

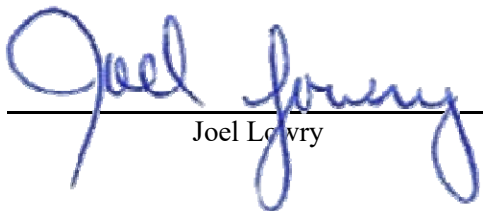
Remediation Summary & Soil Closure Request

Permian Resources Operating, LLC Crazy Horse State Com Fed

Eddy County, New Mexico
Unit Letter L, Section 32, Township 19 South, Range 30 East
Latitude 32.616449° North, Longitude 104.00027° West
NMOCD Reference No. nAPP2522340161

Prepared By:

Etech Environmental & Safety Solutions, Inc.
2617 W. Marland
Hobbs, New Mexico 88240


Joel Lowry


Matthew Grieco



Midland • San Antonio • Lubbock • Hobbs • Lafayette

TABLE OF CONTENTS

	<i>Section</i>
PROJECT INFORMATION.....	1.0
SITE CHARACTERIZATION.....	2.0
SENSATIVE SPECIES AND HABITAT INFORMATION.....	3.0
CULTURAL RESOURCES.....	4.0
CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE.....	5.0
REMEDICATION ACTIVITIES SUMMARY.....	6.0
SOIL CLOSURE REQUEST.....	7.0
RESTORATION, RECLAMATION & RE-VEGETATION PLAN.....	8.0
LIMITATIONS.....	9.0
DISTRIBUTION.....	10.0

FIGURES

- Figure 1 - Site Location Map
- Figure 2A - Site Characterization Map (0.5-Mile Radius)
- Figure 2B - Site Characterization Map (5-Mile Radius)
- Figure 3 - Sample Location Map

TABLES

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

APPENDICES

- Appendix A - Depth to Groundwater Information
- Appendix B - Field Data
- Appendix C - Photographic Log
- Appendix D - Laboratory Analytical Reports
- Appendix E - NMOCD Incident Details
- Appendix F - Regulatory Correspondence
- Appendix G - Sensitive Species and Habitat Details

1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Permian Resources Operating, LLC (Permian), has prepared this *Remediation Summary & Soil Closure Request* for the release site known as the Crazy Horse State Com Fed (Site). Details of the release are summarized below:

Location of Release Source

Latitude: 32.616449° Longitude: -104.00027°
Provided GPS are in WGS84 format.

Site Name: Crazy Horse State Com Fed	Site Type: Tank Battery
Date Release Discovered: 8/11/2025	Facility ID #: FAPP2204045304

Unit Letter	Section	Township	Range	County
L	32	19S	30E	Eddy

Surface Owner: State Federal Tribal Private (Name _____)

Nature and Volume of Release

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls)	21	Volume Recovered (bbls)	0
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls)	9	Volume Recovered (bbls)	0
	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:
Equipment Failure

Initial Response

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

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

2.0 SITE CHARACTERIZATION

<p>What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (bgs)?</p> <p>What method was used to determine the depth to groundwater?</p> <p>Did the release impact groundwater or surface water?</p> <p>What is the minimum distance between the closest lateral extents of the release and the following surface areas?</p> <p>A continuously flowing watercourse or any other significant watercourse?</p> <p>Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?</p> <p>An occupied permanent residence, school, hospital, institution or church?</p> <p>A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?</p> <p>Any other fresh water well or spring?</p> <p>Incorporated municipal boundaries or a defined municipal fresh water well field?</p> <p>A wetland?</p> <p>A subsurface mine?</p> <p>A (non-karst) unstable area?</p> <p>Categorize the risk of this well/site being in a karst geology.</p> <p>A 100-year floodplain?</p> <p>Did the release impact areas not on an exploration, development, production or storage site?</p>	<p>Between 51 and 75 (ft.)</p> <hr/> <p>Estimate or Other</p> <hr/> <p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>Between ½ and 1 (mi.)</p> <hr/> <p>Between 1000 (ft.) and ½ (mi.)</p> <hr/> <p>Between 1 and 5 (mi.)</p> <hr/> <p>Between 1 and 5 (mi.)</p> <hr/> <p>Between ½ and 1 (mi.)</p> <hr/> <p>Greater than 5 (mi.)</p> <hr/> <p>Between 1,000 (ft.) and ½ (mi.)</p> <hr/> <p>Between 1,000 (ft.) and ½ (mi.)</p> <hr/> <p>Zero feet, overlying, or within area</p> <hr/> <p>High</p> <hr/> <p>Between ½ and 1 (mi.)</p> <hr/> <p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
---	---

3.0 SENSITIVE SPECIES AND HABITAT INFORMATION

Searches the U.S FWS Information for Planning and Consultation (IPaC), available BLM shapefiles and the New Mexico Crucial Habitat Assessment Tool (CHAT) were conducted in an effort to determine whether the Site was located within or proximate to any critical habitats that support sensitive, threatened or endangered species.

A review of the U.S. FWS IPaC database indicated the Site is not within a designated critical wildlife habitat A review of the BLM New Mexico Statewide Spatial Map indicates that the Site is within or adjacent to mapped habitat for the Scheer's Beehive Cactus. The Site is in an area characterized as having a CHAT ranking of priority level 1, indicating a crucial habitat rank for species of concern. Details regarding protected species and/or habitats are provided as Appendix G.

4.0 CULTURAL RESOURCES

Remediation activities were limited to the central portion of an active well pad and did not involve new surface disturbing activity outside the authorized boundaries of well pad; therefore, the Cultural Properties Protection Rule is not applicable.

5.0 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 provided in the following table:

Probable Depth to Groundwater	Constituent	Laboratory Analytical Method	Closure Criteria**†	Reclamation Standards*‡
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).

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

6.0 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?	10/13/2025	
On what date will (or did) the final sampling or liner inspection occur?	10/27/2025	
On what date will (or was) the remediation complete(d)?	10/27/2025	
What is the total surface area (sq. ft.) in need of or that will eventually be reclaimed?	5,300	
What is the total volume (cy) in need of or that will eventually be reclaimed?	616	
What was the total surface area (sq. ft.) that has or will be remediated?	5,300	
What was the total volume (cy) that has or will be remediated?	616	
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 October 13, 2025, Etech commenced remediation activities at the Site. In accordance with NMOCD regulatory guidelines, impacted soil affected above the NMOCD Closure Criteria and NMOCD Reclamation Standards was excavated and stockpiled on-site, pending transfer to an NMOCD-permitted surface waste facility for disposal. Olfactory/visual senses and 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 Closure Criteria. 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 in the following table:

Constituent	Highest Observable Concentration	Sample ID	Sample Date	Sample Depth (ft bgs)	Soil Status
Chloride	352	FL 4 @ 3', EW 3	10/14/25, 10/16/25	3, 0-3	In-Situ, Excavated
TPH	478	SW 2	10/16/2025	0-3	Excavated
GRO+DRO	398	SW 2	10/16/2025	0-3	Excavated
BTEX	<0.300	All Samples	All Sample Dates	0-4	In-Situ, Excavated
Benzene	<0.050	All Samples	All Sample Dates	0-4	In-Situ, Excavated

Please reference Table 1 for additional information.

On October 14, 2025, Etech collected 23 confirmation soil samples (FL 1 @ 2', FL 2 @ 3' through FL 17 @ 3', NW 1, EW 1, EW 2, SW 1, WW 1, and WW 2) from the floor and walls of the excavated area. The soil samples were submitted to a certified commercial laboratory (the laboratory) for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX, TPH, and chloride concentrations were below the applicable Closure Criteria and Reclamation Standards in each of the submitted soil samples.

On October 16, 2025, Etech collected 19 confirmation soil samples (FL 18 @ 3' through FL 22 @ 3', FL 23 @ 4', FL 24 @ 4', FL 25 @ 3' through FL 29 @ 3', NW 2, EW 3, SW 2, SW 3, SW 4, WW 3, and WW 4) from the floor and walls 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 and chloride concentrations were below the applicable Closure Criteria and Reclamation Standards in each of the submitted soil samples. TPH concentrations were below the Closure Criterion and Reclamation Standard in the majority of the submitted soil samples, with the exception of samples EW 3 and SW 2, which exhibited TPH concentrations of 377 mg/kg and 478 mg/kg, respectively.

Based on these laboratory analytical results, the excavation was subsequently advanced in the areas represented by soil samples EW 3 and SW 2.

On October 27, 2025, Etech collected two confirmation soil samples (EW 3 and SW 2) from the walls of the excavated area. The soil samples were submitted the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX, TPH, and chloride concentrations were below the applicable Closure Criteria and Reclamation Standards in each of the submitted soil samples.

The final dimensions of the excavated area were approximately 5 to 90 feet in length, 5 to 110 feet in width, and two to four feet in depth. During the course of remediation activities, Etech transported approximately 616 cubic yards of impacted soil to an NMOCD-permitted surface waste facility for disposal and imported a commensurate amount 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. General photographs of the Site are provided in Appendix C. Laboratory analytical reports are provided in Appendix D. NMOCD incident details are provided in Appendix E. Copies of regulatory correspondence are provided in Appendix F.

7.0 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?	5,300	
What was the total volume (cy) remediated?	616	

Remediation activities were conducted in accordance with NMOCD regulatory guidelines. Impacted soil affected above the NMOCD Closure Criteria and NMOCD Reclamation Standards was excavated and transported to an NMOCD-permitted disposal facility. Laboratory analytical results from confirmation soil samples indicate that 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 that Permian provide copies of this *Remediation Summary & Soil Closure Request* to the appropriate agencies and request remediation closure approval be granted to the Site.

8.0 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?	5,300	
What was the total volume (in cubic yards) reclaimed?	616	

From October 22 through 27, 2025, upon receiving laboratory analytical results from confirmation soil samples, the excavated area was backfilled with locally sourced, non-impacted “like” material characterized by soil sample “Lea Land Backfill”. Excavation backfill was placed at or near original relative positions, compacted, and then contoured to achieve erosion control, stability, and preservation of surface water flow to the extent practicable.

The release involved the production pad of an active tank battery. Final reclamation and restoration of the production pad will be conducted upon decommissioning and abandonment of the facility.

9.0 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 Operating, LLC. Use of the information contained in this report is prohibited without the consent of Etech and/or Permian Resources Operating, LLC.

10.0 DISTRIBUTION

Permian Resources Operating, LLC

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

New Mexico Energy, Minerals and Natural Resources Department

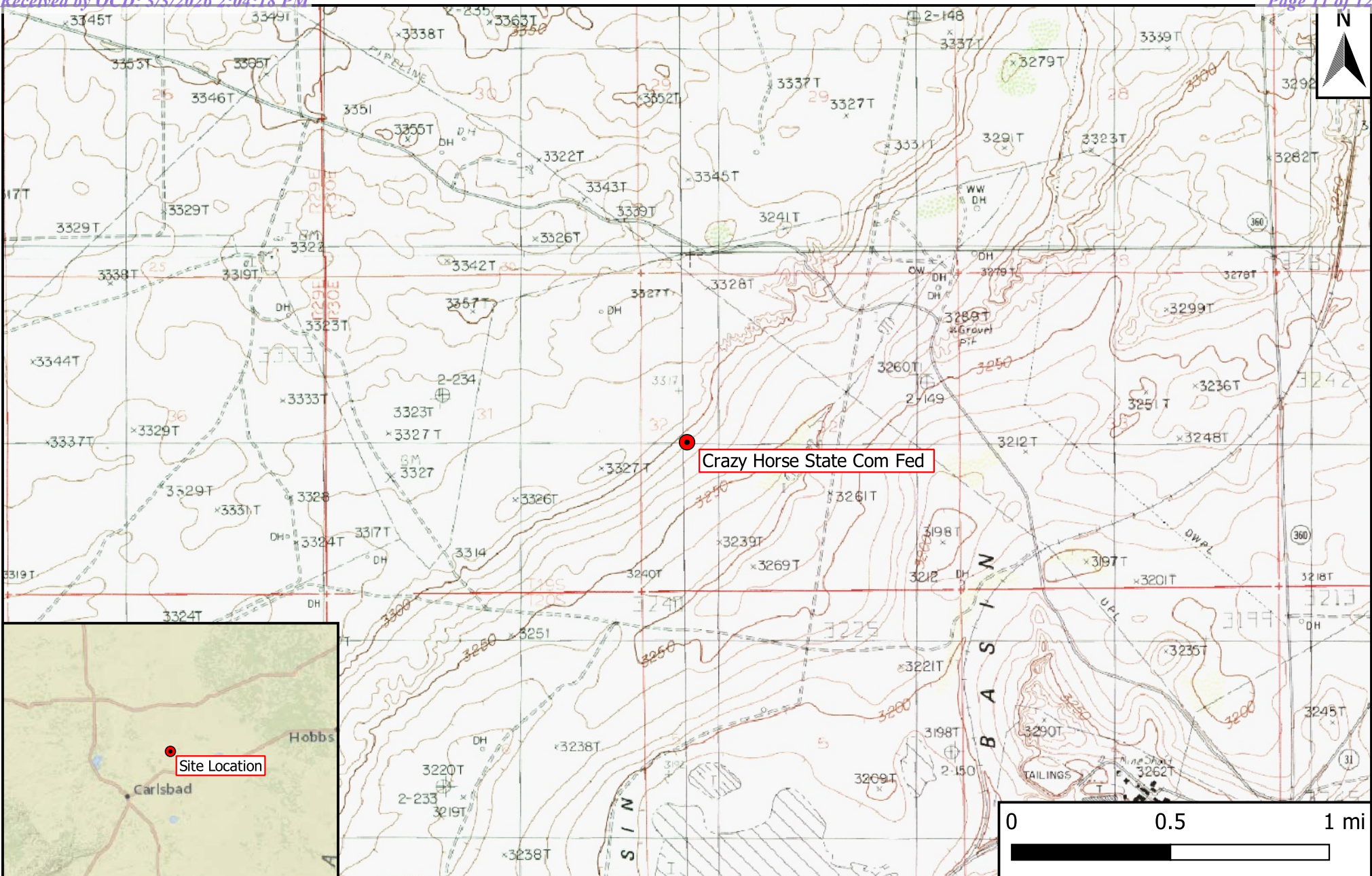
*Oil Conservation Division, District 2
811 S. First Street
Artesia, NM 88210*

Hobbs Field Office

*New Mexico State Land Office
2827 North Dal Paso Street
Suite 117
Hobbs, NM 88240*

(Electronic Submission)

Figure 1 Site Location Map



Legend
 ● Site Location

Figure 1
 Site Location Map
 Permian Resources Operating, LLC
 Crazy Horse State Com Fed
 GPS: 32.616449, -104.00027
 Eddy County, New Mexico



Drafted: mag Checked: rlc Date: 2025-08-13

Figures 2A & 2B Site Characterization Maps

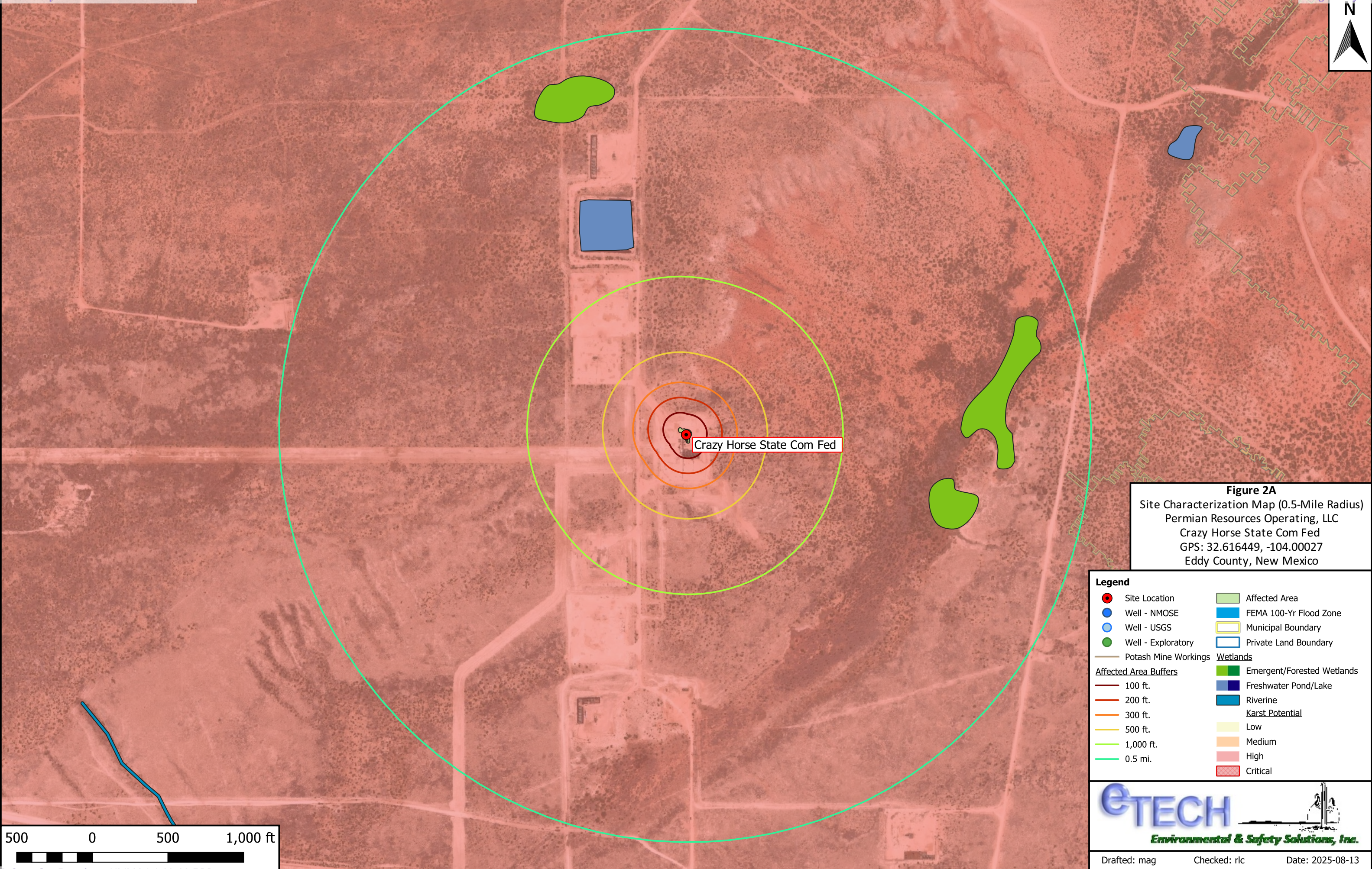
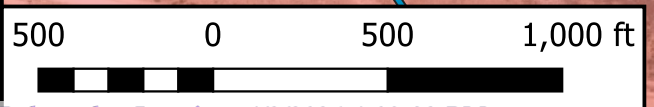


Figure 2A
 Site Characterization Map (0.5-Mile Radius)
 Permian Resources Operating, LLC
 Crazy Horse State Com Fed
 GPS: 32.616449, -104.00027
 Eddy County, New Mexico

Legend	
	Site Location
	Well - NMOSE
	Well - USGS
	Well - Exploratory
	Potash Mine Workings
	Affected Area
	FEMA 100-Yr Flood Zone
	Municipal Boundary
	Private Land Boundary
Affected Area Buffers	
	100 ft.
	200 ft.
	300 ft.
	500 ft.
	1,000 ft.
	0.5 mi.
Wetlands	
	Emergent/Forested Wetlands
	Freshwater Pond/Lake
	Riverine
Karst Potential	
	Low
	Medium
	High
	Critical



eTECH
 Environmental & Safety Solutions, Inc.

