

Remediation Summary & Soil Closure Request

Mewbourne Oil Company Caper/Lox Battery

Lea County, New Mexico

Unit Letter "L", Section 17, Township 21 South, Range 32 East

Latitude 32.472873° North, Longitude 103.704136° West

NMOCD Reference No. nAPP2504558538


Prepared By:

Etech Environmental & Safety Solutions, Inc.

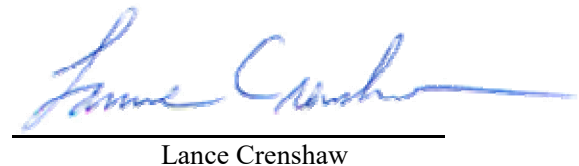
6309 Indiana Ave, Ste. D

Lubbock, Texas 79413

April 9, 2025



Ben J. Arguijo



Lance Crenshaw



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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 Caper/Lox Battery (henceforth, "Site"). Details of the release are summarized below:

Location of Release Source

Latitude: 32.472873° Longitude: -103.704136°

Provided GPS are in WGS84 format.

Site Name:Caper/Lox BatterySite Type:Separator

Date Release Discovered:1/16/2025API # (if applicable):N/A

Unit Letter	Section	Township	Range	County
"L"	17	21S	32E	Lea

Surface Owner:

☐ State☒ Federal☐ Tribal☐ Private

(Name)

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)13	Volume Recovered (bbls)0
	Is the concentration of dissolved chloride in the produced water > 10,000 mg/L?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released	Volume/Weight Recovered

Cause of Release:

Equipment failure

Initial Response

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

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

2.0 SITE CHARACTERIZATION

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (bgs)?	Between 100 and 500 (ft.)
What method was used to determine the depth to groundwater?	Direct Measurement
Did the release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
What is the minimum distance between the closest lateral extents of the release and the following surface areas?	
A continuously flowing watercourse or any other significant watercourse?	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution or church?	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	Between 1 and 5 (mi.)
Any other fresh water well or spring?	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field?	Greater than 5 (mi.)
A wetland?	Between 1 and 5 (mi.)
A subsurface mine?	Between 1 and 5 (mi.)
A (non-karst) unstable area?	Between 1 and 5 (mi.)
Categorize the risk of this well/site being in a karst geology.	Low
A 100-year floodplain?	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

3.0 CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE

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

Probable Depth to Groundwater	Constituent	Laboratory Analytical Method	Closure Criteria**†	Reclamation Standards*‡
Between 100 and 500 (ft.)	Chloride (Cl-)	EPA** 300.0 or SM4500 Cl B	20,000	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)

** Environmental Protection Agency

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

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

4.0 REMEDIATION ACTIVITIES SUMMARY

Requesting a remediation plan approval with this submission?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Have the lateral and vertical extents of contamination been fully delineated?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Was this release entirely contained within a lined containment area?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
On what estimated date will (or did) the remediation commence?	2/20/2025
On what date will (or did) the final sampling or liner inspection occur?	2/21/2025
On what date will (or was) the remediation complete(d)?	4/1/2025
What is the total surface area (sq. ft.) in need of or that will <i>eventually</i> be reclaimed?	4,007
What is the total volume (cy) in need of or that will <i>eventually</i> be reclaimed?	188
What was the total surface area (sq. ft.) that has or will be remediated?	4,007
What was the total volume (cy) that has or will be remediated?	100
This remediation utilized the following processes to remediate/reduce contaminants: (Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
(In Situ) Soil Vapor Extraction	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
(In Situ) Biological processing (i.e. Microbes/Fertilizer, etc.)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Ground Water Abatement pursuant to 19.15.30 NMAC	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Other (Non-listed remedial process)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Which OCD approved facility was or will be used for off-site disposal?	Lea Land, Inc.
NMOCD Disposal Facility ID?	FEEM0112342028
Summarize any additional remediation activities not included by answers above.	See below

On February 20, 2025, Etech commenced remediation activities at the Site. In accordance with NMOCD regulatory guidelines, impacted soil affected above the NMOCD Closure Criteria was excavated and stockpiled on-site, pending transfer to an NMOCD-permitted surface waste facility for disposal. Olfactory/visual senses and/or a chloride test kit were utilized to field-screen the horizontal and vertical extent of impacted soil and to guide the excavation. The sidewalls and floor of the excavation were advanced until field tests and field observations suggested that BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria. Representative five-point composite confirmation soil samples representing no more than 200 square feet were collected from the floor and sidewalls of the excavated area to be submitted for laboratory analysis. A summary of soil sampling events is provided below:

Constituent	Highest Observed Concentration (mg/kg)	Sample ID	Sample Date	Sample Depth (ft bgs)	Soil Status
Chloride	1,330	FL 1 @ 1'	2/21/2025	1	In-Situ
TPH	6,600	TT @ Surf	2/21/2025	0	Excavated
GRO+DRO	5,340	TT @ Surf	2/21/2025	0	Excavated
BTEX	66.2	TT @ Surf	2/21/2025	0	Excavated
Benzene	3.02	TT @ Surf	2/21/2025	0	Excavated

Please reference Table 1 for additional information.

On February 21, 2025, Etech advanced a test trench (TT) within the inferred margins of the release in an effort to determine the vertical extent of impacted soil. The trench was advanced to a total depth of one (1) foot bgs. During the advancement of the trench, soil samples were collected and field-screened for the presence of Volatile Organic Compounds (VOCs) utilizing olfactory/visual senses and/or concentrations of chloride utilizing a Hach Quantab ® chloride test kit.

Based on field observations and field test data, two (2) delineation soil samples (TT @ Surf and TT @ 1') were submitted to a certified, commercial laboratory (henceforth, "the laboratory") for analysis of BTEX, TPH, and chloride. A review of laboratory analytical results indicated that BTEX, TPH, and chloride concentrations in soil sample TT @ 1' were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards, and the vertical extent of impacted soil was adequately defined.

On February 21, 2025, Etech also collected 23 confirmation soil samples (FL 1 @ 1' through FL 19 @ 3", NW 1, EW 1, SW 1, and WW 1) from the floor and sidewalls of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standards in each of the submitted soil samples.

On April 1, 2025, Etech returned to the Site to further investigate the vertical extent of impacted soil. A hand-augered soil boring (HA) was advanced in the area characterized by sample point FL 1 to ensure that vertical delineation to the NMOCD Reclamation Standards of 100 mg/kg TPH and 600 mg/kg chloride had been achieved. The soil boring was advanced to a total depth of two (2) feet bgs. During the advancement of the soil boring, soil samples were collected and field-screened for the presence of VOCs utilizing olfactory/visual senses and/or concentrations of chloride utilizing a chloride test kit.

Based on field observations and field test data, two (2) delineation soil samples (HA @ 1' and HA @ 2') were submitted to the laboratory for analysis of BTEX, TPH, and chloride. A review of 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, and the vertical extent of impacted soil was adequately defined.

The final dimensions of the excavated area were approximately 15 to 71 feet in length, 15 to 55 feet in width, and three (3) inches to one (1) foot in depth. During the course of remediation activities, Etech transported approximately 100 cubic yards of impacted soil to an NMOCD-permitted surface waste facility for disposal and imported approximately 100 cubic yards of locally sourced, non-impacted material to the Site for use as backfill.

The extent of the excavated area, as well as the locations of the test trench, hand-augered soil boring, and confirmation soil samples, are depicted in Figure 3, "Sample Location Map". Soil chemistry data is summarized in Table 1. Field data is provided in Appendix B. General photographs of the Site are provided in Appendix C. Laboratory analytical reports are provided in Appendix D. Copies of all regulatory correspondence are provided in Appendix E.

5.0 SOIL CLOSURE REQUEST

Requesting a deferral of remediation closure due date with the approval of this submission?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Requesting a remediation closure approval with this submission?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Have the lateral and vertical extents of contamination been fully delineated?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Was this release entirely contained within a lined containment area?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the site's existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion.	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
What was the total surface area (sq. ft.) remediated?	4,007	
What was the total volume (cy) remediated?	100	

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

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

6.0 RESTORATION, RECLAMATION & RE-VEGETATION PLAN

From February 25 through 27, 2025, upon receiving laboratory analytical results from confirmation soil samples, the excavated area was backfilled with locally sourced, non-impacted "like" material placed at or near original relative positions. The affected areas were contoured and/or compacted to achieve erosion control, stability and preservation of surface water flow to the extent practicable.

All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste containing earthen material with concentrations of less than 600 mg/kg chloride, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg benzene?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Requesting a reclamation approval with this submission?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Requesting a restoration complete approval with this submission?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
What was the total surface area (in square feet) reclaimed?	0	
What was the total volume (in cubic yards) reclaimed?	0	

The release was limited to the production pad of an active tank battery, with no impact to the adjacent pasture. Final restoration, reclamation, and revegetation will be conducted upon decommissioning and abandonment of the facility. The reclaimed area will be revegetated during the first favorable growing season following closure of the location with an agency and/or landowner-approved seed mix that has been certified to be free of noxious weeds. The seed will be installed at the prescribed rate utilizing either a seed drill or a broadcaster and harrow.

