# Remediation Summary & Soil Closure Request

# Mewbourne Oil Company Thundercloud 30/29 Battery #1

Lea County, New Mexico
Unit Letter "D", Section 30, Township 18 South, Range 32 East
Latitude 32.722926 North, Longitude 103.812344 West
NMOCD Reference No. nAPP2408651560

Prepared By:

Etech Environmental & Safety Solutions, Inc.

6309 Indiana Ave, Ste. D Lubbock, Texas 79413

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 Thundercloud 30/29 Battery #1 (henceforth, "Thundercloud Battery"). Details of the release are summarized below:

Latitude:	32.722926	Longitude	-103.812344		
Januac.		d GPS are in WGS84 for			
Site Name: Thur	adercloud 30/29 Battery #1	Site Type:	Tank Battery		
Date Release Discovere	ed: 3/15/2024	API # (if appl	icable): N/A		
	ction Township 30 18S	Range 32E	County Lea		
Sumface Overson St					
Surface Owner: Sta	ate X Federal Tribal	Private (N	ame		
	Nature ar	nd Volume of	Release		
Crude Oil	Volume Released (bbls)		Volume Recovered (bbls)		
X Produced Water	Volume Released (bbls)	113	Volume Recovered (bbls) 60		
	Is the concentration of disso the produced water > 10,00		X Yes No N/A		
Condensate	Volume Released (bbls)		Volume Recovered (bbls)		
Natural Gas	Volume Released (Mcf)		Volume Recovered (Mcf)		
Other (describe)	Volume/Weight Released		Volume/Weight Recovered		
Cause of Release:					
Lightning (Production	Tank)				
	In	nitial Response			
<b>=</b>	elease has been stopped.				
	has been secured to protect hu				
			absorbent pad, or other containment devices		
X All free liquids and	l recoverable materials have be				

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

### 2.0 SITE CHARACTERIZATION

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (bgs)?	Between 100 and 500 (ft.)
What method was used to determine the depth to groundwater?	Direct Measurement
Did the release impact groundwater or surface water?	Yes X 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?	Greater than 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?	> 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 1,000 (ft.) and ½ (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field?	Between 1 and 5 (mi.)
A wetland?	Between 1 and 5 (mi.)
A subsurface mine?	Greater than 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?	Yes X 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 Thundercloud Battery release site.

Probable groundwater depth was determined using data generated by numeric models based on available water well data and published information. In addition, on March 25, 2024, an investigative soil boring was drilled nearby in an effort to determine if shallow groundwater is present in the area. The soil boring was advanced to a total depth of approximately 105 feet bgs and left open for over 72 hours. No indications of inflow and/or accumulation of water were noted during the advancement of the soil boring or prior to plugging and abandonment. In addition, a groundwater gauging event conducted on April 4, 2024, confirmed that the borehole was dry. The location of the investigative soil bore is depicted in Figures 2A, 2B, and 4. A drilling log is provided in 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 Thundercloud Battery release site are as follows:

Probable Depth to Groundwater	Constituent	Laboratory Analytical Method	Closure Criteria*†	Reclamation Standard*‡
	Chloride (Cl-)	EPA** 300.0 or SM4500 Cl B	20,000	600
Between 100 and	Total Petroleum Hydrocarbons (TPH)	EPA SW-846 Method 8015M Ext	2,500	100
500 (ft.)	Gas Range Organics + Diesel Range Organics (GRO+DRO)	EPA SW-846 Method 8015M	1,000	N/A
500 (It.)	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

<sup>\*</sup> Measured in milligrams per kilogram (mg/kg)

### 4.0 REMEDIATION ACTIVITIES SUMMARY

Requesting a remediation plan approval with this submission?	X Yes No
Have the lateral and vertical extents of contamination been fully delineated?	X Yes No
Was this release entirely contained within a lined containment area?	Yes X No
On what estimated date will (or did) the remediation commence?	5/9/2024
On what date will (or did) the final sampling or liner inspection occur?	5/15/2024
On what date will (or was) the remediation complete(d)?	5/28/2024
What is the total surface area (sq. ft.) in need of or that will eventually be reclaimed?	12,056
What is the total volume (cy) in need of or that will eventually be reclaimed?	653
What was the total surface area (sq. ft.) that has or will be remediated?	12,056
What was the total volume (cy) that has or will be remediated?	720
This remediation utilized the following processes to remediate/reduce contaminants: (Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	X Yes No
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Yes X No
(In Situ) Soil Vapor Extraction	Yes X No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Yes X No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Yes X No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Yes X No
Ground Water Abatement pursuant to 19.15.30 NMAC	Yes X No
Other (Non-listed remedial process)	Yes X 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 May 9, 2024, Etech commenced remediation activities at the Thundercloud Battery release site. In accordance with NMOCD regulatory guidelines, impacted soil affected above the NMOCD Closure Criteria and/or NMOCD Reclamation Standards was excavated and stockpiled on-site, pending transfer to an NMOCD-permitted surface waste facility for disposal. Olfactory/visual senses and/or a chloride test kit were utilized to field-screen the horizontal and vertical extent of impacted soil

<sup>\*\*</sup> Environmental Protection Agency

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

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

and to guide the excavation. The sidewalls and floor of the excavation were advanced until field tests and field observations suggested that BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standards. Representative five-point composite confirmation soil samples were collected every 200 square feet from the sidewalls and floor of the excavated area to be submitted for laboratory analysis. A summary of soil sampling events is provided below:

Constituent	Highest Observable Concentration	Sample ID	Sample Date	Sample Depth (ft bgs)	Soil Status
Chloride	544	FL 32 @ 1.5'	5/13/2024	1.5	In-Situ
ТРН	<30.0	All submitted samples	5/13 - 5/15/2024	0 - 7	In-Situ
GRO+DRO	<20.0	All submitted samples	5/13 - 5/15/2024	0 - 7	In-Situ
BTEX	<0.300	All submitted samples	5/13 - 5/15/2024	0 - 7	In-Situ
Benzene	< 0.050	All submitted samples	5/13 - 5/15/2024	0 - 7	In-Situ

Please reference Table 1 for additional information.

On May 13, 2024, Etech collected 37 confirmation soil samples (FL 1 @ 1' through FL 32 @ 1.5', FL 36 @ 1.5', EW 1, EW 2, WW 1, and WW 2) from the floor and sidewalls of the excavated area. The soil samples were submitted to a certified, commercial laboratory (henceforth, "the laboratory") for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples.

On May 14, 2024, Etech collected 16 confirmation soil samples (FL 33 @ 2', FL 34 @ 2', FL 35 @ 2', FL 37 @ 1.5' through FL 44 @ 1.5', NW 2, EW 3, SW 1, WW 3, and WW 4) from the floor and sidewalls of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples.

On May 15, 2024, Etech collected nine (9) confirmation soil samples (FL 45 @ 1.5' through FL 50 @ 7', NW 1, EW 4, and WW 5) from the floor and sidewalls of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples.

The final dimensions of the excavated area were approximately 206 to 388 feet in length, five (5) to 35 feet in width, and one (1) to seven (7) feet in depth. During the course of remediation activities, Etech transported approximately 720 cubic yards of impacted soil to an NMOCD-permitted surface waste facility for disposal and imported approximately 720 cubic yards of locally sourced, non-impacted material to the site for use as backfill.

Soil sample locations and the extent of the excavated area are depicted in Figure 3, "Sample Location Map". Soil chemistry data is summarized in Table 1. General photographs of the site are provided in Appendix B. Field data is 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?	Yes X No			
Requesting a remediation closure approval with this submission?	X Yes No			
Have the lateral and vertical extents of contamination been fully delineated?	X Yes No			
Was this release entirely contained within a lined containment area?	Yes X 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.	X Yes No			
What was the total surface area (sq. ft.) remediated?	12,056			
What was the total volume (cy) remediated?	720			

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

Based on laboratory analytical results and field activities conducted to date, Etech recommends 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 Thundercloud Battery release site.

## 6.0 RESTORATION, RECLAMATION & RE-VEGETATION PLAN

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

On May 14, 2024, in accordance with the NMOCD, a 5-point composite soil sample (Backfill) was collected from the imported material stockpiled on-site to be utilized as backfill. The soil sample was submitted to the laboratory for analysis of BTEX, TPH, and chloride concentrations. Laboratory analytical results indicated that the BTEX, TPH, and chloride concentrations in the soil sample were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards and confirmed that the material was acceptable for use as backfill.

Upon receiving laboratory analytical results from confirmation soil samples, from May 22 through May 28, 2024, the excavated area was backfilled with locally sourced, non-impacted "like" material placed at or near original relative positions. The affected areas were contoured and/or compacted to achieve erosion control, stability and preservation of surface water flow to the extent practicable.

The release was limited to the production pad of an active tank battery and did not impact the adjacent pasture. Final reclamation will be conducted upon decommissioning and abandonment of the facility. The reclaimed area will be revegetated with a certified weed-free BLM #2 seed mix (or other agency and/or landowner-approved seed mix) during the first favorable growing season following closure of the facility. The seed will be installed at the prescribed rate utilizing either a seed drill or a broadcaster and harrow.

### 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

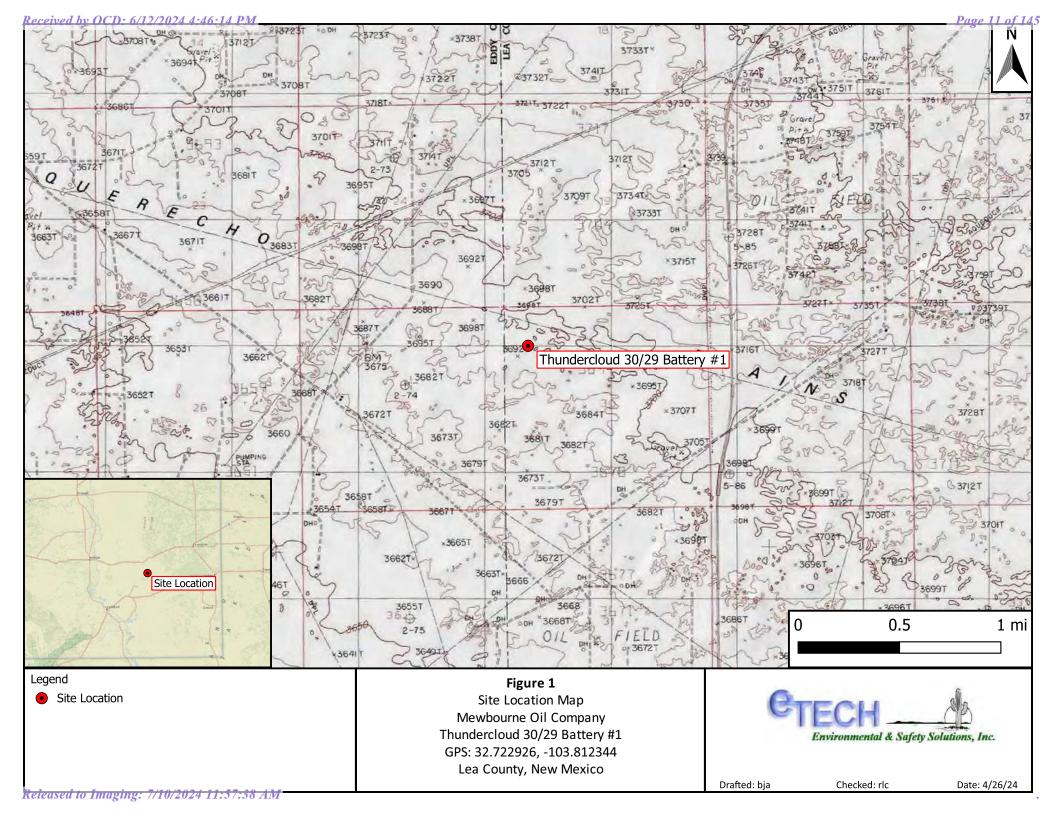
Mewbourne Oil Company 4801 Business Park Blvd. Hobbs, NM 88240

New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division, District 1 1220 South St. Francis Drive Santa Fe, NM 87505

