

Incident ID	nAPP2325659451
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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?	<u>55</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.


Characterization Report Checklist: *Each of the following items must be included in the report.*

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☒ Boring or excavation logs
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

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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.

Printed Name: Connor Walker Title: Sr. Engineer
Signature:  Date: 10/13/2023
email: cwalker@mewbourne.com Telephone: (806)202-5281

OCD Only

Received by: Shelly Wells Date: 10/13/2023

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Closure

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 (electronic submittals in .pdf format are preferred) 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.

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

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.

Printed Name: Connor Walker

Title: Sr. Engineer

Signature: _____



Date: 10/13/2023

email: cwalker@mewbourne.com

Telephone: (806)202-5281

OCD Only

Received by: Shelly Wells

Date: 10/13/2023

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____



Remediation Summary & Soil Closure Request

Mewbourne Oil Company Delaware Ranch 13 EH Fed Com #1H

Eddy County, New Mexico
Unit Letter "E", Section 13, Township 26 South, Range 28 East
Latitude 32.043574° North, Longitude 104.048468° West
NMOCD Reference No. nAPP2325659451

Prepared By:

Etech Environmental & Safety Solutions, Inc.
6309 Indiana Ave, Ste. D
Lubbock, Texas 79413


Ben J. Arguijo
Lance Crenshaw

Midland • San Antonio • Lubbock • Hobbs • Lafayette

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1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Mewbourne Oil Company, has prepared this *Remediation Summary & Soil Closure Request* for the release site known as the Delaware Ranch 13 EH Fed Com #1H (henceforth, "Delaware Ranch"). Details of the release are summarized below:

Location of Release Source

Latitude: 32.043574° Longitude: -104.048468°

Provided GPS are in WGS84 format.

Site Name: Delaware Ranch 13 EH Fed Com #1H	Site Type: Pipeline
Date Release Discovered: 8/29/2023	API # (if applicable): N/A

Unit Letter	Section	Township	Range	County
"E"	13	26S	28E	Eddy

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (Name McDonald, Henry E.)

Nature and Volume of Release

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 37	Volume Recovered (bbls) 10
	Is the concentration of total dissolved solids (TDS) 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:

A haul truck, hauling for a separate operator, scraped a 4" poly line and created a hole in the line.

Initial Response

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

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

2.0 SITE CHARACTERIZATION

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

What is the shallowest depth to groundwater beneath the area affected by the release?	55'	
Did the release impact groundwater or surface water?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
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Did the release impact areas not on an exploration, development, production or storage site?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

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

3.0 CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE

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

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

* Measured in milligrams per kilogram (mg/kg)

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

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

4.0 REMEDIATION ACTIVITIES SUMMARY

On September 25, 2023, remediation activities commenced at the Delaware Ranch release 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/or a chloride test kit were utilized to field-screen the horizontal and vertical extent of impacted soil and to guide the excavation. The sidewalls and floors of the excavation were advanced until field tests and field observations suggested BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standards. Representative five-point composite confirmation soil samples were collected every 200 square feet from the sidewalls and floor of the excavated area to be submitted for laboratory analysis.

On September 26, 2023, Etech collected 24 confirmation soil samples (NW1, EW1, EW2, EW3, SW1, SW2, WW1, WW2, WW3, and FL 1 @ 2 through FL 15 @ 1) from the sidewalls and floor of the excavated area. The soil samples were submitted to a certified, commercial laboratory (henceforth, "the laboratory") for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also less than the applicable laboratory method detection limit (MDL). Chloride concentrations ranged from less than the laboratory MDL in soil samples FL 2 @ 2 and FL 3 @ 2 to 240 mg/kg in soil sample FL 13 @ 1.

On September 28, 2023, Etech collected 20 confirmation soil samples (FL 16 @ 1 1/2 through FL 35 @ 1) from the floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also less than the applicable laboratory MDL. Chloride concentrations ranged from 32.0 mg/kg in soil sample FL 21 @ 1 1/2 to 336 mg/kg in soil sample FL 30 @ 1.

The final dimensions of the excavated area were approximately 220 feet in length, 10 to 74 feet in width, and one (1) to two (2) feet in depth. During the course of remediation activities, Etech transported approximately 540 cubic yards of impacted soil to an NMOCD-permitted surface waste facility for disposal and imported approximately 540 cubic yards of locally sourced, non-impacted material to the site for use as backfill.

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

5.0 RESTORATION, RECLAMATION & RE-VEGETATION PLAN

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

6.0 SOIL CLOSURE REQUEST

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 in-situ concentrations of BTEX, TPH, and chloride are below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standards.

Based on laboratory analytical results and field activities conducted to date, Etech recommends Mewbourne Oil Company provide copies of this *Remediation Summary & Soil Closure Request* to the appropriate agencies and request closure be granted to the Delaware Ranch release site.

7.0 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 Mewbourne Oil Company. Use of the information contained in this report is prohibited without the consent of Etech and/or Mewbourne Oil Company.

8.0 DISTRIBUTION

Mewbourne Oil Company

4801 Business Park Blvd.

Hobbs, NM 88240

New Mexico Energy, Minerals and Natural Resources Department

Oil Conservation Division, District 2

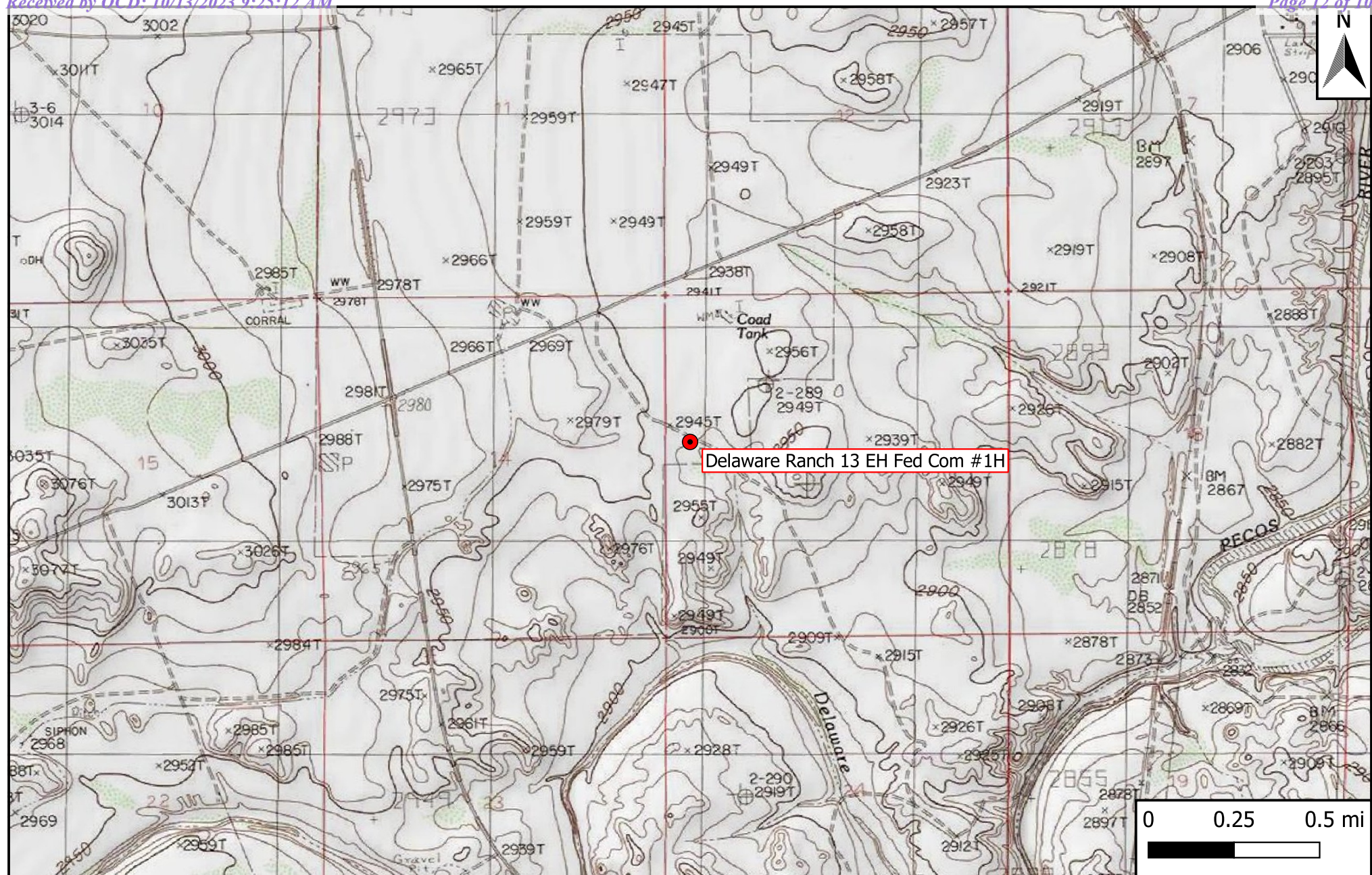
811 S. First Street

Artesia, NM 88210

(Electronic Submission)

Figure 1

Topographic Map



Legend

● Site Location

Figure 1

Topographic Map
 Mewbourne Oil Company
 Delaware Ranch 13 EH Fed Com #1H
 GPS: 32.043574, -104.048468
 Eddy County

eTECH
 Environmental & Safety Solutions, Inc.

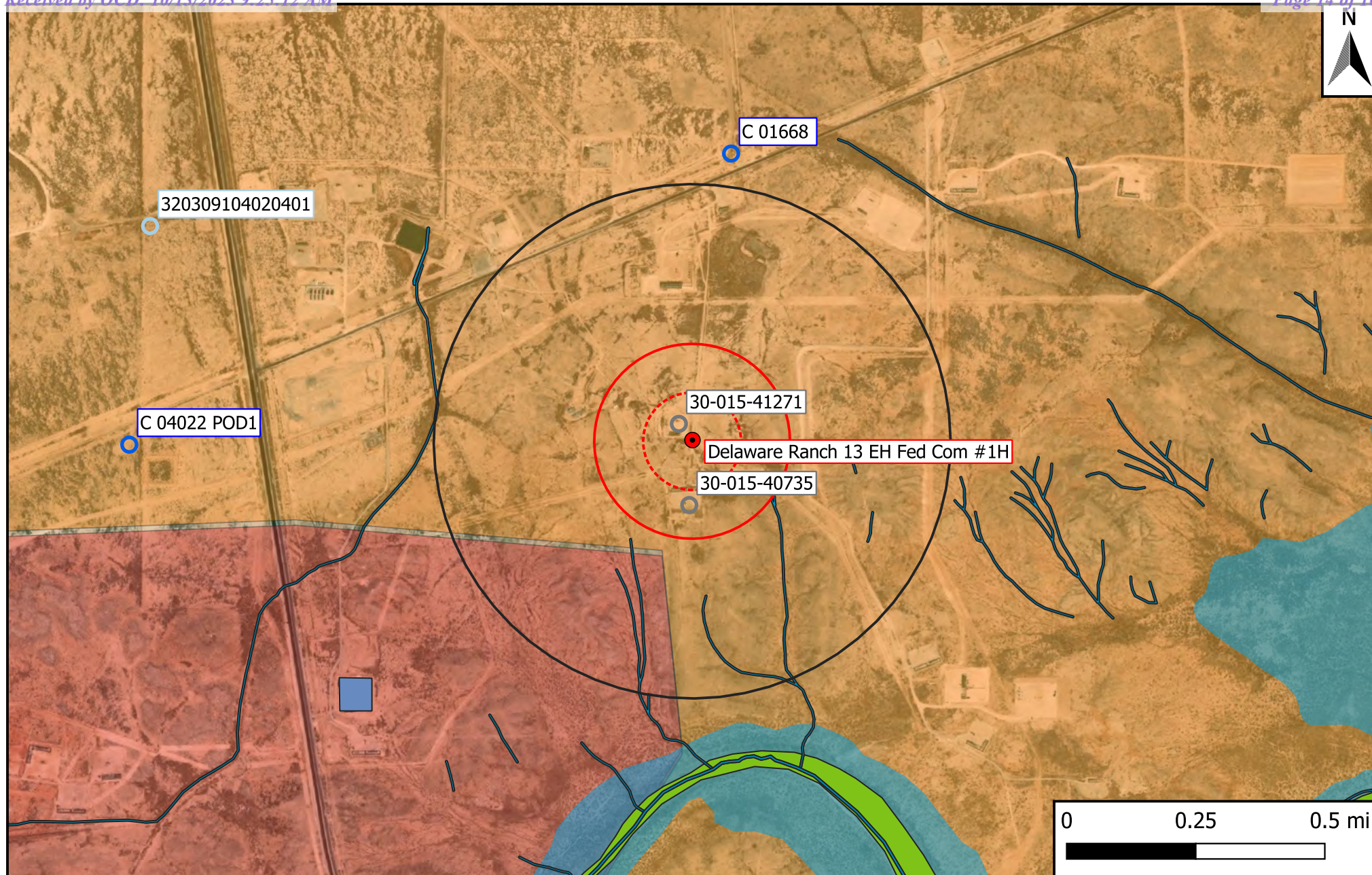
Drafted: bja

Checked: lc

Date: 9/18/23

Figure 2

Site Characterization Map



Legend

- | | | |
|------------------------------|---------------------------------|----------------------|
| ● Site Location | 1% Annual Flood Chance | 500-Ft Radius |
| ○ Well - NMOSE | Emergent/Forested Wetlands | 1,000-Ft Radius |
| ○ Well - USGS | Freshwater Pond/Lake | 0.5-Mi Radius |
| ○ Well - Exploratory/Monitor | Karst Potential (Low/Med./High) | Municipal Boundary |
| ○ Well - NMOCD | Riverine | Potash Mine Workings |