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 1

1220 South St. Francis Drive

Santa Fe, NM 87505

United States Department of the Interior

Bureau of Land Management

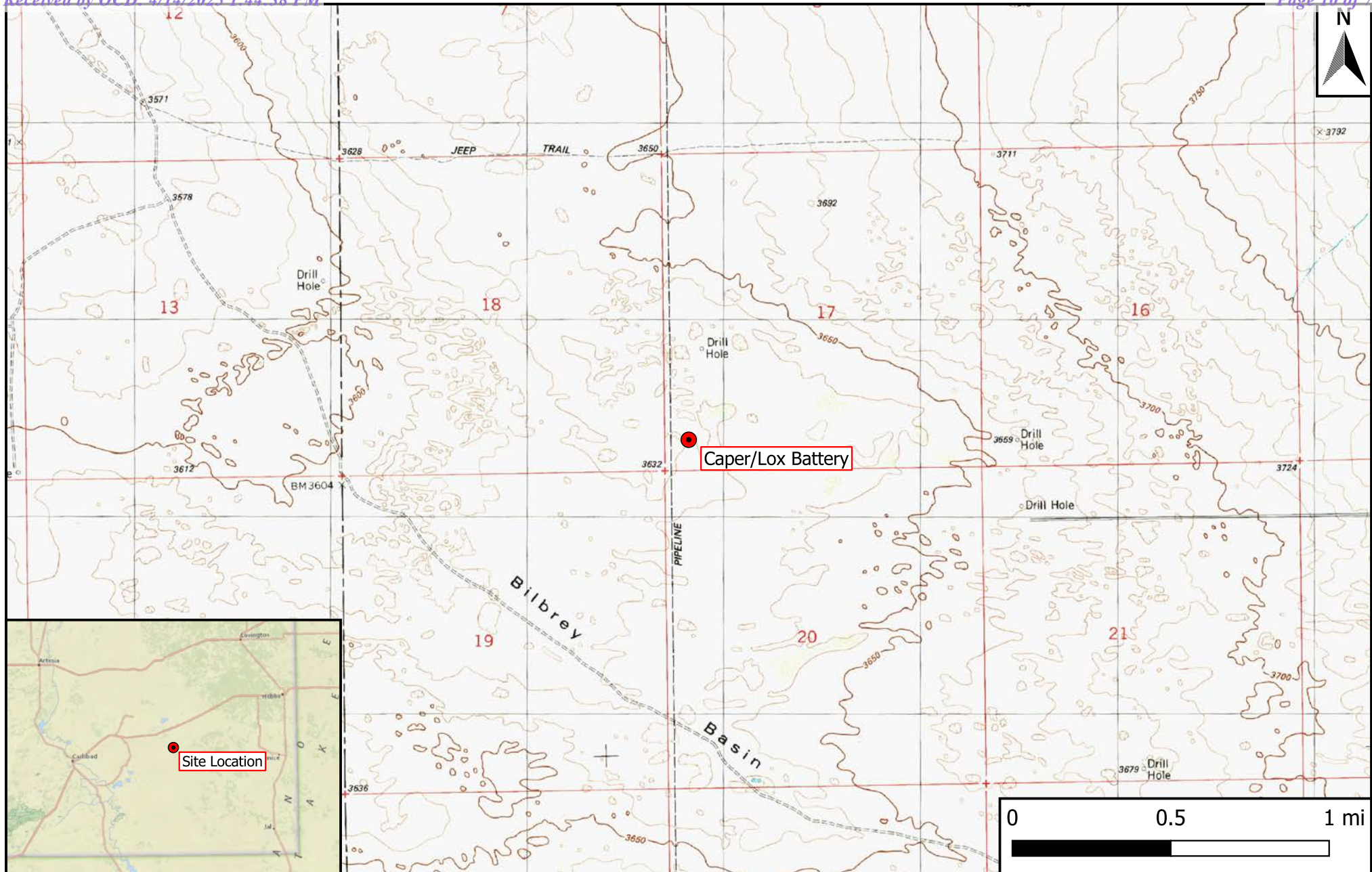
620 E. Greene Street

Carlsbad, NM 88220

(Electronic Submission)

Figure 1

Site Location Map



Legend

- Site Location

Figure 1
 Site Location Map
 Mewbourne Oil Company
 Caper/Lox Battery
 GPS: 32.472873, -103.704136
 Lea County, New Mexico



Drafted: mag

Checked: rlc

Date: 2025-01-22

Figures 2A & 2B

Site Characterization Maps

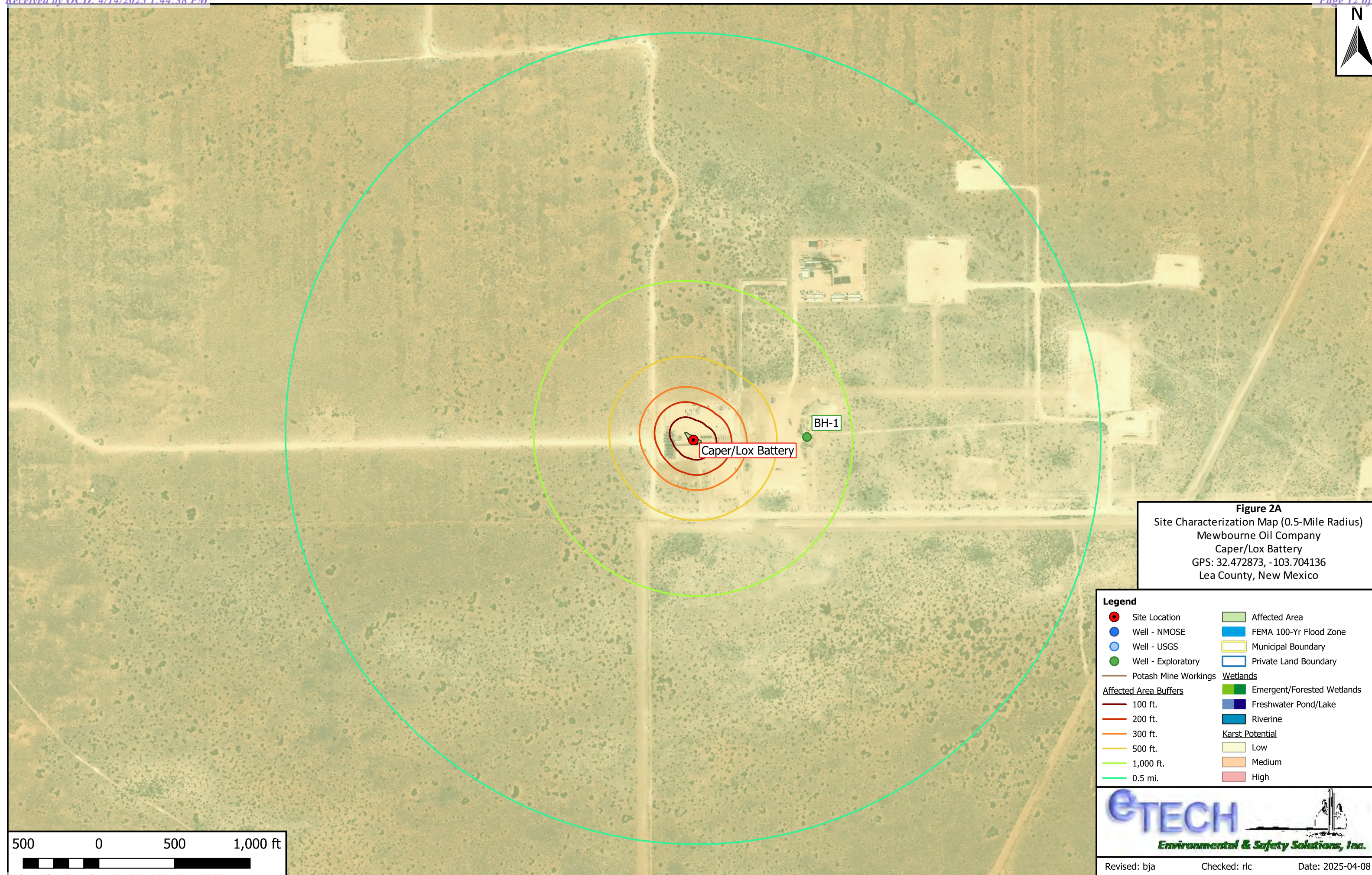
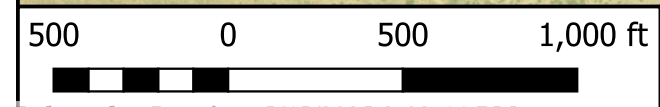


Figure 2A
Site Characterization Map (0.5-Mile Radius)
Mewbourne Oil Company
Caper/Lox Battery
GPS: 32.472873, -103.704136
Lea County, New Mexico

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



Environmental & Safety Solutions, Inc.