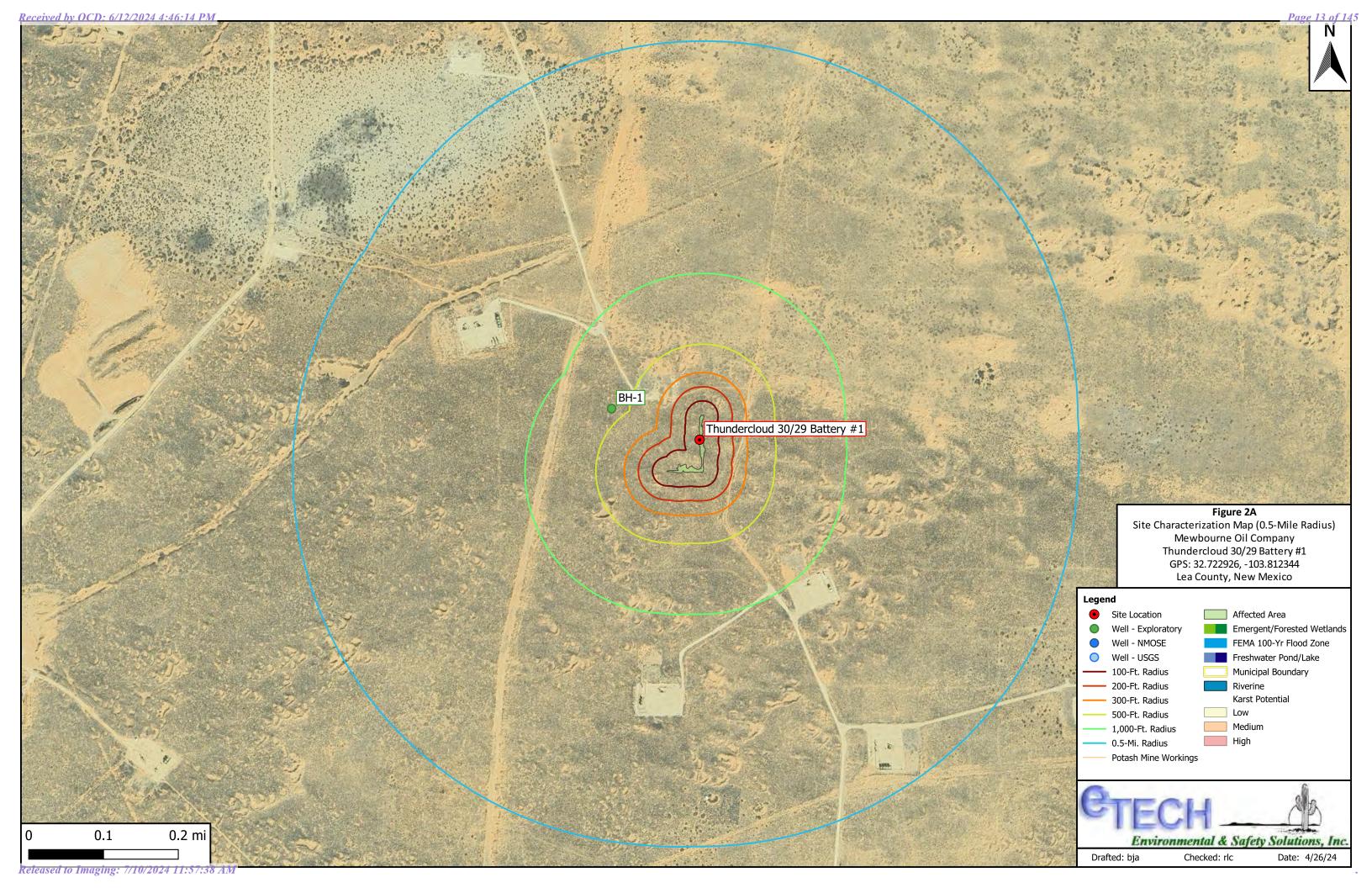
United States Department of the Interior Bureau of Land Management 620 E. Greene Street Carlsbad, NM 88220

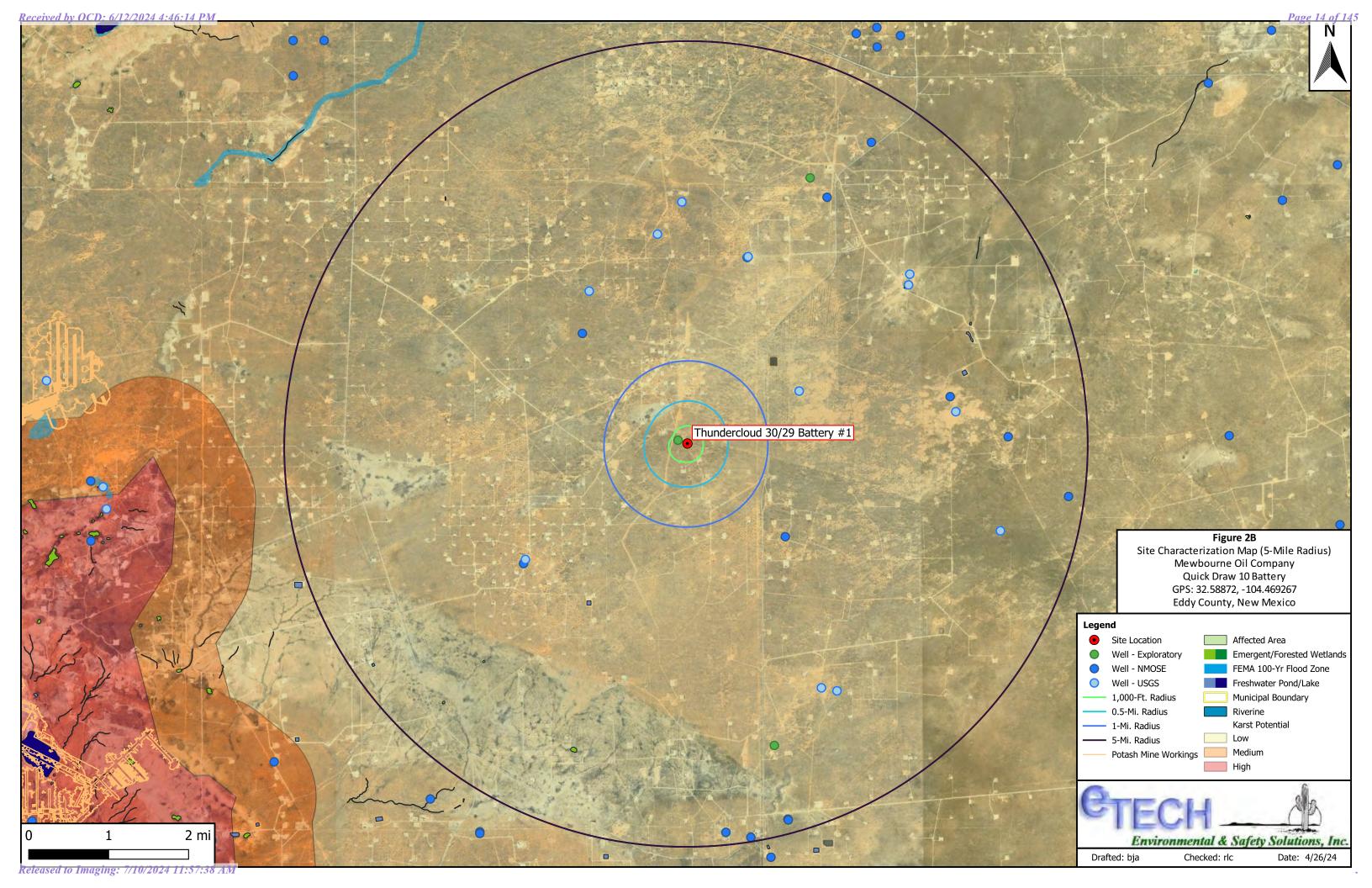
(Electronic Submission)

# Figure 1 Site Location Map

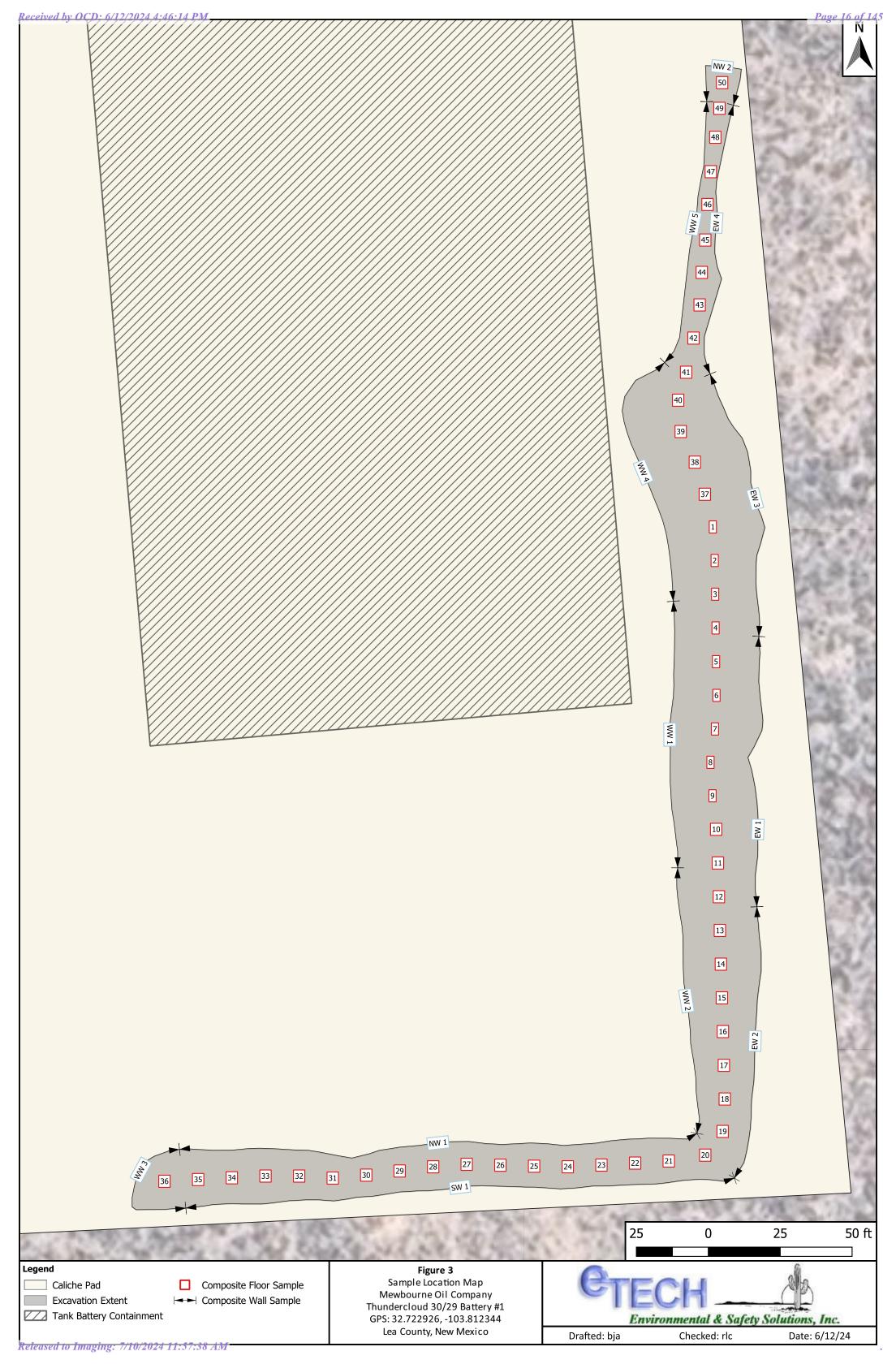


# Figures 2A & 2B Site Characterization Maps





# Figure 3 Sample Location Map



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

# Table 1 Concentrations of BTEX, TPH & Chloride in Soil **Mewbourne Oil Company** Thundercloud 30/29 Battery #1

NMOCD Ref. #: nAPP2408651560											
NI	MOCD Closure	e Criteria		10	50	N/A	N/A	1,000	N/A	2,500	20,000
NMO	CD Reclamati	on Standa	rd	10	50	N/A	N/A	N/A	N/A	100	600
				SW 840	6 8021B		SW	846 8015M	Ext.	T	4500 Cl
Sample ID	Date	Depth (Feet)	Soil Status	Benzene (mg/kg)	BTEX (mg/kg)	GRO C <sub>6</sub> -C <sub>10</sub> (mg/kg)	DRO C <sub>10</sub> -C <sub>28</sub> (mg/kg)	GRO + DRO C <sub>6</sub> -C <sub>28</sub> (mg/kg)	ORO C <sub>28</sub> -C <sub>36</sub> (mg/kg)	TPH C <sub>6</sub> -C <sub>36</sub> (mg/kg)	Chloride (mg/kg)
FL 1 @ 1'	5/13/2024	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
FL 2 @ 1'	5/13/2024	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	464
FL 3 @ 1.5'	5/13/2024	1.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
FL 4 @ 1'	5/13/2024	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	400
FL 5 @ 1.5'	5/13/2024	1.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 6 @ 1'	5/13/2024	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 7 @ 1'	5/13/2024	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	< 20.0	<10.0	<30.0	96.0
FL 8 @ 1'	5/13/2024	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	< 20.0	<10.0	<30.0	16.0
FL 9 @ 1'	5/13/2024	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 10 @ 1'	5/13/2024	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 11 @ 1'	5/13/2024	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 12 @ 1'	5/13/2024	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL 13 @ 1'	5/13/2024	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FL 14 @ 1'	5/13/2024	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	400
FL 15 @ 1'	5/13/2024	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL 16 @ 1'	5/13/2024	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FL 17 @ 1'	5/13/2024	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 18 @ 1'	5/13/2024	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
FL 19 @ 1'	5/13/2024	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FL 20 @ 1.5'	5/13/2024	1.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 21 @ 1.5'	5/13/2024	1.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
FL 22 @ 1.5'	5/13/2024	1.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 23 @ 1.5'	5/13/2024	1.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 24 @ 1'	5/13/2024	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 25 @ 1.5'	5/13/2024	1.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 26 @ 1.5'	5/13/2024	1.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	368
FL 27 @ 1.5'	5/13/2024	1.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 28 @ 1.5'	5/13/2024	1.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	352
FL 29 @ 1.5'	5/13/2024	1.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 30 @ 1.5'	5/13/2024	1.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 31 @ 1.5'	5/13/2024	1.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
FL 32 @ 1.5'	5/13/2024	1.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	544
FL 33 @ 2'	5/14/2024	2	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	336
FL 34 @ 2'	5/14/2024	2	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 35 @ 2'	5/14/2024	2	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 36 @ 1.5'	5/13/2024	1.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 37 @ 1.5'	5/14/2024	1.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 38 @ 1.5'	5/14/2024	1.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 39 @ 1.5'	5/14/2024	1.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL 40 @ 1.5'	5/14/2024	1.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 41 @ 1.5'	5/14/2024	1.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 42 @ 1.5'	5/14/2024	1.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	< 20.0	<10.0	<30.0	32.0