Figure 2
 Site Characterization Map
 Mewbourne Oil Company
 Delaware Ranch 13 EH Fed Com #1H
 GPS: 32.043574, -104.048468
 Eddy County



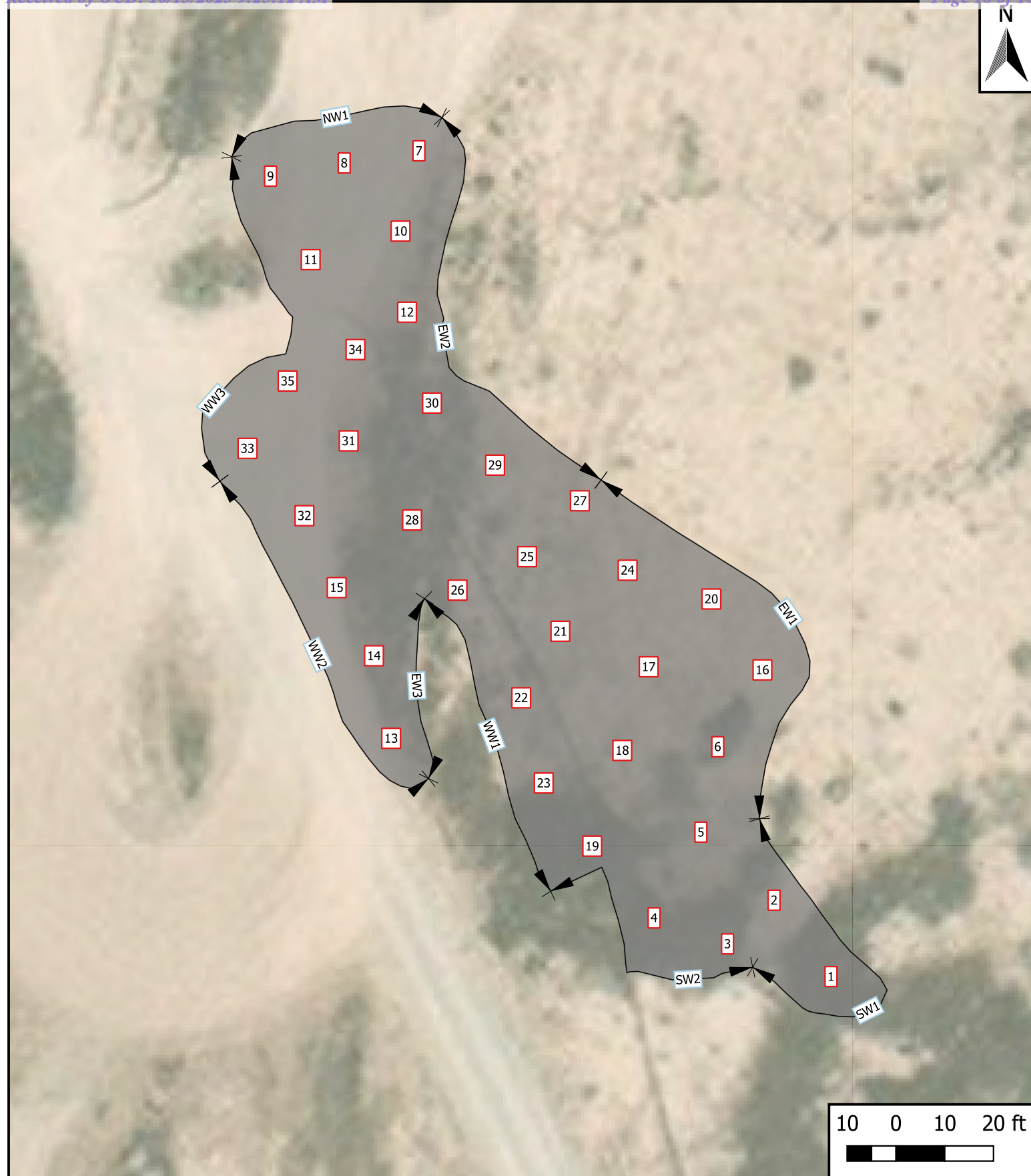
Drafted: bja

Checked: lc

Date: 10/5/23

Figure 3

Site & Sample Location Map



Legend

- Excavation Extent
- Composite Floor Sample
- Composite Wall Sample

Figure 3

Site & Sample Location Map
 Mewbourne Oil Company
 Delaware Ranch 13 EH Fed Com #1H
 GPS: 32.043574, -104.048468
 Eddy County



Drafted: bja

Checked: lc

Date: 10/05/23

Table 1
Concentrations of BTEX, TPH & Chloride in Soil

Table 1 Concentrations of BTEX, TPH & Chloride in Soil Mewbourne Oil Company Delaware Ranch 13 EH Fed Com #1H NMOCD Ref. #: nAPP2325659451											
NMOCD Closure Criteria				10	50	N/A	N/A	1,000	N/A	2,500	10,000
NMOCD Reclamation Standard				10	50	N/A	N/A	N/A	N/A	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)
NW1	9/26/2023	0-1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
EW1	9/26/2023	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
EW2	9/26/2023	0-1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
EW3	9/26/2023	0-1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SW1	9/26/2023	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SW2	9/26/2023	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
WW1	9/26/2023	0-1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
WW2	9/26/2023	0-1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
WW3	9/26/2023	0-1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 1 @ 2	9/26/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 2 @ 2	9/26/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL 3 @ 2	9/26/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL 4 @ 2	9/26/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 5 @ 1 1/2	9/26/2023	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 6 @ 1 1/2	9/26/2023	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 7 @ 1	9/26/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL 8 @ 1	9/26/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 9 @ 1	9/26/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 10 @ 1	9/26/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 11 @ 1	9/26/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 12 @ 1	9/26/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 13 @ 1	9/26/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
FL 14 @ 1	9/26/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
FL 15 @ 1	9/26/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
FL 16 @ 1 1/2	9/28/2023	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL 17 @ 1 1/2	9/28/2023	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL 18 @ 1 1/2	9/28/2023	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 19 @ 1 1/2	9/28/2023	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 20 @ 1 1/2	9/28/2023	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 21 @ 1 1/2	9/28/2023	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 22 @ 1 1/2	9/28/2023	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 23 @ 1 1/2	9/28/2023	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 24 @ 1 1/2	9/28/2023	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 25 @ 1 1/2	9/28/2023	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FL 26 @ 1 1/2	9/28/2023	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL 27 @ 1 1/2	9/28/2023	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 28 @ 1 1/2	9/28/2023	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 29 @ 1	9/28/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL 30 @ 1	9/28/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	336
FL 31 @ 1	9/28/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FL 32 @ 1	9/28/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 33 @ 1	9/28/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 34 @ 1	9/28/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
FL 35 @ 1	9/28/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0

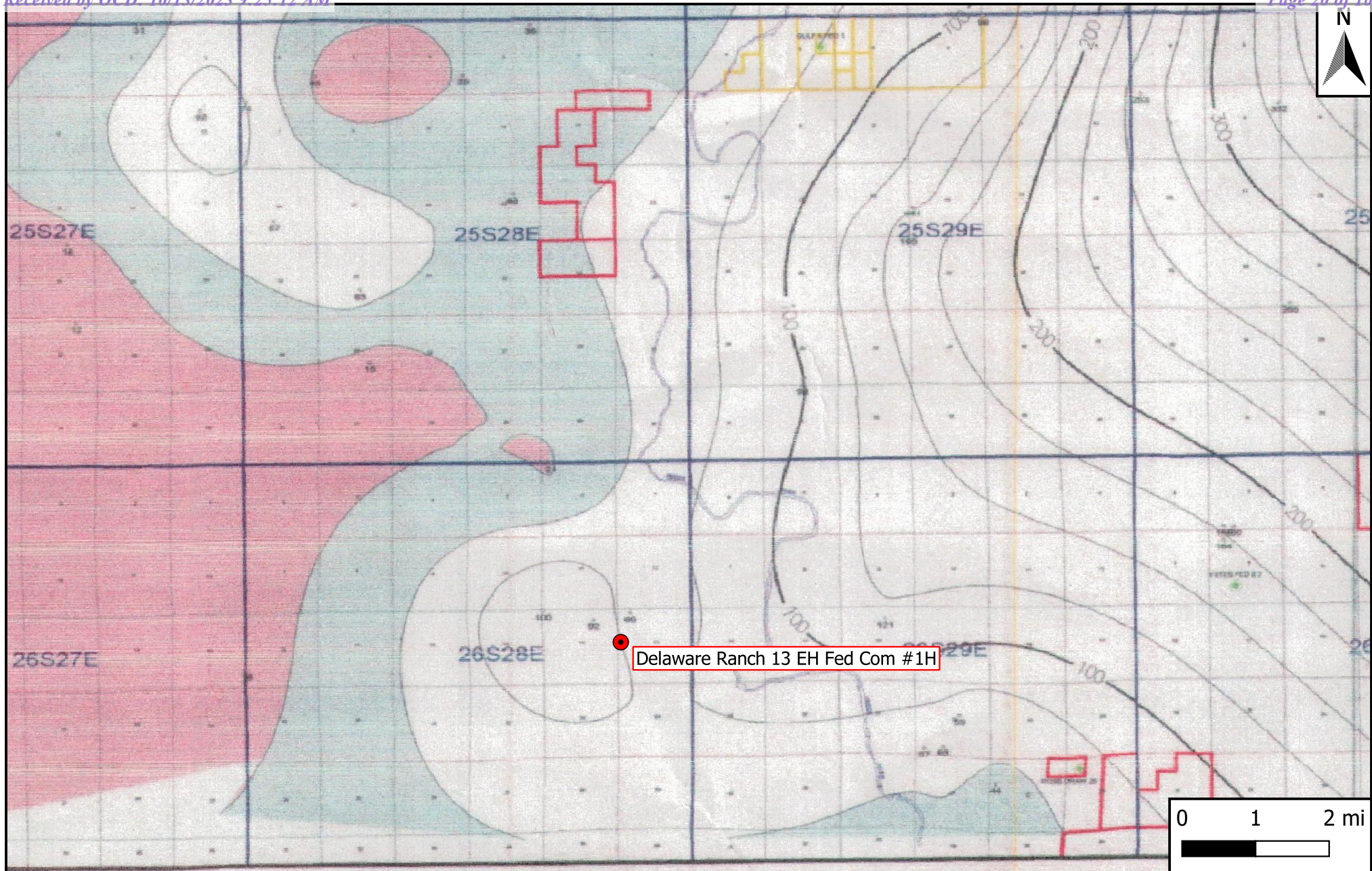
Dash (-): Sample not analyzed for that constituent.