Revised: bja Checked: rlc Date: 2025-04-08

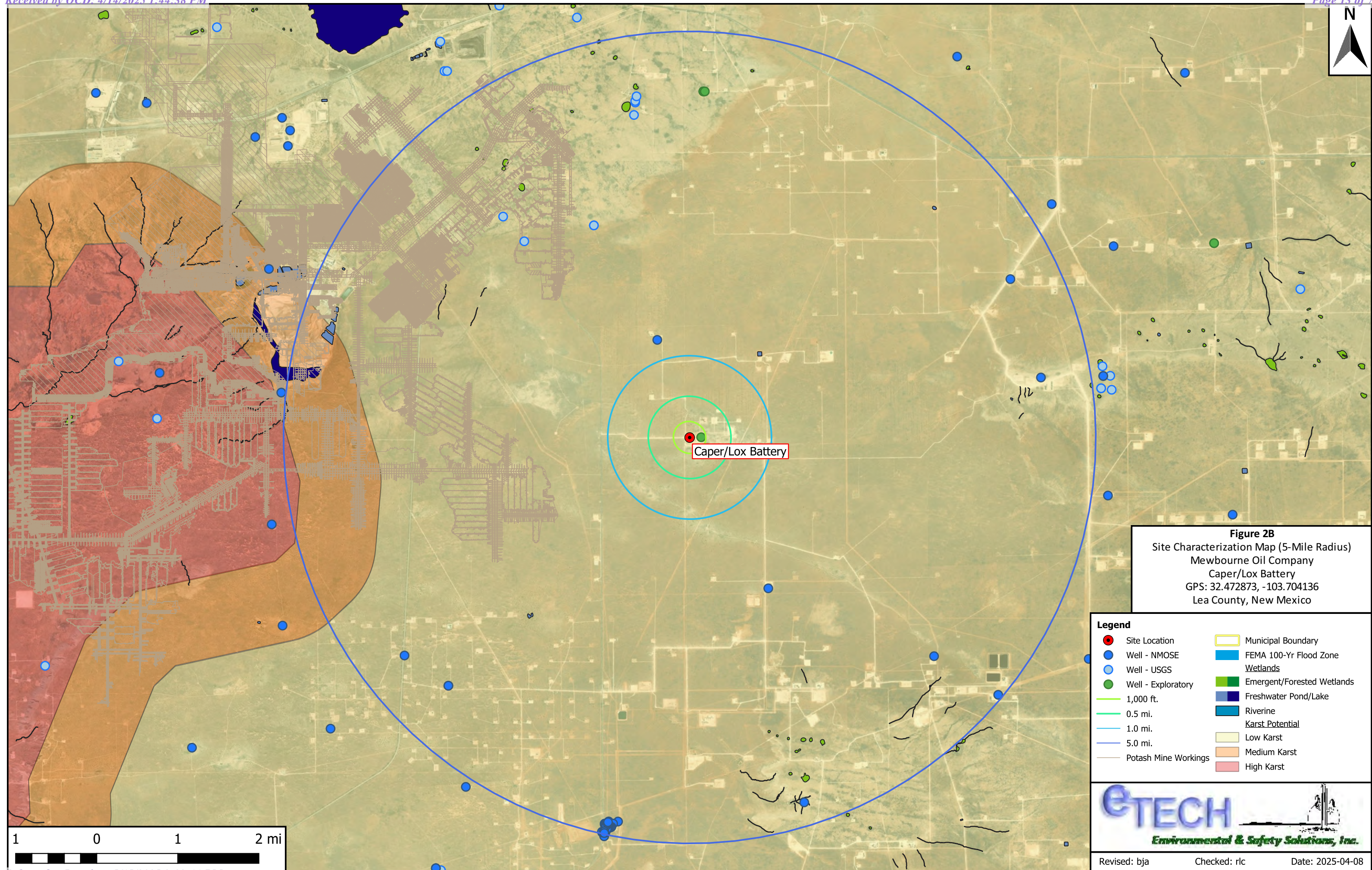
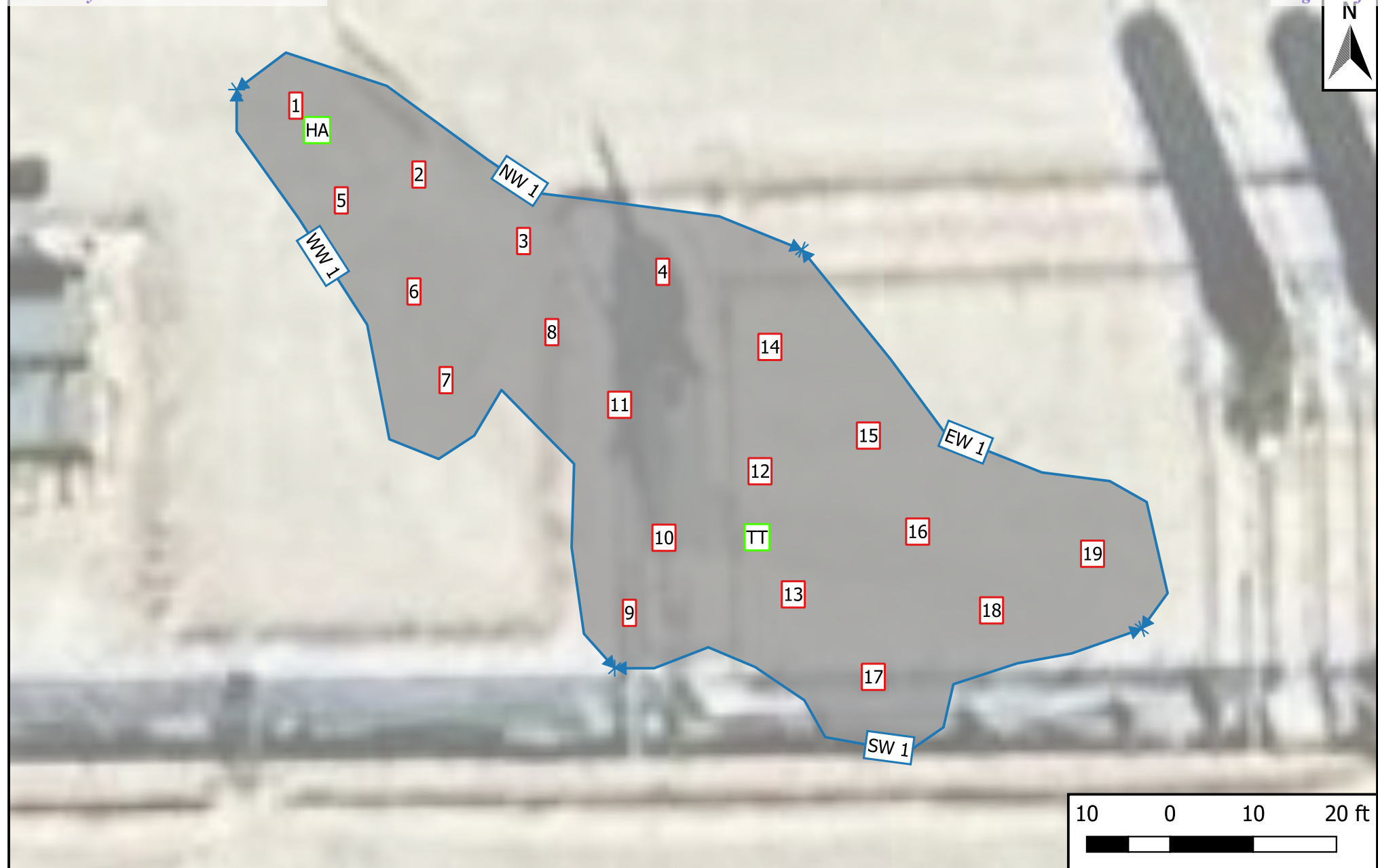


Figure 3

Sample Location Map



Legend

- Composite Floor Sample
- <—> Composite Wall Sample
- Delineation Sample Point
- Excavation Extent (~4,007 Ft²)

Figure 3

Sample Location Map
 Mewbourne Oil Company
 Capar/Lox Battery
 GPS: 32.472873, -103.704136
 Lea County, New Mexico



Revised: bja

Checked: rlc

Date: 2025-04-08

Table 1
Concentrations of BTEX, TPH & Chloride in Soil

Table 1
Concentrations of BTEX, TPH & Chloride in Soil
Mewbourne Oil Company
Caper/Lox Battery
NMOCD Ref. #: nAPP2504558538

NMOCD Closure Criteria				10	50	N/A	N/A	1,000	N/A	2,500	20,000
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)
TT @ Surf	2/21/2025	0	Excavated	3.02	66.2	814	4,530	5,340	1,320	6,660	976
TT @ 1'	2/21/2025	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 1 @ 1'	2/21/2025	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,330
FL 2 @ 1'	2/21/2025	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	704
FL 3 @ 1'	2/21/2025	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	384
FL 4 @ 6"	2/21/2025	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL 5 @ 6"	2/21/2025	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 6 @ 6"	2/21/2025	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 7 @ 6"	2/21/2025	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 8 @ 6"	2/21/2025	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 9 @ 3"	2/21/2025	0.25	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 10 @ 3"	2/21/2025	0.25	In-Situ	<0.050	6.32	137	678	815	109	924	112
FL 11 @ 3"	2/21/2025	0.25	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 12 @ 3"	2/21/2025	0.25	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL 13 @ 3"	2/21/2025	0.25	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,150
FL 14 @ 3"	2/21/2025	0.25	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,120
FL 15 @ 3"	2/21/2025	0.25	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 16 @ 3"	2/21/2025	0.25	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL 17 @ 3"	2/21/2025	0.25	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL 18 @ 3"	2/21/2025	0.25	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL 19 @ 3"	2/21/2025	0.25	In-Situ	<0.050	<0.300	<10.0	44.0	44.0	<10.0	44.0	96.0
NW 1	2/21/2025	0-1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
EW 1	2/21/2025	0-0.25	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
SW 1	2/21/2025	0-0.25	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	400
WW 1	2/21/2025	0-1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
HA @ 1'	4/1/2025	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
HA @ 2'	4/1/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0

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

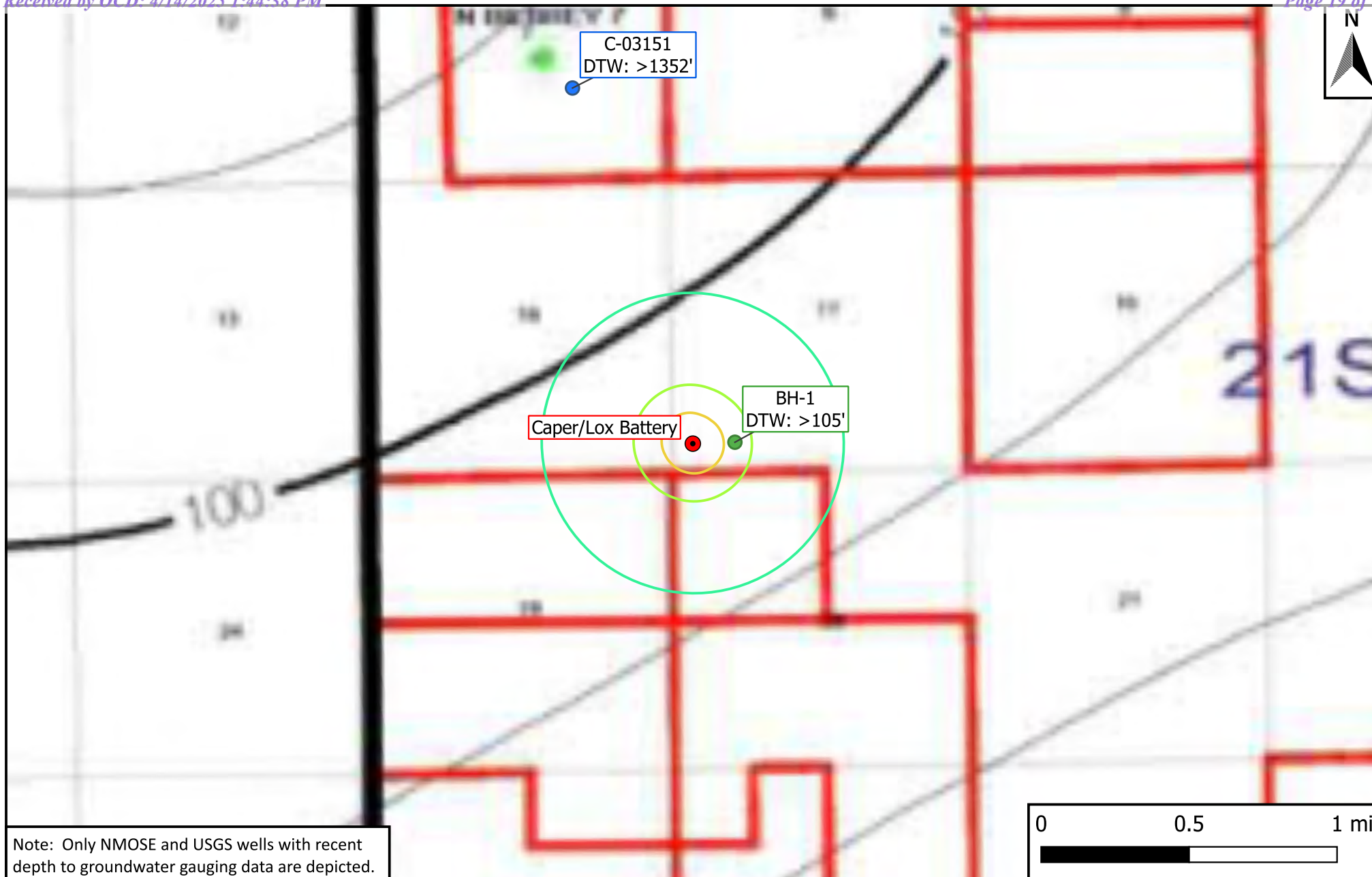
Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