Drafted: mag Checked: rlc Date: 2025-08-13

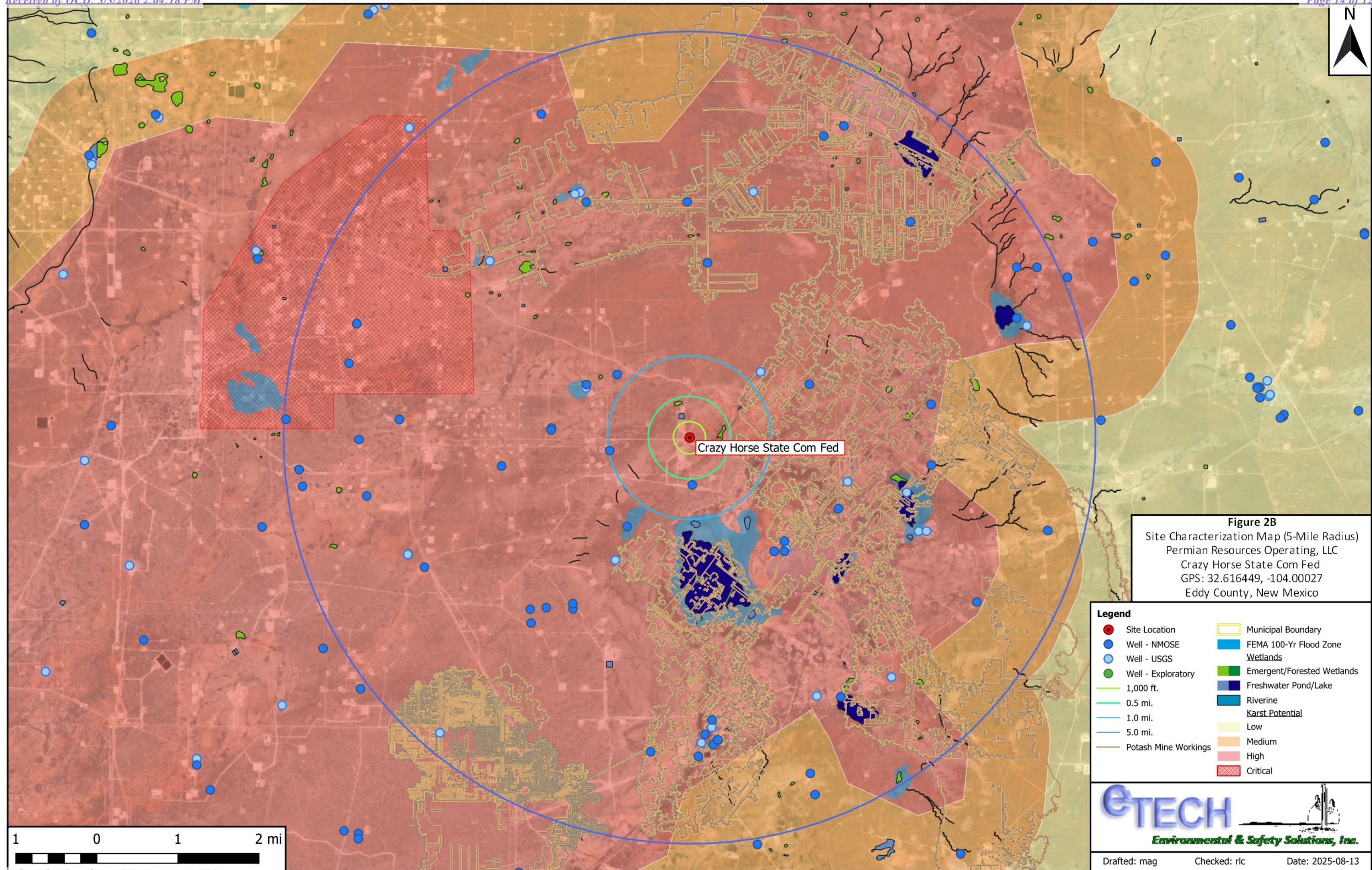


Figure 2B
 Site Characterization Map (5-Mile Radius)
 Permian Resources Operating, LLC
 Crazy Horse State Com Fed
 GPS: 32.616449, -104.00027
 Eddy County, New Mexico

Legend	
● Site Location	 Municipal Boundary
● Well - NMOSE	 FEMA 100-Yr Flood Zone
● Well - USGS	 Wetlands
● Well - Exploratory	 Emergent/Forested Wetlands
 1,000 ft.	 Freshwater Pond/Lake
 0.5 mi.	 Riverine
 1.0 mi.	 Karst Potential
 5.0 mi.	 Low
 Potash Mine Workings	 Medium
	 High
	 Critical



Drafted: mag Checked: rlc Date: 2025-08-13

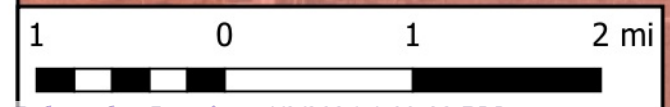
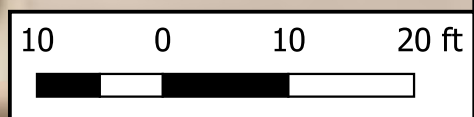
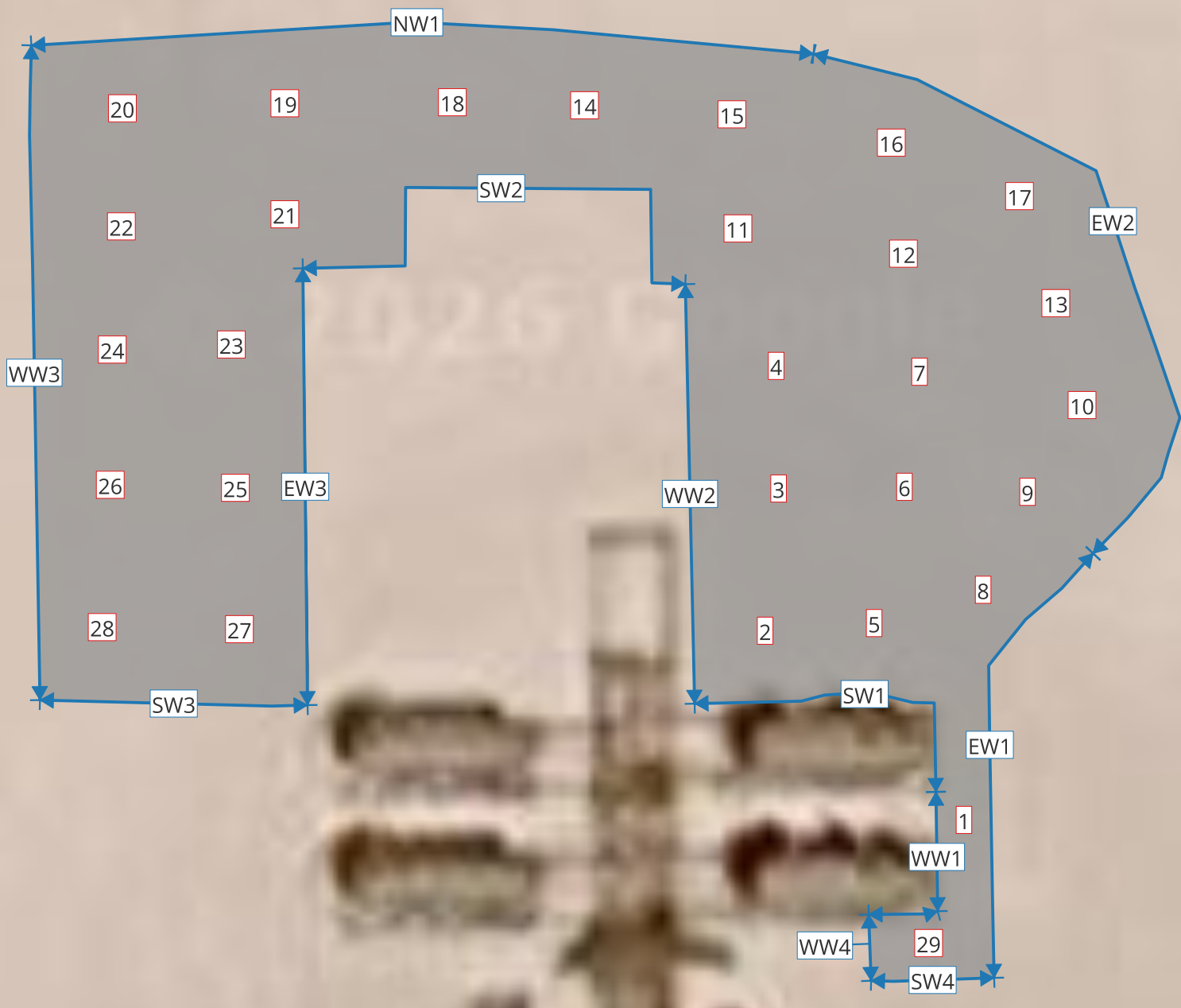


Figure 3 Sample Location Map



Legend

	Floor Sample
	Wall Sample
	Excavation

Figure 3
 Sample Location Map
 Permian Resources Operating, LLC
 Crazy Horse State Com Fed
 GPS: 32.61645, -104.00027
 Eddy County, New Mexico

ETECH
 Environmental & Safety Solutions, Inc.

Created: mag Checked: rlc Date: 2/26/26

Table 1
Concentrations of BTEX, TPH & Chloride in Soil

Table 1
Concentrations of BTEX, TPH, and Chloride in Soil
Permian Resources Operating, LLC
Crazy Horse State Com Fed
NMOCD Ref. #: nAPP2522340161

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 1 @ 2'	10/14/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 2 @ 3'	10/14/2025	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL 3 @ 3'	10/14/2025	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FL 4 @ 3'	10/14/2025	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	352
FL 5 @ 3'	10/14/2025	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
FL 6 @ 3'	10/14/2025	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FL 7 @ 3'	10/14/2025	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
FL 8 @ 3'	10/14/2025	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL 9 @ 3'	10/14/2025	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 10 @ 3'	10/14/2025	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 11 @ 3'	10/14/2025	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FL 12 @ 3'	10/14/2025	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
FL 13 @ 3'	10/14/2025	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FL 14 @ 3'	10/14/2025	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FL 15 @ 3'	10/14/2025	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 16 @ 3'	10/14/2025	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 17 @ 3'	10/14/2025	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 18 @ 3'	10/16/2025	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FL 19 @ 3'	10/16/2025	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FL 20 @ 3'	10/16/2025	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 21 @ 3'	10/16/2025	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 22 @ 3'	10/16/2025	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL 23 @ 4'	10/16/2025	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 24 @ 4'	10/16/2025	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
FL 25 @ 3'	10/16/2025	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 26 @ 3'	10/16/2025	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
FL 27 @ 3'	10/16/2025	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 28 @ 3'	10/16/2025	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FL 29 @ 3'	10/16/2025	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
NW 1	10/14/2025	0-3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
NW 2	10/16/2025	0-3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
EW 1	10/14/2025	0-3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
EW 2	10/14/2025	0-3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
EW 3	10/16/2025	0-3	Excavated	<0.050	<0.300	<10.0	317	317	60.0	377	352
EW 3	10/27/2025	0-3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SW 1	10/14/2025	0-3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
SW 2	10/16/2025	0-3	Excavated	<0.050	<0.300	<10.0	398	398	79.5	478	336
SW 2	10/27/2025	0-3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SW 3	10/16/2025	0-3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SW 4	10/16/2025	0-3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
WW 1	10/14/2025	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0

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

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

Red Border with Shading: Highest observed concentration.

Table 1 Concentrations of BTEX, TPH, and Chloride in Soil Permian Resources Operating, LLC Crazy Horse State Com Fed NMOCD Ref. #: nAPP2522340161											
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)
WW 2	10/14/2025	0-3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
WW 3	10/16/2025	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
WW 4	10/16/2025	0-3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
Lea Land Backfill	5/22/2024	N/A	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0

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

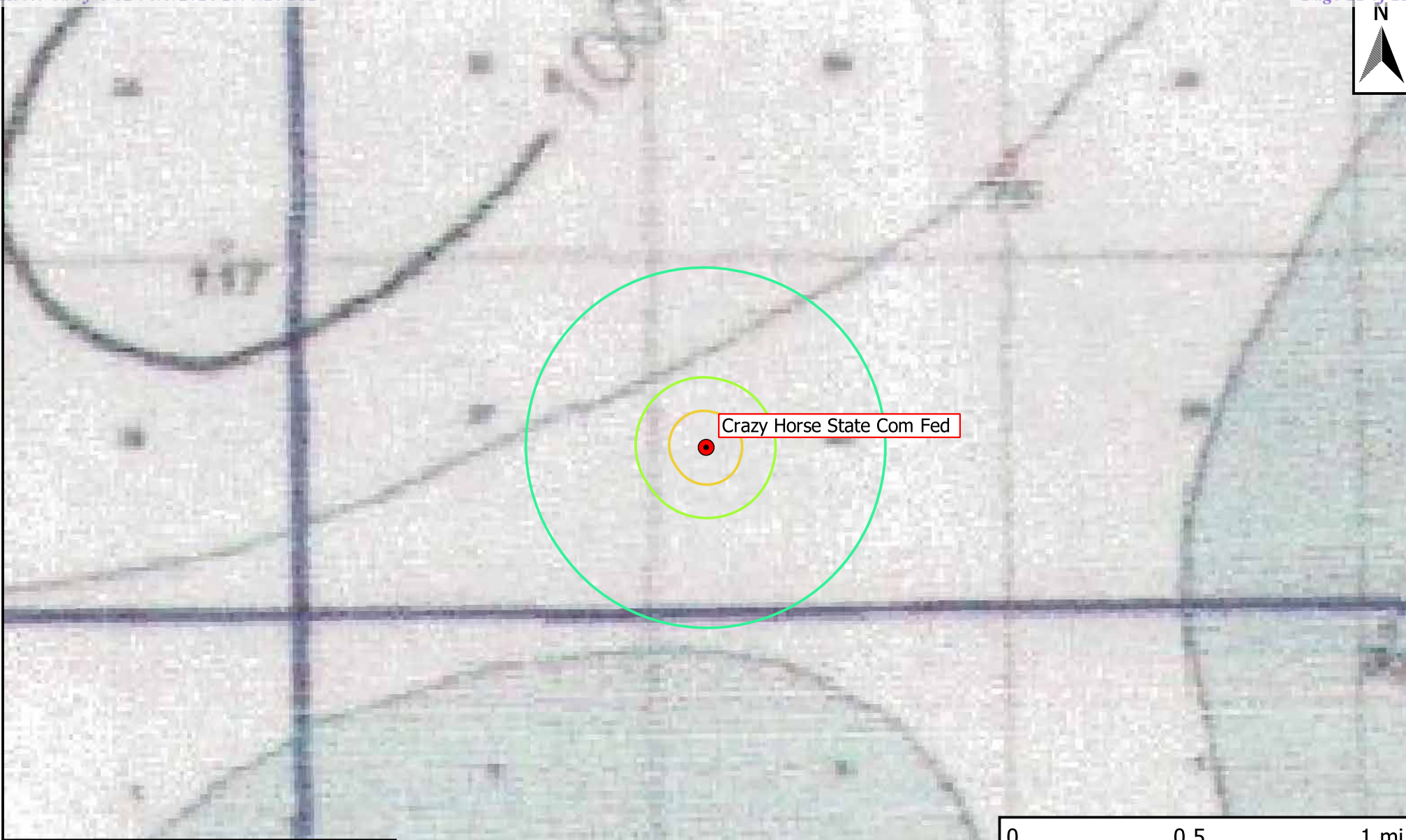
Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

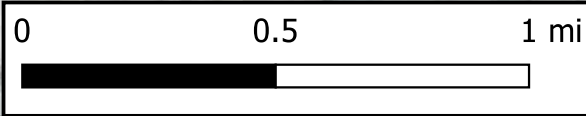
Red Border with Shading: Highest observed concentration.

Appendix A

Depth to Groundwater Information



Note: Only NMOSE and USGS wells with recent depth to groundwater gauging data are depicted.



Legend	
Active Site Locations	Affected Area
Well - NMOSE	500 ft.
Well - USGS	1,000 ft.
Well - Exploratory	0.5 mi.

Figure 4
 Inferred Depth to Groundwater Map
 Permian Resources Operating, LLC
 Crazy Horse State Com Fed
 GPS: 32.616449, -104.00027
 Eddy County, New Mexico



 Environmental & Safety Solutions, Inc.