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

Appendix A

Depth to Groundwater Information



Legend

- Site Location

Figure 4

Inferred Depth to Groundwater Trend Map
 Mewbourne Oil Company
 Delaware Ranch 13 EH Fed Com #1H
 GPS: 32.043574, -104.048468
 Eddy County



Drafted: bja

Checked: lc

Date: 9/18/23



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

(R=POD has been replaced,
O=orphaned,

C=the file is closed)

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

(NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 6	Q 4	Q 1	Q 2	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
C_02160		CUB	ED	4	1	2	14	26S	28E		589243	3546044*	706	300	120	180
C_01668		CUB	ED		3	3	12	26S	28E		589957	3546554*	900	250	100	150
C_02160_S		CUB	ED	1	1	2	14	26S	28E		589043	3546244*	984	300	120	180
C_02160_S2		CUB	ED	1	1	2	14	26S	28E		589043	3546244*	984	300	120	180

Average Depth to Water: **115 feet**

Minimum Depth: **100 feet**

Maximum Depth: **120 feet**

Record Count:4

UTMNAD83 Radius Search (in meters):

Easting (X): 589836.57

Northing (Y): 3545661.36

Radius: 1000

*UTM location was derived from PLSS - see Help

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10/5/23 3:51 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)						(NAD83 UTM in meters)	
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	C 02160	4	1	2	14	26S	28E	589243	3546044* 
<hr/>									
Driller License:		Driller Company:							
Driller Name:		HEMLER							
Drill Start Date:		Drill Finish Date:				12/01/1959		Plug Date:	
Log File Date:		PCW Rev Date:						Source: Shallow	
Pump Type:		Pipe Discharge Size:						Estimated Yield:	
Casing Size:		Depth Well:				300 feet		Depth Water: 120 feet	

*UTM location was derived from PLSS - see Help

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9/11/23 10:58 AM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)				(quarters are smallest to largest)				(NAD83 UTM in meters)	
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y		
C	01668		3	3	12	26S	28E	589957	3546554*		
<hr/>											
Driller License: 224		Driller Company:				MULLIN, R.J.					
Driller Name:											
Drill Start Date: 03/22/1976		Drill Finish Date:				04/02/1976		Plug Date:			
Log File Date: 04/08/1976		PCW Rev Date:				Source:				Shallow	
Pump Type:		Pipe Discharge Size:				Estimated Yield:				500 GPM	
Casing Size: 16.00		Depth Well:				250 feet		Depth Water:		100 feet	
<hr/>											
Water Bearing Stratifications:					Top	Bottom	Description				
					115	135	Limestone/Dolomite/Chalk				
					135	147	Limestone/Dolomite/Chalk				
					185	196	Limestone/Dolomite/Chalk				
					236	238	Limestone/Dolomite/Chalk				
<hr/>											
Casing Perforations:					Top	Bottom					
					0	115					
					115	135					
					135	147					
					147	196					
					196	212					
					212	234					
					234	241					
					241	250					

*UTM location was derived from PLSS - see Help

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POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
C	02160 S	1	1	2	14	26S	28E	589043	3546244*



x

Driller License:**Driller Company:****Driller Name:** HEMLER**Drill Start Date:****Drill Finish Date:**

01/01/1960

Plug Date:**Log File Date:****PCW Rev Date:****Source:**

Shallow

Pump Type:**Pipe Discharge Size:****Estimated Yield:****Casing Size:****Depth Well:**

300 feet

Depth Water:

120 feet

x

Meter Number: 3534**Meter Make:** MCC**Meter Serial Number:** 06-04-12150**Meter Multiplier:** 1.0000**Number of Dials:** 2**Meter Type:** Diversion**Unit of Measure:** Acre-Feet**Return Flow Percent:****Usage Multiplier:****Reading Frequency:**

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount Online
09/25/2000	2000	14	A	ms		0
10/19/2000	2000	15	A	mb		0.523
01/05/2001	2000	17	A	ms		2.257
04/26/2001	2001	31	A	ms		13.708
07/20/2001	2001	45	A	ms		14.493
04/01/2003	2002	45	A	RPT		0
06/03/2003	2003	77	A	ms		31.846
10/29/2003	2003	80	A	TW		2.566
01/06/2004	2003	82	A	ab		2.034
04/28/2004	2004	89	A	TW		6.650
07/14/2004	2004	97	A	TW		8.845
10/20/2004	2004	9	R	TW	Meter Rollover	11.404
01/03/2005	2004	24	A	TW		15.167
03/30/2005	2005	29	A	JW		5.431
07/06/2005	2005	33	A	JW		3.347
10/18/2005	2005	33	A	TW		0
01/05/2006	2005	33	A	TW		0
04/05/2006	2006	39	A	tw		6.600
07/06/2006	2006	46	A	tw		6.553
07/06/2006	2006	52	A	tw		6.553
01/04/2007	2006	52	A	tw		0
04/27/2007	2007	56	A	tw		3.558
07/03/2007	2007	60	A	tw		3.558
10/14/2007	2007	64	A	tw		4.119
01/02/2008	2007	68	A	tw		4.494

01/03/2008	2008	0	A	tw	0
04/15/2008	2008	8	A	tw	7.717
07/16/2008	2008	17	A	tw	9.268
10/02/2008	2008	24	A	tw	7.351
01/14/2009	2008	37	A	tw	12.597
04/15/2009	2009	50	A	tw	13.078
06/07/2009	2009	56	A	tw	5.954
01/06/2010	2009	80	A	tw	23.966
05/13/2010	2010	11	R	tw	Meter Rollover 31.274
12/28/2010	2010	9	R	tw	Meter Rollover 97.479
09/20/2011	2011	39	A	tw	29.864
01/04/2012	2011	65	A	tw	25.958
03/12/2012	2012	65	A	tw	0.724

**YTD Meter Amounts:	Year	Amount
	2000	2.780
	2001	28.201
	2002	0
	2003	36.446
	2004	42.066
	2005	8.778
	2006	19.706
	2007	15.729
	2008	36.933
	2009	42.998
	2010	128.753
	2011	55.822
	2012	0.724

*UTM location was derived from PLSS - see Help

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
9/11/23 10:58 AM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

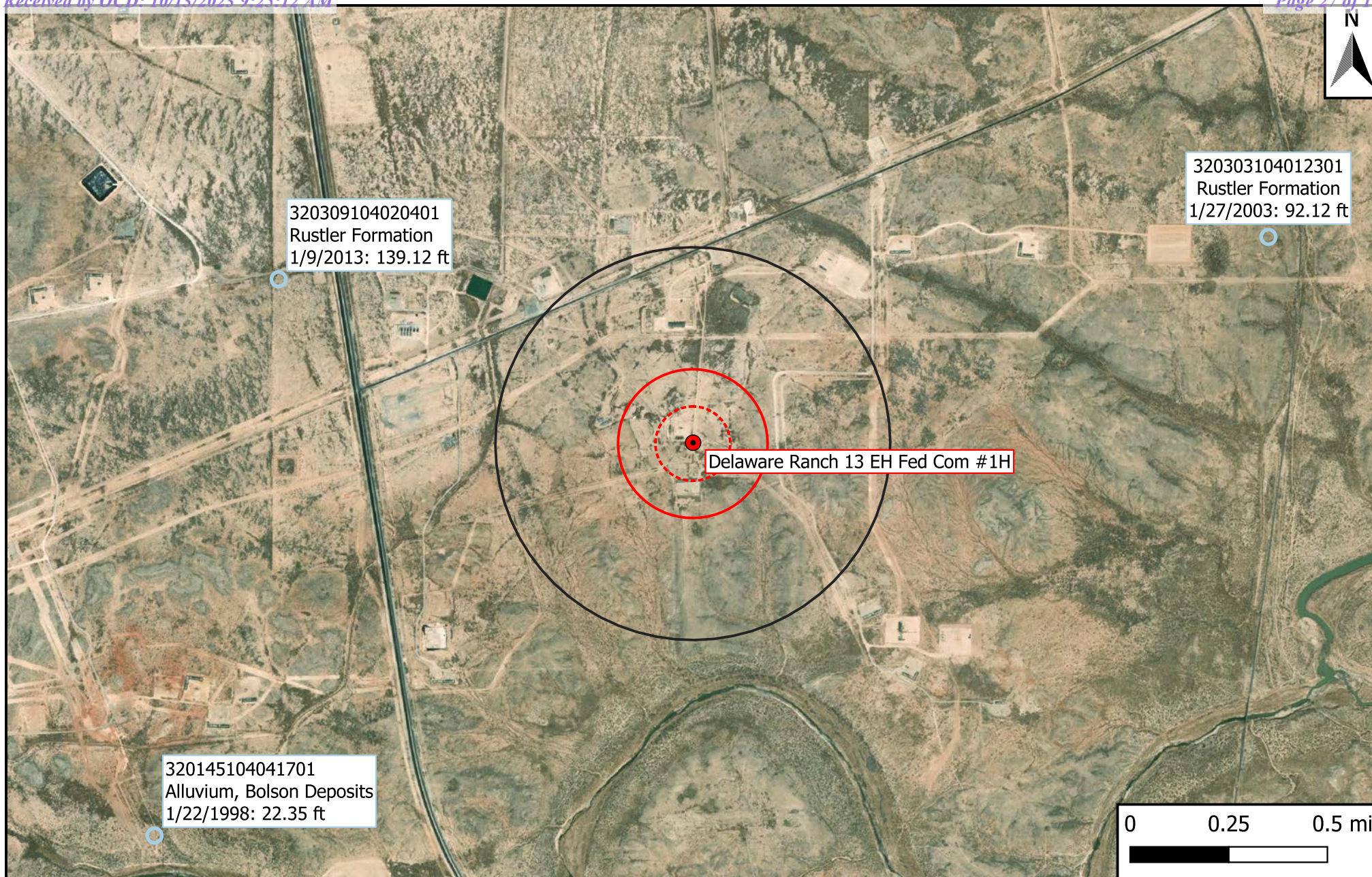
		(quarters are 1=NW 2=NE 3=SW 4=SE)						(NAD83 UTM in meters)	
		(quarters are smallest to largest)							
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
C	02160 S2	1	1	2	14	26S	28E	589043	3546244* 
Driller License:		Driller Company:							
Driller Name:		HEMLER							
Drill Start Date:		Drill Finish Date:		03/01/1960		Plug Date:			
Log File Date:		PCW Rev Date:				Source:		Shallow	
Pump Type:		Pipe Discharge Size:				Estimated Yield:			
Casing Size:		Depth Well:		300 feet		Depth Water:		120 feet	

*UTM location was derived from PLSS - see Help

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9/11/23 10:58 AM

POINT OF DIVERSION SUMMARY



Legend

- Site Location
- Well - USGS
- ⊞ 500-Ft Radius
- ⊞ 1,000-Ft Radius
- ⊞ 0.5-Mi Radius

Figure 5

USGS Well Proximity Map
Mewbourne Oil Company
Delaware Ranch 13 EH Fed Com #1H
GPS: 32.043574, -104.048468
Eddy County



Drafted: bja

Checked: lc

Date: 10/5/23



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Geographic Area:

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Search Results -- 1 sites found

Agency code = usgs

site_no list =

- 320309104020401

Minimum number of levels = 1

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

USGS 320309104020401 26S.28E.14.11111

Eddy County, New Mexico

Latitude 32°02'59.0", Longitude 104°03'58.7" NAD83

Land-surface elevation 2,972.00 feet above NGVD29

This well is completed in the Other aquifers (N99990THER) national aquifer.

This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

[Table of data](#)

[Tab-separated data](#)

[Graph of data](#)

[Reselect period](#)

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water- level approval status
1978-01-13			D	72019	122.34		1	Z			A
1983-01-25			D	72019	127.38		1	Z			A
1987-10-14			D	72019	106.40		1	Z			A
1993-01-05			D	72019	100.42		1	S			A
1998-01-22			D	72019	96.55		1	S			A
2003-01-27			D	72019	97.02		1	S	USGS	S	A
2013-01-09	20:30 UTC		m	72019	139.12		1	S	USGS	S	A
2021-02-24	20:05 UTC		m	72019	155.92		1	V	USGS	S	A

Explanation		
Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	S	Steel-tape measurement.
Method of measurement	V	Calibrated electric-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey
Source of measurement		Not determined
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	A	Approved for publication -- Processing and review completed.

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Groundwater

Geographic Area:

United States

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Search Results -- 1 sites found

Agency code = usgs

site_no list =

- 320303104012301

Minimum number of levels = 1

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

USGS 320303104012301 26S.28E.14.21412

Eddy County, New Mexico

Latitude 32°03'03.0", Longitude 104°01'23.0" NAD27

Land-surface elevation 2,972.40 feet above NGVD29

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

This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

[Table of data](#)

[Tab-separated data](#)

[Graph of data](#)

[Reselect period](#)

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1978-01-13			D 72019	116.75			1	Z			A
1983-01-25			D 72019	113.65			1	Z			A
1987-10-14			D 72019	98.72			1	Z			A
1993-05-04			D 72019	91.60			1	S			A
1998-01-22			D 72019	89.85			1	S			A
2003-01-27			D 72019	92.12			1	S	USGS	S	A

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey
Source of measurement		Not determined
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	A	Approved for publication -- Processing and review completed.

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Search Results -- 1 sites found

Agency code = usgs

site_no list =

- 320145104041701

Minimum number of levels = 1

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

USGS 320145104041701 26S.28E.22.234431

Eddy County, New Mexico

Latitude 32°01'45", Longitude 104°04'17" NAD27

Land-surface elevation 2,980 feet above NGVD29

The depth of the well is 23.00 feet below land surface.

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

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

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period

Date	Time	Water-level date-time accuracy	Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	Status	Method of measurement	Measuring agency	Source of measurement	Water-level approval status
1987-12-12		D	72019	21.02			1	S			A
1998-01-22		D	72019	22.35			1	S			A

Explanation		
Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	S	Steel-tape measurement.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

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Drilling Program
Mewbourne Oil Company
 Delaware Ranch "13" EH Fed Com #1H
 2100' FNL & 95' FWL (SHL)
 Sec 13-T26S-R28E
 Eddy County, New Mexico

Extracted from the "Application for Permit to Drill or Reenter" for Well #30-015-41271 in the NMOCD Imaging System.

1. The estimated tops of geological markers are as follows:

Rustler	600'
Top Salt	900'
Base Salt	2400'
Delaware Lime	2580
Lamar	2600'
*Bell Canyon	2620'
*Cherry Canyon	3500'
Manzanita Marker	3550'
*Brushy Canyon	5200'
*Bone Springs	6330'
*Upper Avalon	6640
*Lower Avalon	6860
*1 st Bone Spring Sand	7250'
*2 nd Bone Spring Sand	8100'
3rd BS Sand	Will not penetrate
Wolfcamp	Will not penetrate

2. Estimated depths of anticipated fresh water, oil, or gas:

Water	Fresh water is anticipated @ 55' & will be protected by setting surface casing at 625' and cementing to surface.
Hydrocarbons	Oil and gas are anticipated in the above (*) formations. These zones will be protected by casing as necessary.