Red Border with Shading: Highest observed concentration.

Appendix A

Depth to Groundwater Information



Legend

- Active Site Locations
- Well - NMOSE
- Well - USGS
- Well - Exploratory
- 500-ft Radius
- 1,000-ft Radius
- 0.5-mi Radius

Figure 4
Inferred Depth to Groundwater Map
Mewbourne Oil Company
Caper/Lox Battery
GPS: 32.472873, -103.704136
Lea County, New Mexico



Revised: bja

Checked: rlc

Date: 2025-04-08



MCollier@h-r-enterprises.com, JHawley@h-r-enterprises.com
575-909-0326 575-605-3471

SOIL BORE LOG

Project:	Mewbourne Little Valley Fed #1H	Date:	2/9/24
Type:	Exploratory Water Bore	Location:	32.472917,-103.701700

[illegible]

Appendix B

Field Data



Sample Log

Date: _____

Project: Caper/Lox Battery

Project Number: 21742 Latitude: 32.472873 Longitude: -103.704136

Sample ID	PID/Odor	Chloride Conc.	GPS
TT - @ Surface	strong	5204	
TT - @ 1'	-	ND	
TT - @ 2'	-	ND	
FL-1 @		1136	
FL-2 @		712	
FL-3 @		456	
FL-4 @		140	
FL-5 @		140	
FL-6 @		116	
FL-7 @		260	
FL-8 @		ND	
EW-1		168	
SW-1		500	
FL-9 @		260	
FL-10 @		168	
FL-11 @			
FL-12 @			
FL-13 @			
FL-14 @		1136	
FL-15 @		ND	
FL-16 @		ND	
NW-1		140	
FL-17 @		196	
FL-18 @		146	
FL-19 @		168	
WW-1		228	
HA-1 @ 1'		458	
HA-1 @ 2'		256	

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

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

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

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas

Appendix C

Photographic Log

Photographic Log

Photo Number: 1	 <p>17-Jan-25 09:42 MOC - Caper Battery Hobbs NM 88240, United States © 17-Jan-25 09:42:40</p>
Photo Direction: South	
Photo Description: View of the affected area.	

Photo Number: 2	 <p>17-Jan-25 09:44 MOC - Caper Battery Hobbs NM 88240, United States © 17-Jan-25 09:44:06</p>
Photo Direction: Southeast	
Photo Description: View of the affected area.	

Photographic Log

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

Photo Number: 4	
Photo Direction: West-Northwest	
Photo Description: View of the excavated area.	

Photographic Log

Photo Number: 5	 <p>Network: Feb 21, 2025 at 10:33:42 AM MST Local: Feb 21, 2025 at 10:33:42 AM MST N 32° 28' 22.828", W 103° 42' 14.573" Hobbs NM 88240 United States</p>
Photo Direction: West	
Photo Description: View of the excavated area.	

Photo Number: 6	 <p>Network: Feb 21, 2025 at 10:34:03 AM MST Local: Feb 21, 2025 at 10:34:03 AM MST N 32° 28' 22.937", W 103° 42' 14.941" Hobbs NM 88240 United States</p>
Photo Direction: East-Southeast	
Photo Description: View of the excavated area.	

Photographic Log



Photo Number: 7	 <p>Network: Feb 25, 2025 at 1:53:25 PM MST Local: Feb 25, 2025 at 1:53:25 PM MST N 32° 28' 22.666", W 103° 42' 14.643" Hobbs, NM 88240 United States</p>
Photo Direction: Southeast	
Photo Description: View of the remediated area following backfilling and regrading.	

Photo Number: 8	 <p>Network: Feb 25, 2025 at 1:54:50 PM MST Local: Feb 25, 2025 at 1:54:50 PM MST N 32° 28' 22.878", W 103° 42' 15.316" Hobbs, NM 88240 United States</p>
Photo Direction: Northeast	
Photo Description: View of the remediated area following backfilling and regrading.	

Photographic Log

Photo Number: 9	<div>Network:Feb 25, 2025 at 1:55:10 PM MST Local:Feb 25, 2025 at 1:55:10 PM MST N 32° 28' 22.878", W 103° 42' 15.316" Hobbs NM 88240 United States</div> 
Photo Direction: East	
Photo Description: View of the remediated area following backfilling and regrading.	

Appendix D

Laboratory Analytical Reports



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

February 25, 2025

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: CAPER / LOX BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 02/21/25 10:14.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/21/2025
 Reported: 02/25/2025
 Project Name: CAPER / LOX BATTERY
 Project Number: 21742
 Project Location: MEWBOURNE 32.472873-103.704136

Sampling Date: 02/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 1 @ 1' (H251037-01)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/24/2025	ND	1.98	99.1	2.00	1.20	
Toluene*	<0.050	0.050	02/24/2025	ND	2.04	102	2.00	0.990	
Ethylbenzene*	<0.050	0.050	02/24/2025	ND	1.94	97.2	2.00	1.16	
Total Xylenes*	<0.150	0.150	02/24/2025	ND	5.71	95.1	6.00	1.28	
Total BTEx	<0.300	0.300	02/24/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1330	16.0	02/24/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2025	ND	200	99.8	200	0.690	
DRO >C10-C28*	<10.0	10.0	02/24/2025	ND	188	93.8	200	2.93	
EXT DRO >C28-C36	<10.0	10.0	02/24/2025	ND					

Surrogate: 1-Chlorooctane 92.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.3 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/21/2025
 Reported: 02/25/2025
 Project Name: CAPER / LOX BATTERY
 Project Number: 21742
 Project Location: MEWBOURNE 32.472873-103.704136

Sampling Date: 02/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 2 @ 1' (H251037-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/24/2025	ND	1.98	99.1	2.00	1.20		
Toluene*	<0.050	0.050	02/24/2025	ND	2.04	102	2.00	0.990		
Ethylbenzene*	<0.050	0.050	02/24/2025	ND	1.94	97.2	2.00	1.16		
Total Xylenes*	<0.150	0.150	02/24/2025	ND	5.71	95.1	6.00	1.28		
Total BTEX	<0.300	0.300	02/24/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	704	16.0	02/24/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2025	ND	200	99.8	200	0.690	
DRO >C10-C28*	<10.0	10.0	02/24/2025	ND	188	93.8	200	2.93	
EXT DRO >C28-C36	<10.0	10.0	02/24/2025	ND					

Surrogate: 1-Chlorooctane 91.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/21/2025
 Reported: 02/25/2025
 Project Name: CAPER / LOX BATTERY
 Project Number: 21742
 Project Location: MEWBOURNE 32.472873-103.704136

Sampling Date: 02/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 3 @ 1' (H251037-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/24/2025	ND	1.98	99.1	2.00	1.20		
Toluene*	<0.050	0.050	02/24/2025	ND	2.04	102	2.00	0.990		
Ethylbenzene*	<0.050	0.050	02/24/2025	ND	1.94	97.2	2.00	1.16		
Total Xylenes*	<0.150	0.150	02/24/2025	ND	5.71	95.1	6.00	1.28		
Total BTEX	<0.300	0.300	02/24/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	384	16.0	02/24/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2025	ND	200	99.8	200	0.690	
DRO >C10-C28*	<10.0	10.0	02/24/2025	ND	188	93.8	200	2.93	
EXT DRO >C28-C36	<10.0	10.0	02/24/2025	ND					

Surrogate: 1-Chlorooctane 95.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/21/2025
 Reported: 02/25/2025
 Project Name: CAPER / LOX BATTERY
 Project Number: 21742
 Project Location: MEWBOURNE 32.472873-103.704136

Sampling Date: 02/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 4 @ 6" (H251037-04)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/24/2025	ND	1.98	99.1	2.00	1.20		
Toluene*	<0.050	0.050	02/24/2025	ND	2.04	102	2.00	0.990		
Ethylbenzene*	<0.050	0.050	02/24/2025	ND	1.94	97.2	2.00	1.16		
Total Xylenes*	<0.150	0.150	02/24/2025	ND	5.71	95.1	6.00	1.28		
Total BTEX	<0.300	0.300	02/24/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	02/24/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2025	ND	200	99.8	200	0.690	
DRO >C10-C28*	<10.0	10.0	02/24/2025	ND	188	93.8	200	2.93	
EXT DRO >C28-C36	<10.0	10.0	02/24/2025	ND					