Drafted: mag Checked: rlc Date: 2025-08-13

Appendix B

Field Data



Sample Log

Project: Crazy Horse State Com Fed Date: _____
 Project Number: 22789 Latitude: 32.616449 Longitude: -104.00027

Sample ID	PID/Odor	Chloride Conc.	GPS
FL-1 @ 2'	-	349	
UW-1	-	236	
FW-1	-	304	
FL-2 @ 3'	-	204	
SU-1	-	304	
FL-3 @ 3'	-	218	
FW-2	-	636 (Potential DEF)	
FL-4 @ 3'	-	428	
FL-5 @ 7'	-	428	
FL-6 @ 3'	-	349	
FL-7 @ 3'	-	428	
FL-8 @ 3'	2.8	349	
FL-9 @ 3'	2.8	349	
FL-10 @ 3'	2.0	204	
NW-1	2.2	236	
WW-2	-	ND	
FL-11 @ 3'	2.0	204	
FL-12 @ 3'	2.6	704	
FL-13 @ 3'	1.8	176	
FL-14 @ 3'	2.0	204	
FL-15 @ 3'	2.6	304	
FL-16 @ 3'	2.0	204	
FL-17 @ 3'	2.8	349	
FL-18 @ 3'	2.0	204	
FL-19 @ 3'	2.2	236	
FL-20 @ 3'	2.0	204	
FL-21 @ 3'	1.4	128	
FL-22 @ 3'	2.4	268	
WW-3	2.0	204	
FW-3	3.0	384	
SW-2	3.2	428	
FL-23 @ 4'	2.0	204	
FL-24 @ 4'	2.6	304	
FL-25 @ 3'	2.0	204	
FL-26 @ 3'	2.6	304	
FL-27 @ 3'	2.2	236	

Sample Point = SP #1 @ ## etc

Test Trench = TT #1 @ ##

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

Floor = FL #1 etc

Refusal = SP #1 @ 4'-R

Stockpile = Stockpile #1

Sidewall = SW #1 etc

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

GPS Sample Points, Center of Comp Areas

FL-28 @ 3' 1.6 - 152

FL-29 @ 3'

SW-3 NW-7 FL-9 SW-4

Received by OCD: 3/2/2026 2:04:18 PM

Released to Imaging: 4/2/2026 4:03:22 PM

Appendix C

Photographic Log

Photographic Log

Photo Number: 1	 <p>Oct 16, 2025 at 10:49:03 AM +32.616362,-104.000435 335° NW Altitude: 1004.8meter Speed: 0.3km/h</p>
Photo Direction: North-Northwest	
Photo Description: View of open excavation.	

Photo Number: 2	 <p>Oct 16, 2025 at 10:47:57 AM +32.616587,-104.000422 339° N Altitude: 1005.8meter Speed: 0.0km/h</p>
Photo Direction: North-Northeast	
Photo Description: View of open excavation.	

Photographic Log

Photo Number: 3	 <p>Oct 21, 2025 at 2:31:30 PM +32.616592,-104.000365 NM</p>
Photo Direction: South	
Photo Description: View of open excavation.	

Photo Number: 4	 <p>Oct 21, 2025 at 2:30:44 PM +32.616525,-104.000157 NM</p>
Photo Direction: West	
Photo Description: View of open excavation.	

Photographic Log

Photo Number: 5	 <p>Oct 16, 2025 at 10:47:37 AM +32.616566,-104.000302 338° N Altitude: 1005.8meter Speed: 3.6km/h</p>
Photo Direction: East	
Photo Description: View of open excavation.	

Photo Number: 6	 <p>Oct 16, 2025 at 10:46:49 AM +32.616256,-104.000188 335° NW Altitude: 1005.2meter Speed: 0.0km/h</p>
Photo Direction: North-Northwest	
Photo Description: View of open excavation.	

Photographic Log

Photo Number: 7	 <p>Oct 27, 2025 at 5:24:19 PM +32.616228,-104.000113 NM</p>
Photo Direction: Northwest	
Photo Description: View of remediated area after backfill and regrading.	

Photo Number: 8	 <p>Oct 27, 2025 at 5:27:03 PM +32.616558,-104.000511 NM</p>
Photo Direction: South	
Photo Description: View of remediated area after backfill and regrading.	

Photographic Log



Photo Number: 9	 <p>Oct 27, 2025 at 5:26:44 PM +32.616558,-104.000511 NM</p>
Photo Direction: East	
Photo Description: View of remediated area after backfill and regrading.	

Photo Number: 10	 <p>Oct 27, 2025 at 5:25:59 PM +32.616521,-104.000139 NM</p>
Photo Direction: South	
Photo Description: View of remediated area after backfill and regrading.	

Appendix D

Laboratory Analytical Reports



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

October 21, 2025

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: CRAZY HORSE STATE COM FED

Enclosed are the results of analyses for samples received by the laboratory on 10/15/25 10:18.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. 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,

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/15/2025	Sampling Date:	10/14/2025
Reported:	10/21/2025	Sampling Type:	Soil
Project Name:	CRAZY HORSE STATE COM FED	Sampling Condition:	Cool & Intact
Project Number:	22789	Sample Received By:	Shalyn Rodriguez
Project Location:	PERMIAN 32.616449, -104.00027		

Sample ID: FL 1 @ 2' (H256474-01)

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	10/17/2025	ND	2.11	106	2.00	3.28	
Toluene*	<0.050	0.050	10/17/2025	ND	2.13	107	2.00	6.90	
Ethylbenzene*	<0.050	0.050	10/17/2025	ND	2.14	107	2.00	9.08	
Total Xylenes*	<0.150	0.150	10/17/2025	ND	6.36	106	6.00	8.79	
Total BTEX	<0.300	0.300	10/17/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.4 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/16/2025	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	10/16/2025	ND	218	109	200	1.67	
DRO >C10-C28*	<10.0	10.0	10/16/2025	ND	209	104	200	2.49	
EXT DRO >C28-C36	<10.0	10.0	10/16/2025	ND					

Surrogate: 1-Chlorooctane 73.4 % 52.4-130

Surrogate: 1-Chlorooctadecane 70.2 % 39.9-141

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/15/2025	Sampling Date:	10/14/2025
Reported:	10/21/2025	Sampling Type:	Soil
Project Name:	CRAZY HORSE STATE COM FED	Sampling Condition:	Cool & Intact
Project Number:	22789	Sample Received By:	Shalyn Rodriguez
Project Location:	PERMIAN 32.616449, -104.00027		

Sample ID: FL 2 @ 3' (H256474-02)

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	10/17/2025	ND	2.11	106	2.00	3.28	
Toluene*	<0.050	0.050	10/17/2025	ND	2.13	107	2.00	6.90	
Ethylbenzene*	<0.050	0.050	10/17/2025	ND	2.14	107	2.00	9.08	
Total Xylenes*	<0.150	0.150	10/17/2025	ND	6.36	106	6.00	8.79	
Total BTEX	<0.300	0.300	10/17/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	10/16/2025	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	10/16/2025	ND	218	109	200	1.67	
DRO >C10-C28*	<10.0	10.0	10/16/2025	ND	209	104	200	2.49	
EXT DRO >C28-C36	<10.0	10.0	10/16/2025	ND					

Surrogate: 1-Chlorooctane 77.3 % 52.4-130

Surrogate: 1-Chlorooctadecane 73.9 % 39.9-141

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/15/2025	Sampling Date:	10/14/2025
Reported:	10/21/2025	Sampling Type:	Soil
Project Name:	CRAZY HORSE STATE COM FED	Sampling Condition:	Cool & Intact
Project Number:	22789	Sample Received By:	Shalyn Rodriguez
Project Location:	PERMIAN 32.616449, -104.00027		

Sample ID: FL 3 @ 3' (H256474-03)

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	10/17/2025	ND	2.11	106	2.00	3.28	
Toluene*	<0.050	0.050	10/17/2025	ND	2.13	107	2.00	6.90	
Ethylbenzene*	<0.050	0.050	10/17/2025	ND	2.14	107	2.00	9.08	
Total Xylenes*	<0.150	0.150	10/17/2025	ND	6.36	106	6.00	8.79	
Total BTEX	<0.300	0.300	10/17/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.6 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	10/16/2025	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	10/16/2025	ND	218	109	200	1.67	
DRO >C10-C28*	<10.0	10.0	10/16/2025	ND	209	104	200	2.49	
EXT DRO >C28-C36	<10.0	10.0	10/16/2025	ND					

Surrogate: 1-Chlorooctane 71.8 % 52.4-130

Surrogate: 1-Chlorooctadecane 69.3 % 39.9-141

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/15/2025	Sampling Date:	10/14/2025
Reported:	10/21/2025	Sampling Type:	Soil
Project Name:	CRAZY HORSE STATE COM FED	Sampling Condition:	Cool & Intact
Project Number:	22789	Sample Received By:	Shalyn Rodriguez
Project Location:	PERMIAN 32.616449, -104.00027		

Sample ID: FL 4 @ 3' (H256474-04)

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	10/17/2025	ND	2.11	106	2.00	3.28	
Toluene*	<0.050	0.050	10/17/2025	ND	2.13	107	2.00	6.90	
Ethylbenzene*	<0.050	0.050	10/17/2025	ND	2.14	107	2.00	9.08	
Total Xylenes*	<0.150	0.150	10/17/2025	ND	6.36	106	6.00	8.79	
Total BTEX	<0.300	0.300	10/17/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.0 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	10/16/2025	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	10/16/2025	ND	218	109	200	1.67	
DRO >C10-C28*	<10.0	10.0	10/16/2025	ND	209	104	200	2.49	
EXT DRO >C28-C36	<10.0	10.0	10/16/2025	ND					

Surrogate: 1-Chlorooctane 81.2 % 52.4-130

Surrogate: 1-Chlorooctadecane 77.2 % 39.9-141

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/15/2025	Sampling Date:	10/14/2025
Reported:	10/21/2025	Sampling Type:	Soil
Project Name:	CRAZY HORSE STATE COM FED	Sampling Condition:	Cool & Intact
Project Number:	22789	Sample Received By:	Shalyn Rodriguez
Project Location:	PERMIAN 32.616449, -104.00027		

Sample ID: FL 5 @ 3' (H256474-05)

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	10/17/2025	ND	2.11	106	2.00	3.28	
Toluene*	<0.050	0.050	10/17/2025	ND	2.13	107	2.00	6.90	
Ethylbenzene*	<0.050	0.050	10/17/2025	ND	2.14	107	2.00	9.08	
Total Xylenes*	<0.150	0.150	10/17/2025	ND	6.36	106	6.00	8.79	
Total BTEX	<0.300	0.300	10/17/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.5 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	10/16/2025	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	10/16/2025	ND	218	109	200	1.67	
DRO >C10-C28*	<10.0	10.0	10/16/2025	ND	209	104	200	2.49	
EXT DRO >C28-C36	<10.0	10.0	10/16/2025	ND					

Surrogate: 1-Chlorooctane 75.6 % 52.4-130

Surrogate: 1-Chlorooctadecane 71.5 % 39.9-141

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/15/2025	Sampling Date:	10/14/2025
Reported:	10/21/2025	Sampling Type:	Soil
Project Name:	CRAZY HORSE STATE COM FED	Sampling Condition:	Cool & Intact
Project Number:	22789	Sample Received By:	Shalyn Rodriguez
Project Location:	PERMIAN 32.616449, -104.00027		

Sample ID: FL 6 @ 3' (H256474-06)

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	10/17/2025	ND	2.11	106	2.00	3.28	
Toluene*	<0.050	0.050	10/17/2025	ND	2.13	107	2.00	6.90	
Ethylbenzene*	<0.050	0.050	10/17/2025	ND	2.14	107	2.00	9.08	
Total Xylenes*	<0.150	0.150	10/17/2025	ND	6.36	106	6.00	8.79	
Total BTEX	<0.300	0.300	10/17/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.4 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	10/16/2025	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	10/16/2025	ND	218	109	200	1.67	
DRO >C10-C28*	<10.0	10.0	10/16/2025	ND	209	104	200	2.49	
EXT DRO >C28-C36	<10.0	10.0	10/16/2025	ND					

Surrogate: 1-Chlorooctane 83.7 % 52.4-130

Surrogate: 1-Chlorooctadecane 79.3 % 39.9-141

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/15/2025	Sampling Date:	10/14/2025
Reported:	10/21/2025	Sampling Type:	Soil
Project Name:	CRAZY HORSE STATE COM FED	Sampling Condition:	Cool & Intact
Project Number:	22789	Sample Received By:	Shalyn Rodriguez
Project Location:	PERMIAN 32.616449, -104.00027		

Sample ID: FL 7 @ 3' (H256474-07)

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	10/17/2025	ND	2.11	106	2.00	3.28	
Toluene*	<0.050	0.050	10/17/2025	ND	2.13	107	2.00	6.90	
Ethylbenzene*	<0.050	0.050	10/17/2025	ND	2.14	107	2.00	9.08	
Total Xylenes*	<0.150	0.150	10/17/2025	ND	6.36	106	6.00	8.79	
Total BTEX	<0.300	0.300	10/17/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.9 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	10/16/2025	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	10/16/2025	ND	218	109	200	1.67	
DRO >C10-C28*	<10.0	10.0	10/16/2025	ND	209	104	200	2.49	
EXT DRO >C28-C36	<10.0	10.0	10/16/2025	ND					

Surrogate: 1-Chlorooctane 81.3 % 52.4-130

Surrogate: 1-Chlorooctadecane 77.3 % 39.9-141

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/15/2025	Sampling Date:	10/14/2025
Reported:	10/21/2025	Sampling Type:	Soil
Project Name:	CRAZY HORSE STATE COM FED	Sampling Condition:	Cool & Intact
Project Number:	22789	Sample Received By:	Shalyn Rodriguez
Project Location:	PERMIAN 32.616449, -104.00027		

Sample ID: FL 8 @ 3' (H256474-08)

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	10/17/2025	ND	2.11	106	2.00	3.28	
Toluene*	<0.050	0.050	10/17/2025	ND	2.13	107	2.00	6.90	
Ethylbenzene*	<0.050	0.050	10/17/2025	ND	2.14	107	2.00	9.08	
Total Xylenes*	<0.150	0.150	10/17/2025	ND	6.36	106	6.00	8.79	
Total BTEX	<0.300	0.300	10/17/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.8 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	10/16/2025	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	10/16/2025	ND	218	109	200	1.67	
DRO >C10-C28*	<10.0	10.0	10/16/2025	ND	209	104	200	2.49	
EXT DRO >C28-C36	<10.0	10.0	10/16/2025	ND					

Surrogate: 1-Chlorooctane 79.5 % 52.4-130

Surrogate: 1-Chlorooctadecane 74.7 % 39.9-141

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/15/2025	Sampling Date:	10/14/2025
Reported:	10/21/2025	Sampling Type:	Soil
Project Name:	CRAZY HORSE STATE COM FED	Sampling Condition:	Cool & Intact
Project Number:	22789	Sample Received By:	Shalyn Rodriguez
Project Location:	PERMIAN 32.616449, -104.00027		

Sample ID: FL 9 @ 3' (H256474-09)

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	10/17/2025	ND	2.11	106	2.00	3.28	
Toluene*	<0.050	0.050	10/17/2025	ND	2.13	107	2.00	6.90	
Ethylbenzene*	<0.050	0.050	10/17/2025	ND	2.14	107	2.00	9.08	
Total Xylenes*	<0.150	0.150	10/17/2025	ND	6.36	106	6.00	8.79	
Total BTEX	<0.300	0.300	10/17/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.7 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	10/16/2025	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	10/16/2025	ND	218	109	200	1.67	
DRO >C10-C28*	<10.0	10.0	10/16/2025	ND	209	104	200	2.49	
EXT DRO >C28-C36	<10.0	10.0	10/16/2025	ND					

Surrogate: 1-Chlorooctane 81.6 % 52.4-130

Surrogate: 1-Chlorooctadecane 77.0 % 39.9-141

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/15/2025	Sampling Date:	10/14/2025
Reported:	10/21/2025	Sampling Type:	Soil
Project Name:	CRAZY HORSE STATE COM FED	Sampling Condition:	Cool & Intact
Project Number:	22789	Sample Received By:	Shalyn Rodriguez
Project Location:	PERMIAN 32.616449, -104.00027		

Sample ID: FL 10 @ 3' (H256474-10)

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	10/17/2025	ND	2.11	106	2.00	3.28	
Toluene*	<0.050	0.050	10/17/2025	ND	2.13	107	2.00	6.90	
Ethylbenzene*	<0.050	0.050	10/17/2025	ND	2.14	107	2.00	9.08	
Total Xylenes*	<0.150	0.150	10/17/2025	ND	6.36	106	6.00	8.79	
Total BTEX	<0.300	0.300	10/17/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.3 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/16/2025	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	10/16/2025	ND	218	109	200	1.67	
DRO >C10-C28*	<10.0	10.0	10/16/2025	ND	209	104	200	2.49	
EXT DRO >C28-C36	<10.0	10.0	10/16/2025	ND					

Surrogate: 1-Chlorooctane 77.7 % 52.4-130

Surrogate: 1-Chlorooctadecane 73.4 % 39.9-141

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/15/2025	Sampling Date:	10/14/2025
Reported:	10/21/2025	Sampling Type:	Soil
Project Name:	CRAZY HORSE STATE COM FED	Sampling Condition:	Cool & Intact
Project Number:	22789	Sample Received By:	Shalyn Rodriguez
Project Location:	PERMIAN 32.616449, -104.00027		

Sample ID: FL 11 @ 3' (H256474-11)

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	10/17/2025	ND	2.11	106	2.00	3.28	
Toluene*	<0.050	0.050	10/17/2025	ND	2.13	107	2.00	6.90	
Ethylbenzene*	<0.050	0.050	10/17/2025	ND	2.14	107	2.00	9.08	
Total Xylenes*	<0.150	0.150	10/17/2025	ND	6.36	106	6.00	8.79	
Total BTEX	<0.300	0.300	10/17/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.3 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	10/16/2025	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	10/16/2025	ND	218	109	200	1.67	
DRO >C10-C28*	<10.0	10.0	10/16/2025	ND	209	104	200	2.49	
EXT DRO >C28-C36	<10.0	10.0	10/16/2025	ND					

Surrogate: 1-Chlorooctane 93.8 % 52.4-130

Surrogate: 1-Chlorooctadecane 89.6 % 39.9-141

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/15/2025	Sampling Date:	10/14/2025
Reported:	10/21/2025	Sampling Type:	Soil
Project Name:	CRAZY HORSE STATE COM FED	Sampling Condition:	Cool & Intact
Project Number:	22789	Sample Received By:	Shalyn Rodriguez
Project Location:	PERMIAN 32.616449, -104.00027		

Sample ID: FL 12 @ 3' (H256474-12)

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	10/17/2025	ND	2.11	106	2.00	3.28	
Toluene*	<0.050	0.050	10/17/2025	ND	2.13	107	2.00	6.90	
Ethylbenzene*	<0.050	0.050	10/17/2025	ND	2.14	107	2.00	9.08	
Total Xylenes*	<0.150	0.150	10/17/2025	ND	6.36	106	6.00	8.79	
Total BTEX	<0.300	0.300	10/17/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.4 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	10/16/2025	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	10/16/2025	ND	218	109	200	1.67	
DRO >C10-C28*	<10.0	10.0	10/16/2025	ND	209	104	200	2.49	
EXT DRO >C28-C36	<10.0	10.0	10/16/2025	ND					

