Analytical Results For:

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

Received: 09/18/2024
 Reported: 09/23/2024
 Project Name: WOODY CTB 1
 Project Number: 20415
 Project Location: PERMIAN 32.55641, -103.447308

Sampling Date: 09/16/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 9 @ 1' (H245684-09)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/20/2024	ND	2.16	108	2.00	0.377		
Toluene*	<0.050	0.050	09/20/2024	ND	2.24	112	2.00	0.262		
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	2.28	114	2.00	0.403		
Total Xylenes*	<0.150	0.150	09/20/2024	ND	6.89	115	6.00	0.375		
Total BTEx	<0.300	0.300	09/20/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	448	16.0	09/20/2024	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2024	ND	207	104	200	1.31	
DRO >C10-C28*	<10.0	10.0	09/19/2024	ND	200	99.9	200	1.83	
EXT DRO >C28-C36	<10.0	10.0	09/19/2024	ND					

Surrogate: 1-Chlorooctane 94.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Analytical Results For:

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

Received: 09/18/2024
 Reported: 09/23/2024
 Project Name: WOODY CTB 1
 Project Number: 20415
 Project Location: PERMIAN 32.55641, -103.447308

Sampling Date: 09/16/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 10 @ 1' (H245684-10)

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	09/20/2024	ND	2.16	108	2.00	0.377		
Toluene*	<0.050	0.050	09/20/2024	ND	2.24	112	2.00	0.262		
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	2.28	114	2.00	0.403		
Total Xylenes*	<0.150	0.150	09/20/2024	ND	6.89	115	6.00	0.375		
Total BTX	<0.300	0.300	09/20/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	09/20/2024	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2024	ND	207	104	200	1.31	
DRO >C10-C28*	<10.0	10.0	09/19/2024	ND	200	99.9	200	1.83	
EXT DRO >C28-C36	<10.0	10.0	09/19/2024	ND					

Surrogate: 1-Chlorooctane 98.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Analytical Results For:

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

Received: 09/18/2024
 Reported: 09/23/2024
 Project Name: WOODY CTB 1
 Project Number: 20415
 Project Location: PERMIAN 32.55641, -103.447308

Sampling Date: 09/16/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 11 @ 1' (H245684-11)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/20/2024	ND	2.16	108	2.00	0.377		
Toluene*	<0.050	0.050	09/20/2024	ND	2.24	112	2.00	0.262		
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	2.28	114	2.00	0.403		
Total Xylenes*	<0.150	0.150	09/20/2024	ND	6.89	115	6.00	0.375		
Total BTEx	<0.300	0.300	09/20/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	09/20/2024	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2024	ND	223	111	200	0.663	
DRO >C10-C28*	<10.0	10.0	09/19/2024	ND	223	111	200	1.52	
EXT DRO >C28-C36	<10.0	10.0	09/19/2024	ND					

Surrogate: 1-Chlorooctane 90.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Analytical Results For:

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

Received: 09/18/2024
 Reported: 09/23/2024
 Project Name: WOODY CTB 1
 Project Number: 20415
 Project Location: PERMIAN 32.55641, -103.447308

Sampling Date: 09/16/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 12 @ 1' (H245684-12)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/20/2024	ND	2.16	108	2.00	0.377		
Toluene*	<0.050	0.050	09/20/2024	ND	2.24	112	2.00	0.262		
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	2.28	114	2.00	0.403		
Total Xylenes*	<0.150	0.150	09/20/2024	ND	6.89	115	6.00	0.375		
Total BTEx	<0.300	0.300	09/20/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	09/20/2024	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2024	ND	223	111	200	0.663	
DRO >C10-C28*	<10.0	10.0	09/19/2024	ND	223	111	200	1.52	
EXT DRO >C28-C36	<10.0	10.0	09/19/2024	ND					

Surrogate: 1-Chlorooctane 93.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Analytical Results For:

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

Received: 09/18/2024
 Reported: 09/23/2024
 Project Name: WOODY CTB 1
 Project Number: 20415
 Project Location: PERMIAN 32.55641, -103.447308

Sampling Date: 09/16/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 13 @ 6" (H245684-13)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/20/2024	ND	2.16	108	2.00	0.377		
Toluene*	<0.050	0.050	09/20/2024	ND	2.24	112	2.00	0.262		
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	2.28	114	2.00	0.403		
Total Xylenes*	<0.150	0.150	09/20/2024	ND	6.89	115	6.00	0.375		
Total BTEX	<0.300	0.300	09/20/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	09/20/2024	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2024	ND	223	111	200	0.663	
DRO >C10-C28*	<10.0	10.0	09/19/2024	ND	223	111	200	1.52	
EXT DRO >C28-C36	<10.0	10.0	09/19/2024	ND					

Surrogate: 1-Chlorooctane 97.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/18/2024
 Reported: 09/23/2024
 Project Name: WOODY CTB 1
 Project Number: 20415
 Project Location: PERMIAN 32.55641, -103.447308

Sampling Date: 09/16/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 14 @ 1' (H245684-14)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/20/2024	ND	2.16	108	2.00	0.377		
Toluene*	<0.050	0.050	09/20/2024	ND	2.24	112	2.00	0.262		
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	2.28	114	2.00	0.403		
Total Xylenes*	<0.150	0.150	09/20/2024	ND	6.89	115	6.00	0.375		
Total BTEX	<0.300	0.300	09/20/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	09/19/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2024	ND	223	111	200	0.663	
DRO >C10-C28*	<10.0	10.0	09/19/2024	ND	223	111	200	1.52	
EXT DRO >C28-C36	<10.0	10.0	09/19/2024	ND					

Surrogate: 1-Chlorooctane 98.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/18/2024
 Reported: 09/23/2024
 Project Name: WOODY CTB 1
 Project Number: 20415
 Project Location: PERMIAN 32.55641, -103.447308

Sampling Date: 09/16/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 15 @ 8" (H245684-15)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/20/2024	ND	2.16	108	2.00	0.377		
Toluene*	<0.050	0.050	09/20/2024	ND	2.24	112	2.00	0.262		
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	2.28	114	2.00	0.403		
Total Xylenes*	<0.150	0.150	09/20/2024	ND	6.89	115	6.00	0.375		
Total BTEX	<0.300	0.300	09/20/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	09/19/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2024	ND	223	111	200	0.663	
DRO >C10-C28*	<10.0	10.0	09/19/2024	ND	223	111	200	1.52	
EXT DRO >C28-C36	<10.0	10.0	09/19/2024	ND					

Surrogate: 1-Chlorooctane 89.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 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
 ROBBIE RUNNELS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 09/18/2024
 Reported: 09/23/2024
 Project Name: WOODY CTB 1
 Project Number: 20415
 Project Location: PERMIAN 32.55641, -103.447308

Sampling Date: 09/16/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 16 @ 8" (H245684-16)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/20/2024	ND	2.16	108	2.00	0.377		
Toluene*	<0.050	0.050	09/20/2024	ND	2.24	112	2.00	0.262		
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	2.28	114	2.00	0.403		
Total Xylenes*	<0.150	0.150	09/20/2024	ND	6.89	115	6.00	0.375		
Total BTEX	<0.300	0.300	09/20/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	09/19/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2024	ND	223	111	200	0.663	
DRO >C10-C28*	<10.0	10.0	09/19/2024	ND	223	111	200	1.52	
EXT DRO >C28-C36	<10.0	10.0	09/19/2024	ND					

Surrogate: 1-Chlorooctane 98.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/18/2024
 Reported: 09/23/2024
 Project Name: WOODY CTB 1
 Project Number: 20415
 Project Location: PERMIAN 32.55641, -103.447308

Sampling Date: 09/16/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 17 @ 1' (H245684-17)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/20/2024	ND	2.16	108	2.00	0.377	
Toluene*	<0.050	0.050	09/20/2024	ND	2.24	112	2.00	0.262	
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	2.28	114	2.00	0.403	
Total Xylenes*	<0.150	0.150	09/20/2024	ND	6.89	115	6.00	0.375	
Total BTEX	<0.300	0.300	09/20/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	09/19/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2024	ND	223	111	200	0.663	
DRO >C10-C28*	<10.0	10.0	09/19/2024	ND	223	111	200	1.52	
EXT DRO >C28-C36	<10.0	10.0	09/19/2024	ND					

Surrogate: 1-Chlorooctane 99.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 09/18/2024
 Reported: 09/23/2024
 Project Name: WOODY CTB 1
 Project Number: 20415
 Project Location: PERMIAN 32.55641, -103.447308

Sampling Date: 09/16/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 18 @ 8" (H245684-18)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/20/2024	ND	2.16	108	2.00	0.377	
Toluene*	<0.050	0.050	09/20/2024	ND	2.24	112	2.00	0.262	
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	2.28	114	2.00	0.403	
Total Xylenes*	<0.150	0.150	09/20/2024	ND	6.89	115	6.00	0.375	
Total BTEX	<0.300	0.300	09/20/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	09/19/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2024	ND	223	111	200	0.663	
DRO >C10-C28*	<10.0	10.0	09/19/2024	ND	223	111	200	1.52	
EXT DRO >C28-C36	<10.0	10.0	09/19/2024	ND					

Surrogate: 1-Chlorooctane 95.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/18/2024
 Reported: 09/23/2024
 Project Name: WOODY CTB 1
 Project Number: 20415
 Project Location: PERMIAN 32.55641, -103.447308

Sampling Date: 09/16/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 20 @ 8" (H245684-19)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/20/2024	ND	2.16	108	2.00	0.377	
Toluene*	<0.050	0.050	09/20/2024	ND	2.24	112	2.00	0.262	
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	2.28	114	2.00	0.403	
Total Xylenes*	<0.150	0.150	09/20/2024	ND	6.89	115	6.00	0.375	
Total BTEX	<0.300	0.300	09/20/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	09/19/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2024	ND	223	111	200	0.663	
DRO >C10-C28*	<10.0	10.0	09/19/2024	ND	223	111	200	1.52	
EXT DRO >C28-C36	<10.0	10.0	09/19/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 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
 ROBBIE RUNNELS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 09/18/2024
 Reported: 09/23/2024
 Project Name: WOODY CTB 1
 Project Number: 20415
 Project Location: PERMIAN 32.55641, -103.447308

Sampling Date: 09/16/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 21 @ 8" (H245684-20)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/20/2024	ND	2.16	108	2.00	0.377		
Toluene*	<0.050	0.050	09/20/2024	ND	2.24	112	2.00	0.262		
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	2.28	114	2.00	0.403		
Total Xylenes*	<0.150	0.150	09/20/2024	ND	6.89	115	6.00	0.375		
Total BTEx	<0.300	0.300	09/20/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	09/19/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2024	ND	223	111	200	0.663	
DRO >C10-C28*	<10.0	10.0	09/19/2024	ND	223	111	200	1.52	
EXT DRO >C28-C36	<10.0	10.0	09/19/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/18/2024
 Reported: 09/23/2024
 Project Name: WOODY CTB 1
 Project Number: 20415
 Project Location: PERMIAN 32.55641, -103.447308

Sampling Date: 09/16/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 22 @ 8" (H245684-21)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/20/2024	ND	2.16	108	2.00	0.377	
Toluene*	<0.050	0.050	09/20/2024	ND	2.24	112	2.00	0.262	
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	2.28	114	2.00	0.403	
Total Xylenes*	<0.150	0.150	09/20/2024	ND	6.89	115	6.00	0.375	
Total BTEX	<0.300	0.300	09/20/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	09/19/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2024	ND	223	111	200	0.663	
DRO >C10-C28*	<10.0	10.0	09/19/2024	ND	223	111	200	1.52	
EXT DRO >C28-C36	<10.0	10.0	09/19/2024	ND					