3. Pressure control equipment:

A 2000# WP Annular will be installed after running 13 3/8" casing. A 5000# WP Double Ram BOP and 5000# WP Annular will be installed after running 7" & 9 5/8" casing. Pressure tests will be conducted prior to drilling out under all casing strings. BOP controls will be installed prior to drilling under surface casing and will remain in use until completion of drilling operations. BOPE will be inspected and operated as recommended in Onshore Order #2. A Kelly cock and a sub equipped with a full opening valve sized to fit the drill pipe and collars will be available on the rig floor in the open position when the Kelly is not in use. Will test the 13 3/8" Annular to 1000#, 7" & 9 5/8" BOPE to 5000# and the Annular to 2500# with a third party testing company before drilling below each shoe, but will test again, if needed, in 30 days from the 1st test as per BLM Onshore Oil and Gas Order #2.

4. MOC proposes to drill a vertical wellbore to 7800' & kick off to horizontal @ 8277' TVD. The well will be drilled to 12972' MD (8357' TVD). See attached directional plan.

5. Proposed casing and cementing program:

A. Casing Program:

Hole Size	Casing	Wt/Ft.	Grade	Depth	Jt Type
17 1/2"	13 3/8" (new)	48#	H40	0'-625' SCO	ST&C
12 1/4"	9 5/8" (new)	36#	J55	0'-2550'	LT&C
8 3/4"	7" (new)	26#	P110	0'-7800' MD	LT&C
8 3/4"	7" (new)	26#	P110	7800'-8541' MD	BT&C
6 1/8"	4 1/2" (new)	13.5#	P110	8341'-12972' MD	LT&C

Minimum casing design factors: Collapse 1.125, Burst 1.0, Tensile strength 1.8.

*Subject to availability of casing.

COG Production LLC
DRILLING AND OPERATIONS PROGRAM
Baby Buddah 13 Federal #1H
SHL: 190' FWL & 2350' FSL
BHL: 330' FEL & 2190' FSL
Section 13 T26S R28E
Eddy County, New Mexico

In conjunction with Form 3160-3, Application for Permit to Drill subject well, COG Production LLC submits the following eleven items of pertinent information in accordance with BLM requirements.

1. Geological surface formation: Permian
2. The estimated tops of geologic markers & estimated depths at which anticipated water, oil or gas formations are expected to be encountered are as follows:

Rustler	69'	
Fresh Water	118'	
Top of Salt	809'	
Base of Salt	2,416'	
Delaware	2,610'	Oil
Bone Spring	6,316'	Oil
3 rd Bone Spring	9,019'	Oil
TD TVD	8,180'	
TD MD	12,712'	
PH TD	9,000'	

No other formations are expected to give up oil, gas or fresh water in measurable quantities. The surface fresh water sands will be protected by setting 13-3/8" casing at 450' and circulating cement back to surface. All intervals will be isolated by setting 5 1/2" casing to total depth and tying back cement to a minimum of 500' into 9-5/8" csg.

3. Proposed Casing Program: All casing is new and API approved

Hole Size	Depths	Section	OD Casing	New/Used	Wt	Collar	Grade	Collapse Design Factor	Burst Design Factor	Tension Design Factor
17 1/2"	0' - 450'	Surface	13 3/8"	New	48#	STC	H-40	1.125	1.125	1.6
12 1/4"	0' - 2,650'	Intrmd	9 5/8"	New	36#	LTC	J-55	1.125	1.125	1.6
7 7/8"	0' - 12,712'	Production Curve & Lateral	5 1/2"	New	17#	LTC	P-110	1.125	1.125	1.6

- While running all casing strings, the pipe will be kept a minimum of 1/3 full at all times to avoid approaching the collapse pressure of casing.

Appendix B

Field Data



Sample Log

Date: _____

Project: Delaware Ranch 13 EH Fed Com #1H Flow Line

Project Number: 18697 Latitude: 32.04354 Longitude: -104.04848

Sample ID	PID/Odor	Chloride Conc.	GPS
SW1	3.8	528	
FL1 @ 2	3.6	480	
SW2	3.2	395	
WW1	3.8	528	
FL2 @ 2	3.2	396	
FL3 @ 2	3.0	356	
EW1	3.2	396	
FL4 @ 2	3.2	396	
FL5 @ 1 1/2	3.8	540	
FL6 @ 1 1/2	3.8	540	
FL7 @ 1	3.4	444	
FL8 @ 1	3.0	356	
FL9 @ 1	3.4	444	
FL10 @ 1	2.2	216	
FL11 @ 1	2.4	248	
FL12 @ 1	3.0	356	
FL13 @ 1	3.0	356	
FL14 @ 1	2.6	280	
FL15 @ 1	3.6	488	
EW2	3.0	356	
EW3	3.2	396	
NW1	3.6	488	
WW3	3.4	444	
WW2	2.8	316	
FL16 @ 1 1/2	2.6	280	
FL17 @ 1 1/2	3.8	540	
FL18 @ 1 1/2	3.4	444	
FL19 @ 1 1/2	2.8	316	
FL20 @ 1 1/2	2.8	316	
FL21 @ 1 1/2	3.0	356	
FL22 @ 1 1/2	3.6	356	
FL23 @ 1 1/2	3.4	444	
FL24 @ 1 1/2	3.0	356	
FL25 @ 1 1/2	3.0	356	
FL26 @ 1 1/2	3.0	356	
FL27 @ 1 1/2	3.2	396	

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

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

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

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas



Project Number: 18697 Latitude: 32.04354 Longitude: -104.04848

GPS Sample Points, Center of Comp Areas

Appendix C

Photographic Log

Photographic Log

Photo Number: 1	 <p>August 31, 2023 at 6:15 AM +32.043687,-104.048436</p>
Photo Direction: Southwest	
Photo Description: View of the affected area.	

Photo Number: 2	 <p>August 31, 2023 at 6:15 AM +32.043687,-104.048436</p>
Photo Direction: Northwest	
Photo Description: View of the affected area.	

Photographic Log

Photo Number: 3	
Photo Direction: Northwest	
Photo Description: View of the affected area.	

Photo Number: 4	
Photo Direction: South	
Photo Description: View of the excavated area.	

Photographic Log

Photo Number: 5	
Photo Direction: Southwest	
Photo Description: View of the excavated area.	

Photo Number: 6	
Photo Direction: Southwest	
Photo Description: View of the excavated area.	

Photographic Log



Photo Number: 7	
Photo Direction: South	
Photo Description: View of the remediated area after backfill and regrading.	

Photo Number: 8	
Photo Direction: North	
Photo Description: View of the remediated area after backfill and regrading.	

Photographic Log

Photo Number: 9	
Photo Direction: Northwest	
Photo Description: View of the remediated area after backfill and regrading.	

Appendix D

Laboratory Analytical Reports



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

October 02, 2023

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: DELAWARE RANCH 13 EH FED COM #1H FLOW LINE

Enclosed are the results of analyses for samples received by the laboratory on 09/27/23 9:05.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/27/2023	Sampling Date:	09/26/2023
Reported:	10/02/2023	Sampling Type:	Soil
Project Name:	DELAWARE RANCH 13 EH FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	18697	Sample Received By:	Dionica Hinojos
Project Location:	UL/E SEC 13 T26S - R28E		

Sample ID: FL 1 @ 2 (H235265-01)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/30/2023	ND	1.80	89.9	2.00	3.56		
Toluene*	<0.050	0.050	09/30/2023	ND	2.02	101	2.00	2.71		
Ethylbenzene*	<0.050	0.050	09/30/2023	ND	2.14	107	2.00	3.52		
Total Xylenes*	<0.150	0.150	09/30/2023	ND	6.36	106	6.00	3.19		
Total BTX	<0.300	0.300	09/30/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/28/2023	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	09/28/2023	ND	180	89.9	200	1.86	
DRO >C10-C28*	<10.0	10.0	09/28/2023	ND	168	84.2	200	4.29	
EXT DRO >C28-C36	<10.0	10.0	09/28/2023	ND					

Surrogate: 1-Chlorooctane 77.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.5 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/27/2023	Sampling Date:	09/26/2023
Reported:	10/02/2023	Sampling Type:	Soil
Project Name:	DELAWARE RANCH 13 EH FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	18697	Sample Received By:	Dionica Hinojos
Project Location:	UL/E SEC 13 T26S - R28E		

Sample ID: FL 2 @ 2 (H235265-02)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/28/2023	ND	1.94	97.2	2.00	4.30		
Toluene*	<0.050	0.050	09/28/2023	ND	1.97	98.4	2.00	5.07		
Ethylbenzene*	<0.050	0.050	09/28/2023	ND	1.94	96.9	2.00	5.05		
Total Xylenes*	<0.150	0.150	09/28/2023	ND	5.84	97.3	6.00	6.18		
Total BTEx	<0.300	0.300	09/28/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/28/2023	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	09/28/2023	ND	180	89.9	200	1.86	
DRO >C10-C28*	<10.0	10.0	09/28/2023	ND	168	84.2	200	4.29	
EXT DRO >C28-C36	<10.0	10.0	09/28/2023	ND					

Surrogate: 1-Chlorooctane 78.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/27/2023	Sampling Date:	09/26/2023
Reported:	10/02/2023	Sampling Type:	Soil
Project Name:	DELAWARE RANCH 13 EH FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	18697	Sample Received By:	Dionica Hinojos
Project Location:	UL/E SEC 13 T26S - R28E		

Sample ID: FL 3 @ 2 (H235265-03)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/28/2023	ND	1.94	97.2	2.00	4.30	
Toluene*	<0.050	0.050	09/28/2023	ND	1.97	98.4	2.00	5.07	
Ethylbenzene*	<0.050	0.050	09/28/2023	ND	1.94	96.9	2.00	5.05	
Total Xylenes*	<0.150	0.150	09/28/2023	ND	5.84	97.3	6.00	6.18	
Total BTEx	<0.300	0.300	09/28/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/28/2023	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	09/28/2023	ND	180	89.9	200	1.86	
DRO >C10-C28*	<10.0	10.0	09/28/2023	ND	168	84.2	200	4.29	
EXT DRO >C28-C36	<10.0	10.0	09/28/2023	ND					

Surrogate: 1-Chlorooctane 78.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/27/2023	Sampling Date:	09/26/2023
Reported:	10/02/2023	Sampling Type:	Soil
Project Name:	DELAWARE RANCH 13 EH FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	18697	Sample Received By:	Dionica Hinojos
Project Location:	UL/E SEC 13 T26S - R28E		

Sample ID: FL 4 @ 2 (H235265-04)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/28/2023	ND	1.94	97.2	2.00	4.30		
Toluene*	<0.050	0.050	09/28/2023	ND	1.97	98.4	2.00	5.07		
Ethylbenzene*	<0.050	0.050	09/28/2023	ND	1.94	96.9	2.00	5.05		
Total Xylenes*	<0.150	0.150	09/28/2023	ND	5.84	97.3	6.00	6.18		
Total BTEX	<0.300	0.300	09/28/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	09/29/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2023	ND	180	89.9	200	1.86	
DRO >C10-C28*	<10.0	10.0	09/28/2023	ND	168	84.2	200	4.29	
EXT DRO >C28-C36	<10.0	10.0	09/28/2023	ND					

Surrogate: 1-Chlorooctane 78.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/27/2023	Sampling Date:	09/26/2023
Reported:	10/02/2023	Sampling Type:	Soil
Project Name:	DELAWARE RANCH 13 EH FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	18697	Sample Received By:	Dionica Hinojos
Project Location:	UL/E SEC 13 T26S - R28E		

Sample ID: FL 5 @ 1 1/2 (H235265-05)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/28/2023	ND	1.94	97.2	2.00	4.30		
Toluene*	<0.050	0.050	09/28/2023	ND	1.97	98.4	2.00	5.07		
Ethylbenzene*	<0.050	0.050	09/28/2023	ND	1.94	96.9	2.00	5.05		
Total Xylenes*	<0.150	0.150	09/28/2023	ND	5.84	97.3	6.00	6.18		
Total BTX	<0.300	0.300	09/28/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	09/29/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2023	ND	180	89.9	200	1.86	
DRO >C10-C28*	<10.0	10.0	09/28/2023	ND	168	84.2	200	4.29	
EXT DRO >C28-C36	<10.0	10.0	09/28/2023	ND					

Surrogate: 1-Chlorooctane 76.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/27/2023	Sampling Date:	09/26/2023
Reported:	10/02/2023	Sampling Type:	Soil
Project Name:	DELAWARE RANCH 13 EH FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	18697	Sample Received By:	Dionica Hinojos
Project Location:	UL/E SEC 13 T26S - R28E		