Surrogate: 1-Chlorooctane 68.6 % 52.4-130

Surrogate: 1-Chlorooctadecane 64.7 % 39.9-141

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/15/2025	Sampling Date:	10/14/2025
Reported:	10/21/2025	Sampling Type:	Soil
Project Name:	CRAZY HORSE STATE COM FED	Sampling Condition:	Cool & Intact
Project Number:	22789	Sample Received By:	Shalyn Rodriguez
Project Location:	PERMIAN 32.616449, -104.00027		

Sample ID: FL 13 @ 3' (H256474-13)

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	10/17/2025	ND	2.11	106	2.00	3.28	
Toluene*	<0.050	0.050	10/17/2025	ND	2.13	107	2.00	6.90	
Ethylbenzene*	<0.050	0.050	10/17/2025	ND	2.14	107	2.00	9.08	
Total Xylenes*	<0.150	0.150	10/17/2025	ND	6.36	106	6.00	8.79	
Total BTEX	<0.300	0.300	10/17/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.6 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	10/16/2025	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	10/16/2025	ND	202	101	200	1.19	
DRO >C10-C28*	<10.0	10.0	10/16/2025	ND	216	108	200	0.725	
EXT DRO >C28-C36	<10.0	10.0	10/16/2025	ND					

Surrogate: 1-Chlorooctane 94.9 % 52.4-130

Surrogate: 1-Chlorooctadecane 95.0 % 39.9-141

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/15/2025	Sampling Date:	10/14/2025
Reported:	10/21/2025	Sampling Type:	Soil
Project Name:	CRAZY HORSE STATE COM FED	Sampling Condition:	Cool & Intact
Project Number:	22789	Sample Received By:	Shalyn Rodriguez
Project Location:	PERMIAN 32.616449, -104.00027		

Sample ID: FL 14 @ 3' (H256474-14)

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	10/17/2025	ND	2.11	106	2.00	3.28	
Toluene*	<0.050	0.050	10/17/2025	ND	2.13	107	2.00	6.90	
Ethylbenzene*	<0.050	0.050	10/17/2025	ND	2.14	107	2.00	9.08	
Total Xylenes*	<0.150	0.150	10/17/2025	ND	6.36	106	6.00	8.79	
Total BTEX	<0.300	0.300	10/17/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	10/16/2025	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	10/16/2025	ND	202	101	200	1.19	
DRO >C10-C28*	<10.0	10.0	10/16/2025	ND	216	108	200	0.725	
EXT DRO >C28-C36	<10.0	10.0	10/16/2025	ND					

Surrogate: 1-Chlorooctane 89.0 % 52.4-130

Surrogate: 1-Chlorooctadecane 89.2 % 39.9-141

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/15/2025	Sampling Date:	10/14/2025
Reported:	10/21/2025	Sampling Type:	Soil
Project Name:	CRAZY HORSE STATE COM FED	Sampling Condition:	Cool & Intact
Project Number:	22789	Sample Received By:	Shalyn Rodriguez
Project Location:	PERMIAN 32.616449, -104.00027		

Sample ID: FL 15 @ 3' (H256474-15)

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	10/17/2025	ND	2.11	106	2.00	3.28	
Toluene*	<0.050	0.050	10/17/2025	ND	2.13	107	2.00	6.90	
Ethylbenzene*	<0.050	0.050	10/17/2025	ND	2.14	107	2.00	9.08	
Total Xylenes*	<0.150	0.150	10/17/2025	ND	6.36	106	6.00	8.79	
Total BTEX	<0.300	0.300	10/17/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.6 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/16/2025	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	10/16/2025	ND	202	101	200	1.19	
DRO >C10-C28*	<10.0	10.0	10/16/2025	ND	216	108	200	0.725	
EXT DRO >C28-C36	<10.0	10.0	10/16/2025	ND					

Surrogate: 1-Chlorooctane 90.4 % 52.4-130

Surrogate: 1-Chlorooctadecane 90.1 % 39.9-141

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/15/2025	Sampling Date:	10/14/2025
Reported:	10/21/2025	Sampling Type:	Soil
Project Name:	CRAZY HORSE STATE COM FED	Sampling Condition:	Cool & Intact
Project Number:	22789	Sample Received By:	Shalyn Rodriguez
Project Location:	PERMIAN 32.616449, -104.00027		

Sample ID: FL 16 @ 3' (H256474-16)

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	10/17/2025	ND	2.11	106	2.00	3.28	
Toluene*	<0.050	0.050	10/17/2025	ND	2.13	107	2.00	6.90	
Ethylbenzene*	<0.050	0.050	10/17/2025	ND	2.14	107	2.00	9.08	
Total Xylenes*	<0.150	0.150	10/17/2025	ND	6.36	106	6.00	8.79	
Total BTEX	<0.300	0.300	10/17/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.0 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/16/2025	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	10/16/2025	ND	202	101	200	1.19	
DRO >C10-C28*	<10.0	10.0	10/16/2025	ND	216	108	200	0.725	
EXT DRO >C28-C36	<10.0	10.0	10/16/2025	ND					

Surrogate: 1-Chlorooctane 91.6 % 52.4-130

Surrogate: 1-Chlorooctadecane 91.2 % 39.9-141

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/15/2025	Sampling Date:	10/14/2025
Reported:	10/21/2025	Sampling Type:	Soil
Project Name:	CRAZY HORSE STATE COM FED	Sampling Condition:	Cool & Intact
Project Number:	22789	Sample Received By:	Shalyn Rodriguez
Project Location:	PERMIAN 32.616449, -104.00027		

Sample ID: FL 17 @ 3' (H256474-17)

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	10/17/2025	ND	2.11	106	2.00	3.28	
Toluene*	<0.050	0.050	10/17/2025	ND	2.13	107	2.00	6.90	
Ethylbenzene*	<0.050	0.050	10/17/2025	ND	2.14	107	2.00	9.08	
Total Xylenes*	<0.150	0.150	10/17/2025	ND	6.36	106	6.00	8.79	
Total BTEX	<0.300	0.300	10/17/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	10/16/2025	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	10/16/2025	ND	202	101	200	1.19	
DRO >C10-C28*	<10.0	10.0	10/16/2025	ND	216	108	200	0.725	
EXT DRO >C28-C36	<10.0	10.0	10/16/2025	ND					

Surrogate: 1-Chlorooctane 96.3 % 52.4-130

Surrogate: 1-Chlorooctadecane 96.8 % 39.9-141

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/15/2025	Sampling Date:	10/14/2025
Reported:	10/21/2025	Sampling Type:	Soil
Project Name:	CRAZY HORSE STATE COM FED	Sampling Condition:	Cool & Intact
Project Number:	22789	Sample Received By:	Shalyn Rodriguez
Project Location:	PERMIAN 32.616449, -104.00027		

Sample ID: NW 1 (H256474-18)

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	10/17/2025	ND	2.11	106	2.00	3.28	
Toluene*	<0.050	0.050	10/17/2025	ND	2.13	107	2.00	6.90	
Ethylbenzene*	<0.050	0.050	10/17/2025	ND	2.14	107	2.00	9.08	
Total Xylenes*	<0.150	0.150	10/17/2025	ND	6.36	106	6.00	8.79	
Total BTEX	<0.300	0.300	10/17/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.2 % 70.4-141

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	10/16/2025	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	10/16/2025	ND	202	101	200	1.19	
DRO >C10-C28*	<10.0	10.0	10/16/2025	ND	216	108	200	0.725	
EXT DRO >C28-C36	<10.0	10.0	10/16/2025	ND					

Surrogate: 1-Chlorooctane 83.8 % 52.4-130

Surrogate: 1-Chlorooctadecane 84.2 % 39.9-141

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/15/2025	Sampling Date:	10/14/2025
Reported:	10/21/2025	Sampling Type:	Soil
Project Name:	CRAZY HORSE STATE COM FED	Sampling Condition:	Cool & Intact
Project Number:	22789	Sample Received By:	Shalyn Rodriguez
Project Location:	PERMIAN 32.616449, -104.00027		

Sample ID: EW 1 (H256474-19)

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	10/17/2025	ND	2.11	106	2.00	3.28	
Toluene*	<0.050	0.050	10/17/2025	ND	2.13	107	2.00	6.90	
Ethylbenzene*	<0.050	0.050	10/17/2025	ND	2.14	107	2.00	9.08	
Total Xylenes*	<0.150	0.150	10/17/2025	ND	6.36	106	6.00	8.79	
Total BTEX	<0.300	0.300	10/17/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.2 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	10/16/2025	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	10/16/2025	ND	202	101	200	1.19	
DRO >C10-C28*	<10.0	10.0	10/16/2025	ND	216	108	200	0.725	
EXT DRO >C28-C36	<10.0	10.0	10/16/2025	ND					

Surrogate: 1-Chlorooctane 97.5 % 52.4-130

Surrogate: 1-Chlorooctadecane 97.1 % 39.9-141

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/15/2025	Sampling Date:	10/14/2025
Reported:	10/21/2025	Sampling Type:	Soil
Project Name:	CRAZY HORSE STATE COM FED	Sampling Condition:	Cool & Intact
Project Number:	22789	Sample Received By:	Shalyn Rodriguez
Project Location:	PERMIAN 32.616449, -104.00027		

Sample ID: EW 2 (H256474-20)

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	10/17/2025	ND	2.11	106	2.00	3.28	
Toluene*	<0.050	0.050	10/17/2025	ND	2.13	107	2.00	6.90	
Ethylbenzene*	<0.050	0.050	10/17/2025	ND	2.14	107	2.00	9.08	
Total Xylenes*	<0.150	0.150	10/17/2025	ND	6.36	106	6.00	8.79	
Total BTEX	<0.300	0.300	10/17/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.3 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	10/16/2025	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	10/16/2025	ND	202	101	200	1.19	
DRO >C10-C28*	<10.0	10.0	10/16/2025	ND	216	108	200	0.725	
EXT DRO >C28-C36	<10.0	10.0	10/16/2025	ND					

Surrogate: 1-Chlorooctane 93.3 % 52.4-130

Surrogate: 1-Chlorooctadecane 94.1 % 39.9-141

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/15/2025	Sampling Date:	10/14/2025
Reported:	10/21/2025	Sampling Type:	Soil
Project Name:	CRAZY HORSE STATE COM FED	Sampling Condition:	Cool & Intact
Project Number:	22789	Sample Received By:	Shalyn Rodriguez
Project Location:	PERMIAN 32.616449, -104.00027		

Sample ID: SW 1 (H256474-21)

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	10/17/2025	ND	1.85	92.6	2.00	1.54	
Toluene*	<0.050	0.050	10/17/2025	ND	1.87	93.3	2.00	0.214	
Ethylbenzene*	<0.050	0.050	10/17/2025	ND	1.85	92.6	2.00	0.293	
Total Xylenes*	<0.150	0.150	10/17/2025	ND	5.78	96.4	6.00	0.202	
Total BTEX	<0.300	0.300	10/17/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	10/16/2025	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	10/16/2025	ND	202	101	200	1.19	
DRO >C10-C28*	<10.0	10.0	10/16/2025	ND	216	108	200	0.725	
EXT DRO >C28-C36	<10.0	10.0	10/16/2025	ND					

Surrogate: 1-Chlorooctane 92.5 % 52.4-130

Surrogate: 1-Chlorooctadecane 92.4 % 39.9-141

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/15/2025	Sampling Date:	10/14/2025
Reported:	10/21/2025	Sampling Type:	Soil
Project Name:	CRAZY HORSE STATE COM FED	Sampling Condition:	Cool & Intact
Project Number:	22789	Sample Received By:	Shalyn Rodriguez
Project Location:	PERMIAN 32.616449, -104.00027		

Sample ID: WW 1 (H256474-22)

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	10/17/2025	ND	1.85	92.6	2.00	1.54	
Toluene*	<0.050	0.050	10/17/2025	ND	1.87	93.3	2.00	0.214	
Ethylbenzene*	<0.050	0.050	10/17/2025	ND	1.85	92.6	2.00	0.293	
Total Xylenes*	<0.150	0.150	10/17/2025	ND	5.78	96.4	6.00	0.202	
Total BTEX	<0.300	0.300	10/17/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 70.4-141

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	10/16/2025	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	10/16/2025	ND	202	101	200	1.19	
DRO >C10-C28*	<10.0	10.0	10/16/2025	ND	216	108	200	0.725	
EXT DRO >C28-C36	<10.0	10.0	10/16/2025	ND					

Surrogate: 1-Chlorooctane 85.6 % 52.4-130

Surrogate: 1-Chlorooctadecane 84.7 % 39.9-141

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/15/2025	Sampling Date:	10/14/2025
Reported:	10/21/2025	Sampling Type:	Soil
Project Name:	CRAZY HORSE STATE COM FED	Sampling Condition:	Cool & Intact
Project Number:	22789	Sample Received By:	Shalyn Rodriguez
Project Location:	PERMIAN 32.616449, -104.00027		

Sample ID: WW 2 (H256474-23)

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	10/17/2025	ND	1.85	92.6	2.00	1.54	
Toluene*	<0.050	0.050	10/17/2025	ND	1.87	93.3	2.00	0.214	
Ethylbenzene*	<0.050	0.050	10/17/2025	ND	1.85	92.6	2.00	0.293	
Total Xylenes*	<0.150	0.150	10/17/2025	ND	5.78	96.4	6.00	0.202	
Total BTEX	<0.300	0.300	10/17/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 70.4-141

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	10/16/2025	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	10/16/2025	ND	202	101	200	1.19	
DRO >C10-C28*	<10.0	10.0	10/16/2025	ND	216	108	200	0.725	
EXT DRO >C28-C36	<10.0	10.0	10/16/2025	ND					

Surrogate: 1-Chlorooctane 91.1 % 52.4-130

Surrogate: 1-Chlorooctadecane 90.9 % 39.9-141

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

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

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

Company Name: Etech Environmental & Safety Solutions, Inc.
Project Manager: Joel Lowry
Address: 2617 West Marland
City: Hobbs State: NM Zip: 88240
Phone #: (575) 264-9884 Fax #:
Project #: 22789 Project Owner: Permian Resources Oper
Project Name: Crazy Horse State Com Fed
Project Location: 32.616449, -104.00027
Sampler Name: Martin Sepulveda
BILL TO: P.O. #: Company: Permian Resources Attn: Montgomery Floyd Address:
ANALYSIS REQUEST: Chloride TPH (8015M) BTEX (8021B)

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service.

Relinquished By: [Signature] Date: 10-15-25 Time: 1018 Received By: [Signature] Verbal Result: [X] Yes [] No Add'l Phone #: All Results are emailed. Please provide Email address: pm@etechenv.com
Delivered By: (Circle One) Sampler - UPS - Bus - Other: Observed Temp. °C: -0.1 Corrected Temp. °C: 0.2 Sample Condition: Cool Intact CHECKED BY: (Initials) Turnaround Time: Standard Rush [X] 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.		BILL TO			ANALYSIS REQUEST																						
Project Manager: Joel Lowry		P.O. #:			Chloride	TPH (8015M)	BTEX (8021B)																				
Address: 2617 West Marland		Company: Permian Resources																									
City: Hobbs State: NM Zip: 88240		Attn: Montgomery Floyd																									
Phone #: (575) 264-9884 Fax #:		Address:																									
Project #: 22789 Project Owner: Permian Resources Oper		City:																									
Project Name: Crazy Horse State Com Fed		State: Zip:																									
Project Location: 32.616449, -104.00027		Phone #:																									
Sampler Name: Martin Sepulveda		Fax #:																									
FOR LAB USE ONLY	Lab I.D.	Sample I.D.	(GRAB OR /COMP.	# CONTAINERS				MATRIX					PRESERV.			SAMPLING											
								GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME									
	H050474		C	1			X					X		10/14/25		X	X	X									
	11	FL 11 @ 3'	C	1			X					X		10/14/25		X	X	X									
	12	FL 12 @ 3'	C	1			X					X		10/14/25		X	X	X									
	13	FL 13 @ 3'	C	1			X					X		10/14/25		X	X	X									
	14	FL 14 @ 3'	C	1			X					X		10/14/25		X	X	X									
	15	FL 15 @ 3'	C	1			X					X		10/14/25		X	X	X									
	16	FL 16 @ 3'	C	1			X					X		10/14/25		X	X	X									
	17	FL 17 @ 3'	C	1			X					X		10/14/25		X	X	X									
	18	NW 1	C	1			X					X		10/14/25		X	X	X									
	19	EW 1	C	1			X					X		10/14/25		X	X	X									
	20	EW 2	C	1			X					X		10/14/25		X	X	X									

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: <i>Martin Sepulveda</i>	Date: 10/15/25 Time: 10:18	Received By: <i>Spedrigney</i>	Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #:
Relinquished By:	Date:	Received By:	All Results are emailed. Please provide Email address: pm@etechnv.com
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C: 0.1 Corrected Temp. °C: 0.2	Sample Condition Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	REMARKS:
		CHECKED BY: <i>SK</i>	Turnaround Time: Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/>
			Bacteria (only) Sample Condition Cool Intact Observed Temp. °C <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
			Thermometer ID #140 Correction Factor -0.8°C +0.3



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

October 23, 2025

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: CRAZY HORSE STATE COM FED

Enclosed are the results of analyses for samples received by the laboratory on 10/17/25 14:43.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. 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
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	10/17/2025	Sampling Date:	10/16/2025
Reported:	10/23/2025	Sampling Type:	Soil
Project Name:	CRAZY HORSE STATE COM FED	Sampling Condition:	Cool & Intact
Project Number:	22789	Sample Received By:	Shalyn Rodriguez
Project Location:	PERMIAN 32.616449, -104.00027		

Sample ID: FL 18 @ 3' (H256574-01)

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	10/21/2025	ND	2.15	107	2.00	1.43	
Toluene*	<0.050	0.050	10/21/2025	ND	2.09	105	2.00	1.26	
Ethylbenzene*	<0.050	0.050	10/21/2025	ND	2.13	107	2.00	0.723	
Total Xylenes*	<0.150	0.150	10/21/2025	ND	6.55	109	6.00	0.517	
Total BTEX	<0.300	0.300	10/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	10/20/2025	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	10/20/2025	ND	216	108	200	2.87	
DRO >C10-C28*	<10.0	10.0	10/20/2025	ND	195	97.5	200	9.37	
EXT DRO >C28-C36	<10.0	10.0	10/20/2025	ND					