# Table 1 Concentrations of BTEX, TPH & Chloride in Soil Mewbourne Oil Company Thundercloud 30/29 Battery #1

NMOCD Ref. #: nAPP2408651560											
AOCD Closure	Criteria		10	50	N/A	N/A	1,000	N/A	2,500	20,000	
CD Reclamation	on Standa	ırd	10	50	N/A	N/A	N/A	N/A	100	600	
			SW 840	6 8021B		SW	846 8015M	Ext.		4500 Cl	
Date	Depth (Feet)	Soil Status	Benzene (mg/kg)	BTEX (mg/kg)	GRO C <sub>6</sub> -C <sub>10</sub> (mg/kg)	DRO C <sub>10</sub> -C <sub>28</sub> (mg/kg)	GRO + DRO C <sub>6</sub> -C <sub>28</sub> (mg/kg)	ORO C <sub>28</sub> -C <sub>36</sub> (mg/kg)	TPH C <sub>6</sub> -C <sub>36</sub> (mg/kg)	Chloride (mg/kg)	
5/14/2024	1.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	< 20.0	<10.0	< 30.0	<16.0	
5/14/2024	1.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0	
5/15/2024	1.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256	
5/15/2024	1.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0	
5/15/2024	1.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0	
5/15/2024	1.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0	
5/15/2024	1.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272	
5/15/2024	7	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256	
5/15/2024	0-2	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0	
5/14/2024	0-7	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0	
5/13/2024	0-1.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0	
5/13/2024	0-1.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0	
5/14/2024	0-1.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160	
5/15/2024	0-1.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0	
5/14/2024	0-2	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0	
5/13/2024	0-1.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0	
5/13/2024	0-1.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0	
5/14/2024	0-1.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	< 20.0	<10.0	<30.0	<16.0	
5/14/2024	0-1.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0	
5/15/2024	0-1.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	< 20.0	<10.0	<30.0	304	
	5/14/2024 5/14/2024 5/15/2024 5/15/2024 5/15/2024 5/15/2024 5/15/2024 5/15/2024 5/15/2024 5/15/2024 5/15/2024 5/13/2024 5/13/2024 5/14/2024 5/13/2024 5/13/2024 5/13/2024 5/13/2024 5/13/2024 5/13/2024 5/13/2024 5/13/2024	Date         Depth (Feet)           5/14/2024         1.5           5/14/2024         1.5           5/15/2024         1.5           5/15/2024         1.5           5/15/2024         1.5           5/15/2024         1.5           5/15/2024         1.5           5/15/2024         7           5/15/2024         0-2           5/14/2024         0-1.5           5/13/2024         0-1.5           5/14/2024         0-1.5           5/13/2024         0-1.5           5/13/2024         0-1.5           5/13/2024         0-1.5           5/13/2024         0-1.5           5/14/2024         0-1.5           5/14/2024         0-1.5           5/14/2024         0-1.5           5/14/2024         0-1.5           5/14/2024         0-1.5           5/14/2024         0-1.5	Date   Depth (Feet)   Soil Status	Depth (Feet)   Soil Status   Sw 84e	Depth (Feet)   Soil Status   Sw 846 8021B	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{ c c c c c c c } \hline \textbf{10} & \textbf{50} & \textbf{N/A} & \textbf{N/A} \\ \hline \textbf{CD Reclamation Standard} & \textbf{10} & \textbf{50} & \textbf{N/A} & \textbf{N/A} \\ \hline \textbf{Date} & \textbf{Depth} & \textbf{Soil Status} & \textbf{Benzene} & \textbf{BTEX} & \textbf{GRO} & \textbf{C}_6 \cdot \textbf{C}_{10} & \textbf{Cmg/kg} \\ \hline \textbf{Soil Status} & \textbf{Benzene} & \textbf{BTEX} & \textbf{GRO} & \textbf{C}_{10} \cdot \textbf{C}_{28} & \textbf{Cmg/kg} \\ \hline \textbf{5/14/2024} & \textbf{1.5} & \textbf{In-Situ} & \textbf{<0.050} & \textbf{<0.300} & \textbf{<10.0} & \textbf{<10.0} \\ \hline \textbf{5/15/2024} & \textbf{1.5} & \textbf{In-Situ} & \textbf{<0.050} & \textbf{<0.300} & \textbf{<10.0} & \textbf{<10.0} \\ \hline \textbf{5/15/2024} & \textbf{1.5} & \textbf{In-Situ} & \textbf{<0.050} & \textbf{<0.300} & \textbf{<10.0} & \textbf{<10.0} \\ \hline \textbf{5/15/2024} & \textbf{1.5} & \textbf{In-Situ} & \textbf{<0.050} & \textbf{<0.300} & \textbf{<10.0} & \textbf{<10.0} \\ \hline \textbf{5/15/2024} & \textbf{1.5} & \textbf{In-Situ} & \textbf{<0.050} & \textbf{<0.300} & \textbf{<10.0} & \textbf{<10.0} \\ \hline \textbf{5/15/2024} & \textbf{1.5} & \textbf{In-Situ} & \textbf{<0.050} & \textbf{<0.300} & \textbf{<10.0} & \textbf{<10.0} \\ \hline \textbf{5/15/2024} & \textbf{1.5} & \textbf{In-Situ} & \textbf{<0.050} & \textbf{<0.300} & \textbf{<10.0} & \textbf{<10.0} \\ \hline \textbf{5/15/2024} & \textbf{1.5} & \textbf{In-Situ} & \textbf{<0.050} & \textbf{<0.300} & \textbf{<10.0} & \textbf{<10.0} \\ \hline \textbf{5/15/2024} & \textbf{1.5} & \textbf{In-Situ} & \textbf{<0.050} & \textbf{<0.300} & \textbf{<10.0} & \textbf{<10.0} \\ \hline \textbf{5/15/2024} & \textbf{7} & \textbf{In-Situ} & \textbf{<0.050} & \textbf{<0.300} & \textbf{<10.0} & \textbf{<10.0} \\ \hline \textbf{5/15/2024} & \textbf{7} & \textbf{In-Situ} & \textbf{<0.050} & \textbf{<0.300} & \textbf{<10.0} & \textbf{<10.0} \\ \hline \textbf{5/15/2024} & \textbf{0-2} & \textbf{In-Situ} & \textbf{<0.050} & \textbf{<0.300} & \textbf{<10.0} & \textbf{<10.0} \\ \hline \textbf{5/13/2024} & \textbf{0-1.5} & \textbf{In-Situ} & \textbf{<0.050} & \textbf{<0.300} & \textbf{<10.0} & \textbf{<10.0} \\ \hline \textbf{5/13/2024} & \textbf{0-1.5} & \textbf{In-Situ} & \textbf{<0.050} & \textbf{<0.300} & \textbf{<10.0} & \textbf{<10.0} \\ \hline \textbf{5/14/2024} & \textbf{0-1.5} & \textbf{In-Situ} & \textbf{<0.050} & \textbf{<0.300} & \textbf{<10.0} & \textbf{<10.0} \\ \hline \textbf{5/13/2024} & \textbf{0-1.5} & \textbf{In-Situ} & \textbf{<0.050} & \textbf{<0.300} & \textbf{<10.0} & \textbf{<10.0} \\ \hline \textbf{5/13/2024} & \textbf{0-1.5} & \textbf{In-Situ} & \textbf{<0.050} & \textbf{<0.300} & \textbf{<10.0} & \textbf{<10.0} \\ \hline \textbf{5/13/2024} & \textbf{0-1.5} & \textbf{In-Situ} & \textbf{<0.050} & \textbf{<0.300} & \textbf{<10.0} & \textbf{<10.0} \\ \hline \textbf{<1.00} & \textbf{<10.0} & \textbf{<10.0} & \textbf{<10.0} \\ \hline \textbf{<1.100} & \textbf{<10.0} & \textbf{<10.0} & \textbf{<10.0} \\ \hline \textbf{<1.100} & \textbf{<10.0} & \textbf{<10.0} & \textbf{<10.0} \\ \hline \textbf{<1.100} & \textbf{<10.0} & \textbf{<10.0} & \textbf{<10.0} \\ \hline <1$	NMOCD   Ref. #: nAPP240865   1560   1,000	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	NMOCD   Ref. #: nAPP240865  560    N/A   N/A   1,000   N/A   2,500   N/A   N/A	

Backfill

5/14/2024

N/A

Backfill

< 0.050

< 0.300

<10.0

<10.0

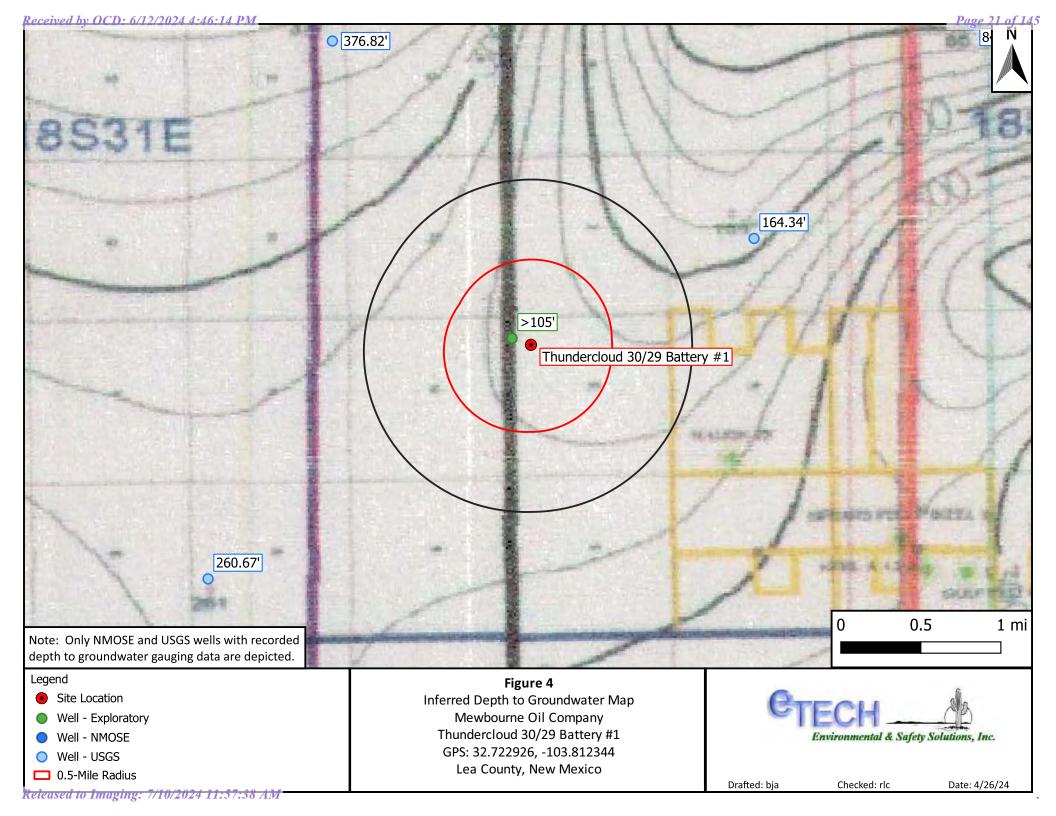
<20.0

<10.0

<30.0

96.0

# Appendix A Depth to Groundwater Information





## Soil Boring/Temporary Monitor Well BH-1

**Company:** Mewbourne Oil Company **Site:** Thundercloud 30/29 Battery #1

NMOCD Reference #: nAPP2408651560

Location: Lea Co., NM

PLSS: UL/ "D" Sec. 30, T18S, R32E

Well/Borehole ID: BH-1

Coordinates (NAD 83): 32.723539,-103.814360

Drilling Date: 3/25/2024

Depth of Boring (ft): 105

Depth to Groundwater (ft): >105

Plugging Date: 4/4/2024

Drilling Company: H&R Enterprises, LLC

Driller: Jim Hawley

Drilling Method: Air Rotary Logged By: Jim Hawley Drafted By: Ben J. Arguijo Draft Date: 4/26/2024

Casing: 2" PVC Screen: 0.020" Slotted

Completion: N/A
Comments: N/A

Comm	ients.	11//					
Depth (ft)	Groundwater	Lithology	Material Description	Petroleum Odor	Petroleum Stain	PID Reading	Well Construction
_							
0			Caliche 100%	N	N	-	
<del>-</del> 5		. S	Sand 30% - Caliche 70%	N	N	-	
<del>-</del> 10			Sand 100%	N	N	_	
15 				N	N	_	
20			Caliche 100%	N	N	_	
25			Clay 90% - Sand 10%	N N	N		
30						-	
_ 35				N	N	-	
_ 40				N	N	-	<u> </u>
_ 45				N	N	-	Open Hole, No Annular Fill
_ _ 50				N	N	-	Annul
- - - 55				N	N	-	, No.
E				N	N	-	Hole
60				N	N	-	Open
<del>-</del> 65				N	N	-	
<del>-</del> 70				N	N	-	
_ 75 _				N	N	_	
80		//.	Gravel 60% - Sand40%	N	N		
85				N	N	-	
90						-	
95				N	N	-	
_ _ 100				N	N	-	
105				N	N	-	
110			Notes: • Lines between material types represent approximate boundaries. Actual transitions				
115			may be gradual.  • The exploratory soil boring was left open for over 72 hours. No indications of inflow and/or accumulation of water were noted during the advancement of the soil boring or prior to plugging and abandonment.				