Surrogate: 1-Chlorooctane 92.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

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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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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

Company Name: Etech Environmental & Safety Solutions, Inc.										BILL TO										ANALYSIS REQUEST									
Project Manager: Robbie Runnels										P.O. #:																			
Address: 2617 West Marland										Company: Permian Resources																			
City: Hobbs										Attn: Montgomery Floyd																			
Phone #: (575) 264-9884										Address:																			
Project #: 20415										City:																			
Project Name: Woody CTB 1										State: Zip:																			
Project Location: 32.55641, -103.447308										Phone #:																			
Sampler Name: Robbie Runnels										Fax #:																			
FOR LAB USE ONLY										MATRIX										PRESERV.									
Lab I.D.										Sample I.D.																			
Handwritten: H245084										(G)RAB OR (C)OMP.																			
										# CONTAINERS																			
										GROUNDWATER																			
										WASTEWATER																			
										SOIL																			
										OIL																			
										SLUDGE																			
										OTHER :																			
										ACID/BASE:																			
										ICE / COOL																			
										OTHER :																			
										DATE										TIME									
FL 1 @ 8"										C 1										X									
FL 2 @ 1.5'										C 1										X									
FL 3 @ 1'										C 1										X									
FL 4 @ 1.5'										C 1										X									
FL 5 @ 1'										C 1										X									
FL 6 @ 8"										C 1										X									
FL 7 @ 1.5'										C 1										X									
FL 8 @ 8"										C 1										X									
FL 9 @ 1'										C 1										X									
FL 10 @ 1'										C 1										X									
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Relinquished By: [Signature]										Received By: [Signature]																			
Date: [Date]										Time: [Time]																			
Time: [Time]										Received By: [Signature]																			
Delivered By: (Circle One)										Observed Temp. °C										Sample Condition									
Sampler - UPS - Bus - Other:										Corrected Temp. °C										Cool Intact									
										-9.1°C										# Yes # Yes									
										-9.1°C										No No No									
																				Checked By: [Signature]									
																				Turnaround Time:									
																				Standard									
																				Rush									
																				Bacteria (only) Sample Condition									
																				Cool Intact									
																				Observed Temp. °C									
																				Corrected Temp. °C									



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc.

Project Manager: Robbie Runnels

Address: 2617 West Marland

City: Hobbs

Phone #: (575) 264-9884

Project #: 20415

Project Name: Woody CTB 1

Project Location: 32.55641, -103.447308

Sampler Name: Robbie Runnels

BILL TO

P.O. #:

Company: Permian Resources

Attn: Montgomery Floyd

Address:

City:

State: Zip:

Phone #:

Fax #:

ANALYSIS REQUEST

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	Chloride						TPH (8015M)						BTEX (8021B)					
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :																				
11	FL 11 @ 1'	C	1	X						9/16/24		X	X	X				X	X	X									
12	FL 12 @ 1'	C	1	X						9/16/24		X	X	X				X	X	X									
13	FL 13 @ 6"	C	1	X						9/16/24		X	X	X				X	X	X									
14	FL 14 @ 1'	C	1	X						9/16/24		X	X	X				X	X	X									
15	FL 15 @ 8"	C	1	X						9/16/24		X	X	X				X	X	X									
16	FL 16 @ 8"	C	1	X						9/16/24		X	X	X				X	X	X									
17	FL 17 @ 1'	C	1	X						9/16/24		X	X	X				X	X	X									
18	FL 18 @ 8"	C	1	X						9/16/24		X	X	X				X	X	X									
19	FL 20 @ 8"	C	1	X						9/16/24		X	X	X				X	X	X									
20	FL 21 @ 8"	C	1	X						9/16/24		X	X	X				X	X	X									

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Relinquished By:

Relinquished By: [Signature]

Date: 9-18-24

Time: 1441

Received By:

Received By: [Signature]

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

All Results are emailed. Please provide Email address: pm@etechnv.com

REMARKS:

REMARKS:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Observed Temp. °C

Corrected Temp. °C

Sample Condition

Cool Intact

CHECKED BY: (Initials)

Turnaround Time:

Standard

Rush

Bacteria (only)

Cool Intact

Sample Condition

Observed Temp. °C



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(575) 393-2326 FAX (575) 393-2476
Etech Environmental & Safety Solutions

Page 3 of 3

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

September 25, 2024

ROBBIE RUNNELS

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: WOODY CTB 1

Enclosed are the results of analyses for samples received by the laboratory on 09/19/24 14:55.

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

Cardinal Laboratories is 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".

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:	09/19/2024	Sampling Date:	09/18/2024
Reported:	09/25/2024	Sampling Type:	Soil
Project Name:	WOODY CTB 1	Sampling Condition:	Cool & Intact
Project Number:	20415	Sample Received By:	Alyssa Parras
Project Location:	PERMIAN 32.55641, -103.447308		

Sample ID: FL 19 @ 1.5' (H245727-01)

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	09/20/2024	ND	2.26	113	2.00	2.86		
Toluene*	<0.050	0.050	09/20/2024	ND	2.10	105	2.00	1.45		
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	2.11	105	2.00	0.620		
Total Xylenes*	<0.150	0.150	09/20/2024	ND	6.34	106	6.00	0.358		
Total BTX	<0.300	0.300	09/20/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/20/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/20/2024	ND	196	98.0	200	3.03	
DRO >C10-C28*	<10.0	10.0	09/20/2024	ND	184	92.2	200	4.47	
EXT DRO >C28-C36	<10.0	10.0	09/20/2024	ND					

Surrogate: 1-Chlorooctane 82.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.0 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/19/2024	Sampling Date:	09/18/2024
Reported:	09/25/2024	Sampling Type:	Soil
Project Name:	WOODY CTB 1	Sampling Condition:	Cool & Intact
Project Number:	20415	Sample Received By:	Alyssa Parras
Project Location:	PERMIAN 32.55641, -103.447308		

Sample ID: FL 23 @ 2' (H245727-02)

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	09/20/2024	ND	2.26	113	2.00	2.86		
Toluene*	<0.050	0.050	09/20/2024	ND	2.10	105	2.00	1.45		
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	2.11	105	2.00	0.620		
Total Xylenes*	<0.150	0.150	09/20/2024	ND	6.34	106	6.00	0.358		
Total BTEX	<0.300	0.300	09/20/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	09/20/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/20/2024	ND	196	98.0	200	3.03	
DRO >C10-C28*	<10.0	10.0	09/20/2024	ND	184	92.2	200	4.47	
EXT DRO >C28-C36	<10.0	10.0	09/20/2024	ND					

Surrogate: 1-Chlorooctane 81.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/19/2024
 Reported: 09/25/2024
 Project Name: WOODY CTB 1
 Project Number: 20415
 Project Location: PERMIAN 32.55641, -103.447308

Sampling Date: 09/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 24 @ 1.5' (H245727-03)

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	09/20/2024	ND	2.26	113	2.00	2.86		
Toluene*	<0.050	0.050	09/20/2024	ND	2.10	105	2.00	1.45		
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	2.11	105	2.00	0.620		
Total Xylenes*	<0.150	0.150	09/20/2024	ND	6.34	106	6.00	0.358		
Total BTEx	<0.300	0.300	09/20/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	09/20/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/20/2024	ND	196	98.0	200	3.03	
DRO >C10-C28*	<10.0	10.0	09/20/2024	ND	184	92.2	200	4.47	
EXT DRO >C28-C36	<10.0	10.0	09/20/2024	ND					

Surrogate: 1-Chlorooctane 81.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/19/2024	Sampling Date:	09/18/2024
Reported:	09/25/2024	Sampling Type:	Soil
Project Name:	WOODY CTB 1	Sampling Condition:	Cool & Intact
Project Number:	20415	Sample Received By:	Alyssa Parras
Project Location:	PERMIAN 32.55641, -103.447308		

Sample ID: FL 25 @ 1' (H245727-04)

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	09/20/2024	ND	2.26	113	2.00	2.86		
Toluene*	<0.050	0.050	09/20/2024	ND	2.10	105	2.00	1.45		
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	2.11	105	2.00	0.620		
Total Xylenes*	<0.150	0.150	09/20/2024	ND	6.34	106	6.00	0.358		
Total BTEX	<0.300	0.300	09/20/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	09/20/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/20/2024	ND	196	98.0	200	3.03	
DRO >C10-C28*	<10.0	10.0	09/20/2024	ND	184	92.2	200	4.47	
EXT DRO >C28-C36	<10.0	10.0	09/20/2024	ND					

Surrogate: 1-Chlorooctane 84.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/19/2024
 Reported: 09/25/2024
 Project Name: WOODY CTB 1
 Project Number: 20415
 Project Location: PERMIAN 32.55641, -103.447308

Sampling Date: 09/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 26 @ 8" (H245727-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/20/2024	ND	2.26	113	2.00	2.86		
Toluene*	<0.050	0.050	09/20/2024	ND	2.10	105	2.00	1.45		
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	2.11	105	2.00	0.620		
Total Xylenes*	<0.150	0.150	09/20/2024	ND	6.34	106	6.00	0.358		
Total BTEx	<0.300	0.300	09/20/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	09/20/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/20/2024	ND	196	98.0	200	3.03	
DRO >C10-C28*	<10.0	10.0	09/20/2024	ND	184	92.2	200	4.47	
EXT DRO >C28-C36	<10.0	10.0	09/20/2024	ND					

Surrogate: 1-Chlorooctane 71.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 63.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/19/2024
 Reported: 09/25/2024
 Project Name: WOODY CTB 1
 Project Number: 20415
 Project Location: PERMIAN 32.55641, -103.447308

Sampling Date: 09/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 27 @ 8" (H245727-06)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/20/2024	ND	2.26	113	2.00	2.86		
Toluene*	<0.050	0.050	09/20/2024	ND	2.10	105	2.00	1.45		
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	2.11	105	2.00	0.620		
Total Xylenes*	<0.150	0.150	09/20/2024	ND	6.34	106	6.00	0.358		
Total BTEX	<0.300	0.300	09/20/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	528	16.0	09/20/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/20/2024	ND	196	98.0	200	3.03	
DRO >C10-C28*	<10.0	10.0	09/20/2024	ND	184	92.2	200	4.47	
EXT DRO >C28-C36	<10.0	10.0	09/20/2024	ND					

Surrogate: 1-Chlorooctane 80.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/19/2024	Sampling Date:	09/18/2024
Reported:	09/25/2024	Sampling Type:	Soil
Project Name:	WOODY CTB 1	Sampling Condition:	Cool & Intact
Project Number:	20415	Sample Received By:	Alyssa Parras
Project Location:	PERMIAN 32.55641, -103.447308		

Sample ID: FL 28 @ 2' (H245727-07)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/20/2024	ND	2.26	113	2.00	2.86		
Toluene*	<0.050	0.050	09/20/2024	ND	2.10	105	2.00	1.45		
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	2.11	105	2.00	0.620		
Total Xylenes*	<0.150	0.150	09/20/2024	ND	6.34	106	6.00	0.358		
Total BTEX	<0.300	0.300	09/20/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/20/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/20/2024	ND	196	98.0	200	3.03	
DRO >C10-C28*	<10.0	10.0	09/20/2024	ND	184	92.2	200	4.47	
EXT DRO >C28-C36	<10.0	10.0	09/20/2024	ND					

Surrogate: 1-Chlorooctane 80.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.4 % 49.1-148

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Analytical Results For:

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

Received:	09/19/2024	Sampling Date:	09/18/2024
Reported:	09/25/2024	Sampling Type:	Soil
Project Name:	WOODY CTB 1	Sampling Condition:	Cool & Intact
Project Number:	20415	Sample Received By:	Alyssa Parras
Project Location:	PERMIAN 32.55641, -103.447308		

Sample ID: FL 29 @ 8" (H245727-08)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/20/2024	ND	2.26	113	2.00	2.86		
Toluene*	<0.050	0.050	09/20/2024	ND	2.10	105	2.00	1.45		
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	2.11	105	2.00	0.620		
Total Xylenes*	<0.150	0.150	09/20/2024	ND	6.34	106	6.00	0.358		
Total BTEX	<0.300	0.300	09/20/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	09/20/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/20/2024	ND	196	98.0	200	3.03		
DRO >C10-C28*	<10.0	10.0	09/20/2024	ND	184	92.2	200	4.47		
EXT DRO >C28-C36	<10.0	10.0	09/20/2024	ND						

Surrogate: 1-Chlorooctane 83.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/19/2024	Sampling Date:	09/18/2024
Reported:	09/25/2024	Sampling Type:	Soil
Project Name:	WOODY CTB 1	Sampling Condition:	Cool & Intact
Project Number:	20415	Sample Received By:	Alyssa Parras
Project Location:	PERMIAN 32.55641, -103.447308		

Sample ID: FL 30 @ 1' (H245727-09)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/20/2024	ND	2.26	113	2.00	2.86		
Toluene*	<0.050	0.050	09/20/2024	ND	2.10	105	2.00	1.45		
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	2.11	105	2.00	0.620		
Total Xylenes*	<0.150	0.150	09/20/2024	ND	6.34	106	6.00	0.358		
Total BTEX	<0.300	0.300	09/20/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 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	112	16.0	09/20/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/20/2024	ND	196	98.0	200	3.03	
DRO >C10-C28*	<10.0	10.0	09/20/2024	ND	184	92.2	200	4.47	
EXT DRO >C28-C36	<10.0	10.0	09/20/2024	ND					

Surrogate: 1-Chlorooctane 83.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/19/2024	Sampling Date:	09/18/2024
Reported:	09/25/2024	Sampling Type:	Soil
Project Name:	WOODY CTB 1	Sampling Condition:	Cool & Intact
Project Number:	20415	Sample Received By:	Alyssa Parras
Project Location:	PERMIAN 32.55641, -103.447308		

Sample ID: FL 31 @ 2' (H245727-10)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/20/2024	ND	2.26	113	2.00	2.86	
Toluene*	<0.050	0.050	09/20/2024	ND	2.10	105	2.00	1.45	
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	2.11	105	2.00	0.620	
Total Xylenes*	<0.150	0.150	09/20/2024	ND	6.34	106	6.00	0.358	
Total BTEX	<0.300	0.300	09/20/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/20/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/20/2024	ND	196	98.0	200	3.03	
DRO >C10-C28*	<10.0	10.0	09/20/2024	ND	184	92.2	200	4.47	
EXT DRO >C28-C36	<10.0	10.0	09/20/2024	ND					

Surrogate: 1-Chlorooctane 79.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.3 % 49.1-148

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Analytical Results For:

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

Received:	09/19/2024	Sampling Date:	09/18/2024
Reported:	09/25/2024	Sampling Type:	Soil
Project Name:	WOODY CTB 1	Sampling Condition:	Cool & Intact
Project Number:	20415	Sample Received By:	Alyssa Parras
Project Location:	PERMIAN 32.55641, -103.447308		

Sample ID: FL 32 @ 1.5' (H245727-11)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/20/2024	ND	2.26	113	2.00	2.86		
Toluene*	<0.050	0.050	09/20/2024	ND	2.10	105	2.00	1.45		
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	2.11	105	2.00	0.620		
Total Xylenes*	<0.150	0.150	09/20/2024	ND	6.34	106	6.00	0.358		
Total BTEX	<0.300	0.300	09/20/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	09/20/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/20/2024	ND	196	98.0	200	3.03	
DRO >C10-C28*	<10.0	10.0	09/20/2024	ND	184	92.2	200	4.47	
EXT DRO >C28-C36	<10.0	10.0	09/20/2024	ND					

Surrogate: 1-Chlorooctane 76.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 69.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/19/2024
 Reported: 09/25/2024
 Project Name: WOODY CTB 1
 Project Number: 20415
 Project Location: PERMIAN 32.55641, -103.447308

Sampling Date: 09/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 33 @ 1' (H245727-12)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/21/2024	ND	2.26	113	2.00	2.86	
Toluene*	<0.050	0.050	09/21/2024	ND	2.10	105	2.00	1.45	
Ethylbenzene*	<0.050	0.050	09/21/2024	ND	2.11	105	2.00	0.620	
Total Xylenes*	<0.150	0.150	09/21/2024	ND	6.34	106	6.00	0.358	
Total BTEX	<0.300	0.300	09/21/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/20/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/20/2024	ND	196	98.0	200	3.03	
DRO >C10-C28*	<10.0	10.0	09/20/2024	ND	184	92.2	200	4.47	
EXT DRO >C28-C36	<10.0	10.0	09/20/2024	ND					

Surrogate: 1-Chlorooctane 81.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.6 % 49.1-148

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Analytical Results For:

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

Received:	09/19/2024	Sampling Date:	09/18/2024
Reported:	09/25/2024	Sampling Type:	Soil
Project Name:	WOODY CTB 1	Sampling Condition:	Cool & Intact
Project Number:	20415	Sample Received By:	Alyssa Parras
Project Location:	PERMIAN 32.55641, -103.447308		

Sample ID: FL 34 @ 8" (H245727-13)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/21/2024	ND	2.26	113	2.00	2.86		
Toluene*	<0.050	0.050	09/21/2024	ND	2.10	105	2.00	1.45		
Ethylbenzene*	<0.050	0.050	09/21/2024	ND	2.11	105	2.00	0.620		
Total Xylenes*	<0.150	0.150	09/21/2024	ND	6.34	106	6.00	0.358		
Total BTEX	<0.300	0.300	09/21/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	09/20/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/20/2024	ND	196	98.0	200	3.03		
DRO >C10-C28*	<10.0	10.0	09/20/2024	ND	184	92.2	200	4.47		
EXT DRO >C28-C36	<10.0	10.0	09/20/2024	ND						

Surrogate: 1-Chlorooctane 81.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 09/19/2024
 Reported: 09/25/2024
 Project Name: WOODY CTB 1
 Project Number: 20415
 Project Location: PERMIAN 32.55641, -103.447308

Sampling Date: 09/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 35 @ 1.5' (H245727-14)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/21/2024	ND	2.26	113	2.00	2.86		
Toluene*	<0.050	0.050	09/21/2024	ND	2.10	105	2.00	1.45		
Ethylbenzene*	<0.050	0.050	09/21/2024	ND	2.11	105	2.00	0.620		
Total Xylenes*	<0.150	0.150	09/21/2024	ND	6.34	106	6.00	0.358		
Total BTEX	<0.300	0.300	09/21/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/20/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/20/2024	ND	196	98.0	200	3.03	
DRO >C10-C28*	<10.0	10.0	09/20/2024	ND	184	92.2	200	4.47	
EXT DRO >C28-C36	<10.0	10.0	09/20/2024	ND					

Surrogate: 1-Chlorooctane 71.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 65.3 % 49.1-148

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Analytical Results For:

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

Received: 09/19/2024
 Reported: 09/25/2024
 Project Name: WOODY CTB 1
 Project Number: 20415
 Project Location: PERMIAN 32.55641, -103.447308

Sampling Date: 09/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 36 @ 1' (H245727-15)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/20/2024	ND	2.13	107	2.00	3.27	
Toluene*	<0.050	0.050	09/20/2024	ND	2.21	110	2.00	2.49	
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	2.24	112	2.00	1.66	
Total Xylenes*	<0.150	0.150	09/20/2024	ND	6.81	114	6.00	1.52	
Total BTEX	<0.300	0.300	09/20/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/20/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/20/2024	ND	196	98.0	200	3.03	
DRO >C10-C28*	<10.0	10.0	09/20/2024	ND	184	92.2	200	4.47	
EXT DRO >C28-C36	<10.0	10.0	09/20/2024	ND					

Surrogate: 1-Chlorooctane 78.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.5 % 49.1-148

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Analytical Results For:

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

Received: 09/19/2024
 Reported: 09/25/2024
 Project Name: WOODY CTB 1
 Project Number: 20415
 Project Location: PERMIAN 32.55641, -103.447308

Sampling Date: 09/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 37 @ 1' (H245727-16)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/20/2024	ND	2.13	107	2.00	3.27	
Toluene*	<0.050	0.050	09/20/2024	ND	2.21	110	2.00	2.49	
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	2.24	112	2.00	1.66	
Total Xylenes*	<0.150	0.150	09/20/2024	ND	6.81	114	6.00	1.52	
Total BTEX	<0.300	0.300	09/20/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	09/20/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/20/2024	ND	196	98.0	200	3.03	
DRO >C10-C28*	<10.0	10.0	09/20/2024	ND	184	92.2	200	4.47	
EXT DRO >C28-C36	<10.0	10.0	09/20/2024	ND					

Surrogate: 1-Chlorooctane 80.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.3 % 49.1-148

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Analytical Results For:

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

Received: 09/19/2024
 Reported: 09/25/2024
 Project Name: WOODY CTB 1
 Project Number: 20415
 Project Location: PERMIAN 32.55641, -103.447308

Sampling Date: 09/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 38 @ 1.5' (H245727-17)

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	09/20/2024	ND	2.13	107	2.00	3.27		
Toluene*	<0.050	0.050	09/20/2024	ND	2.21	110	2.00	2.49		
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	2.24	112	2.00	1.66		
Total Xylenes*	<0.150	0.150	09/20/2024	ND	6.81	114	6.00	1.52		
Total BTX	<0.300	0.300	09/20/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/20/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/20/2024	ND	196	98.0	200	3.03	
DRO >C10-C28*	<10.0	10.0	09/20/2024	ND	184	92.2	200	4.47	
EXT DRO >C28-C36	<10.0	10.0	09/20/2024	ND					

Surrogate: 1-Chlorooctane 81.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.7 % 49.1-148

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Analytical Results For:

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

Received: 09/19/2024
 Reported: 09/25/2024
 Project Name: WOODY CTB 1
 Project Number: 20415
 Project Location: PERMIAN 32.55641, -103.447308

Sampling Date: 09/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 39 @ 1.5' (H245727-18)

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	09/20/2024	ND	2.13	107	2.00	3.27		
Toluene*	<0.050	0.050	09/20/2024	ND	2.21	110	2.00	2.49		
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	2.24	112	2.00	1.66		
Total Xylenes*	<0.150	0.150	09/20/2024	ND	6.81	114	6.00	1.52		
Total BTX	<0.300	0.300	09/20/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	09/20/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/20/2024	ND	196	98.0	200	3.03	
DRO >C10-C28*	<10.0	10.0	09/20/2024	ND	184	92.2	200	4.47	
EXT DRO >C28-C36	<10.0	10.0	09/20/2024	ND					

Surrogate: 1-Chlorooctane 83.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.2 % 49.1-148

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Analytical Results For:

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

Received: 09/19/2024
 Reported: 09/25/2024
 Project Name: WOODY CTB 1
 Project Number: 20415
 Project Location: PERMIAN 32.55641, -103.447308

Sampling Date: 09/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 40 @ 1' (H245727-19)