Surrogate: 1-Chlorooctane 83.9 % 52.4-130

Surrogate: 1-Chlorooctadecane 79.8 % 39.9-141

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/17/2025	Sampling Date:	10/16/2025
Reported:	10/23/2025	Sampling Type:	Soil
Project Name:	CRAZY HORSE STATE COM FED	Sampling Condition:	Cool & Intact
Project Number:	22789	Sample Received By:	Shalyn Rodriguez
Project Location:	PERMIAN 32.616449, -104.00027		

Sample ID: FL 19 @ 3' (H256574-02)

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	10/21/2025	ND	2.15	107	2.00	1.43	
Toluene*	<0.050	0.050	10/21/2025	ND	2.09	105	2.00	1.26	
Ethylbenzene*	<0.050	0.050	10/21/2025	ND	2.13	107	2.00	0.723	
Total Xylenes*	<0.150	0.150	10/21/2025	ND	6.55	109	6.00	0.517	
Total BTEX	<0.300	0.300	10/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 70.4-141

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	10/20/2025	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	10/20/2025	ND	216	108	200	2.87	
DRO >C10-C28*	<10.0	10.0	10/20/2025	ND	195	97.5	200	9.37	
EXT DRO >C28-C36	<10.0	10.0	10/20/2025	ND					

Surrogate: 1-Chlorooctane 88.7 % 52.4-130

Surrogate: 1-Chlorooctadecane 86.4 % 39.9-141

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/17/2025	Sampling Date:	10/16/2025
Reported:	10/23/2025	Sampling Type:	Soil
Project Name:	CRAZY HORSE STATE COM FED	Sampling Condition:	Cool & Intact
Project Number:	22789	Sample Received By:	Shalyn Rodriguez
Project Location:	PERMIAN 32.616449, -104.00027		

Sample ID: FL 20 @ 3' (H256574-03)

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	10/21/2025	ND	2.15	107	2.00	1.43	
Toluene*	<0.050	0.050	10/21/2025	ND	2.09	105	2.00	1.26	
Ethylbenzene*	<0.050	0.050	10/21/2025	ND	2.13	107	2.00	0.723	
Total Xylenes*	<0.150	0.150	10/21/2025	ND	6.55	109	6.00	0.517	
Total BTEX	<0.300	0.300	10/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 70.4-141

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	10/20/2025	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	10/20/2025	ND	216	108	200	2.87	
DRO >C10-C28*	<10.0	10.0	10/20/2025	ND	195	97.5	200	9.37	
EXT DRO >C28-C36	<10.0	10.0	10/20/2025	ND					

Surrogate: 1-Chlorooctane 83.3 % 52.4-130

Surrogate: 1-Chlorooctadecane 79.3 % 39.9-141

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/17/2025	Sampling Date:	10/16/2025
Reported:	10/23/2025	Sampling Type:	Soil
Project Name:	CRAZY HORSE STATE COM FED	Sampling Condition:	Cool & Intact
Project Number:	22789	Sample Received By:	Shalyn Rodriguez
Project Location:	PERMIAN 32.616449, -104.00027		

Sample ID: FL 21 @ 3' (H256574-04)

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	10/21/2025	ND	2.15	107	2.00	1.43	
Toluene*	<0.050	0.050	10/21/2025	ND	2.09	105	2.00	1.26	
Ethylbenzene*	<0.050	0.050	10/21/2025	ND	2.13	107	2.00	0.723	
Total Xylenes*	<0.150	0.150	10/21/2025	ND	6.55	109	6.00	0.517	
Total BTEX	<0.300	0.300	10/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 70.4-141

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	10/20/2025	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	10/20/2025	ND	216	108	200	2.87	
DRO >C10-C28*	<10.0	10.0	10/20/2025	ND	195	97.5	200	9.37	
EXT DRO >C28-C36	<10.0	10.0	10/20/2025	ND					

Surrogate: 1-Chlorooctane 86.7 % 52.4-130

Surrogate: 1-Chlorooctadecane 84.0 % 39.9-141

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/17/2025	Sampling Date:	10/16/2025
Reported:	10/23/2025	Sampling Type:	Soil
Project Name:	CRAZY HORSE STATE COM FED	Sampling Condition:	Cool & Intact
Project Number:	22789	Sample Received By:	Shalyn Rodriguez
Project Location:	PERMIAN 32.616449, -104.00027		

Sample ID: FL 22 @ 3' (H256574-05)

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	10/21/2025	ND	2.15	107	2.00	1.43	
Toluene*	<0.050	0.050	10/21/2025	ND	2.09	105	2.00	1.26	
Ethylbenzene*	<0.050	0.050	10/21/2025	ND	2.13	107	2.00	0.723	
Total Xylenes*	<0.150	0.150	10/21/2025	ND	6.55	109	6.00	0.517	
Total BTEX	<0.300	0.300	10/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 70.4-141

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	10/20/2025	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	10/20/2025	ND	216	108	200	2.87	
DRO >C10-C28*	<10.0	10.0	10/20/2025	ND	195	97.5	200	9.37	
EXT DRO >C28-C36	<10.0	10.0	10/20/2025	ND					

Surrogate: 1-Chlorooctane 88.7 % 52.4-130

Surrogate: 1-Chlorooctadecane 86.2 % 39.9-141

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/17/2025	Sampling Date:	10/16/2025
Reported:	10/23/2025	Sampling Type:	Soil
Project Name:	CRAZY HORSE STATE COM FED	Sampling Condition:	Cool & Intact
Project Number:	22789	Sample Received By:	Shalyn Rodriguez
Project Location:	PERMIAN 32.616449, -104.00027		

Sample ID: FL 23 @ 4' (H256574-06)

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	10/20/2025	ND	1.85	92.5	2.00	1.08	
Toluene*	<0.050	0.050	10/20/2025	ND	1.88	93.8	2.00	0.550	
Ethylbenzene*	<0.050	0.050	10/20/2025	ND	1.86	92.8	2.00	0.185	
Total Xylenes*	<0.150	0.150	10/20/2025	ND	5.79	96.5	6.00	0.731	
Total BTEX	<0.300	0.300	10/20/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 70.4-141

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	10/20/2025	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	10/20/2025	ND	216	108	200	6.94	
DRO >C10-C28*	<10.0	10.0	10/20/2025	ND	198	99.0	200	6.64	
EXT DRO >C28-C36	<10.0	10.0	10/20/2025	ND					

Surrogate: 1-Chlorooctane 99.9 % 52.4-130

Surrogate: 1-Chlorooctadecane 89.8 % 39.9-141

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/17/2025	Sampling Date:	10/16/2025
Reported:	10/23/2025	Sampling Type:	Soil
Project Name:	CRAZY HORSE STATE COM FED	Sampling Condition:	Cool & Intact
Project Number:	22789	Sample Received By:	Shalyn Rodriguez
Project Location:	PERMIAN 32.616449, -104.00027		

Sample ID: FL 24 @ 4' (H256574-07)

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	10/20/2025	ND	1.85	92.5	2.00	1.08	
Toluene*	<0.050	0.050	10/20/2025	ND	1.88	93.8	2.00	0.550	
Ethylbenzene*	<0.050	0.050	10/20/2025	ND	1.86	92.8	2.00	0.185	
Total Xylenes*	<0.150	0.150	10/20/2025	ND	5.79	96.5	6.00	0.731	
Total BTEX	<0.300	0.300	10/20/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	10/20/2025	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	10/20/2025	ND	216	108	200	6.94	
DRO >C10-C28*	<10.0	10.0	10/20/2025	ND	198	99.0	200	6.64	
EXT DRO >C28-C36	<10.0	10.0	10/20/2025	ND					

Surrogate: 1-Chlorooctane 102 % 52.4-130

Surrogate: 1-Chlorooctadecane 92.8 % 39.9-141

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/17/2025	Sampling Date:	10/16/2025
Reported:	10/23/2025	Sampling Type:	Soil
Project Name:	CRAZY HORSE STATE COM FED	Sampling Condition:	Cool & Intact
Project Number:	22789	Sample Received By:	Shalyn Rodriguez
Project Location:	PERMIAN 32.616449, -104.00027		

Sample ID: FL 25 @ 3' (H256574-08)

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	10/20/2025	ND	1.85	92.5	2.00	1.08	
Toluene*	<0.050	0.050	10/20/2025	ND	1.88	93.8	2.00	0.550	
Ethylbenzene*	<0.050	0.050	10/20/2025	ND	1.86	92.8	2.00	0.185	
Total Xylenes*	<0.150	0.150	10/20/2025	ND	5.79	96.5	6.00	0.731	
Total BTEX	<0.300	0.300	10/20/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 70.4-141

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	10/20/2025	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	10/20/2025	ND	216	108	200	6.94	
DRO >C10-C28*	<10.0	10.0	10/20/2025	ND	198	99.0	200	6.64	
EXT DRO >C28-C36	<10.0	10.0	10/20/2025	ND					

Surrogate: 1-Chlorooctane 92.5 % 52.4-130

Surrogate: 1-Chlorooctadecane 83.6 % 39.9-141

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/17/2025	Sampling Date:	10/16/2025
Reported:	10/23/2025	Sampling Type:	Soil
Project Name:	CRAZY HORSE STATE COM FED	Sampling Condition:	Cool & Intact
Project Number:	22789	Sample Received By:	Shalyn Rodriguez
Project Location:	PERMIAN 32.616449, -104.00027		

Sample ID: FL 26 @ 3' (H256574-09)

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	10/20/2025	ND	1.85	92.5	2.00	1.08	
Toluene*	<0.050	0.050	10/20/2025	ND	1.88	93.8	2.00	0.550	
Ethylbenzene*	<0.050	0.050	10/20/2025	ND	1.86	92.8	2.00	0.185	
Total Xylenes*	<0.150	0.150	10/20/2025	ND	5.79	96.5	6.00	0.731	
Total BTEX	<0.300	0.300	10/20/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	10/20/2025	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	10/20/2025	ND	216	108	200	6.94	
DRO >C10-C28*	<10.0	10.0	10/20/2025	ND	198	99.0	200	6.64	
EXT DRO >C28-C36	<10.0	10.0	10/20/2025	ND					

Surrogate: 1-Chlorooctane 103 % 52.4-130

Surrogate: 1-Chlorooctadecane 94.1 % 39.9-141

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/17/2025	Sampling Date:	10/16/2025
Reported:	10/23/2025	Sampling Type:	Soil
Project Name:	CRAZY HORSE STATE COM FED	Sampling Condition:	Cool & Intact
Project Number:	22789	Sample Received By:	Shalyn Rodriguez
Project Location:	PERMIAN 32.616449, -104.00027		

Sample ID: FL 27 @ 3' (H256574-10)

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	10/20/2025	ND	1.85	92.5	2.00	1.08	
Toluene*	<0.050	0.050	10/20/2025	ND	1.88	93.8	2.00	0.550	
Ethylbenzene*	<0.050	0.050	10/20/2025	ND	1.86	92.8	2.00	0.185	
Total Xylenes*	<0.150	0.150	10/20/2025	ND	5.79	96.5	6.00	0.731	
Total BTEX	<0.300	0.300	10/20/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 70.4-141

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	10/20/2025	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	10/20/2025	ND	216	108	200	6.94	
DRO >C10-C28*	<10.0	10.0	10/20/2025	ND	198	99.0	200	6.64	
EXT DRO >C28-C36	<10.0	10.0	10/20/2025	ND					

Surrogate: 1-Chlorooctane 94.2 % 52.4-130

Surrogate: 1-Chlorooctadecane 86.2 % 39.9-141

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/17/2025	Sampling Date:	10/16/2025
Reported:	10/23/2025	Sampling Type:	Soil
Project Name:	CRAZY HORSE STATE COM FED	Sampling Condition:	Cool & Intact
Project Number:	22789	Sample Received By:	Shalyn Rodriguez
Project Location:	PERMIAN 32.616449, -104.00027		

Sample ID: FL 28 @ 3' (H256574-11)

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	10/20/2025	ND	1.85	92.5	2.00	1.08	
Toluene*	<0.050	0.050	10/20/2025	ND	1.88	93.8	2.00	0.550	
Ethylbenzene*	<0.050	0.050	10/20/2025	ND	1.86	92.8	2.00	0.185	
Total Xylenes*	<0.150	0.150	10/20/2025	ND	5.79	96.5	6.00	0.731	
Total BTEX	<0.300	0.300	10/20/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	10/20/2025	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	10/20/2025	ND	216	108	200	6.94	
DRO >C10-C28*	<10.0	10.0	10/20/2025	ND	198	99.0	200	6.64	
EXT DRO >C28-C36	<10.0	10.0	10/20/2025	ND					

Surrogate: 1-Chlorooctane 91.2 % 52.4-130

Surrogate: 1-Chlorooctadecane 85.4 % 39.9-141

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/17/2025	Sampling Date:	10/16/2025
Reported:	10/23/2025	Sampling Type:	Soil
Project Name:	CRAZY HORSE STATE COM FED	Sampling Condition:	Cool & Intact
Project Number:	22789	Sample Received By:	Shalyn Rodriguez
Project Location:	PERMIAN 32.616449, -104.00027		

Sample ID: FL 29 @ 3' (H256574-12)

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	10/20/2025	ND	1.85	92.5	2.00	1.08	
Toluene*	<0.050	0.050	10/20/2025	ND	1.88	93.8	2.00	0.550	
Ethylbenzene*	<0.050	0.050	10/20/2025	ND	1.86	92.8	2.00	0.185	
Total Xylenes*	<0.150	0.150	10/20/2025	ND	5.79	96.5	6.00	0.731	
Total BTEX	<0.300	0.300	10/20/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	10/20/2025	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	10/20/2025	ND	216	108	200	6.94	
DRO >C10-C28*	<10.0	10.0	10/20/2025	ND	198	99.0	200	6.64	
EXT DRO >C28-C36	<10.0	10.0	10/20/2025	ND					

Surrogate: 1-Chlorooctane 93.4 % 52.4-130

Surrogate: 1-Chlorooctadecane 85.1 % 39.9-141

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/17/2025	Sampling Date:	10/16/2025
Reported:	10/23/2025	Sampling Type:	Soil
Project Name:	CRAZY HORSE STATE COM FED	Sampling Condition:	Cool & Intact
Project Number:	22789	Sample Received By:	Shalyn Rodriguez
Project Location:	PERMIAN 32.616449, -104.00027		

Sample ID: NW 2 (H256574-13)

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	10/20/2025	ND	1.85	92.5	2.00	1.08		
Toluene*	<0.050	0.050	10/20/2025	ND	1.88	93.8	2.00	0.550		
Ethylbenzene*	<0.050	0.050	10/20/2025	ND	1.86	92.8	2.00	0.185		
Total Xylenes*	<0.150	0.150	10/20/2025	ND	5.79	96.5	6.00	0.731		
Total BTEX	<0.300	0.300	10/20/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	10/20/2025	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	10/20/2025	ND	216	108	200	6.94		
DRO >C10-C28*	<10.0	10.0	10/20/2025	ND	198	99.0	200	6.64		
EXT DRO >C28-C36	<10.0	10.0	10/20/2025	ND						

Surrogate: 1-Chlorooctane 97.7 % 52.4-130

Surrogate: 1-Chlorooctadecane 87.6 % 39.9-141

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/17/2025	Sampling Date:	10/16/2025
Reported:	10/23/2025	Sampling Type:	Soil
Project Name:	CRAZY HORSE STATE COM FED	Sampling Condition:	Cool & Intact
Project Number:	22789	Sample Received By:	Shalyn Rodriguez
Project Location:	PERMIAN 32.616449, -104.00027		

Sample ID: EW 3 (H256574-14)

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	10/20/2025	ND	1.85	92.5	2.00	1.08	
Toluene*	<0.050	0.050	10/20/2025	ND	1.88	93.8	2.00	0.550	
Ethylbenzene*	<0.050	0.050	10/20/2025	ND	1.86	92.8	2.00	0.185	
Total Xylenes*	<0.150	0.150	10/20/2025	ND	5.79	96.5	6.00	0.731	
Total BTEX	<0.300	0.300	10/20/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 70.4-141

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	10/20/2025	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	10/20/2025	ND	216	108	200	6.94	
DRO >C10-C28*	317	10.0	10/20/2025	ND	198	99.0	200	6.64	
EXT DRO >C28-C36	60.0	10.0	10/20/2025	ND					

Surrogate: 1-Chlorooctane 97.3 % 52.4-130

Surrogate: 1-Chlorooctadecane 97.9 % 39.9-141

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/17/2025	Sampling Date:	10/16/2025
Reported:	10/23/2025	Sampling Type:	Soil
Project Name:	CRAZY HORSE STATE COM FED	Sampling Condition:	Cool & Intact
Project Number:	22789	Sample Received By:	Shalyn Rodriguez
Project Location:	PERMIAN 32.616449, -104.00027		

Sample ID: SW 2 (H256574-15)

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	10/20/2025	ND	1.85	92.5	2.00	1.08	
Toluene*	<0.050	0.050	10/20/2025	ND	1.88	93.8	2.00	0.550	
Ethylbenzene*	<0.050	0.050	10/20/2025	ND	1.86	92.8	2.00	0.185	
Total Xylenes*	<0.150	0.150	10/20/2025	ND	5.79	96.5	6.00	0.731	
Total BTEX	<0.300	0.300	10/20/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	10/20/2025	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	10/20/2025	ND	216	108	200	6.94	
DRO >C10-C28*	398	10.0	10/20/2025	ND	198	99.0	200	6.64	
EXT DRO >C28-C36	79.5	10.0	10/20/2025	ND					

Surrogate: 1-Chlorooctane 104 % 52.4-130

Surrogate: 1-Chlorooctadecane 108 % 39.9-141

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/17/2025	Sampling Date:	10/16/2025
Reported:	10/23/2025	Sampling Type:	Soil
Project Name:	CRAZY HORSE STATE COM FED	Sampling Condition:	Cool & Intact
Project Number:	22789	Sample Received By:	Shalyn Rodriguez
Project Location:	PERMIAN 32.616449, -104.00027		

Sample ID: SW 3 (H256574-16)

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	10/21/2025	ND	1.85	92.5	2.00	1.08		
Toluene*	<0.050	0.050	10/21/2025	ND	1.88	93.8	2.00	0.550		
Ethylbenzene*	<0.050	0.050	10/21/2025	ND	1.86	92.8	2.00	0.185		
Total Xylenes*	<0.150	0.150	10/21/2025	ND	5.79	96.5	6.00	0.731		
Total BTEX	<0.300	0.300	10/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 70.4-141