Surrogate: 1-Chlorooctane 84.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.7 % 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: 02/21/2025
 Reported: 02/25/2025
 Project Name: CAPER / LOX BATTERY
 Project Number: 21742
 Project Location: MEWBOURNE 32.472873-103.704136

Sampling Date: 02/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 5 @ 6" (H251037-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/24/2025	ND	1.98	99.1	2.00	1.20		
Toluene*	<0.050	0.050	02/24/2025	ND	2.04	102	2.00	0.990		
Ethylbenzene*	<0.050	0.050	02/24/2025	ND	1.94	97.2	2.00	1.16		
Total Xylenes*	<0.150	0.150	02/24/2025	ND	5.71	95.1	6.00	1.28		
Total BTEX	<0.300	0.300	02/24/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	02/24/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2025	ND	200	99.8	200	0.690	
DRO >C10-C28*	<10.0	10.0	02/24/2025	ND	188	93.8	200	2.93	
EXT DRO >C28-C36	<10.0	10.0	02/24/2025	ND					

Surrogate: 1-Chlorooctane 86.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/21/2025
 Reported: 02/25/2025
 Project Name: CAPER / LOX BATTERY
 Project Number: 21742
 Project Location: MEWBOURNE 32.472873-103.704136

Sampling Date: 02/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 6 @ 6" (H251037-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/24/2025	ND	1.98	99.1	2.00	1.20		
Toluene*	<0.050	0.050	02/24/2025	ND	2.04	102	2.00	0.990		
Ethylbenzene*	<0.050	0.050	02/24/2025	ND	1.94	97.2	2.00	1.16		
Total Xylenes*	<0.150	0.150	02/24/2025	ND	5.71	95.1	6.00	1.28		
Total BTEX	<0.300	0.300	02/24/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	02/24/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2025	ND	200	99.8	200	0.690	
DRO >C10-C28*	<10.0	10.0	02/24/2025	ND	188	93.8	200	2.93	
EXT DRO >C28-C36	<10.0	10.0	02/24/2025	ND					

Surrogate: 1-Chlorooctane 93.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.6 % 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: 02/21/2025
 Reported: 02/25/2025
 Project Name: CAPER / LOX BATTERY
 Project Number: 21742
 Project Location: MEWBOURNE 32.472873-103.704136

Sampling Date: 02/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 7 @ 6" (H251037-07)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/24/2025	ND	1.98	99.1	2.00	1.20		
Toluene*	<0.050	0.050	02/24/2025	ND	2.04	102	2.00	0.990		
Ethylbenzene*	<0.050	0.050	02/24/2025	ND	1.94	97.2	2.00	1.16		
Total Xylenes*	<0.150	0.150	02/24/2025	ND	5.71	95.1	6.00	1.28		
Total BTEX	<0.300	0.300	02/24/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	02/24/2025	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2025	ND	200	99.8	200	0.690	
DRO >C10-C28*	<10.0	10.0	02/24/2025	ND	188	93.8	200	2.93	
EXT DRO >C28-C36	<10.0	10.0	02/24/2025	ND					

Surrogate: 1-Chlorooctane 97.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.8 % 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: 02/21/2025
 Reported: 02/25/2025
 Project Name: CAPER / LOX BATTERY
 Project Number: 21742
 Project Location: MEWBOURNE 32.472873-103.704136

Sampling Date: 02/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 8 @ 6" (H251037-08)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/24/2025	ND	1.98	99.1	2.00	1.20		
Toluene*	<0.050	0.050	02/24/2025	ND	2.04	102	2.00	0.990		
Ethylbenzene*	<0.050	0.050	02/24/2025	ND	1.94	97.2	2.00	1.16		
Total Xylenes*	<0.150	0.150	02/24/2025	ND	5.71	95.1	6.00	1.28		
Total BTEX	<0.300	0.300	02/24/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.7 % 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	02/24/2025	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2025	ND	200	99.8	200	0.690	
DRO >C10-C28*	<10.0	10.0	02/24/2025	ND	188	93.8	200	2.93	
EXT DRO >C28-C36	<10.0	10.0	02/24/2025	ND					

Surrogate: 1-Chlorooctane 93.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.6 % 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: 02/21/2025
 Reported: 02/25/2025
 Project Name: CAPER / LOX BATTERY
 Project Number: 21742
 Project Location: MEWBOURNE 32.472873-103.704136

Sampling Date: 02/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 9 @ 3" (H251037-09)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/24/2025	ND	1.98	99.1	2.00	1.20	
Toluene*	<0.050	0.050	02/24/2025	ND	2.04	102	2.00	0.990	
Ethylbenzene*	<0.050	0.050	02/24/2025	ND	1.94	97.2	2.00	1.16	
Total Xylenes*	<0.150	0.150	02/24/2025	ND	5.71	95.1	6.00	1.28	
Total BTEX	<0.300	0.300	02/24/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.4 % 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	02/24/2025	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2025	ND	200	99.8	200	0.690	
DRO >C10-C28*	<10.0	10.0	02/24/2025	ND	188	93.8	200	2.93	
EXT DRO >C28-C36	<10.0	10.0	02/24/2025	ND					

Surrogate: 1-Chlorooctane 81.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.9 % 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: 02/21/2025
 Reported: 02/25/2025
 Project Name: CAPER / LOX BATTERY
 Project Number: 21742
 Project Location: MEWBOURNE 32.472873-103.704136

Sampling Date: 02/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 10 @ 3" (H251037-10)

BTEx 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/24/2025	ND	1.98	99.1	2.00	1.20	
Toluene*	0.218	0.050	02/24/2025	ND	2.04	102	2.00	0.990	
Ethylbenzene*	0.700	0.050	02/24/2025	ND	1.94	97.2	2.00	1.16	
Total Xylenes*	5.40	0.150	02/24/2025	ND	5.71	95.1	6.00	1.28	
Total BTEX	6.32	0.300	02/24/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 204 % 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	02/24/2025	ND	400	100	400	7.69	

TPH 8015M			mg/kg					Analyzed By: MS	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	137	10.0	02/24/2025	ND	200	99.8	200	0.690	
DRO >C10-C28*	678	10.0	02/24/2025	ND	188	93.8	200	2.93	
EXT DRO >C28-C36	109	10.0	02/24/2025	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 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: 02/21/2025
 Reported: 02/25/2025
 Project Name: CAPER / LOX BATTERY
 Project Number: 21742
 Project Location: MEWBOURNE 32.472873-103.704136

Sampling Date: 02/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 11 @ 3" (H251037-11)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/24/2025	ND	1.98	99.1	2.00	1.20		
Toluene*	<0.050	0.050	02/24/2025	ND	2.04	102	2.00	0.990		
Ethylbenzene*	<0.050	0.050	02/24/2025	ND	1.94	97.2	2.00	1.16		
Total Xylenes*	<0.150	0.150	02/24/2025	ND	5.71	95.1	6.00	1.28		
Total BTEX	<0.300	0.300	02/24/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	02/24/2025	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2025	ND	200	99.8	200	0.690	
DRO >C10-C28*	<10.0	10.0	02/24/2025	ND	188	93.8	200	2.93	
EXT DRO >C28-C36	<10.0	10.0	02/24/2025	ND					

Surrogate: 1-Chlorooctane 94.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.9 % 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: 02/21/2025
 Reported: 02/25/2025
 Project Name: CAPER / LOX BATTERY
 Project Number: 21742
 Project Location: MEWBOURNE 32.472873-103.704136

Sampling Date: 02/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 12 @ 3" (H251037-12)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/24/2025	ND	1.98	99.1	2.00	1.20		
Toluene*	<0.050	0.050	02/24/2025	ND	2.04	102	2.00	0.990		
Ethylbenzene*	<0.050	0.050	02/24/2025	ND	1.94	97.2	2.00	1.16		
Total Xylenes*	<0.150	0.150	02/24/2025	ND	5.71	95.1	6.00	1.28		
Total BTEX	<0.300	0.300	02/24/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	02/24/2025	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2025	ND	200	99.8	200	0.690	
DRO >C10-C28*	<10.0	10.0	02/24/2025	ND	188	93.8	200	2.93	
EXT DRO >C28-C36	<10.0	10.0	02/24/2025	ND					

Surrogate: 1-Chlorooctane 94.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.7 % 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: 02/21/2025
 Reported: 02/25/2025
 Project Name: CAPER / LOX BATTERY
 Project Number: 21742
 Project Location: MEWBOURNE 32.472873-103.704136

Sampling Date: 02/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 13 @ 3" (H251037-13)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/24/2025	ND	1.98	99.1	2.00	1.20		
Toluene*	<0.050	0.050	02/24/2025	ND	2.04	102	2.00	0.990		
Ethylbenzene*	<0.050	0.050	02/24/2025	ND	1.94	97.2	2.00	1.16		
Total Xylenes*	<0.150	0.150	02/24/2025	ND	5.71	95.1	6.00	1.28		
Total BTEX	<0.300	0.300	02/24/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1150	16.0	02/24/2025	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2025	ND	200	99.8	200	0.690	
DRO >C10-C28*	<10.0	10.0	02/24/2025	ND	188	93.8	200	2.93	
EXT DRO >C28-C36	<10.0	10.0	02/24/2025	ND					

Surrogate: 1-Chlorooctane 94.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.5 % 49.1-148

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 2617 W MARLAND
 HOBBS NM, 88240
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Received: 02/21/2025
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 Project Name: CAPER / LOX BATTERY
 Project Number: 21742
 Project Location: MEWBOURNE 32.472873-103.704136