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	09/20/2024	ND	2.13	107	2.00	3.27	
Toluene*	<0.050	0.050	09/20/2024	ND	2.21	110	2.00	2.49	
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	2.24	112	2.00	1.66	
Total Xylenes*	<0.150	0.150	09/20/2024	ND	6.81	114	6.00	1.52	
Total BTX	<0.300	0.300	09/20/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	09/20/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/21/2024	ND	196	98.0	200	3.03	
DRO >C10-C28*	<10.0	10.0	09/21/2024	ND	184	92.2	200	4.47	
EXT DRO >C28-C36	<10.0	10.0	09/21/2024	ND					

Surrogate: 1-Chlorooctane 83.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.7 % 49.1-148

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Analytical Results For:

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

Received: 09/19/2024
 Reported: 09/25/2024
 Project Name: WOODY CTB 1
 Project Number: 20415
 Project Location: PERMIAN 32.55641, -103.447308

Sampling Date: 09/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 41 @ 1.5' (H245727-20)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/20/2024	ND	2.13	107	2.00	3.27		
Toluene*	<0.050	0.050	09/20/2024	ND	2.21	110	2.00	2.49		
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	2.24	112	2.00	1.66		
Total Xylenes*	<0.150	0.150	09/20/2024	ND	6.81	114	6.00	1.52		
Total BTEx	<0.300	0.300	09/20/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	09/20/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/20/2024	ND	192	96.2	200	1.92	
DRO >C10-C28*	<10.0	10.0	09/20/2024	ND	195	97.6	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	09/20/2024	ND					

Surrogate: 1-Chlorooctane 83.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.8 % 49.1-148

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Analytical Results For:

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

Received: 09/19/2024
 Reported: 09/25/2024
 Project Name: WOODY CTB 1
 Project Number: 20415
 Project Location: PERMIAN 32.55641, -103.447308

Sampling Date: 09/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 42 @ 8" (H245727-21)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/20/2024	ND	2.13	107	2.00	3.27		
Toluene*	<0.050	0.050	09/20/2024	ND	2.21	110	2.00	2.49		
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	2.24	112	2.00	1.66		
Total Xylenes*	<0.150	0.150	09/20/2024	ND	6.81	114	6.00	1.52		
Total BTEX	<0.300	0.300	09/20/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	09/20/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/20/2024	ND	192	96.2	200	1.92	
DRO >C10-C28*	<10.0	10.0	09/20/2024	ND	195	97.6	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	09/20/2024	ND					

Surrogate: 1-Chlorooctane 85.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.0 % 49.1-148

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Analytical Results For:

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

Received: 09/19/2024
 Reported: 09/25/2024
 Project Name: WOODY CTB 1
 Project Number: 20415
 Project Location: PERMIAN 32.55641, -103.447308

Sampling Date: 09/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 43 @ 2' (H245727-22)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/20/2024	ND	2.13	107	2.00	3.27		
Toluene*	<0.050	0.050	09/20/2024	ND	2.21	110	2.00	2.49		
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	2.24	112	2.00	1.66		
Total Xylenes*	<0.150	0.150	09/20/2024	ND	6.81	114	6.00	1.52		
Total BTEX	<0.300	0.300	09/20/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	09/20/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/20/2024	ND	192	96.2	200	1.92	
DRO >C10-C28*	<10.0	10.0	09/20/2024	ND	195	97.6	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	09/20/2024	ND					

Surrogate: 1-Chlorooctane 85.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.3 % 49.1-148

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Analytical Results For:

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

Received: 09/19/2024
 Reported: 09/25/2024
 Project Name: WOODY CTB 1
 Project Number: 20415
 Project Location: PERMIAN 32.55641, -103.447308

Sampling Date: 09/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 44 @ 1.5' (H245727-23)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/20/2024	ND	2.13	107	2.00	3.27	
Toluene*	<0.050	0.050	09/20/2024	ND	2.21	110	2.00	2.49	
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	2.24	112	2.00	1.66	
Total Xylenes*	<0.150	0.150	09/20/2024	ND	6.81	114	6.00	1.52	
Total BTEX	<0.300	0.300	09/20/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/20/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/20/2024	ND	192	96.2	200	1.92	
DRO >C10-C28*	<10.0	10.0	09/20/2024	ND	195	97.6	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	09/20/2024	ND					

Surrogate: 1-Chlorooctane 79.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 67.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/19/2024
 Reported: 09/25/2024
 Project Name: WOODY CTB 1
 Project Number: 20415
 Project Location: PERMIAN 32.55641, -103.447308

Sampling Date: 09/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 45 @ 1' (H245727-24)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/20/2024	ND	2.13	107	2.00	3.27	
Toluene*	<0.050	0.050	09/20/2024	ND	2.21	110	2.00	2.49	
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	2.24	112	2.00	1.66	
Total Xylenes*	<0.150	0.150	09/20/2024	ND	6.81	114	6.00	1.52	
Total BTEX	<0.300	0.300	09/20/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/20/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/20/2024	ND	192	96.2	200	1.92	
DRO >C10-C28*	<10.0	10.0	09/20/2024	ND	195	97.6	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	09/20/2024	ND					

Surrogate: 1-Chlorooctane 86.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 09/19/2024
 Reported: 09/25/2024
 Project Name: WOODY CTB 1
 Project Number: 20415
 Project Location: PERMIAN 32.55641, -103.447308

Sampling Date: 09/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: NW 1 (H245727-25)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/20/2024	ND	2.13	107	2.00	3.27		
Toluene*	<0.050	0.050	09/20/2024	ND	2.21	110	2.00	2.49		
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	2.24	112	2.00	1.66		
Total Xylenes*	<0.150	0.150	09/20/2024	ND	6.81	114	6.00	1.52		
Total BTEX	<0.300	0.300	09/20/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	09/20/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/20/2024	ND	192	96.2	200	1.92	
DRO >C10-C28*	<10.0	10.0	09/20/2024	ND	195	97.6	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	09/20/2024	ND					

Surrogate: 1-Chlorooctane 85.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/19/2024	Sampling Date:	09/18/2024
Reported:	09/25/2024	Sampling Type:	Soil
Project Name:	WOODY CTB 1	Sampling Condition:	Cool & Intact
Project Number:	20415	Sample Received By:	Alyssa Parras
Project Location:	PERMIAN 32.55641, -103.447308		

Sample ID: NW 2 (H245727-26)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/20/2024	ND	2.13	107	2.00	3.27		
Toluene*	<0.050	0.050	09/20/2024	ND	2.21	110	2.00	2.49		
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	2.24	112	2.00	1.66		
Total Xylenes*	<0.150	0.150	09/20/2024	ND	6.81	114	6.00	1.52		
Total BTEX	<0.300	0.300	09/20/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	09/20/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/20/2024	ND	192	96.2	200	1.92	
DRO >C10-C28*	<10.0	10.0	09/20/2024	ND	195	97.6	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	09/20/2024	ND					

Surrogate: 1-Chlorooctane 88.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/19/2024
 Reported: 09/25/2024
 Project Name: WOODY CTB 1
 Project Number: 20415
 Project Location: PERMIAN 32.55641, -103.447308

Sampling Date: 09/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: EW 1 (H245727-27)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/20/2024	ND	2.13	107	2.00	3.27	
Toluene*	<0.050	0.050	09/20/2024	ND	2.21	110	2.00	2.49	
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	2.24	112	2.00	1.66	
Total Xylenes*	<0.150	0.150	09/20/2024	ND	6.81	114	6.00	1.52	
Total BTEX	<0.300	0.300	09/20/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/20/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/20/2024	ND	192	96.2	200	1.92	
DRO >C10-C28*	<10.0	10.0	09/20/2024	ND	195	97.6	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	09/20/2024	ND					

Surrogate: 1-Chlorooctane 76.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 64.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/19/2024	Sampling Date:	09/18/2024
Reported:	09/25/2024	Sampling Type:	Soil
Project Name:	WOODY CTB 1	Sampling Condition:	Cool & Intact
Project Number:	20415	Sample Received By:	Alyssa Parras
Project Location:	PERMIAN 32.55641, -103.447308		

Sample ID: EW 2 (H245727-28)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/20/2024	ND	2.13	107	2.00	3.27	
Toluene*	<0.050	0.050	09/20/2024	ND	2.21	110	2.00	2.49	
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	2.24	112	2.00	1.66	
Total Xylenes*	<0.150	0.150	09/20/2024	ND	6.81	114	6.00	1.52	
Total BTEx	<0.300	0.300	09/20/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	09/20/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/20/2024	ND	192	96.2	200	1.92	
DRO >C10-C28*	<10.0	10.0	09/20/2024	ND	195	97.6	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	09/20/2024	ND					

Surrogate: 1-Chlorooctane 86.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.4 % 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
 ROBBIE RUNNELS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	09/19/2024	Sampling Date:	09/18/2024
Reported:	09/25/2024	Sampling Type:	Soil
Project Name:	WOODY CTB 1	Sampling Condition:	Cool & Intact
Project Number:	20415	Sample Received By:	Alyssa Parras
Project Location:	PERMIAN 32.55641, -103.447308		

Sample ID: SW 1 (H245727-29)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/20/2024	ND	2.13	107	2.00	3.27		
Toluene*	<0.050	0.050	09/20/2024	ND	2.21	110	2.00	2.49		
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	2.24	112	2.00	1.66		
Total Xylenes*	<0.150	0.150	09/20/2024	ND	6.81	114	6.00	1.52		
Total BTEX	<0.300	0.300	09/20/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	09/20/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/20/2024	ND	192	96.2	200	1.92		
DRO >C10-C28*	<10.0	10.0	09/20/2024	ND	195	97.6	200	1.37		
EXT DRO >C28-C36	<10.0	10.0	09/20/2024	ND						

Surrogate: 1-Chlorooctane 80.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 66.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/19/2024
 Reported: 09/25/2024
 Project Name: WOODY CTB 1
 Project Number: 20415
 Project Location: PERMIAN 32.55641, -103.447308

Sampling Date: 09/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SW 2 (H245727-30)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/20/2024	ND	2.13	107	2.00	3.27	
Toluene*	<0.050	0.050	09/20/2024	ND	2.21	110	2.00	2.49	
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	2.24	112	2.00	1.66	
Total Xylenes*	<0.150	0.150	09/20/2024	ND	6.81	114	6.00	1.52	
Total BTEX	<0.300	0.300	09/20/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/20/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/20/2024	ND	192	96.2	200	1.92	
DRO >C10-C28*	<10.0	10.0	09/20/2024	ND	195	97.6	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	09/20/2024	ND					

Surrogate: 1-Chlorooctane 93.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/19/2024
 Reported: 09/25/2024
 Project Name: WOODY CTB 1
 Project Number: 20415
 Project Location: PERMIAN 32.55641, -103.447308

Sampling Date: 09/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: WW 1 (H245727-31)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/20/2024	ND	2.13	107	2.00	3.27	
Toluene*	<0.050	0.050	09/20/2024	ND	2.21	110	2.00	2.49	
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	2.24	112	2.00	1.66	
Total Xylenes*	<0.150	0.150	09/20/2024	ND	6.81	114	6.00	1.52	
Total BTEX	<0.300	0.300	09/20/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/20/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/20/2024	ND	192	96.2	200	1.92	
DRO >C10-C28*	<10.0	10.0	09/20/2024	ND	195	97.6	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	09/20/2024	ND					

Surrogate: 1-Chlorooctane 89.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/19/2024
 Reported: 09/25/2024
 Project Name: WOODY CTB 1
 Project Number: 20415
 Project Location: PERMIAN 32.55641, -103.447308

Sampling Date: 09/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: WW 2 (H245727-32)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/20/2024	ND	2.13	107	2.00	3.27	
Toluene*	<0.050	0.050	09/20/2024	ND	2.21	110	2.00	2.49	
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	2.24	112	2.00	1.66	
Total Xylenes*	<0.150	0.150	09/20/2024	ND	6.81	114	6.00	1.52	
Total BTEX	<0.300	0.300	09/20/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/20/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/20/2024	ND	192	96.2	200	1.92	
DRO >C10-C28*	<10.0	10.0	09/20/2024	ND	195	97.6	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	09/20/2024	ND					

Surrogate: 1-Chlorooctane 94.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.6 % 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

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

Etech Environmental & Safety Solutions, Inc.