**Disclaimer** This bore log is intended for environmental not geotechnical purposes.



# New Mexico Office of the State Engineer Water Column/Average Depth to Water

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

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

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

C=the file is (quarters are smallest to closed) (quarters are smallest to

largest) (NAD83 UTM in meters) (In feet)

 POD

 Sub Q Q Q
 Water

 POD Number
 Code
 basin County 6416 4 Sec Tws Rng
 X
 Y
 DistanceDepthWellDepthWaterColumn

 CP 01938 POD1
 CP
 LE
 1
 4
 1
 32
 18S
 32E
 613277
 3619332
 2719
 51

Average Depth to Water:

Minimum Depth:

Maximum Depth: --

**Record Count:**1

UTMNAD83 Radius Search (in meters):

**Easting (X):** 611294.68 **Northing (Y):** 3621194.77 **Radius:** 3220

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

WATER COLUMN/ AVERAGE DEPTH TO WATER

Well Tag

NA



# New Mexico Office of the State Engineer

# **Point of Diversion Summary**

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

**POD Number** Q64 Q16 Q4 Sec Tws Rng

X

18S 32E

3619332

**Driller License:** 1755 **Driller Company:** HUNGRY HORSE, LLC.

**Driller Name:** JOHN NORRIS

CP 01938 POD1

**Drill Start Date:** 01/18/2023 **Drill Finish Date:** 

01/18/2023

Plug Date:

01/25/2023

Log File Date:

02/06/2023

**PCW Rcv Date:** 

Source:

Pipe Discharge Size:

**Estimated Yield:** 

**Pump Type: Casing Size:** 

Depth Well:

51 feet

Depth Water:

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

POINT OF DIVERSION SUMMARY



N	OSE POD NO. (WELL NO.) POD 1 WELL TAG ID NO.							OSE FILE NO(S). CP 01938					
1. GENERAL AND WELL LOCATION	WELL OWN Raybaw O				PHONE (OPTIONAL)								
	WELL OWN 2626 Cole				CITY Dallas		STATI	75204	ZIP				
	WELL LOCATIO	Land	TITUDE	EGREES 32	MINUTES 42	SECOI 21.	34 <sub>N</sub>	1000000	REQUIRED: ONE TEN	TH OF A	SECOND		
NER	(FROM GI	PS) LO	NGITUDE	103	47	29.	.13 W	* DATUM RE	QUIRED: WGS 84				
1. GE			ng well location to tion 32, T18S, R32I		RESS AND COMMO	ON LANDM	IARKS – PL	SS (SECTION, TO	WNSHJIP, RANGE) WI	IERE AV	AILABLE		
	LICENSE NO		NAME OF LICENSEE	DRILLER	John Norris				NAME OF WELL DR		COMPANY orse, LLC		
	DRILLING S		DRILLING ENDED 1/18/23	DEPTH OF CO	OMPLETED WELL (	(FT)	BORE HO	DLE DEPTH (FT)	DEPTH WATER FIR	ST ENCO		)	
Z	COMPLETE	D WELL IS:	ARTESIAN *add		WATER LEVEL PLETED WELL N	IA	DATE STATIC N.						
TIO	DRILLING FLUID: AIR MUD ADDITIVES – SPECIFY:												
RMA	DRILLING N	IETHOD:	ROTARY HAM		CHECK	HERE I	F PITLESS ADA	PTER IS					
VFO	DEPTH	(feet bgl)	DODE HOLE	CASING MATERIAL AND/OR			l malan e	CASING CA		ASING WALL S			
2. DRILLING & CASING INFORMATION	FROM	ТО	BORE HOLE DIAM (inches)	(include	GRADE (include each casing string, and		CON	ASING NECTION TYPE pling diameter)	The state of the s		CASING WALL THICKNESS (inches)		
& C					No Casing		News 333						
NG													
=													
DR										1		-	
7	2			-					SCE ON S	ere er	2000	5.0	
									OSEDIF	100	ZUZJ AMBIC	1	
												:	
	DEPTH	(feet bgl)	BORE HOLE	LIST ANN	ULAR SEAL MAT			L PACK SIZE-	AMOUNT		METHO	D OF	
AL	FROM	то	DIAM. (inches)	*(if using Co	RANGE entralizers for Arte	BY INTER		e spacing below)	(cubic feet)		PLACEN		
ERI	0	10	6		bent	onite chip	S		1.96		trem	ie	
ANNULAR MATERIAL	10	51	6		na	ative soil			8.05		shov	el	
AR									11				
NOL										-			
	_			-						-			
3.													
	oon name							WE 5	A WELL BECORD	0.100	(V	12/20223	
	OSE INTER		38		POD N	NO.		TRN	NO. THO	27.		2(2022)	
-	CATION	37	185,32	C: 1	41	*		WELL TAG I	1/11	~ (		1 OF 2	

	DEPTH (fe	et bgl)	THICKNESS	COLO	R AND TYPE OF MA	ATERIAL ENCOUNT	TERED -	WA	TER	ESTIMATED YIELD FOR
4. HYDROGEOLOGIC LOG OF WELL	FROM	то	THICKNESS (feet)			AVITIES OR FRACT ts to fully describe al		100000	RING? /NO)	WATER- BEARING ZONES (gpm)
	0	10	10		red	sand		Y	✓ N	
	10	20	10		ca	liche		Y	✓ N	
	20	40	20		red	sand		Y	✓ N	
	40	47	7		sand r	ock mix		Y	✓ N	
	47	51	4		whit	e rock		Y	✓ N	
								Y	N	
								Y	N	
								Y	N	
507								Y	N	
215								Y	N	
CO								Y	N	
SEC								Y	N	
SSO								Y	N	
H								Y	N	
4								Y	N	
								Y	N	
								Y	N	
								Y	N	
								Y	N	
								Y	N	
								Y	N	
	METHOD US			OF WATER-BEA	ARING STRATA:  OTHER – SPECIF	Y:not tested		OTAL ESTI WELL YIELI		0.00
,	WELL TEST	TEST	RESULTS - ATT	ACH A COPY OF	DATA COLLECTE	D DURING WELL TI HARGE AND DRAW	ESTING, INCL	UDING DISC	CHARGE	METHOD,
TEST; RIG SUPERVISION	MISCELLAN		FORMATION: The	ne borehole was dease site. As per	drilled according to NMOCD, drill a 5	NMOCD request a 1' borehole, wait 72 per approved pluggi	s no water we hours, then g	lls exist with	in a half sence of	-mile radius of water. No water
5. 11.51	PRINT NAM	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:								
6. SIGNATURE	CORRECT R	ECORD C	DE THE ABOVE I DELDER WITHIN S	DESCRIBED HOL 30 DAYS AFTER	E AND THAT HE O COMPLETION OF V John Norris	R HER KNOWLEDG R SHE WILL FILE T VELL DRILLING:	E AND BELIE HIS WELL RE	CORD WITH	31/23	IS A TRUE ANI ATE ENGINEEI
		SIGNAT	URE OF DRILLE	ER / PRINT SIG	NEE NAME				DATE	
FOI	R OSE INTERN						-1			ersion 09/22/2022
-	ENO.	1- 10	138		POD NO.		TRN NO.	027	<u> </u>	
LO	CATION	52.	185.	32E 14	11	WELL 1	TAG ID NO.	VM		PAGE 2 OF



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# **National Water Information System: Web Interface**

USGS Water Resources	Data Category:	Geo	ographic Area:		
0505 Water Resources	Groundwater	<b>✓</b> Ur	nited States	~	GC

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■ Important: Next Generation Monitoring Location Page

# Search Results -- 1 sites found

Agency code = usgs site\_no list =

324502103495801

#### Minimum number of levels = 1

Save file of selected sites to local disk for future upload

# USGS 324502103495801 18S.31E.14.22133

Available data for this site	Groundwater:	Field measurements	~ (	GO	
Eddy County, New Mexico					
Hydrologic Unit Code 1306	0011				
Latitude 32°45'02", Longit	tude 103°49	9'58" NAD27			
Land-surface elevation 3,7	36 feet abo	ve NAVD88			
The depth of the well is 40	0 feet below	v land surface.			
This well is completed in th	ne Other aq	uifers (N9999OT	HER)	national	aquifer.

This well is completed in the Chinle Formation (231CHNL) local aquifer.

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

Graph of groundwater level data at USGS 324502103495801 18S.31E.14.22133 Breaks in the plot represent a gap of at least one year between field measurements. Download a presentation-quality graph

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

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

Page Contact Information: <u>USGS Water Data Support Team</u>

Page Last Modified: 2024-03-18 10:59:23 EDT

0.56 0.48 nadww02





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USGS Water Resources	Data Category:	Geographic Area:	
0303 Water Resources	Groundwater	✓ United States	<b>∨</b> GC

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# Search Results -- 1 sites found

Agency code = usgs site\_no list =

324356103471601

#### Minimum number of levels = 1

Save file of selected sites to local disk for future upload

# USGS 324356103471601 18S.32E.20.14411

Available data for this site	Groundwater:	Field measurements	<b>→</b> GO
Lea County, New Mexico			
Hydrologic Unit Code 1306	0011		

Latitude 32°43'56", Longitude 103°47'16" NAD27 Land-surface elevation 3,746 feet above NAVD88

The depth of the well is 270 feet below land surface.

This well is completed in the Other aguifers (N9999OTHER) national aguifer.

This well is completed in the Chinle Formation (231CHNL) local aquifer.

# **Output formats**

<u>Table of data</u>	
<u>Tab-separated data</u>	
Graph of data	
Reselect period	

Graph of groundwater level data at USGS 324356103471601 18S.32E.20.14411 Breaks in the plot represent a gap of at least one year between field measurements. <u>Download a presentation-quality graph</u>

<u>Questions or Comments</u> <u>Automated retrievals</u> <u>Help</u>

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Page Contact Information: <u>USGS Water Data Support Team</u>

Page Last Modified: 2024-03-18 10:59:22 EDT

0.56 0.49 nadww02





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USGS Water Resources	Data Category:	Geographic Area:		
03d3 Water Resources	Groundwater ~	United States	~	GO

Click forNews Bulletins

Groundwater levels for the Nation

Important: <u>Next Generation Monitoring Location Page</u>

# Search Results -- 1 sites found

**Agency code** = usgs **site\_no list** = • 324159103503801

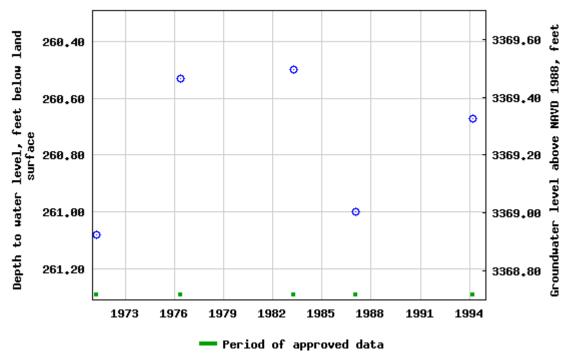
## Minimum number of levels = 1

Save file of selected sites to local disk for future upload

# USGS 324159103503801 18S.31E.35.31324

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

#### USGS 324159103503801 185,31E,35,31324



Breaks in the plot represent a gap of at least one year between field measurements. <u>Download a presentation-quality graph</u>

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U.S. Department of the Interior | U.S. Geological Survey

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

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

Page Contact Information: <u>USGS Water Data Support Team</u>

Page Last Modified: 2024-03-18 10:59:22 EDT

0.62 0.49 nadww01



# Appendix B Field Data



20138

Latitude:

Project:

Project Number:

# Sample Log

32.7231

	Date:	
Thundercloud Battery		-

Longitude:

Sample ID	PID/Odor	Chloride Conc.	GPS
Eost Wall test	1.5	(d)	
west wall test	1,3	372	
Fast wall test Fw 1		108	
EW 1	19		
WWI	10		
F(-1@1'	36		
7-2 &1'	58	2	
FL-3012	3		
FL-4 @	36		
7-5@12 7-6@1	33		
-1-6 @1	Afficia		
FL-7@1'	14		
7-801	N		
7-801' 7-961'	N		
1-1001	177		
4-11 01	NO		
1-1201	. 22		
1-13 01'	416		
1-1401	. 50		
(iu 2	N		
DW2	14		
1-1501	190		
1-16 61	41		
4-17 61	N		
EL-17 61'	41		
1-1901	41		
Su l	36		
FL -20 6 14	29		
71-21 6/2	20		
-1-22 613	26		
Vw I	N		
1-2301	90	h	
7. 23 @ 13		56	
FL-2461	N		
FL-25 @12	26		
-L-26@13	50		
Sample Point = SP #1 @ ## etc		Test Trench = TT #1 @ ##	Resamples= SP #1 @ 5b or SW #1b
Floor = FL #1 etc		Refusal = SP #1 @ 4'-R	Stockpile = Stockpile #1
Sidewall = SW #1 etc		Soil Intended to be Deferred = SP #1 @ 4' In-Situ	GPS Sample Points, Center of Comp Areas