Sampling Date: 02/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 14 @ 3" (H251037-14)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/24/2025	ND	1.98	99.1	2.00	1.20		
Toluene*	<0.050	0.050	02/24/2025	ND	2.04	102	2.00	0.990		
Ethylbenzene*	<0.050	0.050	02/24/2025	ND	1.94	97.2	2.00	1.16		
Total Xylenes*	<0.150	0.150	02/24/2025	ND	5.71	95.1	6.00	1.28		
Total BTEX	<0.300	0.300	02/24/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.8 % 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	1120	16.0	02/24/2025	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2025	ND	200	99.8	200	0.690	
DRO >C10-C28*	<10.0	10.0	02/24/2025	ND	188	93.8	200	2.93	
EXT DRO >C28-C36	<10.0	10.0	02/24/2025	ND					

Surrogate: 1-Chlorooctane 89.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.6 % 49.1-148

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Received: 02/21/2025
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 Project Name: CAPER / LOX BATTERY
 Project Number: 21742
 Project Location: MEWBOURNE 32.472873-103.704136

Sampling Date: 02/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 15 @ 3" (H251037-15)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/24/2025	ND	1.98	99.1	2.00	1.20	
Toluene*	<0.050	0.050	02/24/2025	ND	2.04	102	2.00	0.990	
Ethylbenzene*	<0.050	0.050	02/24/2025	ND	1.94	97.2	2.00	1.16	
Total Xylenes*	<0.150	0.150	02/24/2025	ND	5.71	95.1	6.00	1.28	
Total BTEX	<0.300	0.300	02/24/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.0 % 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	02/24/2025	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2025	ND	200	99.8	200	0.690	
DRO >C10-C28*	<10.0	10.0	02/24/2025	ND	188	93.8	200	2.93	
EXT DRO >C28-C36	<10.0	10.0	02/24/2025	ND					

Surrogate: 1-Chlorooctane 85.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.6 % 49.1-148

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 2617 W MARLAND
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Received: 02/21/2025
 Reported: 02/25/2025
 Project Name: CAPER / LOX BATTERY
 Project Number: 21742
 Project Location: MEWBOURNE 32.472873-103.704136

Sampling Date: 02/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 16 @ 3" (H251037-16)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/24/2025	ND	1.98	99.1	2.00	1.20		
Toluene*	<0.050	0.050	02/24/2025	ND	2.04	102	2.00	0.990		
Ethylbenzene*	<0.050	0.050	02/24/2025	ND	1.94	97.2	2.00	1.16		
Total Xylenes*	<0.150	0.150	02/24/2025	ND	5.71	95.1	6.00	1.28		
Total BTEX	<0.300	0.300	02/24/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	02/24/2025	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2025	ND	200	99.8	200	0.690	
DRO >C10-C28*	<10.0	10.0	02/24/2025	ND	188	93.8	200	2.93	
EXT DRO >C28-C36	<10.0	10.0	02/24/2025	ND					

Surrogate: 1-Chlorooctane 93.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.7 % 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: 02/21/2025
 Reported: 02/25/2025
 Project Name: CAPER / LOX BATTERY
 Project Number: 21742
 Project Location: MEWBOURNE 32.472873-103.704136

Sampling Date: 02/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 17 @ 3" (H251037-17)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/24/2025	ND	1.98	99.1	2.00	1.20		
Toluene*	<0.050	0.050	02/24/2025	ND	2.04	102	2.00	0.990		
Ethylbenzene*	<0.050	0.050	02/24/2025	ND	1.94	97.2	2.00	1.16		
Total Xylenes*	<0.150	0.150	02/24/2025	ND	5.71	95.1	6.00	1.28		
Total BTEX	<0.300	0.300	02/24/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.0 % 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	96.0	16.0	02/24/2025	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2025	ND	200	99.8	200	0.690	
DRO >C10-C28*	<10.0	10.0	02/24/2025	ND	188	93.8	200	2.93	
EXT DRO >C28-C36	<10.0	10.0	02/24/2025	ND					

Surrogate: 1-Chlorooctane 89.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.7 % 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: 02/21/2025
 Reported: 02/25/2025
 Project Name: CAPER / LOX BATTERY
 Project Number: 21742
 Project Location: MEWBOURNE 32.472873-103.704136

Sampling Date: 02/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 18 @ 3" (H251037-18)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/24/2025	ND	1.98	99.1	2.00	1.20		
Toluene*	<0.050	0.050	02/24/2025	ND	2.04	102	2.00	0.990		
Ethylbenzene*	<0.050	0.050	02/24/2025	ND	1.94	97.2	2.00	1.16		
Total Xylenes*	<0.150	0.150	02/24/2025	ND	5.71	95.1	6.00	1.28		
Total BTEX	<0.300	0.300	02/24/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	02/24/2025	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2025	ND	200	99.8	200	0.690	
DRO >C10-C28*	<10.0	10.0	02/24/2025	ND	188	93.8	200	2.93	
EXT DRO >C28-C36	<10.0	10.0	02/24/2025	ND					

Surrogate: 1-Chlorooctane 88.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.8 % 49.1-148

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Analytical Results For:

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

Received: 02/21/2025
 Reported: 02/25/2025
 Project Name: CAPER / LOX BATTERY
 Project Number: 21742
 Project Location: MEWBOURNE 32.472873-103.704136

Sampling Date: 02/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 19 @ 3" (H251037-19)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/24/2025	ND	1.98	99.1	2.00	1.20	
Toluene*	<0.050	0.050	02/24/2025	ND	2.04	102	2.00	0.990	
Ethylbenzene*	<0.050	0.050	02/24/2025	ND	1.94	97.2	2.00	1.16	
Total Xylenes*	<0.150	0.150	02/24/2025	ND	5.71	95.1	6.00	1.28	
Total BTEX	<0.300	0.300	02/24/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.0 % 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	96.0	16.0	02/24/2025	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2025	ND	200	99.8	200	0.690	
DRO >C10-C28*	44.0	10.0	02/24/2025	ND	188	93.8	200	2.93	
EXT DRO >C28-C36	<10.0	10.0	02/24/2025	ND					

Surrogate: 1-Chlorooctane 82.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.5 % 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: 02/21/2025
 Reported: 02/25/2025
 Project Name: CAPER / LOX BATTERY
 Project Number: 21742
 Project Location: MEWBOURNE 32.472873-103.704136

Sampling Date: 02/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: TT @ SURFACE (H251037-20)

BTEx 8021B		mg/kg	Analyzed By: JH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	3.02	0.200	02/25/2025	ND	1.98	99.1	2.00	1.20	
Toluene*	15.8	0.200	02/25/2025	ND	2.04	102	2.00	0.990	
Ethylbenzene*	9.06	0.200	02/25/2025	ND	1.94	97.2	2.00	1.16	
Total Xylenes*	38.4	0.600	02/25/2025	ND	5.71	95.1	6.00	1.28	
Total BTEX	66.2	1.20	02/25/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 149 % 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	976	16.0	02/24/2025	ND	400	100	400	7.69	

TPH 8015M		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	814	10.0	02/24/2025	ND	200	99.8	200	0.690	
DRO >C10-C28*	4530	10.0	02/24/2025	ND	188	93.8	200	2.93	
EXT DRO >C28-C36	1320	10.0	02/24/2025	ND					

Surrogate: 1-Chlorooctane 116 % 48.2-134

Surrogate: 1-Chlorooctadecane 149 % 49.1-148

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Analytical Results For:

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 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 02/21/2025
 Reported: 02/25/2025
 Project Name: CAPER / LOX BATTERY
 Project Number: 21742
 Project Location: MEWBOURNE 32.472873-103.704136

Sampling Date: 02/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: TT @ 1' (H251037-21)

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	02/24/2025	ND	1.94	96.8	2.00	0.538	
Toluene*	<0.050	0.050	02/24/2025	ND	2.13	107	2.00	0.511	
Ethylbenzene*	<0.050	0.050	02/24/2025	ND	2.13	106	2.00	0.888	
Total Xylenes*	<0.150	0.150	02/24/2025	ND	6.58	110	6.00	0.907	
Total BTEX	<0.300	0.300	02/24/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	02/24/2025	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2025	ND	189	94.7	200	3.11	
DRO >C10-C28*	<10.0	10.0	02/24/2025	ND	179	89.6	200	3.60	
EXT DRO >C28-C36	<10.0	10.0	02/24/2025	ND					

Surrogate: 1-Chlorooctane 75.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.9 % 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: 02/21/2025
 Reported: 02/25/2025
 Project Name: CAPER / LOX BATTERY
 Project Number: 21742
 Project Location: MEWBOURNE 32.472873-103.704136

Sampling Date: 02/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: WW 1 (H251037-22)

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	02/24/2025	ND	1.94	96.8	2.00	0.538		
Toluene*	<0.050	0.050	02/24/2025	ND	2.13	107	2.00	0.511		
Ethylbenzene*	<0.050	0.050	02/24/2025	ND	2.13	106	2.00	0.888		
Total Xylenes*	<0.150	0.150	02/24/2025	ND	6.58	110	6.00	0.907		
Total BTEX	<0.300	0.300	02/24/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/24/2025	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2025	ND	189	94.7	200	3.11	
DRO >C10-C28*	<10.0	10.0	02/24/2025	ND	179	89.6	200	3.60	
EXT DRO >C28-C36	<10.0	10.0	02/24/2025	ND					

Surrogate: 1-Chlorooctane 69.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 66.1 % 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: 02/21/2025
 Reported: 02/25/2025
 Project Name: CAPER / LOX BATTERY
 Project Number: 21742
 Project Location: MEWBOURNE 32.472873-103.704136

Sampling Date: 02/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW 1 (H251037-23)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/24/2025	ND	1.94	96.8	2.00	0.538		
Toluene*	<0.050	0.050	02/24/2025	ND	2.13	107	2.00	0.511		
Ethylbenzene*	<0.050	0.050	02/24/2025	ND	2.13	106	2.00	0.888		
Total Xylenes*	<0.150	0.150	02/24/2025	ND	6.58	110	6.00	0.907		
Total BTX	<0.300	0.300	02/24/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	400	16.0	02/24/2025	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2025	ND	189	94.7	200	3.11	
DRO >C10-C28*	<10.0	10.0	02/24/2025	ND	179	89.6	200	3.60	
EXT DRO >C28-C36	<10.0	10.0	02/24/2025	ND					