Page 1 of 4

BILL TO

Company Name:	Elech Environmental & Safety Solutions, Inc.
Project Manager:	Robbie Runnels

Address: 2617 West Marland

City: Hobbs

Phone #: (575) 264-9884

Project #: 20415

Project Name: Woody CLE

Example Name	22.0004
Object Location	22.0004

FOR LAB USE ONLY	
------------------	--

FOR LAB USE ONLY

Champion Name: Robbie

Lab I.D.	Sample I.D.
----------	-------------

Haus 7a7

—

10

5	
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15

5

50

 ∞

9

10

LEASE NOTE: Liability and

...in no eventual case
 affiliates or successors arising

acquired by:

7

Revised By:

Delivered By: (Circ)

amplifier - UPS - B

FORM-0

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

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

[illegible]



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Eltech Environmental & Safety Solutions, Inc.

Project Manager: Robbie Runnels

Address: 2617 West Marland

City: Hobbs

Phone #: (575) 264-9884

Project #: 20415

Project Name: Woody CTB 1

Project Location: 32.55641, -103.447308

Sample Name: Robbie Runnels

FOR LAB USE ONLY

Lab I.D. Sample I.D.

Handwritten: H45707, 31, 88

WW 1
WW 2

(G)RAB OR (C)OMP.
CONTAINERS
GROUNDWATER
WASTEWATER
SOIL
OIL
SLUDGE
OTHER :
ACID/BASE:
ICE / COOL
OTHER :

DATE
TIME

Chloride
TPH (8015M)
BTEX (8021B)

BILL TO

ANALYSIS REQUEST

P.O. #:

Company: Permian Resources

Attn: Montgomery Floyd

Address:

City:

State: Zip:

Phone #:

Fax #:

PRESERV.

SAMPLING

LEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising from this 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:

Handwritten signature

Date: 9/19/24

Time: 1455

Date: 9/19/24

Time: 1455

Received By:

Handwritten signature

Date: 9/19/24

Time: 1455

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Observed Temp. °C

Corrected Temp. °C

Sample Condition

Cool Intact

CHECKED BY:

(Initials)

Turnaround Time:

Thermometer ID #140

Standard

Rush

Bacteria (only) Sample Condition

Cool Intact

Observed Temp. °C

Corrected Temp. °C

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

All Results are emailed. Please provide Email address:

pim@etechnv.com

REMARKS:



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

September 25, 2024

ROBBIE RUNNELS

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: WOODY CTB 1

Enclosed are the results of analyses for samples received by the laboratory on 09/19/24 14:55.

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

Cardinal Laboratories is 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:	09/19/2024	Sampling Date:	09/18/2024
Reported:	09/25/2024	Sampling Type:	Soil
Project Name:	WOODY CTB 1	Sampling Condition:	Cool & Intact
Project Number:	20415	Sample Received By:	Alyssa Parras
Project Location:	PERMIAN 32.55641, -103.447308		

Sample ID: SIMNS BACKFILL PIT (H245728-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/20/2024	ND	2.13	107	2.00	3.27	
Toluene*	<0.050	0.050	09/20/2024	ND	2.21	110	2.00	2.49	
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	2.24	112	2.00	1.66	
Total Xylenes*	<0.150	0.150	09/20/2024	ND	6.81	114	6.00	1.52	
Total BTEX	<0.300	0.300	09/20/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	09/20/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/20/2024	ND	192	96.2	200	1.92	
DRO >C10-C28*	<10.0	10.0	09/20/2024	ND	195	97.6	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	09/20/2024	ND					

Surrogate: 1-Chlorooctane 93.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.1 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

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 "C. D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

September 30, 2024

ROBBIE RUNNELS

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: WOODY CTB 1

Enclosed are the results of analyses for samples received by the laboratory on 09/27/24 8:17.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/27/2024
 Reported: 09/30/2024
 Project Name: WOODY CTB 1
 Project Number: 20415
 Project Location: PERMIAN 32.55641, -103.447308

Sampling Date: 09/25/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 6 @ 1' (H245886-01)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/27/2024	ND	2.14	107	2.00	10.1		
Toluene*	<0.050	0.050	09/27/2024	ND	2.21	110	2.00	9.46		
Ethylbenzene*	<0.050	0.050	09/27/2024	ND	2.21	111	2.00	9.51		
Total Xylenes*	<0.150	0.150	09/27/2024	ND	6.87	115	6.00	8.82		
Total BTEx	<0.300	0.300	09/27/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	09/27/2024	ND	432	108	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	09/27/2024	ND	224	112	200	2.02	
DRO >C10-C28*	<10.0	10.0	09/27/2024	ND	218	109	200	2.36	
EXT DRO >C28-C36	<10.0	10.0	09/27/2024	ND					

Surrogate: 1-Chlorooctane 99.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.9 % 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

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 "C. D. Keene", written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



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

Page 1 of 1

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Page 4 of 4

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Relinquished By:

Date: 8-27-24

Received By:

Verbal Result: ☐ Yes ☐ No Add'l Phone # _____
All Results are emailed. Please provide Email address: _____
nm@atachany.com

pm@etechnv.com

Relinquished By:

Date:

Received By:

REMARKS:

24 HOUR RUSH

Delivered By: (Circle One)

Observed Temp. °C

Sample Condition	Intact
------------------	--------

CHECKED BY:
(Initials)

Turnaround Time:

Standard
Rush

☒ ☐

Bacteria (only)
Cool **Intact**

Observed Temp. °C

Sampler - UPS - Bus - Other:

Corrected Temp. °C

☒ Yes ☐ No ☐ Yes ☐ No

2

Correction Factor -0.6°C

1

1

☐ No ☐ No

Corrected Temp. °C

Appendix D

Photographic Log

Photographic Log


Photo Number: 1	 A photograph showing a wide, flat, sandy area under a clear blue sky. In the foreground, there are yellow metal barriers and a large black pipe. In the distance, a white vehicle is visible on the horizon.
Photo Direction: Southwest	
Photo Description: Initial view of the affected area.	

Photo Number: 2	 A photograph showing a wide, flat, sandy area under a clear blue sky. In the background, there are several industrial structures, including tall towers and storage tanks.
Photo Direction: North	
Photo Description: Initial view of the affected area.	

Photographic Log

Photo Number: 3	 <p>Permian Resources Woody CTB 1 09.19.2024 10:11 AM 32.55639, -103.44715 Lea County, NM</p> <p>NW</p>
Photo Direction: Northwest	
Photo Description: Excavated Area	

Photo Number: 4	 <p>Permian Resources Woody CTB 1 09.19.2024 10:12 AM 32.55635, -103.44689 Lea County, NM</p> <p>W</p>
Photo Direction: West	
Photo Description: Excavated Area	

Photographic Log

Photo Number: 5	<div>10/2/24, 3:05 PM +32.556314,-103.446835 NM,Eunice</div>  A wide-angle photograph showing a large, flat, sandy area with numerous tire tracks. In the background, there is industrial equipment including a white storage tank, several dark spherical tanks, and a tall vertical tank. The sky is clear and blue.
Photo Direction: West	
Photo Description: Area backfilled	

Photo Number: 6	<div>10/2/24, 3:05 PM +32.556314,-103.446835 NM,Eunice</div>  A photograph showing a different view of the same industrial site. It features a white storage tank, dark spherical tanks, and a tall vertical tank. The foreground is a sandy area with tire tracks. The sky is clear and blue.
Photo Direction: North	
Photo Description: Backfilled area.	

Appendix E

Regulatory Correspondence

Robbie Runnels

From: Matthew Taylor <Matthew.Taylor@permianres.com>
Sent: Thursday, September 12, 2024 9:46 AM
To: Robbie Runnels
Subject: FW: -EXTERNAL- The Oil Conservation Division (OCD) has accepted the application, Application ID: 382986

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Thursday, September 12, 2024 9:42 AM
To: Matthew Taylor <Matthew.Taylor@permianres.com>
Subject: -EXTERNAL- The Oil Conservation Division (OCD) has accepted the application, Application ID: 382986

WARNING: The sender of this email could not be validated and may not match the person in the "From" field.

To whom it may concern (c/o Matthew Taylor for Permian Resources Operating, LLC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release (C-141N)*, for incident ID (n#) nAPP2334564703.

The sampling event is expected to take place:

When: 09/16/2024 @ 07:00

Where: I-22-20S-35E 0 FNL 0 FEL (32.557296,-103.440714)

Additional Information: Robbie Runnels

432.282.9143

robbie@etechenv.com

Additional Instructions: From the intersection of Co Rd 27-A and NM-176 (32.522572, -103.522336), head N on Co Rd 27-A for 2.34 mi, then E for 1.67 mi, then N for 3.22 mi, then S for 0.37 mi, then W for 0.37 mi, then E for 0.02 mi to arrive at the Woody CTB 1 release area (32.55641, -103.447308).

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

CAUTION: This email originated from outside of the organization. If it appears to be internal, check directly with assumed source

Robbie Runnels

From: Matthew Taylor <Matthew.Taylor@permianres.com>
Sent: Thursday, September 12, 2024 9:46 AM
To: Robbie Runnels
Subject: FW: -EXTERNAL- The Oil Conservation Division (OCD) has accepted the application, Application ID: 382999

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Thursday, September 12, 2024 9:43 AM
To: Matthew Taylor <Matthew.Taylor@permianres.com>
Subject: -EXTERNAL- The Oil Conservation Division (OCD) has accepted the application, Application ID: 382999

WARNING: The sender of this email could not be validated and may not match the person in the "From" field.

To whom it may concern (c/o Matthew Taylor for Permian Resources Operating, LLC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release (C-141N)*, for incident ID (n#) nAPP2334564703.

The sampling event is expected to take place:

When: 09/18/2024 @ 07:00

Where: I-22-20S-35E 0 FNL 0 FEL (32.557296,-103.440714)

Additional Information: Robbie Runnels

432.282.9143

robbie@etechenv.com

Additional Instructions: From the intersection of Co Rd 27-A and NM-176 (32.522572, -103.522336), head N on Co Rd 27-A for 2.34 mi, then E for 1.67 mi, then N for 3.22 mi, then S for 0.37 mi, then W for 0.37 mi, then E for 0.02 mi to arrive at the Woody CTB 1 release area (32.55641, -103.447308).

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

CAUTION: This email originated from outside of the organization. If it appears to be internal, check directly with assumed source

Robbie Runnels

From: Matthew Taylor <Matthew.Taylor@permianres.com>
Sent: Thursday, September 12, 2024 9:46 AM
To: Robbie Runnels
Subject: FW: -EXTERNAL- The Oil Conservation Division (OCD) has accepted the application, Application ID: 383002

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Thursday, September 12, 2024 9:45 AM
To: Matthew Taylor <Matthew.Taylor@permianres.com>
Subject: -EXTERNAL- The Oil Conservation Division (OCD) has accepted the application, Application ID: 383002

WARNING: The sender of this email could not be validated and may not match the person in the "From" field.

To whom it may concern (c/o Matthew Taylor for Permian Resources Operating, LLC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release (C-141N)*, for incident ID (n#) nAPP2334564703.