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	10/20/2025	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	10/20/2025	ND	216	108	200	6.94		
DRO >C10-C28*	<10.0	10.0	10/20/2025	ND	198	99.0	200	6.64		
EXT DRO >C28-C36	<10.0	10.0	10/20/2025	ND						

Surrogate: 1-Chlorooctane 102 % 52.4-130

Surrogate: 1-Chlorooctadecane 92.5 % 39.9-141

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/17/2025	Sampling Date:	10/16/2025
Reported:	10/23/2025	Sampling Type:	Soil
Project Name:	CRAZY HORSE STATE COM FED	Sampling Condition:	Cool & Intact
Project Number:	22789	Sample Received By:	Shalyn Rodriguez
Project Location:	PERMIAN 32.616449, -104.00027		

Sample ID: SW 4 (H256574-17)

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	10/21/2025	ND	1.85	92.5	2.00	1.08	
Toluene*	<0.050	0.050	10/21/2025	ND	1.88	93.8	2.00	0.550	
Ethylbenzene*	<0.050	0.050	10/21/2025	ND	1.86	92.8	2.00	0.185	
Total Xylenes*	<0.150	0.150	10/21/2025	ND	5.79	96.5	6.00	0.731	
Total BTEX	<0.300	0.300	10/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	10/20/2025	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	10/20/2025	ND	216	108	200	6.94	
DRO >C10-C28*	<10.0	10.0	10/20/2025	ND	198	99.0	200	6.64	
EXT DRO >C28-C36	<10.0	10.0	10/20/2025	ND					

Surrogate: 1-Chlorooctane 99.1 % 52.4-130

Surrogate: 1-Chlorooctadecane 89.4 % 39.9-141

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/17/2025	Sampling Date:	10/16/2025
Reported:	10/23/2025	Sampling Type:	Soil
Project Name:	CRAZY HORSE STATE COM FED	Sampling Condition:	Cool & Intact
Project Number:	22789	Sample Received By:	Shalyn Rodriguez
Project Location:	PERMIAN 32.616449, -104.00027		

Sample ID: WW 3 (H256574-18)

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	10/21/2025	ND	1.85	92.5	2.00	1.08	
Toluene*	<0.050	0.050	10/21/2025	ND	1.88	93.8	2.00	0.550	
Ethylbenzene*	<0.050	0.050	10/21/2025	ND	1.86	92.8	2.00	0.185	
Total Xylenes*	<0.150	0.150	10/21/2025	ND	5.79	96.5	6.00	0.731	
Total BTEX	<0.300	0.300	10/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	10/20/2025	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	10/20/2025	ND	216	108	200	6.94	
DRO >C10-C28*	<10.0	10.0	10/20/2025	ND	198	99.0	200	6.64	
EXT DRO >C28-C36	<10.0	10.0	10/20/2025	ND					

Surrogate: 1-Chlorooctane 104 % 52.4-130

Surrogate: 1-Chlorooctadecane 94.9 % 39.9-141

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/17/2025	Sampling Date:	10/16/2025
Reported:	10/23/2025	Sampling Type:	Soil
Project Name:	CRAZY HORSE STATE COM FED	Sampling Condition:	Cool & Intact
Project Number:	22789	Sample Received By:	Shalyn Rodriguez
Project Location:	PERMIAN 32.616449, -104.00027		

Sample ID: WW 4 (H256574-19)

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	10/21/2025	ND	1.85	92.5	2.00	1.08	
Toluene*	<0.050	0.050	10/21/2025	ND	1.88	93.8	2.00	0.550	
Ethylbenzene*	<0.050	0.050	10/21/2025	ND	1.86	92.8	2.00	0.185	
Total Xylenes*	<0.150	0.150	10/21/2025	ND	5.79	96.5	6.00	0.731	
Total BTEX	<0.300	0.300	10/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	10/20/2025	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	10/20/2025	ND	216	108	200	6.94	
DRO >C10-C28*	<10.0	10.0	10/20/2025	ND	198	99.0	200	6.64	
EXT DRO >C28-C36	<10.0	10.0	10/20/2025	ND					

Surrogate: 1-Chlorooctane 92.2 % 52.4-130

Surrogate: 1-Chlorooctadecane 84.0 % 39.9-141

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

- 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

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.

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

Company Name: Etech Environmental & Safety Solutions, Inc.
Project Manager: Joel Lowry
Address: 2617 West Marland
City: Hobbs State: NM Zip: 88240
Phone #: (575) 264-9884 Fax #:
Project #: 22789 Project Owner: Permian Resources Oper
Project Name: Crazy Horse State Com Fed
Project Location: 32.616449, -104.00027
Sampler Name: Martin Sepulveda

Table with columns: Lab I.D., Sample I.D., (G)RAB OR (C)OMP, # CONTAINERS, MATRIX (GROUNDWATER, WASTEWATER, SOIL, OIL, SLUDGE, OTHER), PRESERV. (ACID/BASE, ICE / COOL, OTHER), SAMPLING (DATE, TIME), and ANALYSIS REQUEST (Chloride, TPH (8015M), BTEX (8021B)).

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses.

NO labels - 8/2.01/17

Relinquished By: [Signature] Date: 10-17-25 Time: 14:3
Received By: [Signature] Verbal Result: [X] Yes [] No Add'l Phone #:
All Results are emailed. Please provide Email address: pm@etechenv.com
REMARKS:
Delivered By: (Circle One) Observed Temp. °C: 40.8 Sample Condition: Cool Intact [X] Yes [] No
Checked By: (Initials) SK Turnaround Time: Standard [] Rush [X] Bacteria (only) Sample Condition: Cool Intact [X] Yes [] No
Corrected Temp. °C: 40.5 Thermometer ID #140 Correction Factor: -0.6°C -10.3 Corrected Temp. °C



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Etech Environmental & Safety Solutions, Inc.
Project Manager: Joel Lowry
Address: 2617 West Marland
City: Hobbs State: NM Zip: 88240
Phone #: (575) 264-9884 Fax #:
Project #: 22789 Project Owner: Permian Resources Oper
Project Name: Crazy Horse State Com Fed
Project Location: 32.616449, -104.00027
Sampler Name: Martin Sepulveda
BILL TO: P.O. #: Company: Permian Resources Attn: Montgomery Floyd Address: City: State: Zip: Phone #: Fax #:
ANALYSIS REQUEST: Chloride TPH (8015M) BTEX (8021B)

PLEASE NOTE: Liability and Damages, Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: [Signature] Date: 10-17-25 Time: 1443 Received By: [Signature] Verbal Result: [X] Yes [] No Add'l Phone #: All Results are emailed. Please provide Email address: pm@etechenv.com #15-0402401K - others, NO labels
Delivered By: (Circle One) Sampler - UPS - Bus - Other: Observed Temp. °C: -0.8 Corrected Temp. °C: -0.5 Sample Condition: Cool Intact [X] Yes [] No CHECKED BY: [Signature] Turnaround Time: Standard [] Rush [X] Bacteria (only) Sample Condition: Cool Intact [X] Yes [] No Observed Temp. °C: Corrected Temp. °C:



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

October 28, 2025

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: CRAZY HORSE STATE COM FED

Enclosed are the results of analyses for samples received by the laboratory on 10/27/25 14:42.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. 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
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	10/27/2025	Sampling Date:	10/27/2025
Reported:	10/28/2025	Sampling Type:	Soil
Project Name:	CRAZY HORSE STATE COM FED	Sampling Condition:	Cool & Intact
Project Number:	22789	Sample Received By:	Alyssa Parras
Project Location:	PERMIAN 32.616449, -104.00027		

Sample ID: SW 2 (H256768-01)

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	10/27/2025	ND	2.13	107	2.00	9.03	
Toluene*	<0.050	0.050	10/27/2025	ND	2.06	103	2.00	9.17	
Ethylbenzene*	<0.050	0.050	10/27/2025	ND	2.17	109	2.00	9.75	
Total Xylenes*	<0.150	0.150	10/27/2025	ND	6.83	114	6.00	10.7	
Total BTEX	<0.300	0.300	10/27/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/28/2025	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	10/28/2025	ND	197	98.6	200	0.0563	
DRO >C10-C28*	<10.0	10.0	10/28/2025	ND	190	94.8	200	0.524	
EXT DRO >C28-C36	<10.0	10.0	10/28/2025	ND					

Surrogate: 1-Chlorooctane 92.8 % 52.4-130

Surrogate: 1-Chlorooctadecane 87.3 % 39.9-141

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/27/2025	Sampling Date:	10/27/2025
Reported:	10/28/2025	Sampling Type:	Soil
Project Name:	CRAZY HORSE STATE COM FED	Sampling Condition:	Cool & Intact
Project Number:	22789	Sample Received By:	Alyssa Parras
Project Location:	PERMIAN 32.616449, -104.00027		

Sample ID: EW 3 (H256768-02)

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	10/27/2025	ND	2.13	107	2.00	9.03	
Toluene*	<0.050	0.050	10/27/2025	ND	2.06	103	2.00	9.17	
Ethylbenzene*	<0.050	0.050	10/27/2025	ND	2.17	109	2.00	9.75	
Total Xylenes*	<0.150	0.150	10/27/2025	ND	6.83	114	6.00	10.7	
Total BTEX	<0.300	0.300	10/27/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/28/2025	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	10/28/2025	ND	197	98.6	200	0.0563	
DRO >C10-C28*	<10.0	10.0	10/28/2025	ND	190	94.8	200	0.524	
EXT DRO >C28-C36	<10.0	10.0	10/28/2025	ND					

Surrogate: 1-Chlorooctane 91.6 % 52.4-130

Surrogate: 1-Chlorooctadecane 85.8 % 39.9-141

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

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

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

Company Name: Etech Environmental & Safety Solutions, Inc.
Project Manager: Joel Lowry
Address: 2617 West Marland
City: Hobbs State: NM Zip: 88240
Phone #: (575) 264-9884 Fax #:
Project #: 22789 Project Owner: Permian Resources Oper
Project Name: Crazy Horse State Com Fed
Project Location: 32.616449, -104.00027
Sampler Name: Addison Elston
BILL TO: P.O. #: Company: Permian Resources Attn: Montgomery Floyd Address: State: Zip: Phone #: Fax #:
ANALYSIS REQUEST: Chloride, TPH (8015M), BTEX (8021B)

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service.

Relinquished By: [Signature] Date: 10/27/25 Time: 1440 Received By: [Signature] Verbal Result: [] Yes [] No Add'l Phone #: All Results are emailed. Please provide Email address: pm@etechnv.com
REMARKS: 24H Rush
Delivered By: (Circle One) Sampler - UPS - Bus - Other: Observed Temp. °C 9.6 Corrected Temp. °C -9.3 Sample Condition Cool Intact [] Yes [] No [] Yes [] No CHECKED BY: (Initials) AP Turnaround Time: Standard [] Rush [X] Bacteria (only) Sample Condition Cool Intact Observed Temp. °C [] Yes [] No [] Yes [] No Corrected Temp. °C Thermometer ID #140 Correction Factor -0.5°C to 3.0°C



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

May 29, 2024

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: LEA LAND BACKFILL

Enclosed are the results of analyses for samples received by the laboratory on 05/23/24 8:51.

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

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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	05/23/2024	Sampling Date:	05/22/2024
Reported:	05/29/2024	Sampling Type:	Soil
Project Name:	LEA LAND BACKFILL	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	32.528184, -103.785455		

Sample ID: LEA LAND BACKFILL (H242864-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/25/2024	ND	1.99	99.7	2.00	17.7	
Toluene*	<0.050	0.050	05/25/2024	ND	2.00	100	2.00	12.5	
Ethylbenzene*	<0.050	0.050	05/25/2024	ND	2.01	100	2.00	8.60	
Total Xylenes*	<0.150	0.150	05/25/2024	ND	5.95	99.2	6.00	8.44	
Total BTEX	<0.300	0.300	05/25/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/24/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/25/2024	ND	201	100	200	0.261	
DRO >C10-C28*	<10.0	10.0	05/25/2024	ND	215	107	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	05/25/2024	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 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

- QR-04 The RPD for the BS/BSD was outside of historical limits.
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

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc. Project Manager: Lance Crenshaw Address: 2617 West Marland City: Hobbs State: NM Zip: 88240 Phone #: (575) 264-9884 Fax #: Project #: Project Owner: Etech Project Name: Lea Land Backfill Project Location: 32.528184, -103.785455 Sampler Name: David Robinson		BILL TO		ANALYSIS REQUEST																		
		P.O. #: Company: Etech Attn: Lance Crenshaw Address: City: State: NM Zip: Phone #: Fax #:		Chloride	TPH (8015M)	BTEX (8021B)																
FOR LAB USE ONLY Lab I.D. H242864		Sample I.D. Lea Land Backfill					(G)RAB OR (C)OMP. C	# CONTAINERS 1	MATRIX GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER :					PRESERV. ACID/BASE: ICE / COOL OTHER :	SAMPLING DATE TIME							

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: Date: 5-23-24 Time: 0851	Received By: Date: Time:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No REMARKS: Please email results and copy of CoC to pm@etechenv.com.
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	#140 -4.8e	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
		CHECKED BY: (Initials) TO

Appendix E

NMOCD Incident Details

OCD Permitting

Home Searches Incidents Incident Details

nAPP2522340161 Crazy Horse 32 State Fed Com Battery

General Incident Information

Well:
 Facility: [\[APP2204045304\]](#) CRAZY HORSE 32 STATE FED COM BATTERY
 Operator: [\[372165\]](#) Permian Resources Operating, LLC
 Status: Active
 Stage: Initial C-141 Approved, Pending submission of Site Characterization / Remediation Plan OR Remediation Closure Report from the operator
 Type: Other **Severity:**
 Incident Location: L-32-19S-30E 0 FNL 0 FEL
 Lat/Long: 32.61634,-104.0002436 NAD83
 District: Artesia **County:** Eddy (15)
 Surface Owner: State

Severity Indicators

Resulted In Fire: **Resulted In Injury:**
 Endangered Public Health: **Will or Has Reached Watercourse:**
 Fresh Water Contamination: **Property Or Environmental Damage:**

Notes

Source of Referral: Industry Rep **Action / Escalation:**

Contact Details

Contact Name: **Contact Title:**

Event Dates

Date of Discovery: 08/11/2025 **Initial C-141 Report Due:** 8/26/2025
Remediation Closure Report Due: 11/10/2025

Quick Links

- [General Incident](#)
- [Materials](#)
- [Events](#)
- [Orders](#)
- [Action Status](#)

Associated Im

- [Facility Files \(4\)](#)
- [Incident Files \(7\)](#)

New Searches

- [New Facility Se](#)
- [New Incident S](#)
- [New Operator S](#)
- [New Pit Search](#)
- [New Well Sear](#)

Incident Dates

19.15.29 NMAC - RELEASES

Type	Action	Received	Denied	Approved
Sampling Notice	[519494]	10/23/2025		10/23/2025
Sampling Notice	[513967]	10/09/2025		10/09/2025
Sampling Notice	[513966]	10/09/2025		10/09/2025
Sampling Notice	[513965]	10/09/2025		10/09/2025
Sampling Notice	[513964]	10/09/2025		10/09/2025
Initial C-141 Report	[494285]	08/12/2025		08/12/2025
Notification	[494273]	08/11/2025		08/11/2025

19.15.30 NMAC - REMEDIATION

Type Action Received Denied Approved

Compositional Analysis of Vented and/or Flared Natural Gas

No Compositional Analysis Found

Incident Materials

Cause	Source	Material	Volume				Units
			Unk.	Released	Recovered	Lost	
Equipment Failure	Fitting	Produced Water	<input type="checkbox"/>	9	0	9	BBL
Equipment Failure	Fitting	Crude Oil	<input type="checkbox"/>	21	0	21	BBL

The concentration of dissolved chloride in the produced water >10,000 mg/l: Yes No

Incident Events

Date	Detail
10/23/2025	The (10/23/2025, C-141N) application [519494] was assigned to this incident.
10/09/2025	The (10/09/2025, C-141N) application [513967] was assigned to this incident.
10/09/2025	The (10/09/2025, C-141N) application [513966] was assigned to this incident.
10/09/2025	The (10/09/2025, C-141N) application [513965] was assigned to this incident.
10/09/2025	The (10/09/2025, C-141N) application [513964] was assigned to this incident.
08/12/2025	The (08/12/2025, C-141) application [494285] was accepted by OCD. The operator was emailed with details of this event.
08/11/2025	The (08/12/2025, C-141) application [494285] was assigned to this incident.
08/11/2025	The (08/11/2025, NOR) application [494273] was assigned to this incident.
08/11/2025	Release discovered by the operator.
08/11/2025	New incident created by the operator, upon the submission of notification of release.

Incident Severity

Major release as defined by 19.15.29.7(A) NMAC? Yes No

From paragraph A. "Major release" determine using:
(1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.

Incident Corrective Actions

Initial Response

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

If all the actions described above have not been undertaken, explain why:

No site characterization data was found for this incident.

Remediation Plan

Have the lateral and vertical extents of contamination been fully delineated?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
On what estimated date will the remediation commence?	
On what date will (or did) the final sampling occur?	
On what date will (or was) the remediation complete(d)	

Release is indicated as not yet fully delineated. Any Deferral Requests received may not be granted for this incident.

No remediation closure report data was found for this incident.

No reclamation report data was found for this incident.

No re-vegetation report data was found for this incident.

Orders

No Orders Found

Appendix F

Regulatory Correspondence

OCD Permitting

Home Operator Data Action Status Action Search Results Action Status Item Details

[NOTIFY] Notification Of Sampling (C-141N) Application

Submission Information

Submission ID:	513964	Districts:	Artesia
Operator:	[372165] Permian Resources Operating, LLC	Counties:	Eddy
Description:	Permian Resources Operating, LLC [372165] , Crazy Horse 32 State Fed Com Battery , nAPP2522340161		
Status:	Approved		
Status Date:	10/09/2025		
References (0):			

Forms

This application type does not have attachments.

Questions

Prerequisites

Incident ID (n#)	nAPP2522340161
Incident Name	NAPP2522340161 CRAZY HORSE 32 STATE FED COM BATTERY @ 0
Incident Type	Other
Incident Status	Initial C-141 Approved
Incident Facility	[fAPP2204045304] CRAZY HORSE 32 STATE FED COM BATTERY

Location of Release Source

Site Name	Crazy Horse 32 State Fed Com Battery
Date Release Discovered	08/11/2025
Surface Owner	State

Sampling Event General Information

Please answer all the questions in this group.