Sample ID: FL 6 @ 1 1/2 (H235265-06)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/28/2023	ND	1.94	97.2	2.00	4.30		
Toluene*	<0.050	0.050	09/28/2023	ND	1.97	98.4	2.00	5.07		
Ethylbenzene*	<0.050	0.050	09/28/2023	ND	1.94	96.9	2.00	5.05		
Total Xylenes*	<0.150	0.150	09/28/2023	ND	5.84	97.3	6.00	6.18		
Total BTX	<0.300	0.300	09/28/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	09/29/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2023	ND	180	89.9	200	1.86	
DRO >C10-C28*	<10.0	10.0	09/28/2023	ND	168	84.2	200	4.29	
EXT DRO >C28-C36	<10.0	10.0	09/28/2023	ND					

Surrogate: 1-Chlorooctane 80.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/27/2023	Sampling Date:	09/26/2023
Reported:	10/02/2023	Sampling Type:	Soil
Project Name:	DELAWARE RANCH 13 EH FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	18697	Sample Received By:	Dionica Hinojos
Project Location:	UL/E SEC 13 T26S - R28E		

Sample ID: FL 7 @ 1 (H235265-07)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/28/2023	ND	1.94	97.2	2.00	4.30	
Toluene*	<0.050	0.050	09/28/2023	ND	1.97	98.4	2.00	5.07	
Ethylbenzene*	<0.050	0.050	09/28/2023	ND	1.94	96.9	2.00	5.05	
Total Xylenes*	<0.150	0.150	09/28/2023	ND	5.84	97.3	6.00	6.18	
Total BTEx	<0.300	0.300	09/28/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	09/29/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2023	ND	181	90.4	200	0.384	
DRO >C10-C28*	<10.0	10.0	09/28/2023	ND	190	95.0	200	0.232	
EXT DRO >C28-C36	<10.0	10.0	09/28/2023	ND					

Surrogate: 1-Chlorooctane 77.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/27/2023	Sampling Date:	09/26/2023
Reported:	10/02/2023	Sampling Type:	Soil
Project Name:	DELAWARE RANCH 13 EH FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	18697	Sample Received By:	Dionica Hinojos
Project Location:	UL/E SEC 13 T26S - R28E		

Sample ID: FL 8 @ 1 (H235265-08)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/28/2023	ND	1.94	97.2	2.00	4.30		
Toluene*	<0.050	0.050	09/28/2023	ND	1.97	98.4	2.00	5.07		
Ethylbenzene*	<0.050	0.050	09/28/2023	ND	1.94	96.9	2.00	5.05		
Total Xylenes*	<0.150	0.150	09/28/2023	ND	5.84	97.3	6.00	6.18		
Total BTX	<0.300	0.300	09/28/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	09/29/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2023	ND	181	90.4	200	0.384	
DRO >C10-C28*	<10.0	10.0	09/28/2023	ND	190	95.0	200	0.232	
EXT DRO >C28-C36	<10.0	10.0	09/28/2023	ND					

Surrogate: 1-Chlorooctane 73.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.8 % 49.1-148

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Analytical Results For:

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

Received:	09/27/2023	Sampling Date:	09/26/2023
Reported:	10/02/2023	Sampling Type:	Soil
Project Name:	DELAWARE RANCH 13 EH FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	18697	Sample Received By:	Dionica Hinojos
Project Location:	UL/E SEC 13 T26S - R28E		

Sample ID: FL 9 @ 1 (H235265-09)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/28/2023	ND	1.94	97.2	2.00	4.30		
Toluene*	<0.050	0.050	09/28/2023	ND	1.97	98.4	2.00	5.07		
Ethylbenzene*	<0.050	0.050	09/28/2023	ND	1.94	96.9	2.00	5.05		
Total Xylenes*	<0.150	0.150	09/28/2023	ND	5.84	97.3	6.00	6.18		
Total BTX	<0.300	0.300	09/28/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	09/29/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2023	ND	181	90.4	200	0.384	
DRO >C10-C28*	<10.0	10.0	09/28/2023	ND	190	95.0	200	0.232	
EXT DRO >C28-C36	<10.0	10.0	09/28/2023	ND					

Surrogate: 1-Chlorooctane 73.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.5 % 49.1-148

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Analytical Results For:

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

Received:	09/27/2023	Sampling Date:	09/26/2023
Reported:	10/02/2023	Sampling Type:	Soil
Project Name:	DELAWARE RANCH 13 EH FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	18697	Sample Received By:	Dionica Hinojos
Project Location:	UL/E SEC 13 T26S - R28E		

Sample ID: FL 10 @ 1 (H235265-10)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/28/2023	ND	1.94	97.2	2.00	4.30		
Toluene*	<0.050	0.050	09/28/2023	ND	1.97	98.4	2.00	5.07		
Ethylbenzene*	<0.050	0.050	09/28/2023	ND	1.94	96.9	2.00	5.05		
Total Xylenes*	<0.150	0.150	09/28/2023	ND	5.84	97.3	6.00	6.18		
Total BTX	<0.300	0.300	09/28/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/29/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2023	ND	181	90.4	200	0.384	
DRO >C10-C28*	<10.0	10.0	09/28/2023	ND	190	95.0	200	0.232	
EXT DRO >C28-C36	<10.0	10.0	09/28/2023	ND					

Surrogate: 1-Chlorooctane 65.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/27/2023	Sampling Date:	09/26/2023
Reported:	10/02/2023	Sampling Type:	Soil
Project Name:	DELAWARE RANCH 13 EH FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	18697	Sample Received By:	Dionica Hinojos
Project Location:	UL/E SEC 13 T26S - R28E		

Sample ID: FL 11 @ 1 (H235265-11)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/28/2023	ND	1.94	97.2	2.00	4.30		
Toluene*	<0.050	0.050	09/28/2023	ND	1.97	98.4	2.00	5.07		
Ethylbenzene*	<0.050	0.050	09/28/2023	ND	1.94	96.9	2.00	5.05		
Total Xylenes*	<0.150	0.150	09/28/2023	ND	5.84	97.3	6.00	6.18		
Total BTX	<0.300	0.300	09/28/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/29/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2023	ND	181	90.4	200	0.384	
DRO >C10-C28*	<10.0	10.0	09/28/2023	ND	190	95.0	200	0.232	
EXT DRO >C28-C36	<10.0	10.0	09/28/2023	ND					

Surrogate: 1-Chlorooctane 69.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/27/2023	Sampling Date:	09/26/2023
Reported:	10/02/2023	Sampling Type:	Soil
Project Name:	DELAWARE RANCH 13 EH FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	18697	Sample Received By:	Dionica Hinojos
Project Location:	UL/E SEC 13 T26S - R28E		

Sample ID: FL 12 @ 1 (H235265-12)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/28/2023	ND	1.94	97.2	2.00	4.30	
Toluene*	<0.050	0.050	09/28/2023	ND	1.97	98.4	2.00	5.07	
Ethylbenzene*	<0.050	0.050	09/28/2023	ND	1.94	96.9	2.00	5.05	
Total Xylenes*	<0.150	0.150	09/28/2023	ND	5.84	97.3	6.00	6.18	
Total BTEx	<0.300	0.300	09/28/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/29/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2023	ND	181	90.4	200	0.384	
DRO >C10-C28*	<10.0	10.0	09/28/2023	ND	190	95.0	200	0.232	
EXT DRO >C28-C36	<10.0	10.0	09/28/2023	ND					

Surrogate: 1-Chlorooctane 78.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/27/2023	Sampling Date:	09/26/2023
Reported:	10/02/2023	Sampling Type:	Soil
Project Name:	DELAWARE RANCH 13 EH FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	18697	Sample Received By:	Dionica Hinojos
Project Location:	UL/E SEC 13 T26S - R28E		

Sample ID: FL 13 @ 1 (H235265-13)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/28/2023	ND	1.94	97.2	2.00	4.30		
Toluene*	<0.050	0.050	09/28/2023	ND	1.97	98.4	2.00	5.07		
Ethylbenzene*	<0.050	0.050	09/28/2023	ND	1.94	96.9	2.00	5.05		
Total Xylenes*	<0.150	0.150	09/28/2023	ND	5.84	97.3	6.00	6.18		
Total BTX	<0.300	0.300	09/28/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	09/29/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2023	ND	181	90.4	200	0.384	
DRO >C10-C28*	<10.0	10.0	09/28/2023	ND	190	95.0	200	0.232	
EXT DRO >C28-C36	<10.0	10.0	09/28/2023	ND					

Surrogate: 1-Chlorooctane 72.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/27/2023	Sampling Date:	09/26/2023
Reported:	10/02/2023	Sampling Type:	Soil
Project Name:	DELAWARE RANCH 13 EH FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	18697	Sample Received By:	Dionica Hinojos
Project Location:	UL/E SEC 13 T26S - R28E		

Sample ID: FL 14 @ 1 (H235265-14)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/28/2023	ND	1.94	97.2	2.00	4.30	
Toluene*	<0.050	0.050	09/28/2023	ND	1.97	98.4	2.00	5.07	
Ethylbenzene*	<0.050	0.050	09/28/2023	ND	1.94	96.9	2.00	5.05	
Total Xylenes*	<0.150	0.150	09/28/2023	ND	5.84	97.3	6.00	6.18	
Total BTX	<0.300	0.300	09/28/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	09/29/2023	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2023	ND	181	90.4	200	0.384	
DRO >C10-C28*	<10.0	10.0	09/28/2023	ND	190	95.0	200	0.232	
EXT DRO >C28-C36	<10.0	10.0	09/28/2023	ND					

Surrogate: 1-Chlorooctane 68.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.7 % 49.1-148

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Analytical Results For:

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

Received:	09/27/2023	Sampling Date:	09/26/2023
Reported:	10/02/2023	Sampling Type:	Soil
Project Name:	DELAWARE RANCH 13 EH FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	18697	Sample Received By:	Dionica Hinojos
Project Location:	UL/E SEC 13 T26S - R28E		

Sample ID: FL 15 @ 1 (H235265-15)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/28/2023	ND	1.94	97.2	2.00	4.30		
Toluene*	<0.050	0.050	09/28/2023	ND	1.97	98.4	2.00	5.07		
Ethylbenzene*	<0.050	0.050	09/28/2023	ND	1.94	96.9	2.00	5.05		
Total Xylenes*	<0.150	0.150	09/28/2023	ND	5.84	97.3	6.00	6.18		
Total BTX	<0.300	0.300	09/28/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	09/29/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2023	ND	181	90.4	200	0.384	
DRO >C10-C28*	<10.0	10.0	09/28/2023	ND	190	95.0	200	0.232	
EXT DRO >C28-C36	<10.0	10.0	09/28/2023	ND					

Surrogate: 1-Chlorooctane 68.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.2 % 49.1-148

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Analytical Results For:

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

Received:	09/27/2023	Sampling Date:	09/26/2023
Reported:	10/02/2023	Sampling Type:	Soil
Project Name:	DELAWARE RANCH 13 EH FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	18697	Sample Received By:	Dionica Hinojos
Project Location:	UL/E SEC 13 T26S - R28E		

Sample ID: EW 1 (H235265-16)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/28/2023	ND	1.94	97.2	2.00	4.30		
Toluene*	<0.050	0.050	09/28/2023	ND	1.97	98.4	2.00	5.07		
Ethylbenzene*	<0.050	0.050	09/28/2023	ND	1.94	96.9	2.00	5.05		
Total Xylenes*	<0.150	0.150	09/28/2023	ND	5.84	97.3	6.00	6.18		
Total BTX	<0.300	0.300	09/28/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	09/29/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2023	ND	181	90.4	200	0.384	
DRO >C10-C28*	<10.0	10.0	09/28/2023	ND	190	95.0	200	0.232	
EXT DRO >C28-C36	<10.0	10.0	09/28/2023	ND					

Surrogate: 1-Chlorooctane 77.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/27/2023	Sampling Date:	09/26/2023
Reported:	10/02/2023	Sampling Type:	Soil
Project Name:	DELAWARE RANCH 13 EH FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	18697	Sample Received By:	Dionica Hinojos
Project Location:	UL/E SEC 13 T26S - R28E		

Sample ID: EW 2 (H235265-17)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/28/2023	ND	1.94	97.2	2.00	4.30	
Toluene*	<0.050	0.050	09/28/2023	ND	1.97	98.4	2.00	5.07	
Ethylbenzene*	<0.050	0.050	09/28/2023	ND	1.94	96.9	2.00	5.05	
Total Xylenes*	<0.150	0.150	09/28/2023	ND	5.84	97.3	6.00	6.18	
Total BTX	<0.300	0.300	09/28/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	09/29/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2023	ND	181	90.4	200	0.384	
DRO >C10-C28*	<10.0	10.0	09/28/2023	ND	190	95.0	200	0.232	
EXT DRO >C28-C36	<10.0	10.0	09/28/2023	ND					

Surrogate: 1-Chlorooctane 77.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.3 % 49.1-148

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Analytical Results For:

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

Received:	09/27/2023	Sampling Date:	09/26/2023
Reported:	10/02/2023	Sampling Type:	Soil
Project Name:	DELAWARE RANCH 13 EH FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	18697	Sample Received By:	Dionica Hinojos
Project Location:	UL/E SEC 13 T26S - R28E		