The sampling event is expected to take place:

When: 09/20/2024 @ 07:00

Where: I-22-20S-35E 0 FNL 0 FEL (32.557296,-103.440714)

Additional Information: Robbie Runnels

432.282.9143

robbie@etechenv.com

Additional Instructions: From the intersection of Co Rd 27-A and NM-176 (32.522572, -103.522336), head N on Co Rd 27-A for 2.34 mi, then E for 1.67 mi, then N for 3.22 mi, then S for 0.37 mi, then W for 0.37 mi, then E for 0.02 mi to arrive at the Woody CTB 1 release area (32.55641, -103.447308).

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

CAUTION: This email originated from outside of the organization. If it appears to be internal, check directly with assumed source



Layer List

Layers

☒

OSE Water PODs

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☐

M2.5+ Earthquakes (USGS 30-day)

...

☐

NM Oil and Gas Wells

...

☐

Incidents (C-141)

...

☐

Facilities

...

☐

USGS Groundwater wells

...

☐

Induced Seismicity Area

...

☐

Permian Basin Karst Areas

...

☐

BLM Oil Gas Leases Case Disp

...

☐

BLM Oil Gas Leases Production Status

...

☐

BLM Fluid Minerals Case

...

☐

BLM FM Agreements Case Disp

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☐

BLM FM Agreements Production Status

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☐

BLM FM Participating Areas Case Disp

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☐

NM SLO Oil and Gas Leases

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☐

NM SLO Participating Area and Unit Agreement Boundaries

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Political Boundaries and Transportation

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Mineral and Surface Ownership

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Hydrology

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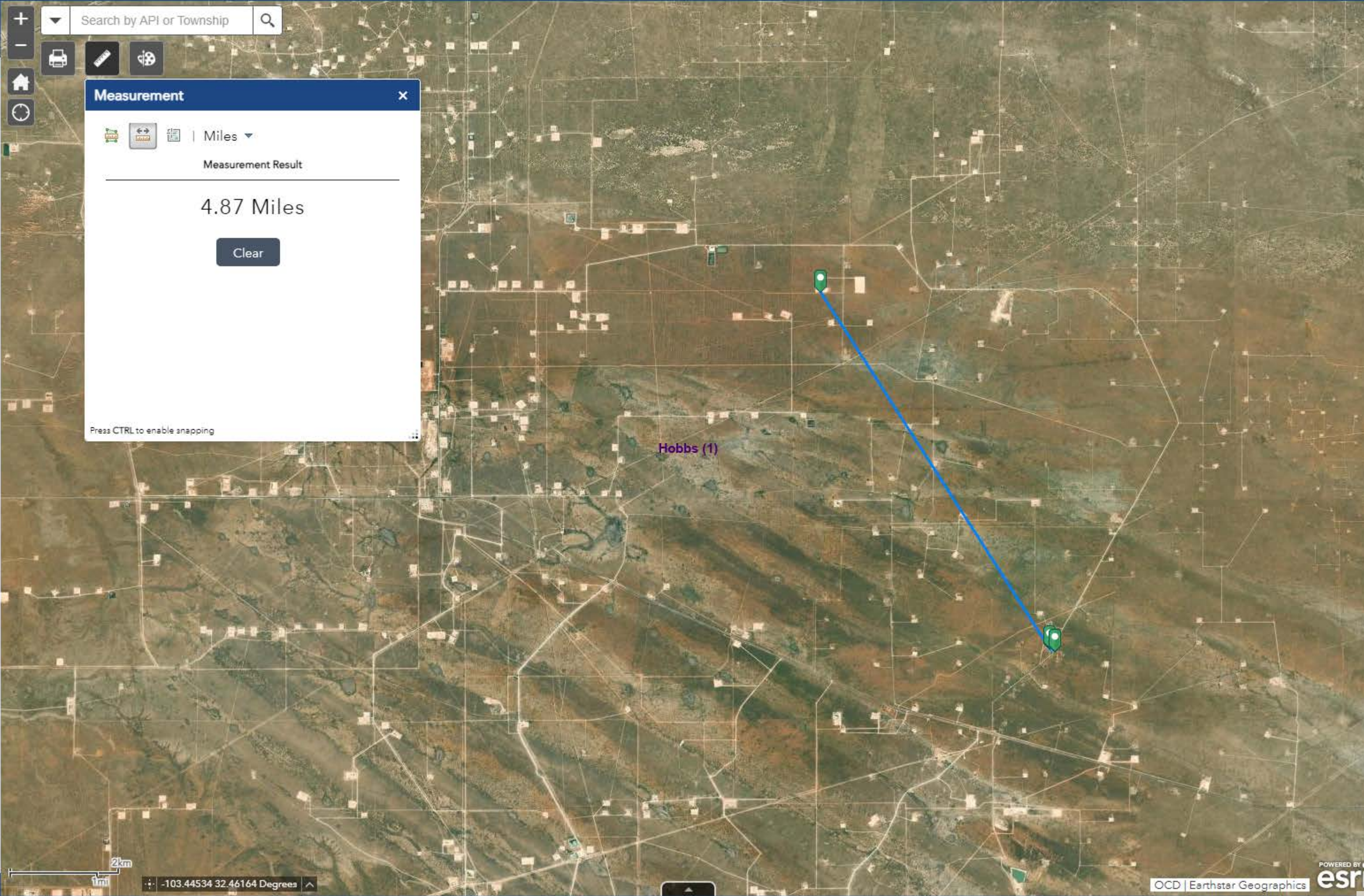
OCD Districts

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NM Oil and Gas Production Areas

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- Layer List
- Layers
- ☒

OSE Water PODs

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- ☐

M2.5+ Earthquakes (USGS 30-day)

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- ☐

NM Oil and Gas Wells

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- ☐

Incidents (C-141)

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- ☐

Facilities

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- ☐

USGS Groundwater wells

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- ☐

Induced Seismicity Area

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- ☐

Permian Basin Karst Areas

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- ☐

BLM Oil Gas Leases Case Disp

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- ☐

BLM Oil Gas Leases Production Status

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- ☐

BLM Fluid Minerals Case

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- ☐

BLM FM Agreements Case Disp

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- ☐

BLM FM Agreements Production Status

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- ☐

BLM FM Participating Areas Case Disp

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- ☐

NM SLO Oil and Gas Leases

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- ☐

NM SLO Participating Area and Unit Agreement Boundaries

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- ☐

Political Boundaries and Transportation

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- ☐

Mineral and Surface Ownership

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Hydrology

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OCD Districts

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NM Oil and Gas Production Areas

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Home

Refresh

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Measure

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Measurement

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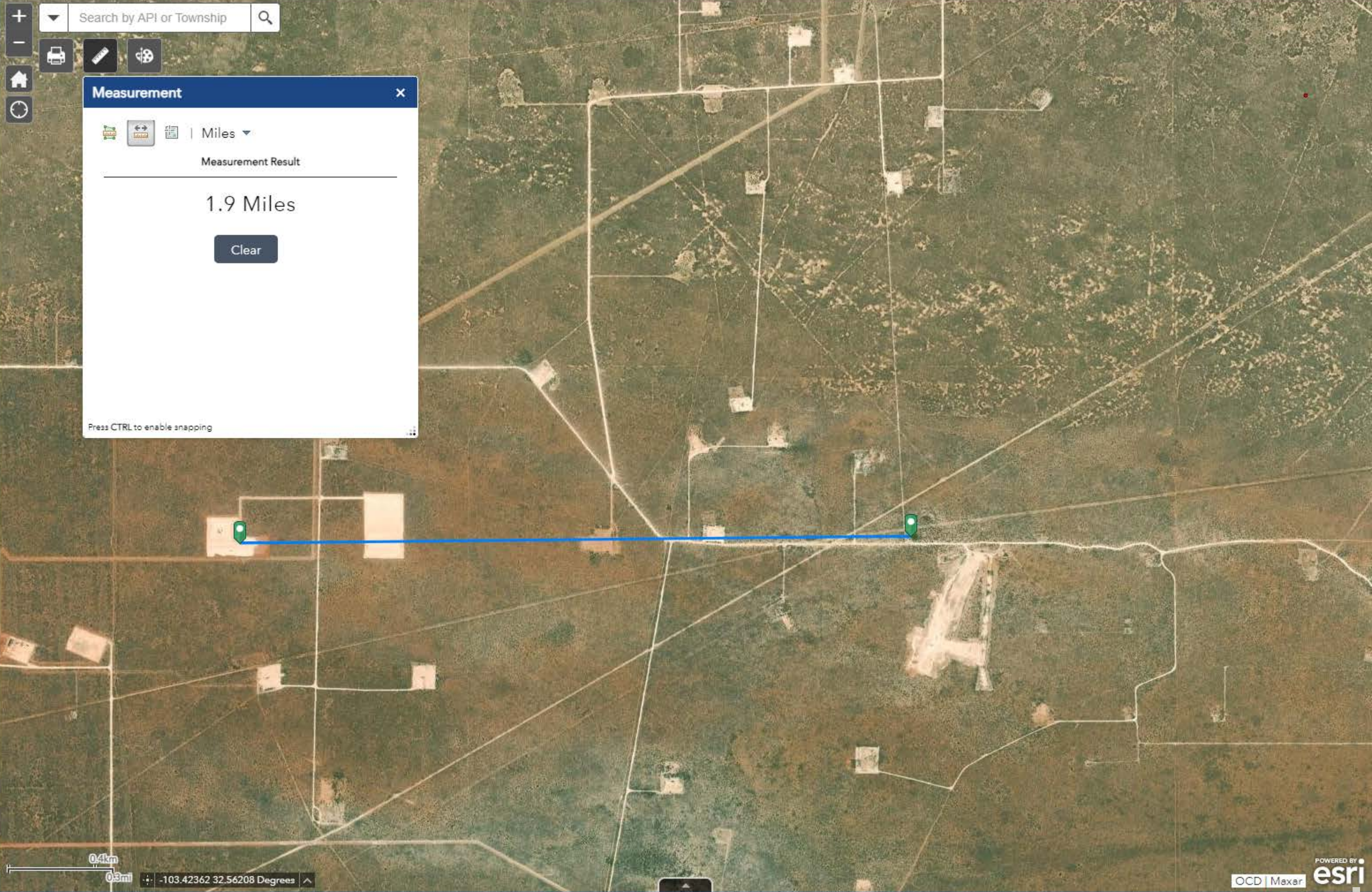
Miles