What is the sampling surface area in square feet	7,300
What is the estimated number of samples that will be gathered	50
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/14/2025
Time sampling will commence	08:00 AM

Warning: Notification can not be less than two business days prior to conducting final sampling.

Please provide any information necessary for observers to contact samplers	Zach Conder (806) 724-5943
Please provide any information necessary for navigation to sampling site	Driving Directions: From the intersection of NM-360 and Co Rd 235 (32.599788, -103.967825), head W on Co mi, then S for 0.69 mi, then SE for 0.08 mi, then E for 0.02 mi to arrive at the Crazy Horse 32 State Fed Com E

[Searches](#)

[Operator Data](#)

[Hearing Fee Application](#)

This submission type does not have acknowledgments, at this time.

Comments

No comments found for this submission.

Conditions

Summary:

mtaylorpr (10/9/2025), 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.

mtaylorpr (10/9/2025), If confirmation sampling is going to take place over multiple days, individual C-141N applications must be submitted for each sampling date. Date ranges are not currently accepted on the C-141N application.

Reasons

No reasons found for this submission.

[Go Back](#)

OCD Permitting

Home Operator Data Action Status Action Search Results Action Status Item Details

[NOTIFY] Notification Of Sampling (C-141N) Application

Submission Information

Submission ID:	513965	Districts:	Artesia
Operator:	[372165] Permian Resources Operating, LLC	Counties:	Eddy
Description:	Permian Resources Operating, LLC [372165] , Crazy Horse 32 State Fed Com Battery , nAPP2522340161		
Status:	Approved		
Status Date:	10/09/2025		
References (0):			

Forms

This application type does not have attachments.

Questions

Prerequisites

Incident ID (n#)	nAPP2522340161
Incident Name	NAPP2522340161 CRAZY HORSE 32 STATE FED COM BATTERY @ 0
Incident Type	Other
Incident Status	Initial C-141 Approved
Incident Facility	[fAPP2204045304] CRAZY HORSE 32 STATE FED COM BATTERY

Location of Release Source

Site Name	Crazy Horse 32 State Fed Com Battery
Date Release Discovered	08/11/2025
Surface Owner	State

Sampling Event General Information

Please answer all the questions in this group.

What is the sampling surface area in square feet	7,300
What is the estimated number of samples that will be gathered	50
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/15/2025
Time sampling will commence	08:00 AM

Warning: Notification can not be less than two business days prior to conducting final sampling.

Please provide any information necessary for observers to contact samplers	Zach Conder 806-724-5943
Please provide any information necessary for navigation to sampling site	Driving Directions: From the intersection of NM-360 and Co Rd 235 (32.599788, -103.967825), head W on Co mi, then S for 0.69 mi, then SE for 0.08 mi, then E for 0.02 mi to arrive at the Crazy Horse 32 State Fed Com E

[Searches](#)

[Operator Data](#)

[Hearing Fee Application](#)

This submission type does not have acknowledgments, at this time.

Comments

No comments found for this submission.

Conditions

Summary:

mtaylorpr (10/9/2025), 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.

mtaylorpr (10/9/2025), If confirmation sampling is going to take place over multiple days, individual C-141N applications must be submitted for each sampling date. Date ranges are not currently accepted on the C-141N application.

Reasons

No reasons found for this submission.

[Go Back](#)

OCD Permitting

Home Operator Data Action Status Action Search Results Action Status Item Details

[NOTIFY] Notification Of Sampling (C-141N) Application

Submission Information

Submission ID:	513966	Districts:	Artesia
Operator:	[372165] Permian Resources Operating, LLC	Counties:	Eddy
Description:	Permian Resources Operating, LLC [372165] , Crazy Horse 32 State Fed Com Battery , nAPP2522340161		
Status:	Approved		
Status Date:	10/09/2025		
References (0):			

Forms

This application type does not have attachments.

Questions

Prerequisites

Incident ID (n#)	nAPP2522340161
Incident Name	NAPP2522340161 CRAZY HORSE 32 STATE FED COM BATTERY @ 0
Incident Type	Other
Incident Status	Initial C-141 Approved
Incident Facility	[fAPP2204045304] CRAZY HORSE 32 STATE FED COM BATTERY

Location of Release Source

Site Name	Crazy Horse 32 State Fed Com Battery
Date Release Discovered	08/11/2025
Surface Owner	State

Sampling Event General Information

Please answer all the questions in this group.

What is the sampling surface area in square feet	7,300
What is the estimated number of samples that will be gathered	50
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/16/2025
Time sampling will commence	08:00 AM

Warning: Notification can not be less than two business days prior to conducting final sampling.

Please provide any information necessary for observers to contact samplers	Zach Conder 806-724-5943
Please provide any information necessary for navigation to sampling site	Driving Directions: From the intersection of NM-360 and Co Rd 235 (32.599788, -103.967825), head W on Co mi, then S for 0.69 mi, then SE for 0.08 mi, then E for 0.02 mi to arrive at the Crazy Horse 32 State Fed Com E

[Searches](#)

[Operator Data](#)

[Hearing Fee Application](#)

This submission type does not have acknowledgments, at this time.

Comments

No comments found for this submission.

Conditions

Summary:

mtaylorpr (10/9/2025), 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.

mtaylorpr (10/9/2025), If confirmation sampling is going to take place over multiple days, individual C-141N applications must be submitted for each sampling date. Date ranges are not currently accepted on the C-141N application.

Reasons

No reasons found for this submission.

[Go Back](#)

OCD Permitting

Home Operator Data Action Status Action Search Results Action Status Item Details

[NOTIFY] Notification Of Sampling (C-141N) Application

Submission Information

Submission ID:	513967	Districts:	Artesia
Operator:	[372165] Permian Resources Operating, LLC	Counties:	Eddy
Description:	Permian Resources Operating, LLC [372165] , Crazy Horse 32 State Fed Com Battery , nAPP2522340161		
Status:	Approved		
Status Date:	10/09/2025		
References (0):			

Forms

This application type does not have attachments.

Questions

Prerequisites

Incident ID (n#)	nAPP2522340161
Incident Name	NAPP2522340161 CRAZY HORSE 32 STATE FED COM BATTERY @ 0
Incident Type	Other
Incident Status	Initial C-141 Approved
Incident Facility	[fAPP2204045304] CRAZY HORSE 32 STATE FED COM BATTERY

Location of Release Source

Site Name	Crazy Horse 32 State Fed Com Battery
Date Release Discovered	08/11/2025
Surface Owner	State

Sampling Event General Information

Please answer all the questions in this group.

What is the sampling surface area in square feet	7,300
What is the estimated number of samples that will be gathered	50
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/17/2025
Time sampling will commence	08:00 AM

Warning: Notification can not be less than two business days prior to conducting final sampling.

Please provide any information necessary for observers to contact samplers	Zach Conder 806-724-5943
Please provide any information necessary for navigation to sampling site	Driving Directions: From the intersection of NM-360 and Co Rd 235 (32.599788, -103.967825), head W on Co mi, then S for 0.69 mi, then SE for 0.08 mi, then E for 0.02 mi to arrive at the Crazy Horse 32 State Fed Com E

[Searches](#)

[Operator Data](#)

[Hearing Fee Application](#)

This submission type does not have acknowledgments, at this time.

Comments

No comments found for this submission.

Conditions

Summary:

mtaylorpr (10/9/2025), 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.

mtaylorpr (10/9/2025), If confirmation sampling is going to take place over multiple days, individual C-141N applications must be submitted for each sampling date. Date ranges are not currently accepted on the C-141N application.

Reasons

No reasons found for this submission.

[Go Back](#)

OCD Permitting

Home Operator Data Action Status Action Search Results Action Status Item Details

[NOTIFY] Notification Of Sampling (C-141N) Application

Submission Information

Submission ID:	519494	Districts:	Artesia
Operator:	[372165] Permian Resources Operating, LLC	Counties:	Eddy
Description:	Permian Resources Operating, LLC [372165] , Crazy Horse 32 State Fed Com Battery , nAPP2522340161		
Status:	Approved		
Status Date:	10/23/2025		
References (0):			

Forms

This application type does not have attachments.

Questions

Prerequisites

Incident ID (n#)	nAPP2522340161
Incident Name	NAPP2522340161 CRAZY HORSE 32 STATE FED COM BATTERY @ 0
Incident Type	Other
Incident Status	Initial C-141 Approved
Incident Facility	[fAPP2204045304] CRAZY HORSE 32 STATE FED COM BATTERY

Location of Release Source

Site Name	Crazy Horse 32 State Fed Com Battery
Date Release Discovered	08/11/2025
Surface Owner	State

Sampling Event General Information

Please answer all the questions in this group.

What is the sampling surface area in square feet	400
What is the estimated number of samples that will be gathered	2
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/27/2025
Time sampling will commence	08:00 AM

Warning: Notification can not be less than two business days prior to conducting final sampling.

Please provide any information necessary for observers to contact samplers	Addison Elston 432.236.1152
Please provide any information necessary for navigation to sampling site	32.61634,-104.0002436

[Searches](#)

[Operator Data](#)

[Hearing Fee Application](#)

Comments

No comments found for this submission.

Conditions

Summary:

mtaylorpr (10/23/2025), 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.

mtaylorpr (10/23/2025), If confirmation sampling is going to take place over multiple days, individual C-141N applications must be submitted for each sampling date. Date ranges are not currently accepted on the C-141N application.

Reasons

No reasons found for this submission.

[Go Back](#)

Appendix G

Sensitive Species and Habitat Details

IPaC

U.S. Fish & Wildlife Service

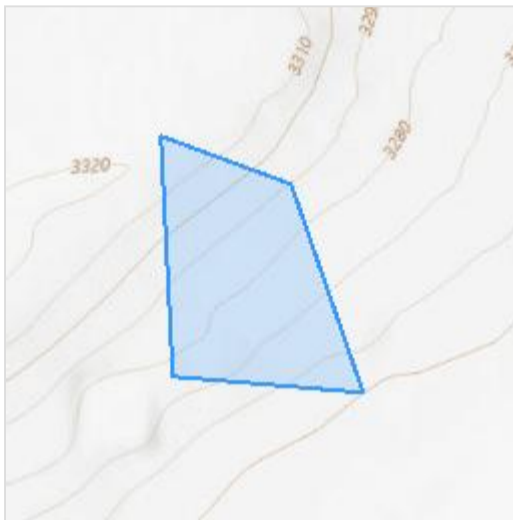
IPaC resource list

This report is an automatically generated list of species and other resources such as critical habitat (collectively referred to as *trust resources*) under the U.S. Fish and Wildlife Service's (USFWS) jurisdiction that are known or expected to be on or near the project area referenced below. The list may also include trust resources that occur outside of the project area, but that could potentially be directly or indirectly affected by activities in the project area. However, determining the likelihood and extent of effects a project may have on trust resources typically requires gathering additional site-specific (e.g., vegetation/species surveys) and project-specific (e.g., magnitude and timing of proposed activities) information.

Below is a summary of the project information you provided and contact information for the USFWS office(s) with jurisdiction in the defined project area. Please read the introduction to each section that follows (Endangered Species, Migratory Birds, USFWS Facilities, and NWI Wetlands) for additional information applicable to the trust resources addressed in that section.

Location

Eddy County, New Mexico



Local office

New Mexico Ecological Services Field Office

☎ (505) 346-2525

📠 (505) 346-2542

2105 Osuna Road Ne
Albuquerque, NM 87113-1001

Endangered species

This resource list is for informational purposes only and does not constitute an analysis of project level impacts.

The primary information used to generate this list is the known or expected range of each species. Additional areas of influence (AOI) for species are also considered. An AOI includes areas outside of the species range if the species could be indirectly affected by activities in that area (e.g., placing a dam upstream of a fish population even if that fish does not occur at the dam site, may indirectly impact the species by reducing or eliminating water flow downstream). Because species can move, and site conditions can change, the species on this list are not guaranteed to be found on or near the project area. To fully determine any potential effects to species, additional site-specific and project-specific information is often required.

Section 7 of the Endangered Species Act **requires** Federal agencies to "request of the Secretary information whether any species which is listed or proposed to be listed may be present in the area of such proposed action" for any project that is conducted, permitted, funded, or licensed by any Federal agency. A letter from the local office and a species list which fulfills this requirement can **only** be obtained by requesting an official species list from either the Regulatory Review section in IPaC (see directions below) or from the local field office directly.

For project evaluations that require USFWS concurrence/review, please return to the IPaC website and request an official species list by doing the following:

1. Draw the project location and click CONTINUE.
2. Click DEFINE PROJECT.
3. Log in (if directed to do so).
4. Provide a name and description for your project.
5. Click REQUEST SPECIES LIST.

Listed species¹ and their critical habitats are managed by the [Ecological Services Program](#) of the U.S. Fish and Wildlife Service (USFWS) and the fisheries division of the National Oceanic and Atmospheric Administration (NOAA Fisheries²).

Species and critical habitats under the sole responsibility of NOAA Fisheries are **not** shown on this list. Please contact [NOAA Fisheries](#) for [species under their jurisdiction](#).

1. Species listed under the [Endangered Species Act](#) are threatened or endangered; IPaC also shows species that are candidates, or proposed, for listing. See the [listing status page](#) for more information. IPaC only shows species that are regulated by USFWS (see FAQ).
2. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

The following species are potentially affected by activities in this location:

Birds

NAME	STATUS
Northern Aplomado Falcon <i>Falco femoralis septentrionalis</i> No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/1923	EXPN
Piping Plover <i>Charadrius melodus</i> There is final critical habitat for this species. Your location does not overlap the critical habitat. https://ecos.fws.gov/ecp/species/6039	Threatened

Clams

NAME	STATUS
Texas Hornshell <i>Popenaias popeii</i> Wherever found There is proposed critical habitat for this species. Your location does not overlap the critical habitat. https://ecos.fws.gov/ecp/species/919	Endangered

Insects

NAME	STATUS
Monarch Butterfly <i>Danaus plexippus</i> Wherever found There is proposed critical habitat for this species. Your location does not overlap the critical habitat. https://ecos.fws.gov/ecp/species/9743	Proposed Threatened

Critical habitats

Potential effects to critical habitat(s) in this location must be analyzed along with the endangered species themselves.

There are no critical habitats at this location.

You are still required to determine if your project(s) may have effects on all above listed species.

Bald & Golden Eagles

Bald and Golden Eagles are protected under the Bald and Golden Eagle Protection Act ² and the Migratory Bird Treaty Act (MBTA) ¹. Any person or organization who plans or conducts activities that may result in impacts to Bald or Golden Eagles, or their nests, should follow appropriate regulations and implement required avoidance and minimization measures, as described in the various links on this page.

The [data](#) in this location indicates that no eagles have been observed in this area. This does not mean eagles are not present in your project area, especially if the area is difficult to survey. Please review the 'Steps to Take When No Results Are Returned' section of the [Supplemental Information on Migratory Birds and Eagles document](#) to determine if your project is in a poorly surveyed area. If it is, you may need to rely on other resources to determine if eagles may be present (e.g. your local FWS field office, state surveys, your own surveys).

Additional information can be found using the following links:

- Eagle Management <https://www.fws.gov/program/eagle-management>
- Measures for avoiding and minimizing impacts to birds <https://www.fws.gov/library/collections/avoiding-and-minimizing-incident-take-migratory-birds>
- Nationwide avoidance and minimization measures for birds <https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf>
- Supplemental Information for Migratory Birds and Eagles in IPaC <https://www.fws.gov/media/supplemental-information-migratory-birds-and-bald-and-golden-eagles-may-occur-project-action>

Bald & Golden Eagles FAQs

What does IPaC use to generate the potential presence of bald and golden eagles in my specified location?

The potential for eagle presence is derived from data provided by the [Avian Knowledge Network \(AKN\)](#). The AKN data is based on a growing collection of [survey, banding, and citizen science datasets](#) and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are an eagle ([Bald and Golden Eagle Protection Act](#) requirements may apply).

Proper interpretation and use of your eagle report

On the graphs provided, please look carefully at the survey effort (indicated by the black vertical line) and for the existence of the "no data" indicator (a red horizontal line). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort line or no data line (red horizontal) means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list and associated information help you know what to look for to confirm presence and helps guide you in knowing when to implement avoidance and minimization measures to eliminate or reduce potential impacts from your project activities or get the appropriate permits should presence be confirmed.

How do I know if eagles are breeding, wintering, or migrating in my area?

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating, or resident), you may query your location using the [RAIL Tool](#) and view the range maps provided for birds in your area at the bottom of the profiles provided for each bird in your results. If an eagle on your IPaC migratory bird species list has a breeding season associated with it (indicated by yellow vertical bars on the phenology graph in your "IPaC PROBABILITY OF PRESENCE SUMMARY" at the top of your results list), there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

Interpreting the Probability of Presence Graphs

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. A taller bar indicates a higher probability of species presence. The survey effort can be used to establish a level of confidence in the presence score.

How is the probability of presence score calculated? The calculation is done in three steps:

The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.

To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is $0.25/0.25 = 1$; at week 20 it is $0.05/0.25 = 0.2$.

The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

Breeding Season ()

Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

Survey Effort ()

Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps.

No Data ()

A week is marked as having no data if there were no survey events for that week.

Survey Timeframe

Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.

Migratory birds

The Migratory Bird Treaty Act (MBTA) ¹ prohibits the take (including killing, capturing, selling, trading, and transport) of protected migratory bird species without prior authorization by the Department of Interior U.S. Fish and Wildlife Service (Service).

1. The [Migratory Birds Treaty Act](#) of 1918.
2. The [Bald and Golden Eagle Protection Act](#) of 1940.

Additional information can be found using the following links:

- Eagle Management <https://www.fws.gov/program/eagle-management>
- Measures for avoiding and minimizing impacts to birds <https://www.fws.gov/library/collections/avoiding-and-minimizing-incident-take-migratory-birds>
- Nationwide avoidance and minimization measures for birds
- Supplemental Information for Migratory Birds and Eagles in IPaC <https://www.fws.gov/media/supplemental-information-migratory-birds-and-bald-and-golden-eagles-may-occur-project-action>

Measures for Proactively Minimizing Migratory Bird Impacts

Your IPaC Migratory Bird list showcases [birds of concern](#), including [Birds of Conservation Concern \(BCC\)](#), in your project location. This is not a comprehensive list of all birds found in your project area. However, you can help proactively minimize significant impacts to all birds at your project location by implementing the measures in the [Nationwide avoidance and minimization measures for birds](#) document, and any other project-specific avoidance and minimization measures suggested at the link [Measures for avoiding and minimizing impacts to birds](#) for the birds of concern on your list below.