-103.81222



# Sample Log

Project:			
Project Number:	Latitude:	Longitude:	

Sample ID	PID/Odor	Chloride Conc.	GPS
FL-27 6/2		196	
7-28 615		368	
FZ -29 @12		500	
-1-36 C/g		140	
FL-31 611/2		368	
FL-32013		328	
FL-3361/2	25-	1968 -	_ ==
12-34015		1468	
FL-35612		1372	
4-36012	2	328	100
71-37013 -		260 -	
FL - 38 6 12	1-28	227	
4-39 615		ND	
4-40 BIZ		224	
2-41 012		224	
NW 2		168	
SW2		196	
EW3 = -	s	500	
lww3	20 11 Walt 1	ND	
-1-42012		224	
FL-436 /2		NQ	-
7-440 12		168	
77-33 @ 2 -		328	
2-34 @ 2		196	
FL-35@2'		368	
WW14	-	196	-
Floor test _		1,800	
EW4		ND	
NW3		452	
WW5		500	
7-45 @ 12		406	
TL-46 @ 13		146	
1-47 013		ND	
FL-48 @15		140	
FL-49 @13		406	
FL-50 @7'		406	
Sample Point = SP #1 @ ## etc		Test Trench = TT #1 @ ##	Resamples= SP #1 @ 5b or SW #1b
FL-49 @ 12 FL-50 @ 7' Sample Point = SP #1 @ ## etc Floor = FL #1 etc Sidewall = SW #1 etc		Refusal = SP #1 @ 4'-R	Stockpile = Stockpile #1
Sidewall = SW #1 etc		Soil Intended to be Deferred = SP #1 @ 4' In-Situ	GPS Sample Points, Center of Comp Areas

# Appendix C Photographic Log

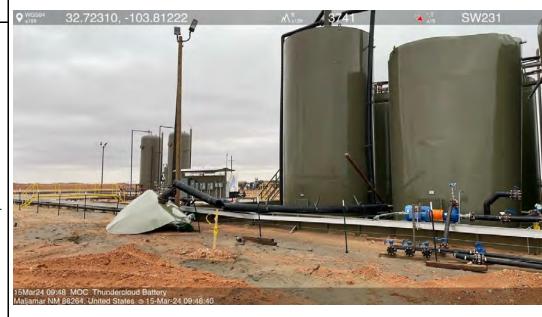
**Photo Number:** 

1

**Photo Direction:** 

Southwest

**Photo Description:** 



View of the affected area.

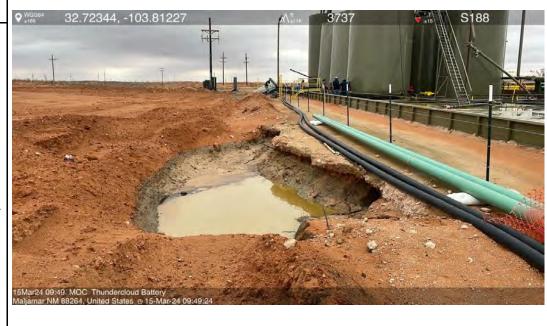
**Photo Number:** 

2

**Photo Direction:** 

South

**Photo Description:** 



View of the affected area.

**Photo Number:** 

3

**Photo Direction:** 

South

**Photo Description:** 

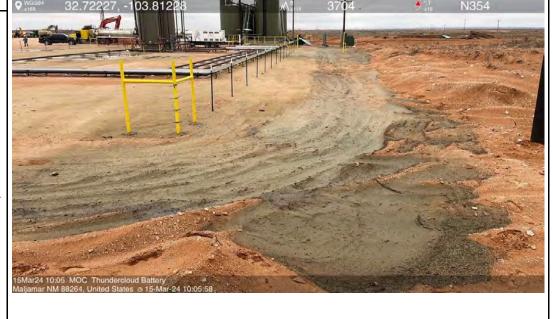


**Photo Number:** 

**Photo Direction:** 

North

**Photo Description:** 



View of the affected area.

**Photo Number:** 

5

**Photo Direction:** 

East

**Photo Description:** 

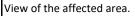


**Photo Number:** 

**Photo Direction:** 

North

**Photo Description:** 





**Photo Number:** 

7

**Photo Direction:** 

West-Southwest

**Date Taken:** 4/4/2024

**Photo Description:** 

View of exploratory soil boring BH-1.



**Photo Number:** 

8

**Photo Direction:** 

South

**Photo Description:** 

View of the excavated area prior to backfilling.



**Photo Number:** 

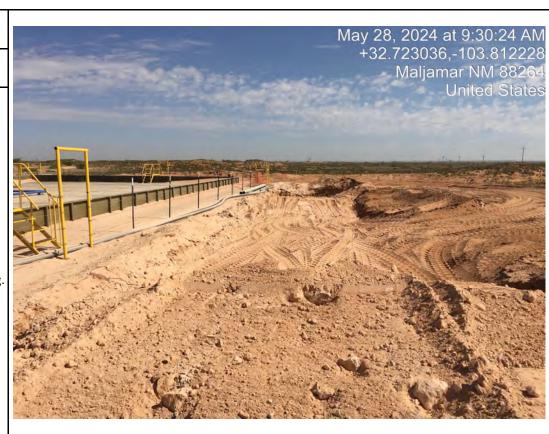
9

Photo Direction:

North

**Photo Description:** 

View of the excavated area prior to backfilling.



**Photo Number:** 

10

**Photo Direction:** 

South

Coordinates:

32.723360,-103.812261

**Photo Description:** 

View of the excavated area with top layers of native soil and caliche well pad visible.



**Photo Number:** 

11

Photo Direction:

South

**Photo Description:** 

View of the excavated area during backfilling.



**Photo Number:** 

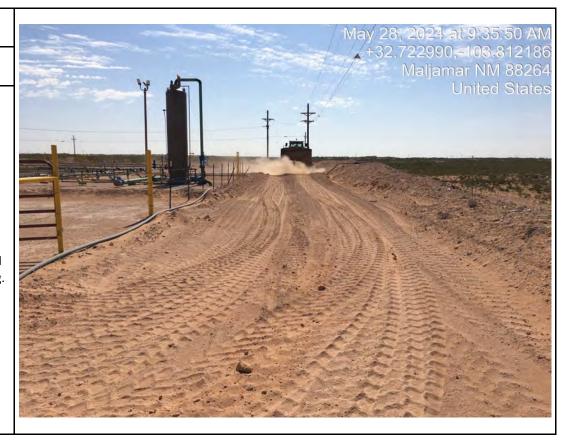
12

**Photo Direction:** 

East

**Photo Description:** 

View of the excavated area during backfilling.



**Photo Number:** 

13

Photo Direction:

South
Photo Description:

View of the remediated area following backfilling and

regrading.



**Photo Number:** 

14

**Photo Direction:** 

North-Northwest

**Photo Description:** 

View of the remediated area following backfilling and regrading.



**Photo Number:** 

15

**Photo Direction:** 

North

**Photo Description:** 

View of the remediated area following backfilling and regrading.



**Photo Number:** 

16

**Photo Direction:** 

South-Southwest

**Photo Description:** 

View of the remediated area following backfilling and regrading.



# Appendix D Laboratory Analytical Reports



May 16, 2024

LANCE CRENSHAW

Etech Environmental & Safety Solutions
2617 W MARLAND

HOBBS, NM 88240

RE: THUNDERCLOUD BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 05/13/24 15:10.

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

Cardinal Laboratories is accreditated 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.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



#### Analytical Results For:

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

Received: 05/13/2024 Sampling Date: 05/13/2024

Reported: 05/16/2024 Sampling Type: Soil

Project Name: THUNDERCLOUD BATTERY Sampling Condition: Cool & Intact
Project Number: 20138 Sample Received By: Tamara Oldaker

A ... - L ... - - - I D. .. MC

Project Location: MEWBOURNE 32.7231, -103.81222

#### Sample ID: FL 1 @ 1' (H242601-01)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2024	ND	2.01	100	2.00	2.52	
Toluene*	<0.050	0.050	05/15/2024	ND	2.09	105	2.00	3.35	
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	2.16	108	2.00	1.48	
Total Xylenes*	<0.150	0.150	05/15/2024	ND	6.50	108	6.00	1.78	
Total BTEX	<0.300	0.300	05/15/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	118 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	05/15/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/14/2024	ND	195	97.6	200	2.69	
DRO >C10-C28*	<10.0	10.0	05/14/2024	ND	181	90.7	200	8.33	
EXT DRO >C28-C36	<10.0	10.0	05/14/2024	ND					
Surrogate: 1-Chlorooctane	91.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	80.3	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



#### Analytical Results For:

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

Fax To:

Received: 05/13/2024 Sampling Date: 05/13/2024

Reported: 05/16/2024 Sampling Type: Soil

Project Name: THUNDERCLOUD BATTERY Sampling Condition: Cool & Intact
Project Number: 20138 Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: MEWBOURNE 32.7231, -103.81222

mg/kg

#### Sample ID: FL 2 @ 1' (H242601-02)

BTEX 8021B

	9/	9	7	7: : : :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2024	ND	2.01	100	2.00	2.52	
Toluene*	<0.050	0.050	05/15/2024	ND	2.09	105	2.00	3.35	
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	2.16	108	2.00	1.48	
Total Xylenes*	<0.150	0.150	05/15/2024	ND	6.50	108	6.00	1.78	
Total BTEX	<0.300	0.300	05/15/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	05/15/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/14/2024	ND	195	97.6	200	2.69	
DRO >C10-C28*	<10.0	10.0	05/14/2024	ND	181	90.7	200	8.33	
EXT DRO >C28-C36	<10.0	10.0	05/14/2024	ND					
Surrogate: 1-Chlorooctane	103	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.6	% 49.1-14	8						

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Celey D. Keine



Tamara Oldaker

#### Analytical Results For:

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

Received: 05/13/2024 Reported: 05/16/2024

05/13/2024Sampling Date:05/13/202405/16/2024Sampling Type:SoilTHUNDERCLOUD BATTERYSampling Condition:Cool & Intact

Sample Received By:

Project Name: THUNE Project Number: 20138

Project Location: MEWBOURNE 32.7231, -103.81222

#### Sample ID: FL 3 @ 1.5' (H242601-03)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2024	ND	2.01	100	2.00	2.52	
Toluene*	<0.050	0.050	05/15/2024	ND	2.09	105	2.00	3.35	
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	2.16	108	2.00	1.48	
Total Xylenes*	<0.150	0.150	05/15/2024	ND	6.50	108	6.00	1.78	
Total BTEX	<0.300	0.300	05/15/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	117	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	05/15/2024	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/14/2024	ND	195	97.6	200	2.69	
DRO >C10-C28*	<10.0	10.0	05/14/2024	ND	181	90.7	200	8.33	
EXT DRO >C28-C36	<10.0	10.0	05/14/2024	ND					
Surrogate: 1-Chlorooctane	99.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.9	% 49.1-14	8						

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Celey D. Keine



#### Analytical Results For:

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

Analyzed By: MS

Received: 05/13/2024 Reported: 05/16/2024 Sampling Date: 05/13/2024 Sampling Type: Soil

Project Name: THUNDERCLOUD BATTERY Sampling Condition: Cool & Intact Tamara Oldaker

Project Number: 20138

Sample Received By:

Project Location: MEWBOURNE 32.7231, -103.81222

mg/kg

#### Sample ID: FL 4 @ 1' (H242601-04)

BTEX 8021B

	9,	9	7	7					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2024	ND	2.01	100	2.00	2.52	
Toluene*	<0.050	0.050	05/15/2024	ND	2.09	105	2.00	3.35	
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	2.16	108	2.00	1.48	
Total Xylenes*	<0.150	0.150	05/15/2024	ND	6.50	108	6.00	1.78	
Total BTEX	<0.300	0.300	05/15/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	118	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	05/15/2024	ND	432	108	400	3.64	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/14/2024	ND	195	97.6	200	2.69	
DRO >C10-C28*	<10.0	10.0	05/14/2024	ND	181	90.7	200	8.33	
EXT DRO >C28-C36	<10.0	10.0	05/14/2024	ND					
Surrogate: 1-Chlorooctane	92.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	80.2	% 49.1-14	8						

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Celey D. Keene



#### Analytical Results For:

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

Applyzod By: MC

Received: 05/13/2024 Reported: 05/16/2024 Sampling Date: 05/13/2024 Sampling Type: Soil

Project Name: THUNDERCLOUD BATTERY Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