Measurement Result

1.9 Miles

Clear

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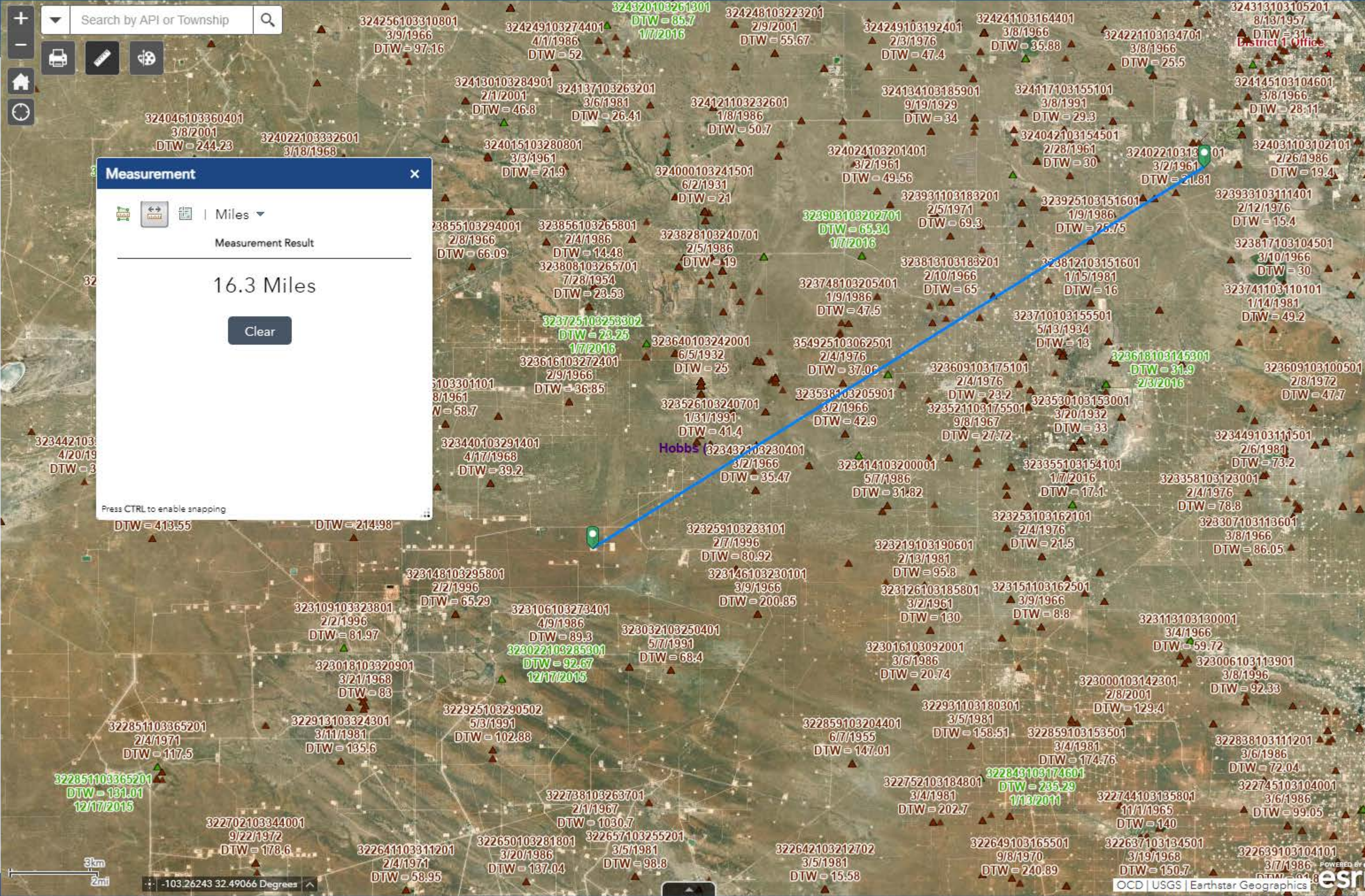




Layer List

Layers

- ☒ OSE Water PODs
- ☐ M2.5+ Earthquakes (USGS 30-day)
- ☐ NM Oil and Gas Wells
- ☐ Incidents (C-141)
- ☐ Facilities
- ☒ USGS Groundwater wells
- ☐ Induced Seismicity Area
- ☐ Permian Basin Karst Areas
- ☐ BLM Oil Gas Leases Case Disp
- ☐ BLM Oil Gas Leases Production Status
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- ☐ BLM FM Participating Areas Case Disp
- ☐ NM SLO Oil and Gas Leases
- ☐ NM SLO Participating Area and Unit Agreement Boundaries
- ☐ Political Boundaries and Transportation
- ☐ Mineral and Surface Ownership
- ☒ Hydrology
- ☒ OCD Districts
- ☐ NM Oil and Gas Production Areas



BASEMAPS >

MAP LAYERS >

☒ Wetlands 1 2

☒ Riparian 1 2

☐ Riparian Mapping Areas 1 2

☒ Data Source 1 2

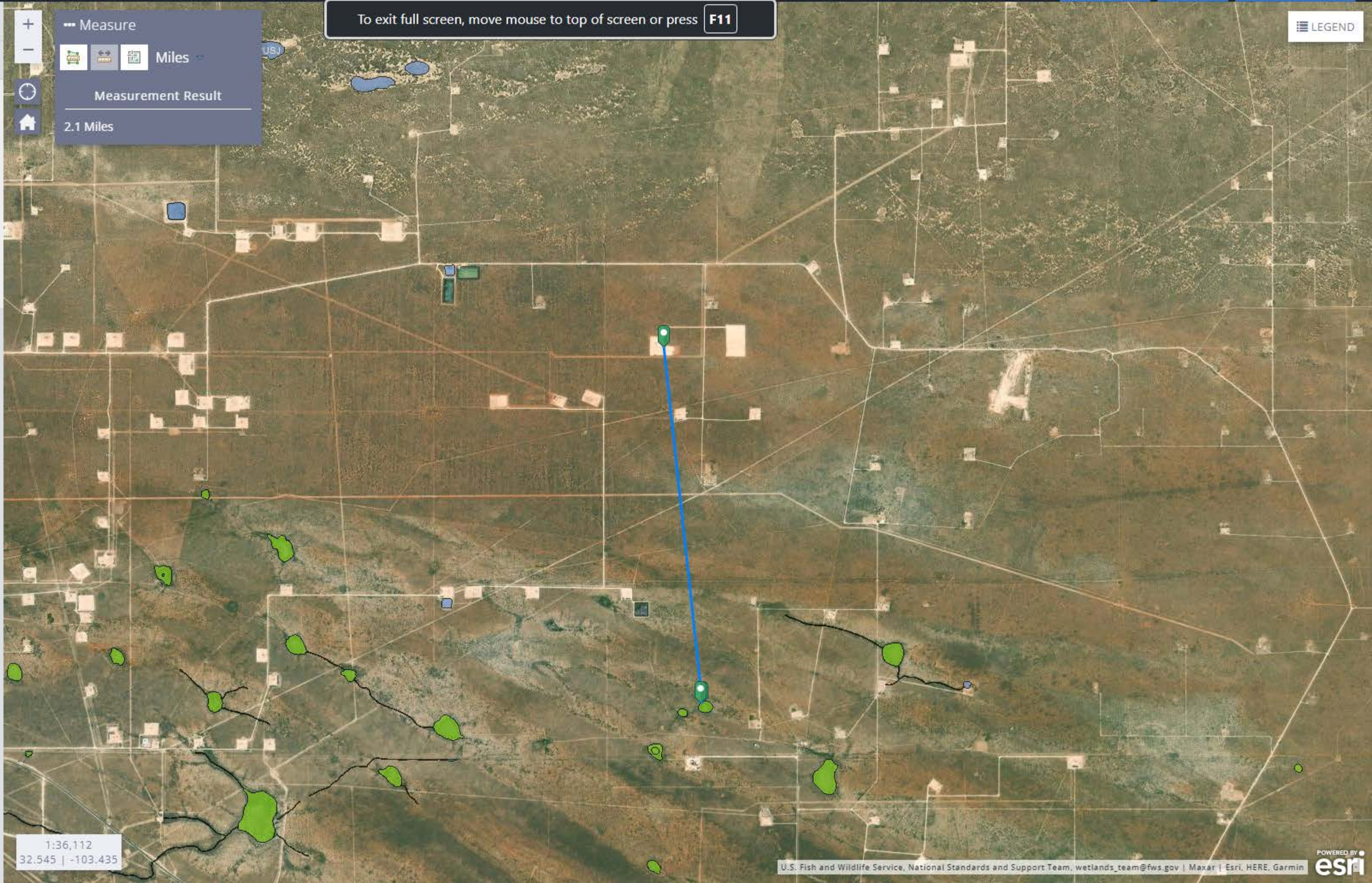
☐ Source Type

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☐ Image Year

☐ Areas of Interest 2

☐ FWS Managed Lands 1 2



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32.545 | -103.435



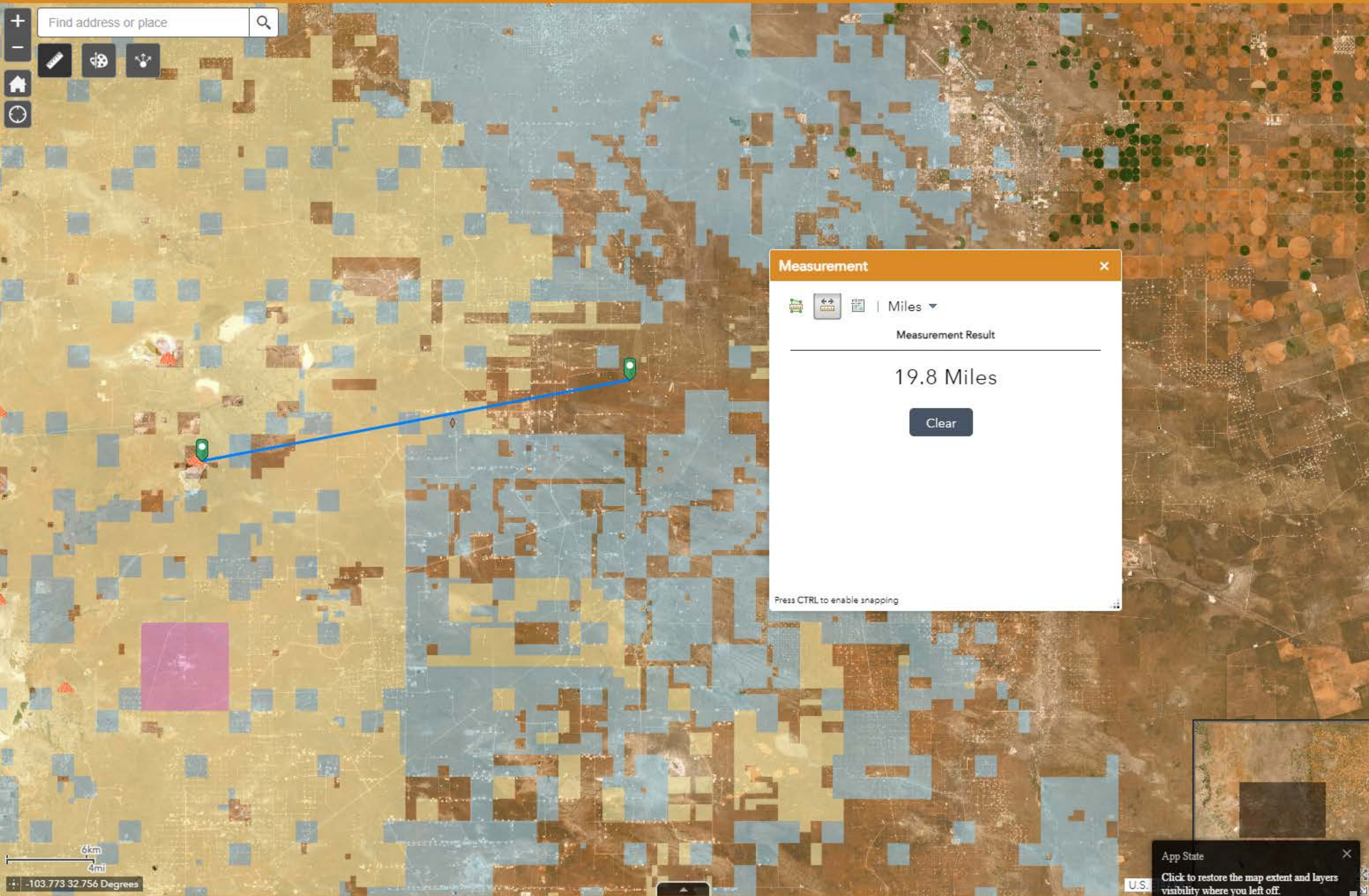
Layer List

Layers

- ☒ Registered Mines
- ☒ Mineral_and_Surface_Ownership
- ☐ Public Land Survey System (PLSS)

Find address or place

Map navigation icons: zoom in, zoom out, home, and print.