Sample ID: EW 3 (H235265-18)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/28/2023	ND	1.94	97.2	2.00	4.30		
Toluene*	<0.050	0.050	09/28/2023	ND	1.97	98.4	2.00	5.07		
Ethylbenzene*	<0.050	0.050	09/28/2023	ND	1.94	96.9	2.00	5.05		
Total Xylenes*	<0.150	0.150	09/28/2023	ND	5.84	97.3	6.00	6.18		
Total BTEx	<0.300	0.300	09/28/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/29/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2023	ND	181	90.4	200	0.384	
DRO >C10-C28*	<10.0	10.0	09/28/2023	ND	190	95.0	200	0.232	
EXT DRO >C28-C36	<10.0	10.0	09/28/2023	ND					

Surrogate: 1-Chlorooctane 71.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.4 % 49.1-148

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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:	09/27/2023	Sampling Date:	09/26/2023
Reported:	10/02/2023	Sampling Type:	Soil
Project Name:	DELAWARE RANCH 13 EH FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	18697	Sample Received By:	Dionica Hinojos
Project Location:	UL/E SEC 13 T26S - R28E		

Sample ID: NW 1 (H235265-19)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/28/2023	ND	2.11	106	2.00	0.943		
Toluene*	<0.050	0.050	09/28/2023	ND	2.25	112	2.00	0.0137		
Ethylbenzene*	<0.050	0.050	09/28/2023	ND	2.27	113	2.00	0.553		
Total Xylenes*	<0.150	0.150	09/28/2023	ND	6.29	105	6.00	0.187		
Total BTEX	<0.300	0.300	09/28/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	09/29/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2023	ND	181	90.4	200	0.384	
DRO >C10-C28*	<10.0	10.0	09/28/2023	ND	190	95.0	200	0.232	
EXT DRO >C28-C36	<10.0	10.0	09/28/2023	ND					

Surrogate: 1-Chlorooctane 61.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 65.9 % 49.1-148

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Analytical Results For:

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

Received:	09/27/2023	Sampling Date:	09/26/2023
Reported:	10/02/2023	Sampling Type:	Soil
Project Name:	DELAWARE RANCH 13 EH FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	18697	Sample Received By:	Dionica Hinojos
Project Location:	UL/E SEC 13 T26S - R28E		

Sample ID: SW 1 (H235265-20)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/28/2023	ND	2.11	106	2.00	0.943	
Toluene*	<0.050	0.050	09/28/2023	ND	2.25	112	2.00	0.0137	
Ethylbenzene*	<0.050	0.050	09/28/2023	ND	2.27	113	2.00	0.553	
Total Xylenes*	<0.150	0.150	09/28/2023	ND	6.29	105	6.00	0.187	
Total BTX	<0.300	0.300	09/28/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/29/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2023	ND	181	90.4	200	0.384	
DRO >C10-C28*	<10.0	10.0	09/28/2023	ND	190	95.0	200	0.232	
EXT DRO >C28-C36	<10.0	10.0	09/28/2023	ND					

Surrogate: 1-Chlorooctane 70.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.1 % 49.1-148

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Analytical Results For:

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

Received:	09/27/2023	Sampling Date:	09/26/2023
Reported:	10/02/2023	Sampling Type:	Soil
Project Name:	DELAWARE RANCH 13 EH FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	18697	Sample Received By:	Dionica Hinojos
Project Location:	UL/E SEC 13 T26S - R28E		

Sample ID: SW 2 (H235265-21)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/30/2023	ND	1.82	91.2	2.00	7.75		
Toluene*	<0.050	0.050	09/30/2023	ND	1.93	96.3	2.00	6.69		
Ethylbenzene*	<0.050	0.050	09/30/2023	ND	2.04	102	2.00	6.28		
Total Xylenes*	<0.150	0.150	09/30/2023	ND	6.06	101	6.00	6.94		
Total BTEx	<0.300	0.300	09/30/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	09/29/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2023	ND	181	90.4	200	0.384	
DRO >C10-C28*	<10.0	10.0	09/28/2023	ND	190	95.0	200	0.232	
EXT DRO >C28-C36	<10.0	10.0	09/28/2023	ND					

Surrogate: 1-Chlorooctane 69.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/27/2023	Sampling Date:	09/26/2023
Reported:	10/02/2023	Sampling Type:	Soil
Project Name:	DELAWARE RANCH 13 EH FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	18697	Sample Received By:	Dionica Hinojos
Project Location:	UL/E SEC 13 T26S - R28E		

Sample ID: WW 1 (H235265-22)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/30/2023	ND	1.82	91.2	2.00	7.75		
Toluene*	<0.050	0.050	09/30/2023	ND	1.93	96.3	2.00	6.69		
Ethylbenzene*	<0.050	0.050	09/30/2023	ND	2.04	102	2.00	6.28		
Total Xylenes*	<0.150	0.150	09/30/2023	ND	6.06	101	6.00	6.94		
Total BTEx	<0.300	0.300	09/30/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/29/2023	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2023	ND	181	90.4	200	0.384	
DRO >C10-C28*	<10.0	10.0	09/28/2023	ND	190	95.0	200	0.232	
EXT DRO >C28-C36	<10.0	10.0	09/28/2023	ND					

Surrogate: 1-Chlorooctane 61.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 65.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/27/2023	Sampling Date:	09/26/2023
Reported:	10/02/2023	Sampling Type:	Soil
Project Name:	DELAWARE RANCH 13 EH FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	18697	Sample Received By:	Dionica Hinojos
Project Location:	UL/E SEC 13 T26S - R28E		

Sample ID: WW 2 (H235265-23)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/30/2023	ND	1.82	91.2	2.00	7.75		
Toluene*	<0.050	0.050	09/30/2023	ND	1.93	96.3	2.00	6.69		
Ethylbenzene*	<0.050	0.050	09/30/2023	ND	2.04	102	2.00	6.28		
Total Xylenes*	<0.150	0.150	09/30/2023	ND	6.06	101	6.00	6.94		
Total BTEx	<0.300	0.300	09/30/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/29/2023	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2023	ND	181	90.4	200	0.384	
DRO >C10-C28*	<10.0	10.0	09/28/2023	ND	190	95.0	200	0.232	
EXT DRO >C28-C36	<10.0	10.0	09/28/2023	ND					

Surrogate: 1-Chlorooctane 67.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.7 % 49.1-148

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Analytical Results For:

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

Received:	09/27/2023	Sampling Date:	09/26/2023
Reported:	10/02/2023	Sampling Type:	Soil
Project Name:	DELAWARE RANCH 13 EH FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	18697	Sample Received By:	Dionica Hinojos
Project Location:	UL/E SEC 13 T26S - R28E		

Sample ID: WW 3 (H235265-24)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/30/2023	ND	1.82	91.2	2.00	7.75		
Toluene*	<0.050	0.050	09/30/2023	ND	1.93	96.3	2.00	6.69		
Ethylbenzene*	<0.050	0.050	09/30/2023	ND	2.04	102	2.00	6.28		
Total Xylenes*	<0.150	0.150	09/30/2023	ND	6.06	101	6.00	6.94		
Total BTEx	<0.300	0.300	09/30/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	09/28/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2023	ND	181	90.4	200	0.384	
DRO >C10-C28*	<10.0	10.0	09/28/2023	ND	190	95.0	200	0.232	
EXT DRO >C28-C36	<10.0	10.0	09/28/2023	ND					

Surrogate: 1-Chlorooctane 70.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.0 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Etech Environmental				BILL TO				ANALYSIS REQUEST																					
Project Manager: Lance Crenshaw				P.O. #:																									
Address: 2617 W Marland Blvd				Company: Newbourn																									
City: Hobbs State: NM Zip: 88240				Attn: Connot Walker																									
Phone #: 575-396-2378 Fax #: 575-396-1429				Address:																									
Project #: 18697 Project Owner: Mewbourne Oil Company				City: Hobbs																									
Project Name: Delaware Ranch 13 EH Fed Com #1H Flow Line				State: NM Zip: 88240																									
Project Location: UL/ E Sec 13 T26S - R28E				Phone #:																									
Sampler Name: Dominik Casarez				Fax #:																									
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING																					
Lab I.D.		Sample I.D.		(GRAB OR C)OMP.		GROUNDWATER		WASTEWATER		SOIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		DATE		TIME		Chloride		TPH		BTEX 8021	
H2352645				C 1																9-26-23									
1		FL 1 @ 2																											
2		FL 2 @ 2																											
3		FL 3 @ 2																											
4		FL 4 @ 2																											
5		FL 5 @ 1 1/2																											
6		FL 6 @ 1 1/2																											
7		FL 7 @ 1																											
8		FL 8 @ 1																											
9		FL 9 @ 1																											
10		FL 10 @ 1																											

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Relinquished By:		Date: 9/27/23		Received By:		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
		Time: 9:05				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:	
Relinquished By:		Date:		Received By:		REMARKS: Email results to Pm@etecheny.com			
		Time:				* customer added sample date			
Delivered By: (Circle One)		-8.6°C		Sample Condition		CHECKED BY:		8/27/23	
Sampler - UPS - Bus - Other:		#1470		Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>		(Initials)			
				Yes <input type="checkbox"/> No <input type="checkbox"/>					

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 28 of 29

Company Name: Etech Environmental				BILL TO				ANALYSIS REQUEST																							
Project Manager: Lance Crenshaw				P.O. #:																											
Address: 2617 W Marland Blvd				Company: <u>Mewbourn</u>																											
City: Hobbs		State: NM		Zip: 88240		Attn: Connor Walker																									
Phone #: 575-396-2378		Fax #: 575-396-1429		Address: <u>Hobbs</u>		City: <u>Hobbs</u>																									
Project #: 18697		Project Owner: Mewbourne Oil Company		State: <u>NM</u>		Zip: <u>88240</u>																									
Project Name: Delaware Ranch 13 EH Fed Com #11 Flow Line				Phone #:																											
Project Location: UL/E Sec 13 T26S - R28E				Fax #:																											
Sampler Name: <u>Dominic Casarez</u>																															
FOR LAB USE ONLY																															
Lab I.D.		Sample I.D.		MATRIX		PRESERV.		SAMPLING																							
				GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER:		ACID/BASE:		ICE/COOL		OTHER:		DATE		TIME		Chloride		TRH		BTEX 8021	
DC		11 FL1101		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓			
12 FL1201		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓			
13 FL1301		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓			
14 FL1401		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓			
15 FL1501		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓			
16 EW1		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓			
17 EW2		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓			
18 EW3		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓			
19 NW1		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓			
20 SW1		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓			

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Relinquished By: <u>Dominic Casarez</u>		Date: <u>9/27/23</u>		Received By: <u>[Signature]</u>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
Time: <u>9:05</u>						Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:	
Relinquished By:		Date:		Received By:		REMARKS: Email results to Pm@etechenv.com			
Time:						*customer added sample data. 8/27/23			
Delivered By: (Circle One)		-8.60		Sample Condition					
Sampler - UPS - Bus - Other:		#140		Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>		Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>			

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 29 of 29

Company Name: Etech Environmental		BILL TO		ANALYSIS REQUEST																													
Project Manager: Lance Crenshaw		P.O. #:																															
Address: 2617 W Marland Blvd		Company: <u>Mewbourn</u>																															
City: Hobbs State: NM Zip: 88240		Attn: Connor Walker																															
Phone #: 575-396-2378 Fax #: 575-396-1429		Address:																															
Project #: 18697 Project Owner: Mewbourne Oil Company		City: <u>Hobbs</u>																															
Project Name: Delaware Ranch 13 EH Fed Corn #1H Flow Line		State: <u>NM</u> Zip: <u>88240</u>																															
Project Location: UL/E Sec 13 T26S - R28E		Phone #:																															
Sampler Name: <u>Dominic Casarez</u>		Fax #:																															
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING																									
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		SLUDGE		OTHER:		ACID/BASE:		ICE / COOL		OTHER:		DATE		TIME		Chloride		TPH		BTEX 8021	
H235265				C		1																		*SR									
DC 21		SW2																						9-27-23									
22		WW1																															
23		WW2																															
24		WW3																															

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Relinquished By: <u>[Signature]</u>	Date: <u>9/27/23</u>	Received By: <u>[Signature]</u>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: <u>9:05</u>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS: Email results to Pm@etechenv.com	
	Time:		*SR acknowledgment 9-27-23 customer added sample date.	
Delivered By: (Circle One)	-8.6°C	Sample Condition	CHECKED BY: (Initials)	
Sampler - UPS - Bus - Other:	#140	Cool <input type="checkbox"/> Yes <input type="checkbox"/> No Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	<u>[Signature]</u>	

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

October 04, 2023

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: DELAWARE RANCH 13 EH FED COM #1H FLOW LINE

Enclosed are the results of analyses for samples received by the laboratory on 09/28/23 16:28.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/28/2023	Sampling Date:	09/28/2023
Reported:	10/04/2023	Sampling Type:	Soil
Project Name:	DELAWARE RANCH 13 EH FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	18697	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE UL/E SEC13 T26S - R28E		