Project Number: 20138

Project Location: MEWBOURNE 32.7231, -103.81222

#### Sample ID: FL 5 @ 1.5' (H242601-05)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2024	ND	2.01	100	2.00	2.52	
Toluene*	<0.050	0.050	05/15/2024	ND	2.09	105	2.00	3.35	
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	2.16	108	2.00	1.48	
Total Xylenes*	<0.150	0.150	05/15/2024	ND	6.50	108	6.00	1.78	
Total BTEX	<0.300	0.300	05/15/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	118	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/15/2024	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/15/2024	ND	195	97.6	200	2.69	
DRO >C10-C28*	<10.0	10.0	05/15/2024	ND	181	90.7	200	8.33	
EXT DRO >C28-C36	<10.0	10.0	05/15/2024	ND					
Surrogate: 1-Chlorooctane	107	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.1	% 49.1-14	8						

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Celey D. Keene



#### Analytical Results For:

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

Fax To:

Received: 05/13/2024 Sampling Date: 05/13/2024

Reported: 05/16/2024 Sampling Type: Soil

Project Name: THUNDERCLOUD BATTERY Sampling Condition: Cool & Intact
Project Number: 20138 Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: MEWBOURNE 32.7231, -103.81222

mg/kg

#### Sample ID: FL 6 @ 1' (H242601-06)

BTEX 8021B

	9,	9	7	7: : : :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2024	ND	2.01	100	2.00	2.52	
Toluene*	<0.050	0.050	05/15/2024	ND	2.09	105	2.00	3.35	
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	2.16	108	2.00	1.48	
Total Xylenes*	<0.150	0.150	05/15/2024	ND	6.50	108	6.00	1.78	
Total BTEX	<0.300	0.300	05/15/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	117	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/15/2024	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/15/2024	ND	195	97.6	200	2.69	
DRO >C10-C28*	<10.0	10.0	05/15/2024	ND	181	90.7	200	8.33	
EXT DRO >C28-C36	<10.0	10.0	05/15/2024	ND					
Surrogate: 1-Chlorooctane	100	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.9	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



#### Analytical Results For:

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

Fax To:

Received: 05/13/2024 Sampling Date: 05/13/2024

Reported: 05/16/2024 Sampling Type: Soil

Project Name: THUNDERCLOUD BATTERY Sampling Condition: Cool & Intact
Project Number: 20138 Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: MEWBOURNE 32.7231, -103.81222

mg/kg

#### Sample ID: FL 7 @ 1' (H242601-07)

BTEX 8021B

DILX OUZID	ıııg,	, kg	Andryzo	a by. 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2024	ND	2.01	100	2.00	2.52	
Toluene*	<0.050	0.050	05/15/2024	ND	2.09	105	2.00	3.35	
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	2.16	108	2.00	1.48	
Total Xylenes*	<0.150	0.150	05/15/2024	ND	6.50	108	6.00	1.78	
Total BTEX	<0.300	0.300	05/15/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	115	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	05/15/2024	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/14/2024	ND	193	96.3	200	1.16	
DRO >C10-C28*	<10.0	10.0	05/14/2024	ND	191	95.5	200	3.47	
EXT DRO >C28-C36	<10.0	10.0	05/14/2024	ND					
Surrogate: 1-Chlorooctane	108	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	118	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



#### Analytical Results For:

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

05/13/2024 Reported: 05/16/2024

Project Name: THUNDERCLOUD BATTERY

Project Number: 20138

Project Location: MEWBOURNE 32.7231, -103.81222 Sampling Date: 05/13/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

#### Sample ID: FL 8 @ 1' (H242601-08)

Received:

BTEX 8021B	mg/	'kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2024	ND	2.01	100	2.00	2.52	
Toluene*	<0.050	0.050	05/15/2024	ND	2.09	105	2.00	3.35	
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	2.16	108	2.00	1.48	
Total Xylenes*	<0.150	0.150	05/15/2024	ND	6.50	108	6.00	1.78	
Total BTEX	<0.300	0.300	05/15/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	117 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/15/2024	ND	432	108	400	3.64	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/14/2024	ND	193	96.3	200	1.16	
DRO >C10-C28*	<10.0	10.0	05/14/2024	ND	191	95.5	200	3.47	
EXT DRO >C28-C36	<10.0	10.0	05/14/2024	ND					
Surrogate: 1-Chlorooctane	105 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	111 9	% 49.1-14	8						

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#### Analytical Results For:

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

Fax To:

Received: 05/13/2024 Sampling Date: 05/13/2024

Reported: 05/16/2024 Sampling Type: Soil

Project Name: THUNDERCLOUD BATTERY Sampling Condition: Cool & Intact
Project Number: 20138 Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: MEWBOURNE 32.7231, -103.81222

mg/kg

#### Sample ID: FL 9 @ 1' (H242601-09)

BTEX 8021B

	9,	9	7	7					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2024	ND	2.01	100	2.00	2.52	
Toluene*	<0.050	0.050	05/15/2024	ND	2.09	105	2.00	3.35	
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	2.16	108	2.00	1.48	
Total Xylenes*	<0.150	0.150	05/15/2024	ND	6.50	108	6.00	1.78	
Total BTEX	<0.300	0.300	05/15/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	117	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/15/2024	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/14/2024	ND	193	96.3	200	1.16	
DRO >C10-C28*	<10.0	10.0	05/14/2024	ND	191	95.5	200	3.47	
EXT DRO >C28-C36	<10.0	10.0	05/14/2024	ND					
Surrogate: 1-Chlorooctane	104	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	114	% 49.1-14	8						

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#### Analytical Results For:

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

Fax To:

Received: 05/13/2024 Sampling Date: 05/13/2024

Reported: 05/16/2024 Sampling Type: Soil

Project Name: THUNDERCLOUD BATTERY Sampling Condition: Cool & Intact Project Number: Sample Received By: 20138 Tamara Oldaker

Project Location: MEWBOURNE 32.7231, -103.81222

#### Sample ID: FL 10 @ 1' (H242601-10)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2024	ND	2.01	100	2.00	2.52	
Toluene*	<0.050	0.050	05/15/2024	ND	2.09	105	2.00	3.35	
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	2.16	108	2.00	1.48	
Total Xylenes*	<0.150	0.150	05/15/2024	ND	6.50	108	6.00	1.78	
Total BTEX	<0.300	0.300	05/15/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 9	71.5-13	4						
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	05/15/2024	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/14/2024	ND	193	96.3	200	1.16	
DRO >C10-C28*	<10.0	10.0	05/14/2024	ND	191	95.5	200	3.47	
EXT DRO >C28-C36	<10.0	10.0	05/14/2024	ND					
Surrogate: 1-Chlorooctane	106 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	114 9	% 49.1-14	8						

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#### Analytical Results For:

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

Fax To:

Received: 05/13/2024 Sampling Date: 05/13/2024

Reported: 05/16/2024 Sampling Type: Soil

Project Name: THUNDERCLOUD BATTERY Sampling Condition: Cool & Intact
Project Number: 20138 Sample Received By: Tamara Oldaker

Applyzod By: MC

Project Location: MEWBOURNE 32.7231, -103.81222

#### Sample ID: FL 11 @ 1' (H242601-11)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	а ву: мѕ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2024	ND	2.01	100	2.00	2.52	
Toluene*	<0.050	0.050	05/15/2024	ND	2.09	105	2.00	3.35	
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	2.16	108	2.00	1.48	
Total Xylenes*	<0.150	0.150	05/15/2024	ND	6.50	108	6.00	1.78	
Total BTEX	<0.300	0.300	05/15/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	118	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/15/2024	ND	432	108	400	3.64	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/14/2024	ND	193	96.3	200	1.16	
DRO >C10-C28*	<10.0	10.0	05/14/2024	ND	191	95.5	200	3.47	
EXT DRO >C28-C36	<10.0	10.0	05/14/2024	ND					
Surrogate: 1-Chlorooctane	103	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	112	% 49.1-14	8						

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05/13/2024

Soil

#### Analytical Results For:

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

Applyzod By: MC

Received: 05/13/2024

05/13/2024 Sampling Date: 05/16/2024 Sampling Type:

Project Name: THUNDI Project Number: 20138

THUNDERCLOUD BATTERY Sampling Condition: Cool & Intact
20138 Sample Received By: Tamara Oldaker

Project Location: MEWBOURNE 32.7231, -103.81222

#### Sample ID: FL 12 @ 1' (H242601-12)

Reported:

RTFY 8021R

B1EX 8021B	mg	/ <b>kg</b>	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2024	ND	2.01	100	2.00	2.52	
Toluene*	<0.050	0.050	05/15/2024	ND	2.09	105	2.00	3.35	
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	2.16	108	2.00	1.48	
Total Xylenes*	<0.150	0.150	05/15/2024	ND	6.50	108	6.00	1.78	
Total BTEX	<0.300	0.300	05/15/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	117	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	05/15/2024	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/14/2024	ND	193	96.3	200	1.16	
DRO >C10-C28*	<10.0	10.0	05/14/2024	ND	191	95.5	200	3.47	
EXT DRO >C28-C36	<10.0	10.0	05/14/2024	ND					
Surrogate: 1-Chlorooctane	97.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106	% 49.1-14	8						

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#### Analytical Results For:

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

Applyzod By: MC

Received: 05/13/2024 Reported: 05/16/2024 Sampling Date: 05/13/2024 Sampling Type: Soil

Project Name: THUNDERCLOUD BATTERY Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

Project Number: 20138

Project Location: MEWBOURNE 32.7231, -103.81222

#### Sample ID: FL 13 @ 1' (H242601-13)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2024	ND	2.01	100	2.00	2.52	
Toluene*	<0.050	0.050	05/15/2024	ND	2.09	105	2.00	3.35	
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	2.16	108	2.00	1.48	
Total Xylenes*	<0.150	0.150	05/15/2024	ND	6.50	108	6.00	1.78	
Total BTEX	<0.300	0.300	05/15/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	05/15/2024	ND	432	108	400	3.64	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/14/2024	ND	193	96.3	200	1.16	
DRO >C10-C28*	<10.0	10.0	05/14/2024	ND	191	95.5	200	3.47	
EXT DRO >C28-C36	<10.0	10.0	05/14/2024	ND					
Surrogate: 1-Chlorooctane	105	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	117	% 49.1-14	8						

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

\*=Accredited Analyte



#### Analytical Results For:

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

Fax To:

Received: 05/13/2024 Sampling Date: 05/13/2024

Reported: 05/16/2024 Sampling Type: Soil

Project Name: THUNDERCLOUD BATTERY Sampling Condition: Cool & Intact Project Number: 20138 Sample Received By: Tamara Oldaker

Project Location: MEWBOURNE 32.7231, -103.81222

#### Sample ID: FL 14 @ 1' (H242601-14)

BTEX 8021B	mg/	'kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2024	ND	2.12	106	2.00	0.861	
Toluene*	<0.050	0.050	05/15/2024	ND	2.16	108	2.00	0.437	
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	2.15	108	2.00	1.08	
Total Xylenes*	<0.150	0.150	05/15/2024	ND	6.87	114	6.00	3.14	
Total BTEX	<0.300	0.300	05/15/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 5	% 71.5-13	4						
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	05/15/2024	ND	432	108	400	3.64	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/14/2024	ND	193	96.3	200	1.16	
DRO >C10-C28*	<10.0	10.0	05/14/2024	ND	191	95.5	200	3.47	
EXT DRO >C28-C36	<10.0	10.0	05/14/2024	ND					
Surrogate: 1-Chlorooctane	101 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	111 9	% 49.1-14	8						

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Celey D. Keene



#### Analytical Results For:

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

Fax To:

Received: 05/13/2024 Sampling Date: 05/13/2024

Reported: 05/16/2024 Sampling Type: Soil

Project Name: THUNDERCLOUD BATTERY Sampling Condition: Cool & Intact
Project Number: 20138 Sample Received By: Tamara Oldaker

Applyzod By: MC

Project Location: MEWBOURNE 32.7231, -103.81222

#### Sample ID: FL 15 @ 1' (H242601-15)

RTFY 8021R

BIEX 8021B	mg	/ <b>kg</b>	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2024	ND	2.12	106	2.00	0.861	
Toluene*	<0.050	0.050	05/15/2024	ND	2.16	108	2.00	0.437	
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	2.15	108	2.00	1.08	
Total Xylenes*	<0.150	0.150	05/15/2024	ND	6.87	114	6.00	3.14	
Total BTEX	<0.300	0.300	05/15/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	05/15/2024	ND	432	108	400	3.64	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/14/2024	ND	193	96.3	200	1.16	
DRO >C10-C28*	<10.0	10.0	05/14/2024	ND	191	95.5	200	3.47	
EXT DRO >C28-C36	<10.0	10.0	05/14/2024	ND					
Surrogate: 1-Chlorooctane	102	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	116	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



05/13/2024

Soil

#### Analytical Results For:

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

Received: 05/13/2024 Sampling Date: Reported: 05/16/2024 Sampling Type:

Project Name: THUNDERCLOUD BATTERY Sampling Condition: Cool & Intact Project Number: 20138 Sample Received By: Tamara Oldaker