Measurement

Measurement Result

19.8 Miles

Clear

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App State

Click to restore the map extent and layers visibility where you left off.



Layer List

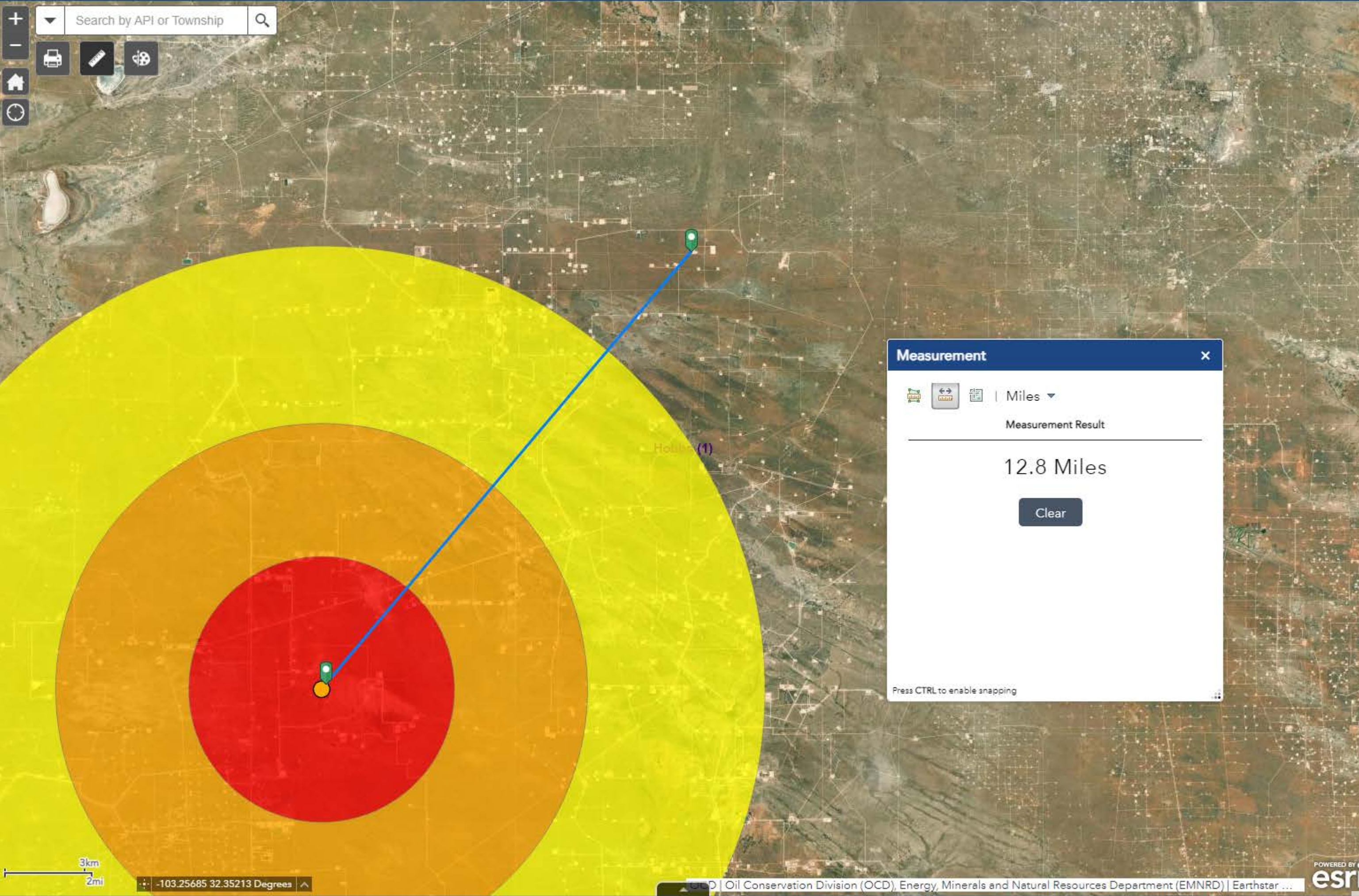
Layers

- ☒ OSE Water PODs ...
- ☐ M2.5+ Earthquakes (USGS 30-day) ...
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- ☐ Incidents (C-141) ...
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- ☒ Hydrology ...
- ☒ OCD Districts ...
- ☐ NM Oil and Gas Production Areas ...

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Home Refresh



Measurement

Miles

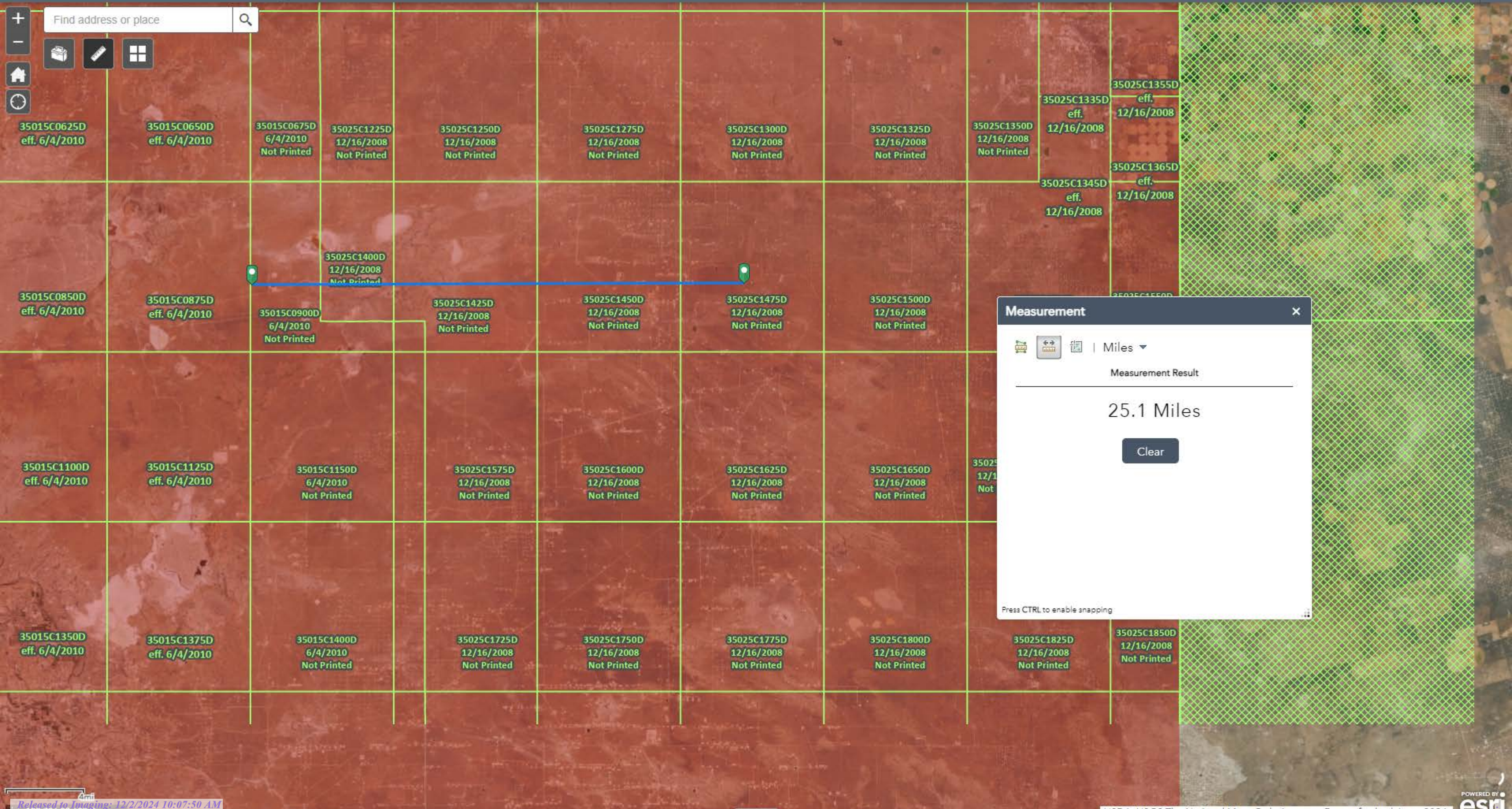
Measurement Result

12.8 Miles

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Measurement

Miles

Measurement Result

25.1 Miles

Clear

Press CTRL to enable snapping

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

QUESTIONS

Action 396705

QUESTIONS

Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372165
	Action Number: 396705
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2411548875
Incident Name	NAPP2411548875 WOODY FED COM CTB 1 @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Facility	[fAPP2326349863] Woody 22 Fed Com CTB 1

Location of Release Source	
Please answer all the questions in this group.	
Site Name	Woody Fed Com CTB 1
Date Release Discovered	04/24/2024
Surface Owner	Federal

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Normal Operations Pump Produced Water Released: 34 BBL Recovered: 4 BBL Lost: 30 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 396705

QUESTIONS (continued)

Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372165
	Action Number: 396705
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.

Initial Response

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

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

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

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

I hereby agree and sign off to the above statement	Name: Matthew Taylor Title: Environmental Coordinator Email: matthew.taylor@permianres.com Date: 04/24/2024
--	--

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QUESTIONS, Page 3

Action 396705

QUESTIONS (continued)

Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID:
	372165
	Action Number:
	396705
Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS**Site Characterization**

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

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 51 and 75 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
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 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 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)	54000
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	48.1
GRO+DRO (EPA SW-846 Method 8015M)	48.1
BTEX (EPA SW-846 Method 8021B or 8260B)	0.3
Benzene (EPA SW-846 Method 8021B or 8260B)	0.1

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	09/16/2024
On what date will (or did) the final sampling or liner inspection occur	09/18/2024
On what date will (or was) the remediation complete(d)	10/01/2024
What is the estimated surface area (in square feet) that will be reclaimed	8700
What is the estimated volume (in cubic yards) that will be reclaimed	400
What is the estimated surface area (in square feet) that will be remediated	8700
What is the estimated volume (in cubic yards) that will be remediated	400

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 396705

QUESTIONS (continued)

Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372165
	Action Number: 396705
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	LEA LAND LANDFILL [fEEM0112342028]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
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: Matthew Taylor Title: Environmental Coordinator Email: matthew.taylor@permianres.com Date: 11/07/2024
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 396705

QUESTIONS (continued)

Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372165
	Action Number: 396705
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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QUESTIONS, Page 6

Action 396705

QUESTIONS (continued)

Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372165
	Action Number: 396705
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	396873
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/18/2024
What was the (estimated) number of samples that were to be gathered	45
What was the sampling surface area in square feet	8700

Remediation Closure Request

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

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	8700
What was the total volume (cubic yards) remediated	400
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	8700
What was the total volume (in cubic yards) reclaimed	400
Summarize any additional remediation activities not included by answers (above)	Remediation has been completed.

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

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

I hereby agree and sign off to the above statement	Name: Matthew Taylor Title: Environmental Coordinator Email: matthew.taylor@permianres.com Date: 11/07/2024
--	--

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QUESTIONS, Page 7

Action 396705

QUESTIONS (continued)

Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372165
	Action Number: 396705
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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CONDITIONS

Action 396705

CONDITIONS

Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372165
	Action Number: 396705
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your Remediation Closure Report for Incident #NAPP2411548875 WOODY FED COM CTB 1, thank you. This Remediation Closure Report is approved.	12/2/2024