Sample ID: FL 16 @ 1.5 (H235318-01)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/30/2023	ND	2.15	108	2.00	3.88	QM-07	
Toluene*	<0.050	0.050	09/30/2023	ND	2.23	111	2.00	4.14		
Ethylbenzene*	<0.050	0.050	09/30/2023	ND	2.26	113	2.00	4.78		
Total Xylenes*	<0.150	0.150	09/30/2023	ND	6.26	104	6.00	4.21		
Total BTX	<0.300	0.300	09/30/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	10/02/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/29/2023	ND	176	87.8	200	3.12	
DRO >C10-C28*	<10.0	10.0	09/29/2023	ND	163	81.5	200	2.35	
EXT DRO >C28-C36	<10.0	10.0	09/29/2023	ND					

Surrogate: 1-Chlorooctane 86.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.5 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/28/2023	Sampling Date:	09/28/2023
Reported:	10/04/2023	Sampling Type:	Soil
Project Name:	DELAWARE RANCH 13 EH FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	18697	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE UL/E SEC13 T26S - R28E		

Sample ID: FL 17 @ 1.5 (H235318-02)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/30/2023	ND	2.15	108	2.00	3.88		
Toluene*	<0.050	0.050	09/30/2023	ND	2.23	111	2.00	4.14		
Ethylbenzene*	<0.050	0.050	09/30/2023	ND	2.26	113	2.00	4.78		
Total Xylenes*	<0.150	0.150	09/30/2023	ND	6.26	104	6.00	4.21		
Total BTX	<0.300	0.300	09/30/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	10/02/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/29/2023	ND	176	87.8	200	3.12	
DRO >C10-C28*	<10.0	10.0	09/29/2023	ND	163	81.5	200	2.35	
EXT DRO >C28-C36	<10.0	10.0	09/29/2023	ND					

Surrogate: 1-Chlorooctane 86.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.4 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/28/2023	Sampling Date:	09/28/2023
Reported:	10/04/2023	Sampling Type:	Soil
Project Name:	DELAWARE RANCH 13 EH FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	18697	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE UL/E SEC13 T26S - R28E		

Sample ID: FL 19 @ 1.5 (H235318-03)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/30/2023	ND	2.15	108	2.00	3.88		
Toluene*	<0.050	0.050	09/30/2023	ND	2.23	111	2.00	4.14		
Ethylbenzene*	<0.050	0.050	09/30/2023	ND	2.26	113	2.00	4.78		
Total Xylenes*	<0.150	0.150	09/30/2023	ND	6.26	104	6.00	4.21		
Total BTX	<0.300	0.300	09/30/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	10/02/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/29/2023	ND	176	87.8	200	3.12	
DRO >C10-C28*	<10.0	10.0	09/29/2023	ND	163	81.5	200	2.35	
EXT DRO >C28-C36	<10.0	10.0	09/29/2023	ND					

Surrogate: 1-Chlorooctane 82.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/28/2023	Sampling Date:	09/28/2023
Reported:	10/04/2023	Sampling Type:	Soil
Project Name:	DELAWARE RANCH 13 EH FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	18697	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE UL/E SEC13 T26S - R28E		

Sample ID: FL 20 @ 1.5 (H235318-04)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/30/2023	ND	2.15	108	2.00	3.88		
Toluene*	<0.050	0.050	09/30/2023	ND	2.23	111	2.00	4.14		
Ethylbenzene*	<0.050	0.050	09/30/2023	ND	2.26	113	2.00	4.78		
Total Xylenes*	<0.150	0.150	09/30/2023	ND	6.26	104	6.00	4.21		
Total BTX	<0.300	0.300	09/30/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	10/02/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/29/2023	ND	189	94.7	200	1.85	
DRO >C10-C28*	<10.0	10.0	09/29/2023	ND	217	109	200	2.69	
EXT DRO >C28-C36	<10.0	10.0	09/29/2023	ND					

Surrogate: 1-Chlorooctane 90.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Analytical Results For:

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

Received:	09/28/2023	Sampling Date:	09/28/2023
Reported:	10/04/2023	Sampling Type:	Soil
Project Name:	DELAWARE RANCH 13 EH FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	18697	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE UL/E SEC13 T26S - R28E		

Sample ID: FL 21 @ 1.5 (H235318-05)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/30/2023	ND	2.15	108	2.00	3.88		
Toluene*	<0.050	0.050	09/30/2023	ND	2.23	111	2.00	4.14		
Ethylbenzene*	<0.050	0.050	09/30/2023	ND	2.26	113	2.00	4.78		
Total Xylenes*	<0.150	0.150	09/30/2023	ND	6.26	104	6.00	4.21		
Total BTX	<0.300	0.300	09/30/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/02/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/29/2023	ND	189	94.7	200	1.85	
DRO >C10-C28*	<10.0	10.0	09/29/2023	ND	217	109	200	2.69	
EXT DRO >C28-C36	<10.0	10.0	09/29/2023	ND					

Surrogate: 1-Chlorooctane 81.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.7 % 49.1-148

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Analytical Results For:

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 2617 W MARLAND
 HOBBS NM, 88240
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Received:	09/28/2023	Sampling Date:	09/28/2023
Reported:	10/04/2023	Sampling Type:	Soil
Project Name:	DELAWARE RANCH 13 EH FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	18697	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE UL/E SEC13 T26S - R28E		

Sample ID: FL 22 @ 1.5 (H235318-06)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/30/2023	ND	2.15	108	2.00	3.88		
Toluene*	<0.050	0.050	09/30/2023	ND	2.23	111	2.00	4.14		
Ethylbenzene*	<0.050	0.050	09/30/2023	ND	2.26	113	2.00	4.78		
Total Xylenes*	<0.150	0.150	09/30/2023	ND	6.26	104	6.00	4.21		
Total BTX	<0.300	0.300	09/30/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	10/02/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/29/2023	ND	189	94.7	200	1.85	
DRO >C10-C28*	<10.0	10.0	09/29/2023	ND	217	109	200	2.69	
EXT DRO >C28-C36	<10.0	10.0	09/29/2023	ND					

Surrogate: 1-Chlorooctane 90.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Analytical Results For:

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Received:	09/28/2023	Sampling Date:	09/28/2023
Reported:	10/04/2023	Sampling Type:	Soil
Project Name:	DELAWARE RANCH 13 EH FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	18697	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE UL/E SEC13 T26S - R28E		

Sample ID: FL 23 @ 1.5 (H235318-07)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/30/2023	ND	2.15	108	2.00	3.88		
Toluene*	<0.050	0.050	09/30/2023	ND	2.23	111	2.00	4.14		
Ethylbenzene*	<0.050	0.050	09/30/2023	ND	2.26	113	2.00	4.78		
Total Xylenes*	<0.150	0.150	09/30/2023	ND	6.26	104	6.00	4.21		
Total BTEX	<0.300	0.300	09/30/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	10/02/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/29/2023	ND	189	94.7	200	1.85	
DRO >C10-C28*	<10.0	10.0	09/29/2023	ND	217	109	200	2.69	
EXT DRO >C28-C36	<10.0	10.0	09/29/2023	ND					

Surrogate: 1-Chlorooctane 94.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Analytical Results For:

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Received:	09/28/2023	Sampling Date:	09/28/2023
Reported:	10/04/2023	Sampling Type:	Soil
Project Name:	DELAWARE RANCH 13 EH FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	18697	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE UL/E SEC13 T26S - R28E		

Sample ID: FL 24 @ 1.5 (H235318-08)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/30/2023	ND	2.15	108	2.00	3.88	
Toluene*	<0.050	0.050	09/30/2023	ND	2.23	111	2.00	4.14	
Ethylbenzene*	<0.050	0.050	09/30/2023	ND	2.26	113	2.00	4.78	
Total Xylenes*	<0.150	0.150	09/30/2023	ND	6.26	104	6.00	4.21	
Total BTX	<0.300	0.300	09/30/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/02/2023	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/29/2023	ND	189	94.7	200	1.85	
DRO >C10-C28*	<10.0	10.0	09/29/2023	ND	217	109	200	2.69	
EXT DRO >C28-C36	<10.0	10.0	09/29/2023	ND					

Surrogate: 1-Chlorooctane 84.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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Received:	09/28/2023	Sampling Date:	09/28/2023
Reported:	10/04/2023	Sampling Type:	Soil
Project Name:	DELAWARE RANCH 13 EH FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	18697	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE UL/E SEC13 T26S - R28E		

Sample ID: FL 25 @ 1.5 (H235318-09)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/30/2023	ND	2.15	108	2.00	3.88	
Toluene*	<0.050	0.050	09/30/2023	ND	2.23	111	2.00	4.14	
Ethylbenzene*	<0.050	0.050	09/30/2023	ND	2.26	113	2.00	4.78	
Total Xylenes*	<0.150	0.150	09/30/2023	ND	6.26	104	6.00	4.21	
Total BTX	<0.300	0.300	09/30/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	10/02/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/29/2023	ND	189	94.7	200	1.85	
DRO >C10-C28*	<10.0	10.0	09/29/2023	ND	217	109	200	2.69	
EXT DRO >C28-C36	<10.0	10.0	09/29/2023	ND					

Surrogate: 1-Chlorooctane 93.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Analytical Results For:

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 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	09/28/2023	Sampling Date:	09/28/2023
Reported:	10/04/2023	Sampling Type:	Soil
Project Name:	DELAWARE RANCH 13 EH FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	18697	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE UL/E SEC13 T26S - R28E		

Sample ID: FL 26 @ 1.5 (H235318-10)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/30/2023	ND	2.15	108	2.00	3.88	
Toluene*	<0.050	0.050	09/30/2023	ND	2.23	111	2.00	4.14	
Ethylbenzene*	<0.050	0.050	09/30/2023	ND	2.26	113	2.00	4.78	
Total Xylenes*	<0.150	0.150	09/30/2023	ND	6.26	104	6.00	4.21	
Total BTX	<0.300	0.300	09/30/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	10/02/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/29/2023	ND	189	94.7	200	1.85	
DRO >C10-C28*	<10.0	10.0	09/29/2023	ND	217	109	200	2.69	
EXT DRO >C28-C36	<10.0	10.0	09/29/2023	ND					

Surrogate: 1-Chlorooctane 87.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.9 % 49.1-148

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Analytical Results For:

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 HOBBS NM, 88240
 Fax To:

Received:	09/28/2023	Sampling Date:	09/28/2023
Reported:	10/04/2023	Sampling Type:	Soil
Project Name:	DELAWARE RANCH 13 EH FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	18697	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE UL/E SEC13 T26S - R28E		

Sample ID: FL 27 @ 1.5 (H235318-11)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/30/2023	ND	2.15	108	2.00	3.88		
Toluene*	<0.050	0.050	09/30/2023	ND	2.23	111	2.00	4.14		
Ethylbenzene*	<0.050	0.050	09/30/2023	ND	2.26	113	2.00	4.78		
Total Xylenes*	<0.150	0.150	09/30/2023	ND	6.26	104	6.00	4.21		
Total BTX	<0.300	0.300	09/30/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	10/02/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/29/2023	ND	189	94.7	200	1.85	
DRO >C10-C28*	<10.0	10.0	09/29/2023	ND	217	109	200	2.69	
EXT DRO >C28-C36	<10.0	10.0	09/29/2023	ND					

Surrogate: 1-Chlorooctane 88.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Analytical Results For:

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 HOBBS NM, 88240
 Fax To:

Received:	09/28/2023	Sampling Date:	09/28/2023
Reported:	10/04/2023	Sampling Type:	Soil
Project Name:	DELAWARE RANCH 13 EH FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	18697	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE UL/E SEC13 T26S - R28E		

Sample ID: FL 28 @ 1.5 (H235318-12)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/30/2023	ND	2.15	108	2.00	3.88		
Toluene*	<0.050	0.050	09/30/2023	ND	2.23	111	2.00	4.14		
Ethylbenzene*	<0.050	0.050	09/30/2023	ND	2.26	113	2.00	4.78		
Total Xylenes*	<0.150	0.150	09/30/2023	ND	6.26	104	6.00	4.21		
Total BTX	<0.300	0.300	09/30/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	10/02/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/29/2023	ND	189	94.7	200	1.85	
DRO >C10-C28*	<10.0	10.0	09/29/2023	ND	217	109	200	2.69	
EXT DRO >C28-C36	<10.0	10.0	09/29/2023	ND					

Surrogate: 1-Chlorooctane 91.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Analytical Results For:

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 Fax To:

Received:	09/28/2023	Sampling Date:	09/28/2023
Reported:	10/04/2023	Sampling Type:	Soil
Project Name:	DELAWARE RANCH 13 EH FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	18697	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE UL/E SEC13 T26S - R28E		