Project Location: MEWBOURNE 32.7231, -103.81222

#### Sample ID: FL 16 @ 1' (H242601-16)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2024	ND	2.12	106	2.00	0.861	
Toluene*	<0.050	0.050	05/15/2024	ND	2.16	108	2.00	0.437	
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	2.15	108	2.00	1.08	
Total Xylenes*	<0.150	0.150	05/15/2024	ND	6.87	114	6.00	3.14	
Total BTEX	<0.300	0.300	05/15/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	05/15/2024	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/14/2024	ND	193	96.3	200	1.16	
DRO >C10-C28*	<10.0	10.0	05/14/2024	ND	191	95.5	200	3.47	
EXT DRO >C28-C36	<10.0	10.0	05/14/2024	ND					
Surrogate: 1-Chlorooctane	103 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	116 9	6 49.1-14	8						

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05/13/2024

Soil

#### Analytical Results For:

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

Received: 05/13/2024 Sampling Date:
Reported: 05/16/2024 Sampling Type:

Project Name: THUNDERCLOUD BATTERY Sampling Condition: Cool & Intact
Project Number: 20138 Sample Received By: Tamara Oldaker

Project Location: MEWBOURNE 32.7231, -103.81222

#### Sample ID: FL 17 @ 1' (H242601-17)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2024	ND	2.12	106	2.00	0.861	
Toluene*	<0.050	0.050	05/15/2024	ND	2.16	108	2.00	0.437	
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	2.15	108	2.00	1.08	
Total Xylenes*	<0.150	0.150	05/15/2024	ND	6.87	114	6.00	3.14	
Total BTEX	<0.300	0.300	05/15/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/15/2024	ND	432	108	400	3.64	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/14/2024	ND	193	96.3	200	1.16	
DRO >C10-C28*	<10.0	10.0	05/14/2024	ND	191	95.5	200	3.47	
EXT DRO >C28-C36	<10.0	10.0	05/14/2024	ND					
Surrogate: 1-Chlorooctane	107	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	122	% 49.1-14	18						

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#### Analytical Results For:

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

Analyzed By: MS

Received: 05/13/2024

Sampling Date: 05/13/2024

Reported: Project Name:

BTEX 8021B

05/16/2024 THUNDERCLOUD BATTERY Sampling Type: Soil
Sampling Condition: Cool & Intact

Project Number: 20138

Sample Received By: Tamara Oldaker

Project Location: MEWBOURNE 32.7231, -103.81222

mg/kg

#### Sample ID: FL 18 @ 1' (H242601-18)

	<u> </u>								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2024	ND	2.12	106	2.00	0.861	
Toluene*	<0.050	0.050	05/15/2024	ND	2.16	108	2.00	0.437	
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	2.15	108	2.00	1.08	
Total Xylenes*	<0.150	0.150	05/15/2024	ND	6.87	114	6.00	3.14	
Total BTEX	<0.300	0.300	05/15/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.7	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	05/15/2024	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/14/2024	ND	193	96.3	200	1.16	
DRO >C10-C28*	<10.0	10.0	05/14/2024	ND	191	95.5	200	3.47	
EXT DRO >C28-C36	<10.0	10.0	05/14/2024	ND					
Surrogate: 1-Chlorooctane	103	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	113	% 49.1-14	8						

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#### Analytical Results For:

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

Applyzod By: MC

Received: 05/13/2024 Reported: 05/16/2024 Sampling Date: 05/13/2024 Sampling Type: Soil

Project Name: THUNDERCLOUD BATTERY Sampling Condition: Cool & Intact Tamara Oldaker

Project Number: 20138

Sample Received By:

Project Location: MEWBOURNE 32.7231, -103.81222

#### Sample ID: FL 19 @ 1' (H242601-19)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2024	ND	2.12	106	2.00	0.861	
Toluene*	<0.050	0.050	05/15/2024	ND	2.16	108	2.00	0.437	
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	2.15	108	2.00	1.08	
Total Xylenes*	<0.150	0.150	05/15/2024	ND	6.87	114	6.00	3.14	
Total BTEX	<0.300	0.300	05/15/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	05/15/2024	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/14/2024	ND	193	96.3	200	1.16	
DRO >C10-C28*	<10.0	10.0	05/14/2024	ND	191	95.5	200	3.47	
EXT DRO >C28-C36	<10.0	10.0	05/14/2024	ND					
Surrogate: 1-Chlorooctane	104	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	117	% 49.1-14	8						

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#### Analytical Results For:

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

Analyzed By: MS

Sampling Date:

05/13/2024

Reported:

Received:

BTEX 8021B

05/13/2024 05/16/2024

Sampling Type:

Soil

Project Name:

THUNDERCLOUD BATTERY

Sampling Condition:

Cool & Intact

Project Number:

20138

Sample Received By:

Tamara Oldaker

Project Location:

MEWBOURNE 32.7231, -103.81222

#### Sample ID: FL 20 @ 1.5' (H242601-20)

DILX GOZID	11197	- Kg	Allulyzo	a by. 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2024	ND	2.12	106	2.00	0.861	
Toluene*	<0.050	0.050	05/15/2024	ND	2.16	108	2.00	0.437	
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	2.15	108	2.00	1.08	
Total Xylenes*	<0.150	0.150	05/15/2024	ND	6.87	114	6.00	3.14	
Total BTEX	<0.300	0.300	05/15/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/15/2024	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/14/2024	ND	193	96.3	200	1.16	
DRO >C10-C28*	<10.0	10.0	05/14/2024	ND	191	95.5	200	3.47	
EXT DRO >C28-C36	<10.0	10.0	05/14/2024	ND					
Surrogate: 1-Chlorooctane	102	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	116	% 49.1-14	8						

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#### Analytical Results For:

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

Received: 05/13/2024

Sampling Date: 05/13/2024

Reported: 05/16/2024 Project Name: THUNDERCLOUD BATTERY Sampling Type: Soil

Project Number: 20138 Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

Project Location: MEWBOURNE 32.7231, -103.81222

#### Sample ID: FL 21 @ 1.5' (H242601-21)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2024	ND	2.12	106	2.00	0.861	
Toluene*	<0.050	0.050	05/15/2024	ND	2.16	108	2.00	0.437	
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	2.15	108	2.00	1.08	
Total Xylenes*	<0.150	0.150	05/15/2024	ND	6.87	114	6.00	3.14	
Total BTEX	<0.300	0.300	05/15/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	05/15/2024	ND	432	108	400	3.64	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/14/2024	ND	193	96.3	200	1.16	
DRO >C10-C28*	<10.0	10.0	05/14/2024	ND	191	95.5	200	3.47	
EXT DRO >C28-C36	<10.0	10.0	05/14/2024	ND					
Surrogate: 1-Chlorooctane	103 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	114 9	% 49.1-14	8						

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#### Analytical Results For:

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

Fax To:

Received: 05/13/2024 Sampling Date: 05/13/2024

Reported: 05/16/2024 Sampling Type: Soil

Project Name: THUNDERCLOUD BATTERY Sampling Condition: Cool & Intact
Project Number: 20138 Sample Received By: Tamara Oldaker

Project Location: MEWBOURNE 32.7231, -103.81222

#### Sample ID: FL 22 @ 1.5' (H242601-22)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2024	ND	2.12	106	2.00	0.861	
Toluene*	<0.050	0.050	05/15/2024	ND	2.16	108	2.00	0.437	
Ethylbenzene*	< 0.050	0.050	05/15/2024	ND	2.15	108	2.00	1.08	
Total Xylenes*	<0.150	0.150	05/15/2024	ND	6.87	114	6.00	3.14	
Total BTEX	<0.300	0.300	05/15/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	05/15/2024	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/14/2024	ND	193	96.3	200	1.16	
DRO >C10-C28*	<10.0	10.0	05/14/2024	ND	191	95.5	200	3.47	
EXT DRO >C28-C36	<10.0	10.0	05/14/2024	ND					
Surrogate: 1-Chlorooctane	110	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	123	% 49.1-14	8						

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#### Analytical Results For:

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

Fax To:

Received: 05/13/2024 Sampling Date: 05/13/2024

Reported: 05/16/2024 Sampling Type: Soil

Project Name: THUNDERCLOUD BATTERY Sampling Condition: Cool & Intact
Project Number: 20138 Sample Received By: Tamara Oldaker

Project Location: MEWBOURNE 32.7231, -103.81222

#### Sample ID: FL 23 @ 1.5' (H242601-23)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2024	ND	2.12	106	2.00	0.861	
Toluene*	<0.050	0.050	05/15/2024	ND	2.16	108	2.00	0.437	
Ethylbenzene*	< 0.050	0.050	05/15/2024	ND	2.15	108	2.00	1.08	
Total Xylenes*	<0.150	0.150	05/15/2024	ND	6.87	114	6.00	3.14	
Total BTEX	<0.300	0.300	05/15/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	05/15/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/14/2024	ND	193	96.3	200	1.16	
DRO >C10-C28*	<10.0	10.0	05/14/2024	ND	191	95.5	200	3.47	
EXT DRO >C28-C36	<10.0	10.0	05/14/2024	ND					
Surrogate: 1-Chlorooctane	101	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	114	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



#### Analytical Results For:

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

Applyzod By: MC

Received: 05/13/2024

Sampling Date: 05/13/2024 Sampling Type: Soil

Project Name: THUNDERCLOUD BATTERY

Reported:

RTFY 8021R

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Project Number: 20138

Project Location: MEWBOURNE 32.7231, -103.81222

05/16/2024

#### Sample ID: FL 24 @ 1' (H242601-24)

BIEX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2024	ND	2.12	106	2.00	0.861	
Toluene*	<0.050	0.050	05/15/2024	ND	2.16	108	2.00	0.437	
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	2.15	108	2.00	1.08	
Total Xylenes*	<0.150	0.150	05/15/2024	ND	6.87	114	6.00	3.14	
Total BTEX	<0.300	0.300	05/15/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/15/2024	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/14/2024	ND	193	96.3	200	1.16	
DRO >C10-C28*	<10.0	10.0	05/14/2024	ND	191	95.5	200	3.47	
EXT DRO >C28-C36	<10.0	10.0	05/14/2024	ND					
Surrogate: 1-Chlorooctane	106	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	121	% 49.1-14	8						

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Cool & Intact

Tamara Oldaker

#### Analytical Results For:

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

Received: 05/13/2024 Reported: 05/16/2024

 05/13/2024
 Sampling Date:
 05/13/2024

 05/16/2024
 Sampling Type:
 Soil

Sampling Condition:

Project Name: THUNDERCLOUD BATTERY
Project Number: 20138

Project Number: 20138 Sample Received By: Project Location: MEWBOURNE 32.7231, -103.81222

Sample ID: FL 25 @ 1.5' (H242601-25)

Analyte	mg/kg		Analyzed By: MS						
	Result	Reporting Limit	Analyzed	Method Blank	BS % Recove	% Recovery	y True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2024	ND	2.12	106	2.00	0.861	
Toluene*	<0.050	0.050	05/15/2024	ND	2.16	108	2.00	0.437	
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	2.15	108	2.00	1.08	
Total Xylenes*	<0.150	0.150	05/15/2024	ND	6.87	114	6.00	3.14	
Total BTEX	<0.300	0.300	05/15/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/15/2024	ND	432	108	400	0.00	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/14/2024	ND	193	96.3	200	1.16	
DRO >C10-C28*	<10.0	10.0	05/14/2024	ND	191	95.5	200	3.47	
EXT DRO >C28-C36	<10.0	10.0	05/14/2024	ND					
Surrogate: 1-Chlorooctane	98.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	115 9	% 49.1-14	18						

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Celey D. Keene

Cardinal Laboratories

Celey D. Keene, Lab Director/Quality Manager

\*=Accredited Analyte



05/13/2024

Cool & Intact

Tamara Oldaker

Soil

#### Analytical Results For:

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

Received: 05/13/2024 Reported: 05/16/2024

05/16/2024 Sampling Type: THUNDERCLOUD BATTERY Sampling Condition:

Sampling Date:

Sample Received By:

Project Name: THUNI Project Number: 20138

Project Location: MEWBOURNE 32.7231, -103.81222

#### Sample ID: FL 26 @ 1.5' (H242601-26)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS % Recovery	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2024	ND	2.12	106	2.00	0.861	
Toluene*	<0.050	0.050	05/15/2024	ND	2.16	108	2.00	0.437	
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	2.15	108	2.00	1.08	
Total Xylenes*	<0.150	0.150	05/15/2024	ND	6.87	114	6.00	3.14	
Total BTEX	<0.300	0.300	05/15/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	'kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	05/15/2024	ND	432	108	400	0.00	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/14/2024	ND	193	96.3	200	1.16	
DRO >C10-C28*	<10.0	10.0	05/14/2024	ND	191	95.5	200	3.47	
EXT DRO >C28-C36	<10.0	10.0	05/14/2024	ND					
Surrogate: 1-Chlorooctane	106	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	117 9	% 49.1-14	8						

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### Analytical Results For:

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

Fax To:

Received: 05/13/2024 Sampling Date: 05/13/2024

Reported: 05/16/2024 Sampling Type: Soil

Project Name: THUNDERCLOUD BATTERY Sampling Condition: Cool & Intact Project Number: 20138 Sample Received By: Tamara Oldaker