Surrogate: 1-Chlorooctane 74.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.7 % 49.1-148

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Analytical Results For:

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 HOBBS NM, 88240
 Fax To:

Received: 02/21/2025
 Reported: 02/25/2025
 Project Name: CAPER / LOX BATTERY
 Project Number: 21742
 Project Location: MEWBOURNE 32.472873-103.704136

Sampling Date: 02/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: EW 1 (H251037-24)

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	02/24/2025	ND	1.94	96.8	2.00	0.538	
Toluene*	<0.050	0.050	02/24/2025	ND	2.13	107	2.00	0.511	
Ethylbenzene*	<0.050	0.050	02/24/2025	ND	2.13	106	2.00	0.888	
Total Xylenes*	<0.150	0.150	02/24/2025	ND	6.58	110	6.00	0.907	
Total BTEX	<0.300	0.300	02/24/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	02/24/2025	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2025	ND	189	94.7	200	3.11	
DRO >C10-C28*	<10.0	10.0	02/24/2025	ND	179	89.6	200	3.60	
EXT DRO >C28-C36	<10.0	10.0	02/24/2025	ND					

Surrogate: 1-Chlorooctane 70.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 68.0 % 49.1-148

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 HOBBS NM, 88240
 Fax To:

Received: 02/21/2025
 Reported: 02/25/2025
 Project Name: CAPER / LOX BATTERY
 Project Number: 21742
 Project Location: MEWBOURNE 32.472873-103.704136

Sampling Date: 02/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NW 1 (H251037-25)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/24/2025	ND	1.94	96.8	2.00	0.538		
Toluene*	<0.050	0.050	02/24/2025	ND	2.13	107	2.00	0.511		
Ethylbenzene*	<0.050	0.050	02/24/2025	ND	2.13	106	2.00	0.888		
Total Xylenes*	<0.150	0.150	02/24/2025	ND	6.58	110	6.00	0.907		
Total BTEX	<0.300	0.300	02/24/2025	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	112	16.0	02/24/2025	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2025	ND	189	94.7	200	3.11	
DRO >C10-C28*	<10.0	10.0	02/24/2025	ND	179	89.6	200	3.60	
EXT DRO >C28-C36	<10.0	10.0	02/24/2025	ND					

Surrogate: 1-Chlorooctane 73.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.2 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

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: Mewbourne *See remarks																				
City: Hobbs		State: NM		Zip: 88240		Attn:																		
Phone #: (575) 264-9884		Fax #:		Address:		City:																		
Project #: 21742		Project Owner: Mewbourne Oil Company		State:		Zip:																		
Project Name: Caper/Lox Battery				Phone #:																				
Project Location: GPS:(32.472873, -103.704136)				Fax #:																				
Sampler Name: Aaron Rios																								
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING																
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	Chloride	TPH	BTEX 8021							
1251037																								
1	FL 1 @ 1'	C	1			X				X			2/21/25		X	X	X							
2	FL 2 @ 1'	C	1			X				X			2/21/25		X	X	X							
3	FL 3 @ 1'	C	1			X				X			2/21/25		X	X	X							
4	FL 4 @ 6"	C	1			X				X			2/21/25		X	X	X							
5	FL 5 @ 6"	C	1			X				X			2/21/25		X	X	X							
6	FL 6 @ 6"	C	1			X				X			2/21/25		X	X	X							
7	FL 7 @ 6"	C	1			X				X			2/21/25		X	X	X							
8	FL 8 @ 6"	C	1			X				X			2/21/25		X	X	X							
9	FL 9 @ 3"	C	1			X				X			2/21/25		X	X	X							
10	FL 10 @ 3"	C	1			X				X			2/21/25		X	X	X							

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

Relinquished By: Tamarah Kendrick		Date: 2/21/2025	Received By: <i>Tamarah Kendrick</i>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
		Time: 10:14			Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:		Date:	Received By:		REMARKS: Email copy of COC and results to: PM@etechenv.com	
		Time:			*Bill analytical charges to Mewbourne. Rush charges to Etech	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:			Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> <input type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials) <i>TO</i>	48 hour RUSH	

† 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: Mewbourne *See remarks																											
City: Hobbs		State: NM		Zip: 88240		Attn:																									
Phone #: (575) 264-9884		Fax #:				Address:																									
Project #: 21742		Project Owner: Mewbourne Oil Company				City:																									
Project Name: Capex/Low Battery						State:		Zip:																							
Project Location: GPS:(32.472873, -103.704136)						Phone #:																									
Sampler Name: Aaron Rios						Fax #:																									
FOR LAB USE ONLY																															
Lab I.D.		Sample I.D.		(G/RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.	SAMPLING	Chloride	TPH	BTEX 8021																
						GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:				ICE / COOL	OTHER :	DATE	TIME												
H55103T				C	1		X					X			2/21/25		X	X	X												
12		FL 12 @ 3"		C	1		X					X			2/21/25		X	X	X												
13		FL 13 @ 3"		C	1		X					X			2/21/25		X	X	X												
14		FL 14 @ 3"		C	1		X					X			2/21/25		X	X	X												
15		FL 15 @ 3"		C	1		X					X			2/21/25		X	X	X												
16		FL 16 @ 3"		C	1		X					X			2/21/25		X	X	X												
17		FL 17 @ 3"		C	1		X					X			2/21/25		X	X	X												
18		FL 18 @ 3"		C	1		X					X			2/21/25		X	X	X												
19		FL 19 @ 3"		C	1		X					X			2/21/25		X	X	X												
20		TT @ SURF		G	1		X					X			2/21/25		X	X	X												
<small>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.</small>																															
Relinquished By: Tamarah Kendrick				Date: 2/21/2025		Received By: [Signature]				Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				Add'l Phone #:																	
				Time: 1014						Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				Add'l Fax #:																	
Relinquished By:				Date:		Received By:				REMARKS: Email copy of COC and results to: PM@etechenv.com																					
				Time:						*Bill analytical charges to Mewbourne. Rush charges to Etech																					
Delivered By: (Circle One)				Date: 2/21/2025		Sample Condition: Cool Intact				CHECKED BY: (Initials)				48 hour RUSH																	
Sampler - UPS - Bus - Other: CF#0.3 #140				Time:		Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>				Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>																					



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

April 08, 2025

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: CAPER / LOX BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 04/02/25 15:10.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 04/02/2025
 Reported: 04/08/2025
 Project Name: CAPER / LOX BATTERY
 Project Number: 21742
 Project Location: MEWBOURNE 32.472873-103.704136

Sampling Date: 04/01/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: HA 1 @ 1' (H251961-01)

BTEx 8021B		mg / kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/04/2025	ND	1.99	99.7	2.00	1.27		
Toluene*	<0.050	0.050	04/04/2025	ND	1.95	97.3	2.00	2.99		
Ethylbenzene*	<0.050	0.050	04/04/2025	ND	2.01	100	2.00	4.89		
Total Xylenes*	<0.150	0.150	04/04/2025	ND	6.25	104	6.00	5.20		
Total BTEx	<0.300	0.300	04/04/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	04/03/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/03/2025	ND	192	96.1	200	1.43	
DRO >C10-C28*	<10.0	10.0	04/03/2025	ND	187	93.5	200	0.391	
EXT DRO >C28-C36	<10.0	10.0	04/03/2025	ND					

Surrogate: 1-Chlorooctane 83.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 80.8 % 40.6-153

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: 04/02/2025
 Reported: 04/08/2025
 Project Name: CAPER / LOX BATTERY
 Project Number: 21742
 Project Location: MEWBOURNE 32.472873-103.704136

Sampling Date: 04/01/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: HA 1 @ 2' (H251961-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/04/2025	ND	1.80	90.0	2.00	5.84		
Toluene*	<0.050	0.050	04/04/2025	ND	1.88	94.1	2.00	4.76		
Ethylbenzene*	<0.050	0.050	04/04/2025	ND	1.88	94.0	2.00	3.96		
Total Xylenes*	<0.150	0.150	04/04/2025	ND	5.96	99.3	6.00	3.37		
Total BTEX	<0.300	0.300	04/04/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	04/04/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/03/2025	ND	199	99.6	200	0.203	
DRO >C10-C28*	<10.0	10.0	04/03/2025	ND	204	102	200	0.199	
EXT DRO >C28-C36	<10.0	10.0	04/03/2025	ND					

Surrogate: 1-Chlorooctane 83.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 79.5 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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A handwritten signature in cursive script, 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

Page 1 of 1

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																							
Project Manager: Lance Crenshaw				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																							
Address: 2617 West Marland				Company: Mewbourne																											
City: Hobbs		State: NM		Zip: 88240		Attn: Connor Walker																									
Phone #: (575) 264-9884		Fax #:		Address:		City:																									
Project #: 21742		Project Owner: Mewbourne		State:		Zip:																									
Project Name: Caper/Lox Battery				Phone #:																											
Project Location: 32.472873, -103.704136				Fax #:																											
Sampler Name: Aaron Rios																															
FOR LAB USE ONLY		Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX				PRESERV.		SAMPLING															
										GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:				ACID/BASE: ICE / COOL OTHER:		DATE TIME															
		HA 1 @ 1'				G 1				X				X		4/1/25				X X X											
		HA 1 @ 2'				G 1				X				X		4/1/25				X X X											

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Relinquished By:		Date: 4-2-25		Received By:		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
		Time: 1:51u				All Results are emailed. Please provide Email address:		pm@etechenv.com	
Relinquished By:		Date:		Received By:		REMARKS:			
		Time:							
Delivered By: (Circle One)		Observed Temp. °C		Sample Condition		CHECKED BY:		Turnaround Time:	
Sampler - UPS - Bus - Other:		1.3u		Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		(Initials)		Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>	
		Corrected Temp. °C		<input type="checkbox"/> Yes <input type="checkbox"/> No				Thermometer ID #140	
		1.4u		<input type="checkbox"/> No <input type="checkbox"/> No				Correction Factor -0.5°C to -3.2	
								Bacteria (only) Sample Condition	
								Cool Intact Observed Temp. °C	
								<input type="checkbox"/> Yes <input type="checkbox"/> No	
								<input type="checkbox"/> No <input type="checkbox"/> No Corrected Temp. °C	

Appendix E

Regulatory Correspondence

From: OCDOnline@state.nm.us
Sent: Wednesday, February 19, 2025 12:41 PM
To: Jeff Broom
Subject: [EXT] The Oil Conservation Division (OCD) has accepted the application, Application ID: 433528

To whom it may concern (c/o Jeff Broom for MEWBOURNE OIL CO),

The OCD has received the submitted *Notification for (Final) Sampling of a Release (C-141N)*, for incident ID (n#) nAPP2504558538.