Ensure Your Migratory Bird List is Accurate and Complete

If your project area is in a poorly surveyed area, your list may not be complete and you may need to rely on other resources to determine what species may be present (e.g. your local FWS field office, state surveys, your own surveys). Please review the [Supplemental Information on Migratory Birds and Eagles document](#), to help you properly interpret the report for your specified location, including determining if there is sufficient data to ensure your list is accurate.

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, see the "Probability of Presence Summary" below to see when these birds are most likely to be present and breeding in your project area.

Review the FAQs

The FAQs below provide important additional information and resources.

NAME	BREEDING SEASON
Cactus Wren <i>Campylorhynchus brunneicapillus guttatus</i> This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA https://ecos.fws.gov/ecp/species/8834	Breeds Mar 5 to Sep 30
Cassin's Sparrow <i>Peucaea cassinii</i> This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA https://ecos.fws.gov/ecp/species/9512	Breeds Aug 1 to Oct 10
Henry's Common Nighthawk <i>Chordeiles minor henryi</i> This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA	Breeds May 21 to Aug 25
Long-billed Curlew <i>Numenius americanus</i> This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA https://ecos.fws.gov/ecp/species/5511	Breeds elsewhere

Probability of Presence Summary

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read ["Supplemental Information on Migratory Birds and Eagles"](#), specifically the FAQ section titled "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

Probability of Presence (■)

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. (A year is represented as 12 4-week months.) A taller bar indicates a higher probability of species presence. The survey effort (see below) can be used to establish a level of confidence in the presence score. One can have higher confidence in the presence score if the corresponding survey effort is also high.

How is the probability of presence score calculated? The calculation is done in three steps:

1. The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.
2. To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is $0.25/0.25 = 1$; at week 20 it is $0.05/0.25 = 0.2$.
3. The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

To see a bar's probability of presence score, simply hover your mouse cursor over the bar.

Breeding Season (■)

Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

Survey Effort (|)

Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps. The number of surveys is expressed as a range, for example, 33 to 64 surveys.

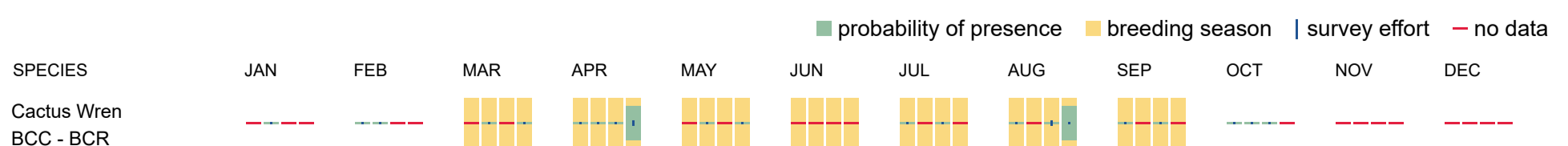
To see a bar's survey effort range, simply hover your mouse cursor over the bar.

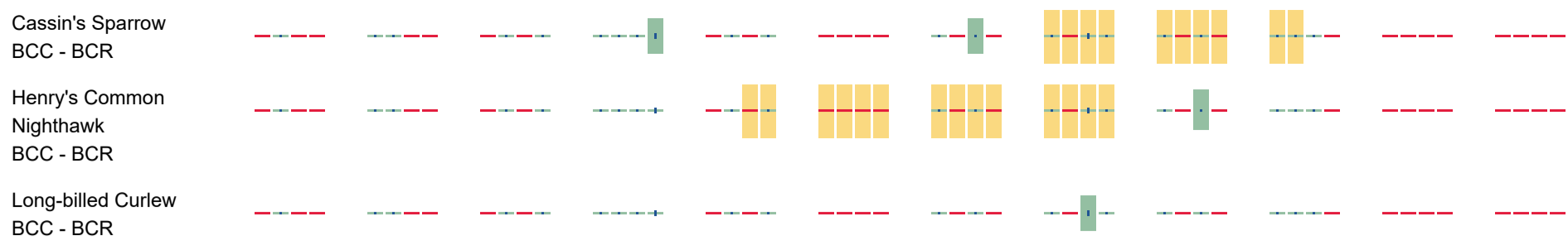
No Data (-)

A week is marked as having no data if there were no survey events for that week.

Survey Timeframe

Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.





Migratory Bird FAQs

Tell me more about avoidance and minimization measures I can implement to avoid or minimize impacts to migratory birds.

[Nationwide Avoidance & Minimization Measures for Birds](#) describes measures that can help avoid and minimize impacts to all birds at any location year-round. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is one of the most effective ways to minimize impacts. To see when birds are most likely to occur and breed in your project area, view the Probability of Presence Summary. [Additional measures](#) or [permits](#) may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

What does IPaC use to generate the list of migratory birds that potentially occur in my specified location?

The Migratory Bird Resource List is comprised of [Birds of Conservation Concern \(BCC\)](#) and other species that may warrant special attention in your project location, such as those listed under the Endangered Species Act or the [Bald and Golden Eagle Protection Act](#) and those species marked as "Vulnerable". See the FAQ "What are the levels of concern for migratory birds?" for more information on the levels of concern covered in the IPaC migratory bird species list.

The migratory bird list generated for your project is derived from data provided by the [Avian Knowledge Network \(AKN\)](#). The AKN data is based on a growing collection of [survey, banding, and citizen science datasets](#) and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) with which your project intersects. These species have been identified as warranting special attention because they are BCC species in that area, an eagle ([Bald and Golden Eagle Protection Act](#) requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, and to verify survey effort when no results present, please visit the [Rapid Avian Information Locator \(RAIL\) Tool](#).

Why are subspecies showing up on my list?

Subspecies profiles are included on the list of species present in your project area because observations in the AKN for **the species** are being detected. If the species are present, that means that the subspecies may also be present. If a subspecies shows up on your list, you may need to rely on other resources to determine if that subspecies may be present (e.g. your local FWS field office, state surveys, your own surveys).

What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?

The probability of presence graphs associated with your migratory bird list are based on data provided by the [Avian Knowledge Network \(AKN\)](#). This data is derived from a growing collection of [survey, banding, and citizen science datasets](#).

Probability of presence data is continuously being updated as new and better information becomes available. To learn more about how the probability of presence graphs are produced and how to interpret them, go to the Probability of Presence Summary and then click on the "Tell me about these graphs" link.

How do I know if a bird is breeding, wintering, or migrating in my area?

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating, or resident), you may query your location using the [RAIL Tool](#) and view the range maps provided for birds in your area at the bottom of the profiles provided for each bird in your results. If a bird on your IPaC migratory bird species list has a breeding season associated with it (indicated by yellow vertical bars on the phenology graph in your "IPaC PROBABILITY OF PRESENCE SUMMARY" at the top of your results list), there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

What are the levels of concern for migratory birds?

Migratory birds delivered through IPaC fall into the following distinct categories of concern:

1. "BCC Rangewide" birds are [Birds of Conservation Concern \(BCC\)](#) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);
2. "BCC - BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and
3. "Non-BCC - Vulnerable" birds are not BCC species in your project area, but appear on your list either because of the [Bald and Golden Eagle Protection Act](#) requirements (for eagles) or (for non-eagles) potential susceptibilities in offshore areas from certain types of development or activities (e.g. offshore energy development or longline fishing).

Although it is important to avoid and minimize impacts to all birds, efforts should be made, in particular, to avoid and minimize impacts to the birds on this list, especially BCC species. For more information on avoidance and minimization measures you can implement to help avoid and minimize migratory bird impacts, please see the FAQ "Tell me more about avoidance and minimization measures I can implement to avoid or minimize impacts to migratory birds".

Details about birds that are potentially affected by offshore projects

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the [Northeast Ocean Data Portal](#). The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the [NOAA NCCOS Integrative](#)

[Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf](#) project webpage.

Proper interpretation and use of your migratory bird report

The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please look carefully at the survey effort (indicated by the black vertical line) and for the existence of the "no data" indicator (a red horizontal line). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list does not represent all birds present in your project area. It is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list and associated information help you know what to look for to confirm presence and helps guide implementation of avoidance and minimization measures to eliminate or reduce potential impacts from your project activities, should presence be confirmed. To learn more about avoidance and minimization measures, visit the FAQ "Tell me about avoidance and minimization measures I can implement to avoid or minimize impacts to migratory birds".

Interpreting the Probability of Presence Graphs

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. A taller bar indicates a higher probability of species presence. The survey effort can be used to establish a level of confidence in the presence score.

How is the probability of presence score calculated? The calculation is done in three steps:

The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.

To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is $0.25/0.25 = 1$; at week 20 it is $0.05/0.25 = 0.2$.

The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

Breeding Season ()

Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

Survey Effort ()

Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps.

No Data ()

A week is marked as having no data if there were no survey events for that week.

Survey Timeframe

Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.

Facilities

National Wildlife Refuge lands

Any activity proposed on lands managed by the [National Wildlife Refuge](#) system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

There are no refuge lands at this location.

Fish hatcheries

There are no fish hatcheries at this location.

Wetlands in the National Wetlands Inventory (NWI)

Impacts to [NWI wetlands](#) and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local [U.S. Army Corps of Engineers District](#).

Wetland information is not available at this time

This can happen when the National Wetlands Inventory (NWI) map service is unavailable, or for very large projects that intersect many wetland areas. Try again, or visit the [NWI map](#) to view wetlands at this location.

Data limitations

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

Data exclusions

Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tubercid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

Data precautions


Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate Federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.


NOT FOR CONSULTATION

Crazy Horse State Com Fed



2/27/2026, 2:15:05 PM

 ArcGIS World Geocoding Service
 Potential Habitat (Planning Area Only)

 Scheer's beehive cactus

World Imagery

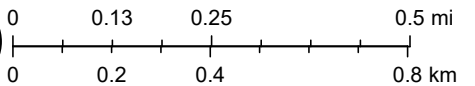
Low Resolution 15m Imagery

High Resolution 60cm Imagery

High Resolution 30cm Imagery

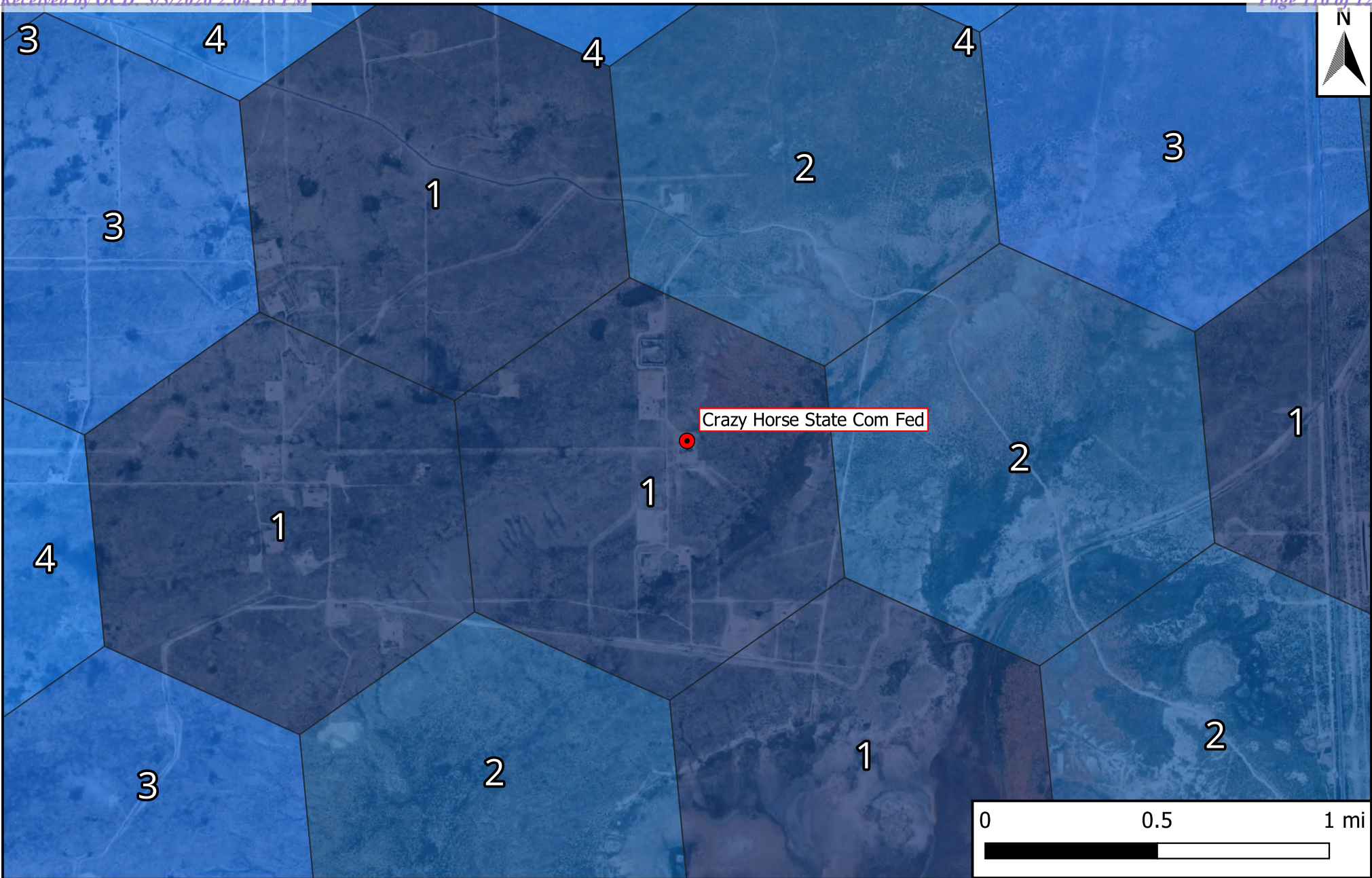
Citations

4.8m Resolution Metadata



1:18,176

Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, (c) OpenStreetMap contributors, and the GIS User Community, Bureau of Land Management - New Mexico State Office, Vantor



- Legend
- Site Location
 - CHAT Priority Level
 - 1
 - 2
 - 3
 - 4
 - 5
 - 6

New Mexico Crucial Habitat Assessment Tool (CHAT)
 Permian Resources Operating, LLC
 Crazy Horse State Com Fed
 GPS: 32.616449, -104.00027
 Eddy County, New Mexico



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

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS

Action 559135

QUESTIONS

Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372165
	Action Number: 559135
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2522340161
Incident Name	NAPP2522340161 CRAZY HORSE 32 STATE FED COM BATTERY @ FAPP2204045304
Incident Type	Other
Incident Status	Remediation Closure Report Received
Incident Facility	[fAPP2204045304] CRAZY HORSE 32 STATE FED COM BATTERY

Location of Release Source	
<i>Please answer all the questions in this group.</i>	
Site Name	Crazy Horse 32 State Fed Com Battery
Date Release Discovered	08/11/2025
Surface Owner	State

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

Nature and Volume of Release	
<i>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.</i>	
Crude Oil Released (bbls) Details	Cause: Equipment Failure Fitting Crude Oil Released: 21 BBL Recovered: 0 BBL Lost: 21 BBL.
Produced Water Released (bbls) Details	Cause: Equipment Failure Fitting Produced Water Released: 9 BBL Recovered: 0 BBL Lost: 9 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.

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

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS, Page 2

Action 559135

QUESTIONS (continued)

Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372165
	Action Number: 559135
	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: 03/03/2026
--	--

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

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS, Page 3

Action 559135

QUESTIONS (continued)

Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372165
	Action Number: 559135
	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	Estimate or Other
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 ½ and 1 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1000 (ft.) and ½ (mi.)
An occupied permanent residence, school, hospital, institution, or church	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 ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1000 (ft.) and ½ (mi.)
A subsurface mine	Between 1000 (ft.) and ½ (mi.)
An (non-karst) unstable area	Zero feet, overlying, or within area
Categorize the risk of this well / site being in a karst geology	High
A 100-year floodplain	Between ½ and 1 (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
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

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

Chloride (EPA 300.0 or SM4500 Cl B)	352
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	478
GRO+DRO (EPA SW-846 Method 8015M)	398
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	10/13/2025
On what date will (or did) the final sampling or liner inspection occur	10/27/2025
On what date will (or was) the remediation complete(d)	10/27/2025
What is the estimated surface area (in square feet) that will be reclaimed	5300
What is the estimated volume (in cubic yards) that will be reclaimed	616
What is the estimated surface area (in square feet) that will be remediated	5300
What is the estimated volume (in cubic yards) that will be remediated	616

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.

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

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS, Page 4

Action 559135

QUESTIONS (continued)

Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372165
	Action Number: 559135
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)

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

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

(Select all answers below that apply.)

(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	fEEM0112342028 LEA LAND LANDFILL
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.

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

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

I hereby agree and sign off to the above statement	Name: Matthew Taylor Title: Environmental Coordinator Email: matthew.taylor@permianres.com Date: 03/03/2026
--	---

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.

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

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS, Page 5

Action 559135

QUESTIONS (continued)

Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372165
	Action Number: 559135
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Deferral Requests Only	
<i>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.</i>	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS, Page 6

Action 559135

QUESTIONS (continued)

Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372165
	Action Number: 559135
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	519494
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/27/2025
What was the (estimated) number of samples that were to be gathered	2
What was the sampling surface area in square feet	400

Remediation Closure Request	
<i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	5300
What was the total volume (cubic yards) remediated	616
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	5300
What was the total volume (in cubic yards) reclaimed	616
Summarize any additional remediation activities not included by answers (above)	Remediation activities have been completed at the site.

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: 03/03/2026
--	--

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

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS, Page 7

Action 559135

QUESTIONS (continued)

Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372165
	Action Number: 559135
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
<i>Only answer the questions in this group if all reclamation steps have been completed.</i>	
Requesting a reclamation approval with this submission	No

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

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

CONDITIONS

Action 559135

CONDITIONS

Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372165
	Action Number: 559135
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	This Remediation Closure Report is approved. Areas reasonably needed for production or subsequent drilling operations will need to be reclaimed and revegetated as soon as they are no longer reasonably needed. A report for reclamation and revegetation will need to be submitted and approved prior to this incident receiving the final status of "Restoration Complete".	4/2/2026