Sample ID: FL 29 @ 1 (H235318-13)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/01/2023	ND	2.07	103	2.00	6.42	
Toluene*	<0.050	0.050	10/01/2023	ND	2.17	109	2.00	6.80	
Ethylbenzene*	<0.050	0.050	10/01/2023	ND	2.17	108	2.00	8.26	
Total Xylenes*	<0.150	0.150	10/01/2023	ND	5.93	98.9	6.00	8.99	
Total BTEx	<0.300	0.300	10/01/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	10/02/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/29/2023	ND	189	94.7	200	1.85	
DRO >C10-C28*	<10.0	10.0	09/29/2023	ND	217	109	200	2.69	
EXT DRO >C28-C36	<10.0	10.0	09/29/2023	ND					

Surrogate: 1-Chlorooctane 97.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/28/2023	Sampling Date:	09/28/2023
Reported:	10/04/2023	Sampling Type:	Soil
Project Name:	DELAWARE RANCH 13 EH FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	18697	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE UL/E SEC13 T26S - R28E		

Sample ID: FL 30 @ 1 (H235318-14)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/01/2023	ND	2.07	103	2.00	6.42		
Toluene*	<0.050	0.050	10/01/2023	ND	2.17	109	2.00	6.80		
Ethylbenzene*	<0.050	0.050	10/01/2023	ND	2.17	108	2.00	8.26		
Total Xylenes*	<0.150	0.150	10/01/2023	ND	5.93	98.9	6.00	8.99		
Total BTEX	<0.300	0.300	10/01/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	10/02/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/29/2023	ND	189	94.7	200	1.85		
DRO >C10-C28*	<10.0	10.0	09/29/2023	ND	217	109	200	2.69		
EXT DRO >C28-C36	<10.0	10.0	09/29/2023	ND						

Surrogate: 1-Chlorooctane 97.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/28/2023	Sampling Date:	09/28/2023
Reported:	10/04/2023	Sampling Type:	Soil
Project Name:	DELAWARE RANCH 13 EH FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	18697	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE UL/E SEC13 T26S - R28E		

Sample ID: FL 31 @ 1 (H235318-15)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/01/2023	ND	2.07	103	2.00	6.42		
Toluene*	<0.050	0.050	10/01/2023	ND	2.17	109	2.00	6.80		
Ethylbenzene*	<0.050	0.050	10/01/2023	ND	2.17	108	2.00	8.26		
Total Xylenes*	<0.150	0.150	10/01/2023	ND	5.93	98.9	6.00	8.99		
Total BTEx	<0.300	0.300	10/01/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	10/02/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/29/2023	ND	189	94.7	200	1.85	
DRO >C10-C28*	<10.0	10.0	09/29/2023	ND	217	109	200	2.69	
EXT DRO >C28-C36	<10.0	10.0	09/29/2023	ND					

Surrogate: 1-Chlorooctane 90.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/28/2023	Sampling Date:	09/28/2023
Reported:	10/04/2023	Sampling Type:	Soil
Project Name:	DELAWARE RANCH 13 EH FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	18697	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE UL/E SEC13 T26S - R28E		

Sample ID: FL 32 @ 1 (H235318-16)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/01/2023	ND	2.07	103	2.00	6.42		
Toluene*	<0.050	0.050	10/01/2023	ND	2.17	109	2.00	6.80		
Ethylbenzene*	<0.050	0.050	10/01/2023	ND	2.17	108	2.00	8.26		
Total Xylenes*	<0.150	0.150	10/01/2023	ND	5.93	98.9	6.00	8.99		
Total BTEx	<0.300	0.300	10/01/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	10/02/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/29/2023	ND	189	94.7	200	1.85	
DRO >C10-C28*	<10.0	10.0	09/29/2023	ND	217	109	200	2.69	
EXT DRO >C28-C36	<10.0	10.0	09/29/2023	ND					

Surrogate: 1-Chlorooctane 85.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/28/2023	Sampling Date:	09/28/2023
Reported:	10/04/2023	Sampling Type:	Soil
Project Name:	DELAWARE RANCH 13 EH FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	18697	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE UL/E SEC13 T26S - R28E		

Sample ID: FL 33 @ 1 (H235318-17)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/01/2023	ND	2.07	103	2.00	6.42		
Toluene*	<0.050	0.050	10/01/2023	ND	2.17	109	2.00	6.80		
Ethylbenzene*	<0.050	0.050	10/01/2023	ND	2.17	108	2.00	8.26		
Total Xylenes*	<0.150	0.150	10/01/2023	ND	5.93	98.9	6.00	8.99		
Total BTEx	<0.300	0.300	10/01/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	10/02/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/29/2023	ND	189	94.7	200	1.85	
DRO >C10-C28*	<10.0	10.0	09/29/2023	ND	217	109	200	2.69	
EXT DRO >C28-C36	<10.0	10.0	09/29/2023	ND					

Surrogate: 1-Chlorooctane 82.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/28/2023	Sampling Date:	09/28/2023
Reported:	10/04/2023	Sampling Type:	Soil
Project Name:	DELAWARE RANCH 13 EH FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	18697	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE UL/E SEC13 T26S - R28E		

Sample ID: FL 34 @ 1 (H235318-18)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/01/2023	ND	2.07	103	2.00	6.42		
Toluene*	<0.050	0.050	10/01/2023	ND	2.17	109	2.00	6.80		
Ethylbenzene*	<0.050	0.050	10/01/2023	ND	2.17	108	2.00	8.26		
Total Xylenes*	<0.150	0.150	10/01/2023	ND	5.93	98.9	6.00	8.99		
Total BTEx	<0.300	0.300	10/01/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	10/02/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/29/2023	ND	189	94.7	200	1.85	
DRO >C10-C28*	<10.0	10.0	09/29/2023	ND	217	109	200	2.69	
EXT DRO >C28-C36	<10.0	10.0	09/29/2023	ND					

Surrogate: 1-Chlorooctane 75.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/28/2023	Sampling Date:	09/28/2023
Reported:	10/04/2023	Sampling Type:	Soil
Project Name:	DELAWARE RANCH 13 EH FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	18697	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE UL/E SEC13 T26S - R28E		

Sample ID: FL 35 @ 1 (H235318-19)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/01/2023	ND	2.07	103	2.00	6.42	
Toluene*	<0.050	0.050	10/01/2023	ND	2.17	109	2.00	6.80	
Ethylbenzene*	<0.050	0.050	10/01/2023	ND	2.17	108	2.00	8.26	
Total Xylenes*	<0.150	0.150	10/01/2023	ND	5.93	98.9	6.00	8.99	
Total BTEx	<0.300	0.300	10/01/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/02/2023	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/29/2023	ND	189	94.7	200	1.85	
DRO >C10-C28*	<10.0	10.0	09/29/2023	ND	217	109	200	2.69	
EXT DRO >C28-C36	<10.0	10.0	09/29/2023	ND					

Surrogate: 1-Chlorooctane 78.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/28/2023	Sampling Date:	09/28/2023
Reported:	10/04/2023	Sampling Type:	Soil
Project Name:	DELAWARE RANCH 13 EH FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	18697	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE UL/E SEC13 T26S - R28E		

Sample ID: FL 18 @ 1.5 (H235318-20)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/01/2023	ND	2.07	103	2.00	6.42		
Toluene*	<0.050	0.050	10/01/2023	ND	2.17	109	2.00	6.80		
Ethylbenzene*	<0.050	0.050	10/01/2023	ND	2.17	108	2.00	8.26		
Total Xylenes*	<0.150	0.150	10/01/2023	ND	5.93	98.9	6.00	8.99		
Total BTEx	<0.300	0.300	10/01/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	10/02/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/29/2023	ND	189	94.7	200	1.85	
DRO >C10-C28*	<10.0	10.0	09/29/2023	ND	217	109	200	2.69	
EXT DRO >C28-C36	<10.0	10.0	09/29/2023	ND					

Surrogate: 1-Chlorooctane 86.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental		BILL TO		ANALYSIS REQUEST																
Project Manager: Lance Crenshaw		P.O. #:																		
Address: 2617 W Marland Blvd		Company: <i>Mewbourn</i>																		
City: Hobbs	State: NM	Zip: 88240	Attn: Connor Walker																	
Phone #: 575-396-2378	Fax #: 575-396-1429	Address:																		
Project #: 18697	Project Owner: Mewbourne Oil Company		City: <i>Hobbs</i>																	
Project Name: Delaware Ranch 13 EH Fed Corn #1H Flow Line		State: <i>NM</i> Zip: <i>88240</i>																		
Project Location: UL/E Sec 13 T26S - R28E		Phone #:																		
Sampler Name: <i>Dominic Casarez</i>		Fax #:																		
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING												
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	Chloride	TPH	BTEX 8021				
DC	1 FL16 @ 1 1/2	C	1									9	28							
	2 FL17 @ 1 1/2																			
	3 FL19 @ 1 1/2																			
	4 FL20 @ 1 1/2																			
	5 FL21 @ 1 1/2																			
	6 FL22 @ 1 1/2																			
	7 FL23 @ 1 1/2																			
	8 FL24 @ 1 1/2																			
	9 FL25 @ 1 1/2																			
	10 FL26 @ 1 1/2																			

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>[Signature]</i>	Date: <i>9-28</i>	Received By: <i>[Signature]</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Date:	Received By:	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One)		Sample Condition	CHECKED BY: (Initials)	
Sampler - UPS - Bus - Other: <i>-9.7c</i>		Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>	<i>Y-0</i>	
		<input type="checkbox"/> Yes <input type="checkbox"/> No		

REMARKS: Email results to Pm@etechenv.com

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476
FORM-006 R.2.0



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental				BILL TO				ANALYSIS REQUEST																									
Project Manager: Lance Crenshaw				P.O. #:																													
Address: 2617 W Marland Blvd				Company: Mewbourn																													
City: Hobbs		State: NM		Zip: 88240		Attn: Connor Walker																											
Phone #: 575-396-2378		Fax #: 575-396-1429		Address:																													
Project #: 18697		Project Owner: Mewbourne Oil Company		City: Hobbs																													
Project Name: Delaware Ranch 13 EH Fed Com #1H Flow Line				State: NM Zip: 88240																													
Project Location: UL/E Sec 13 T26S - R28E				Phone #:																													
Sampler Name: Dominic Casarez				Fax #:																													
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING																									
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME		Chloride		TPH		BTEX 8021	
H235318																																	
DC 11		FL 27 @ 1 1/2		C 1																													
12		FL 28 @ 1 1/2																															
13		FL 29 @ 1																															
14		FL 30 @ 1																															
15		FL 31 @ 1																															
16		FL 32 @ 1																															
17		FL 33 @ 1																															
18		FL 34 @ 1																															
19		FL 35 @ 1																															
20		FL 18 @ 1 1/2																															

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: 9-28 Time: 16:28	Received By: 	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #: Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS: Email results to Pm@etechenv.com	
Delivered By: (Circle One) Sampler - UPS - Bus - Other: - 9.7c	Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> <input type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials) 		

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476
FORM-006 R 2.0

Appendix E

Regulatory Correspondence

From: [Rodgers, Scott, EMNRD](#)
To: [Tamarah Kendrick](#); [Hamlet, Robert, EMNRD](#); [Bratcher, Michael, EMNRD](#)
Cc: [Ben Arguijo](#); [Lance Crenshaw](#)
Subject: RE: [EXTERNAL] Sampling Notification - Mewbourne - nAPP2325659451 - Delaware Ranch 13 EH Fed Com #1H Flow Line
Date: Monday, September 25, 2023 12:07:09 PM
Attachments: [image003.png](#)

Some people who received this message don't often get email from scott.rodgers@emnrd.nm.gov. [Learn why this is important](#)

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Scott Rodgers • Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
8801 Horizon Blvd. NE, Suite 260 | Albuquerque, NM 87113
505.469.1830 | scott.rodgers@emnrd.nm.gov
<http://www.emnrd.nm.gov/oed>



From: Tamarah Kendrick <tamarah@etechenv.com>
Sent: Monday, September 25, 2023 10:02 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Ben Arguijo <bena@etechenv.com>; Lance Crenshaw <lance@etechenv.com>
Subject: [EXTERNAL] Sampling Notification - Mewbourne - nAPP2325659451 - Delaware Ranch 13 EH Fed Com #1H Flow Line

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

This email serves as notice Etech intends to conduct confirmation soil sampling for the following reportable release site beginning 09/28/2023.

nAPP2325659451 - Delaware Ranch 13 EH Fed Com #1H Flow Line

If you have any questions or need any additional information, please feel free to contact Lance Crenshaw by phone or email.

Lance Crenshaw
Etech Environmental

Phone 575-631-1064

lance@etechenv.com

Tamarah Kendrick

Project Coordinator

ETech - Environmental and Safety Solutions

2617 W. Marland Blvd

Hobbs, NM 88240



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

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

CONDITIONS

Action 275355

CONDITIONS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 275355
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your Remediation Closure Report for Incident #NAPP2325659451 DELAWARE RANCH 13 EH FED COM #1H, thank you. This Remediation Closure Report is approved. A report for reclamation and revegetation including pictures of the contoured backfilled excavation surface and a thorough discussion on reseeding mixture, vegetation ratio, timelines, etc., will need to be submitted and approved prior to this incident receiving the final status of "Restoration Complete".	2/21/2024