The sampling event is expected to take place:

When: 02/21/2025 @ 07:30

Where: L-17-21S-32E 0 FNL 0 FEL (32.473,-103.70425)

Additional Information: Aaron Rios, 432-701-8602

Additional Instructions: From the intersection of US-180 and Campbell Rd (32.548808, -103.745621), head S on Campbell Rd for 5.80 mi, then E for 1.06 mi, then S for 0.20 mi, then N across the pad for 0.08 mi, then NE for 0.01 mi, then NW for 0.03 mi, then W for 0.05 mi, then S for 0.01 mi to arrive at the Caper/Lox Battery release area (32.472873, -103.704136).

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

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

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

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

From: OCDOnline@state.nm.us
Sent: Wednesday, February 19, 2025 12:43 PM
To: Jeff Broom
Subject: [EXT] The Oil Conservation Division (OCD) has accepted the application, Application ID: 433532

To whom it may concern (c/o Jeff Broom for MEWBOURNE OIL CO),

The OCD has received the submitted *Notification for (Final) Sampling of a Release (C-141N)*, for incident ID (n#) nAPP2504558538.

The sampling event is expected to take place:

When: 02/24/2025 @ 07:30

Where: L-17-21S-32E 0 FNL 0 FEL (32.473,-103.70425)

Additional Information: Aaron Rios, 432-701-8602

Additional Instructions: From the intersection of US-180 and Campbell Rd (32.548808, -103.745621), head S on Campbell Rd for 5.80 mi, then E for 1.06 mi, then S for 0.20 mi, then N across the pad for 0.08 mi, then NE for 0.01 mi, then NW for 0.03 mi, then W for 0.05 mi, then S for 0.01 mi to arrive at the Caper/Lox Battery release area (32.472873, -103.704136).

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

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

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

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

From: OCDOnline@state.nm.us
Sent: Wednesday, February 19, 2025 12:45 PM
To: Jeff Broom
Subject: [EXT] The Oil Conservation Division (OCD) has accepted the application, Application ID: 433533

To whom it may concern (c/o Jeff Broom for MEWBOURNE OIL CO),

The OCD has received the submitted *Notification for (Final) Sampling of a Release (C-141N)*, for incident ID (n#) nAPP2504558538.

The sampling event is expected to take place:

When: 02/25/2025 @ 07:30

Where: L-17-21S-32E 0 FNL 0 FEL (32.473,-103.70425)

Additional Information: Aaron Rios, 432-701-8602

Additional Instructions: From the intersection of US-180 and Campbell Rd (32.548808, -103.745621), head S on Campbell Rd for 5.80 mi, then E for 1.06 mi, then S for 0.20 mi, then N across the pad for 0.08 mi, then NE for 0.01 mi, then NW for 0.03 mi, then W for 0.05 mi, then S for 0.01 mi to arrive at the Caper/Lox Battery release area (32.472873, -103.704136).

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

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

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

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

From: OCDOnline@state.nm.us
Sent: Wednesday, February 19, 2025 12:47 PM
To: Jeff Broom
Subject: [EXT] The Oil Conservation Division (OCD) has accepted the application, Application ID: 433536

To whom it may concern (c/o Jeff Broom for MEWBOURNE OIL CO),

The OCD has received the submitted *Notification for (Final) Sampling of a Release (C-141N)*, for incident ID (n#) nAPP2504558538.

The sampling event is expected to take place:

When: 02/26/2025 @ 07:30

Where: L-17-21S-32E 0 FNL 0 FEL (32.473,-103.70425)

Additional Information: Aaron Rios, 432-701-8602

Additional Instructions: From the intersection of US-180 and Campbell Rd (32.548808, -103.745621), head S on Campbell Rd for 5.80 mi, then E for 1.06 mi, then S for 0.20 mi, then N across the pad for 0.08 mi, then NE for 0.01 mi, then NW for 0.03 mi, then W for 0.05 mi, then S for 0.01 mi to arrive at the Caper/Lox Battery release area (32.472873, -103.704136).

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

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

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

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

From: OCDOnline@state.nm.us
Sent: Wednesday, February 19, 2025 12:48 PM
To: Jeff Broom
Subject: [EXT] The Oil Conservation Division (OCD) has accepted the application, Application ID: 433537

To whom it may concern (c/o Jeff Broom for MEWBOURNE OIL CO),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2504558538.

The sampling event is expected to take place:

When: 02/27/2025 @ 07:30

Where: L-17-21S-32E 0 FNL 0 FEL (32.473,-103.70425)

Additional Information: Aaron Rios, 432-701-8602

Additional Instructions: From the intersection of US-180 and Campbell Rd (32.548808, -103.745621), head S on Campbell Rd for 5.80 mi, then E for 1.06 mi, then S for 0.20 mi, then N across the pad for 0.08 mi, then NE for 0.01 mi, then NW for 0.03 mi, then W for 0.05 mi, then S for 0.01 mi to arrive at the Caper/Lox Battery release area (32.472873, -103.704136).

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

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

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

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

From: OCDOnline@state.nm.us
Sent: Friday, March 28, 2025 1:49 PM
To: Jeff Broom
Subject: [EXT] The Oil Conservation Division (OCD) has accepted the application, Application ID: 446684

To whom it may concern (c/o Jeff Broom for MEWBOURNE OIL CO),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2504558538.

The sampling event is expected to take place:

When: 04/01/2025 @ 07:00

Where: L-17-21S-32E 0 FNL 0 FEL (32.473,-103.70425)

Additional Information: Aaron Rios, 432-701-8602

Additional Instructions: From the intersection of US-180 and Campbell Rd (32.548808, -103.745621), head S on Campbell Rd for 5.80 mi, then E for 1.06 mi, then S for 0.20 mi, then N across the pad for 0.08 mi, then NE for 0.01 mi, then NW for 0.03 mi, then W for 0.05 mi, then S for 0.01 mi to arrive at the Caper/Lox Battery release area (32.472873, -103.704136).

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

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

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

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

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

General Information
Phone: (505) 629-6116

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

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

QUESTIONS

Action 451570

QUESTIONS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 451570
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2504558538
Incident Name	NAPP2504558538 CAPER-LOX BATTERY @ 0
Incident Type	Fire
Incident Status	Remediation Closure Report Received
Incident Facility	[fAPP2217239944] CAPER-LOX BATTERY

Location of Release Source

Please answer all the questions in this group.

Site Name	Caper-Lox Battery
Date Release Discovered	01/16/2025
Surface Owner	Federal

Incident Details

Please answer all the questions in this group.

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

Nature and Volume of Release

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

Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure Separator Produced Water Released: 13 BBL Recovered: 0 BBL Lost: 13 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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

QUESTIONS, Page 2

Action 451570

QUESTIONS (continued)

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 451570
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (2) an unauthorized release of a volume that: (a) results in a fire or is the result of a fire.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

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

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

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

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

I hereby agree and sign off to the above statement	Name: Connor Walker Title: Senior Engineer Email: cwalker@mewbourne.com Date: 04/14/2025
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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS, Page 3

Action 451570

QUESTIONS (continued)

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 451570
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization	
<i>Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	Direct Measurement
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Between 1 and 5 (mi.)
An (non-karst) unstable area	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	1330
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	6600
GRO+DRO (EPA SW-846 Method 8015M)	5340
BTEX (EPA SW-846 Method 8021B or 8260B)	66.2
Benzene (EPA SW-846 Method 8021B or 8260B)	3
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
On what estimated date will the remediation commence	02/20/2025
On what date will (or did) the final sampling or liner inspection occur	02/21/2025
On what date will (or was) the remediation complete(d)	04/01/2025
What is the estimated surface area (in square feet) that will be reclaimed	4007
What is the estimated volume (in cubic yards) that will be reclaimed	188
What is the estimated surface area (in square feet) that will be remediated	4007
What is the estimated volume (in cubic yards) that will be remediated	100
<i>These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.</i>	
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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

QUESTIONS, Page 4

Action 451570

QUESTIONS (continued)

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 451570
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	LEA LAND LANDFILL [fEEM0112342028]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Connor Walker Title: Senior Engineer Email: cwalker@mewbourne.com Date: 04/14/2025
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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

QUESTIONS, Page 5

Action 451570

QUESTIONS (continued)

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 451570
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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

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

QUESTIONS, Page 6

Action 451570

QUESTIONS (continued)

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 451570
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	446684
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	04/01/2025
What was the (estimated) number of samples that were to be gathered	1
What was the sampling surface area in square feet	200

Remediation Closure Request	
<i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	4007
What was the total volume (cubic yards) remediated	100
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	4007
What was the total volume (in cubic yards) reclaimed	0
Summarize any additional remediation activities not included by answers (above)	0
<i>The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.	
I hereby agree and sign off to the above statement	Name: Connor Walker Title: Senior Engineer Email: cwalker@mewbourne.com Date: 04/14/2025

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

General Information
Phone: (505) 629-6116

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

QUESTIONS, Page 7

Action 451570

QUESTIONS (continued)

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 451570
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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State of New Mexico
Energy, Minerals and Natural Resources
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CONDITIONS

Action 451570

CONDITIONS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 451570
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your Remediation Closure Report for Incident #NAPP2504558538 CAPER-LOX BATTERY, thank you. This Remediation Closure Report is approved.	5/15/2025