Project Location: MEWBOURNE 32.7231, -103.81222

### Sample ID: FL 27 @ 1.5' (H242601-27)

BTEX 8021B	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2024	ND	2.12	106	2.00	0.861	
Toluene*	<0.050	0.050	05/15/2024	ND	2.16	108	2.00	0.437	
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	2.15	108	2.00	1.08	
Total Xylenes*	<0.150	0.150	05/15/2024	ND	6.87	114	6.00	3.14	
Total BTEX	<0.300	0.300	05/15/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/15/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/14/2024	ND	191	95.4	200	0.393	
DRO >C10-C28*	<10.0	10.0	05/14/2024	ND	182	91.0	200	1.07	
EXT DRO >C28-C36	<10.0	10.0	05/14/2024	ND					
Surrogate: 1-Chlorooctane	106	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane		% 49.1-14	8						

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### Analytical Results For:

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

Fax To:

Received: 05/13/2024 Sampling Date: 05/13/2024

Reported: 05/16/2024 Sampling Type: Soil

Project Name: THUNDERCLOUD BATTERY Sampling Condition: Cool & Intact
Project Number: 20138 Sample Received By: Tamara Oldaker

Project Location: MEWBOURNE 32.7231, -103.81222

### Sample ID: FL 28 @ 1.5' (H242601-28)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	rene* <0.050 0.050		05/15/2024	ND	2.12	106	2.00	0.861	
Toluene*	<0.050	0.050	05/15/2024	ND	2.16	108	2.00	0.437	
Ethylbenzene*	< 0.050	0.050	05/15/2024	ND	2.15	108	2.00	1.08	
Total Xylenes*	<0.150	0.150	05/15/2024	ND	6.87	114	6.00	3.14	
Total BTEX	<0.300	0.300	05/15/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	05/15/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/14/2024	ND	191	95.4	200	0.393	
DRO >C10-C28*	<10.0	10.0	05/14/2024	ND	182	91.0	200	1.07	
EXT DRO >C28-C36	<10.0	10.0	05/14/2024	ND					
Surrogate: 1-Chlorooctane	100	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	82.5	% 49.1-14	8						

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### Analytical Results For:

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

Analyzed By: MS

Received: 05/13/2024 Reported: 05/16/2024 Sampling Date: 05/13/2024 Sampling Type: Soil

Project Name: THUNDERCLOUD BATTERY Sampling Condition: Cool & Intact Tamara Oldaker Sample Received By:

Project Number: 20138

Project Location: MEWBOURNE 32.7231, -103.81222

### Sample ID: FL 29 @ 1.5' (H242601-29)

BTEX 8021B

DILX GOZID	11197	K9	Allulyzo	a by. 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	zene* <0.050 C		05/15/2024	ND	2.12	106	2.00	0.861	
Toluene*	<0.050	0.050	05/15/2024	ND	2.16	108	2.00	0.437	
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	2.15	108	2.00	1.08	
Total Xylenes*	<0.150	0.150	05/15/2024	ND	6.87	114	6.00	3.14	
Total BTEX	<0.300	0.300	05/15/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	'kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/15/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	'kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/14/2024	ND	191	95.4	200	0.393	
DRO >C10-C28*	<10.0	10.0	05/14/2024	ND	182	91.0	200	1.07	
EXT DRO >C28-C36	<10.0	10.0	05/14/2024	ND					
Surrogate: 1-Chlorooctane	99.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	80.2	% 49.1-14	8						

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### Analytical Results For:

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

Fax To:

Received: 05/13/2024 Sampling Date: 05/13/2024

Reported: 05/16/2024 Sampling Type: Soil

Project Name: THUNDERCLOUD BATTERY Sampling Condition: Cool & Intact Project Number: 20138 Sample Received By: Tamara Oldaker

Project Location: MEWBOURNE 32.7231, -103.81222

### Sample ID: FL 30 @ 1.5' (H242601-30)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2024	ND	2.12	106	2.00	0.861	
Toluene*	<0.050	0.050	05/15/2024	ND	2.16	108	2.00	0.437	
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	2.15	108	2.00	1.08	
Total Xylenes*	<0.150	0.150	05/15/2024	ND	6.87	114	6.00	3.14	
Total BTEX	<0.300	0.300	05/15/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	% 71.5-13	4						
Chloride, SM4500CI-B	'kg	Analyze	d By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/15/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/14/2024	ND	191	95.4	200	0.393	
DRO >C10-C28*	<10.0	10.0	05/14/2024	ND	182	91.0	200	1.07	
EXT DRO >C28-C36	<10.0	10.0	05/14/2024	ND					
Surrogate: 1-Chlorooctane	105 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane		% 49.1-14	8						

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### Analytical Results For:

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

Fax To:

Received: 05/13/2024 Sampling Date: 05/13/2024

Reported: 05/16/2024 Sampling Type: Soil

Project Name: THUNDERCLOUD BATTERY Sampling Condition: Cool & Intact
Project Number: 20138 Sample Received By: Tamara Oldaker

Project Location: MEWBOURNE 32.7231, -103.81222

### Sample ID: FL 31 @ 1.5' (H242601-31)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	enzene* <0.050		05/15/2024	ND	2.12	106	2.00	0.861	
Toluene*	<0.050	0.050	05/15/2024	ND	2.16	108	2.00	0.437	
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	2.15	108	2.00	1.08	
Total Xylenes*	<0.150	0.150	05/15/2024	ND	6.87	114	6.00	3.14	
Total BTEX	<0.300	0.300	05/15/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	05/15/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/14/2024	ND	191	95.4	200	0.393	
DRO >C10-C28*	<10.0	10.0	05/14/2024	ND	182	91.0	200	1.07	
EXT DRO >C28-C36	<10.0	10.0	05/14/2024	ND					
Surrogate: 1-Chlorooctane	96.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	77.6	% 49.1-14	8						

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05/13/2024

Soil

### Analytical Results For:

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

Received: 05/13/2024

 05/13/2024
 Sampling Date:

 05/16/2024
 Sampling Type:

Project Name: THUND Project Number: 20138

Reported:

THUNDERCLOUD BATTERY Sampling Condition: Cool & Intact
20138 Sample Received By: Tamara Oldaker

Project Location: MEWBOURNE 32.7231, -103.81222

### Sample ID: FL 32 @ 1.5' (H242601-32)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2024	ND	2.12	106	2.00	0.861	
Toluene*	<0.050	0.050	05/15/2024	ND	2.16	108	2.00	0.437	
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	2.15	108	2.00	1.08	
Total Xylenes*	<0.150	0.150	05/15/2024	ND	6.87	114	6.00	3.14	
Total BTEX	<0.300	0.300	05/15/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	05/15/2024	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/14/2024	ND	191	95.4	200	0.393	
DRO >C10-C28*	<10.0	10.0	05/14/2024	ND	182	91.0	200	1.07	
EXT DRO >C28-C36	<10.0	10.0	05/14/2024	ND					
Surrogate: 1-Chlorooctane	103	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.6	% 49.1-14	18						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



### Analytical Results For:

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

Fax To:

Received: 05/13/2024 Sampling Date: 05/13/2024

Reported: 05/16/2024 Sampling Type: Soil

Project Name: THUNDERCLOUD BATTERY Sampling Condition: Cool & Intact Project Number: 20138 Sample Received By: Tamara Oldaker

Project Location: MEWBOURNE 32.7231, -103.81222

### Sample ID: FL 36 @ 1.5' (H242601-33)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2024	ND	2.12	106	2.00	0.861	
Toluene*	<0.050	0.050	05/15/2024	ND	2.16	108	2.00	0.437	
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	2.15	108	2.00	1.08	
Total Xylenes*	<0.150	0.150	05/15/2024	ND	6.87	114	6.00	3.14	
Total BTEX	<0.300	0.300	05/15/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	05/15/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/14/2024	ND	191	95.4	200	0.393	
DRO >C10-C28*	<10.0	10.0	05/14/2024	ND	182	91.0	200	1.07	
EXT DRO >C28-C36	<10.0	10.0	05/14/2024	ND					
Surrogate: 1-Chlorooctane	96.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane		% 49.1-14	8						

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### Analytical Results For:

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

Analyzed By: MS

Received: 05/13/2024 Reported: 05/16/2024

 05/13/2024
 Sampling Date:
 05/13/2024

 05/16/2024
 Sampling Type:
 Soil

Project Name: THUNDE Project Number: 20138

THUNDERCLOUD BATTERY Sampling Condition: Cool & Intact
20138 Sample Received By: Tamara Oldaker

Project Location: MEWBOURNE 32.7231, -103.81222

mg/kg

### Sample ID: WW 1 (H242601-34)

BTEX 8021B

	9/	9	7111411720	,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2024	ND	1.95	97.3	2.00	10.2	
Toluene*	<0.050	0.050	05/15/2024	ND	1.90	95.1	2.00	9.52	
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	1.88	94.1	2.00	8.07	
Total Xylenes*	<0.150	0.150	05/15/2024	ND	5.49	91.4	6.00	8.16	
Total BTEX	<0.300	0.300	05/15/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	80.3	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/15/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/14/2024	ND	191	95.4	200	0.393	
DRO >C10-C28*	<10.0	10.0	05/14/2024	ND	182	91.0	200	1.07	
EXT DRO >C28-C36	<10.0	10.0	05/14/2024	ND					
Surrogate: 1-Chlorooctane	102 5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	82.9	% 49.1-14	8						

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### Analytical Results For:

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

Analyzed By: MC

Reported: 05/16/2024

Project Name: THUNDERCLOUD BATTERY

Project Number: 20138

Project Location: MEWBOURNE 32.7231, -103.81222

05/13/2024

ma/ka

Sampling Date: 05/13/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: WW 2 (H242601-35)

Received:

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	а ву: мѕ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2024	ND	1.95	97.3	2.00	10.2	
Toluene*	<0.050	0.050	05/15/2024	ND	1.90	95.1	2.00	9.52	
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	1.88	94.1	2.00	8.07	
Total Xylenes*	<0.150	0.150	05/15/2024	ND	5.49	91.4	6.00	8.16	
Total BTEX	<0.300	0.300	05/15/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	79.9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/15/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/14/2024	ND	191	95.4	200	0.393	
DRO >C10-C28*	<10.0	10.0	05/14/2024	ND	182	91.0	200	1.07	
EXT DRO >C28-C36	<10.0	10.0	05/14/2024	ND					
Surrogate: 1-Chlorooctane	103	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	82.3	% 49.1-14	8						

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### Analytical Results For:

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

Fax To:

Received: 05/13/2024 Sampling Date: 05/13/2024

Reported: 05/16/2024 Sampling Type: Soil

Project Name: THUNDERCLOUD BATTERY Sampling Condition: Cool & Intact
Project Number: 20138 Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: MEWBOURNE 32.7231, -103.81222

mg/kg

### Sample ID: EW 1 (H242601-36)

BTEX 8021B

	9/	9	7	7					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2024	ND	1.95	97.3	2.00	10.2	
Toluene*	<0.050	0.050	05/15/2024	ND	1.90	95.1	2.00	9.52	
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	1.88	94.1	2.00	8.07	
Total Xylenes*	<0.150	0.150	05/15/2024	ND	5.49	91.4	6.00	8.16	
Total BTEX	<0.300	0.300	05/15/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	82.3	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/15/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/14/2024	ND	191	95.4	200	0.393	
DRO >C10-C28*	<10.0	10.0	05/14/2024	ND	182	91.0	200	1.07	
EXT DRO >C28-C36	<10.0	10.0	05/14/2024	ND					
Surrogate: 1-Chlorooctane	105	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	82.0	% 49.1-14	8						

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### Analytical Results For:

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

Analyzed By: MS

Received: 05/13/2024 Reported: 05/16/2024

05/16/2024 Sampling Type: THUNDERCLOUD BATTERY Sampling Condition

Project Name: THUNE
Project Number: 20138

Project Location: MEWBOURNE 32.7231, -103.81222

mg/kg

Sampling Date: 05/13/2024

Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: EW 2 (H242601-37)

BTEX 8021B

	9/	9	7	7: : : :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2024	ND	1.95	97.3	2.00	10.2	
Toluene*	<0.050	0.050	05/15/2024	ND	1.90	95.1	2.00	9.52	
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	1.88	94.1	2.00	8.07	
Total Xylenes*	<0.150	0.150	05/15/2024	ND	5.49	91.4	6.00	8.16	
Total BTEX	<0.300	0.300	05/15/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	79.2	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/15/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/14/2024	ND	191	95.4	200	0.393	
DRO >C10-C28*	<10.0	10.0	05/14/2024	ND	182	91.0	200	1.07	
EXT DRO >C28-C36	<10.0	10.0	05/14/2024	ND					
Surrogate: 1-Chlorooctane	102	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.2	% 49.1-14	8						

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### **Notes and Definitions**

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below  $6^{\circ}\text{C}$ 

Samples reported on an as received basis (wet) unless otherwise noted on report

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## age 85 of 145

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

### ARDINAL LABORATORIES

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

Company Name	: Etech Environmental & Safety So	lution	s, In	C.			8			<i>B/L</i>	LL TO				-	ANALYSIS REQUEST
Project Manage	r: Lance Crenshaw						P	.0.#	t:							
Address: 261	7 West Marland						c	omp	any		Mewbo	ume				
City: Hobbs	State: NM	Zip	: 88	240			A	ttn:			Connor Wa	lker				
Phone #: (57	5) 264-9884 Fax #:						A	ddre	ss:				1			
Project #: 201	38 Project Owr	er:	M	ewbo	ourne		c	ity:								
Project Name:	Thundercloud Battery						s	tate:	NI	M .	Zip:			€ W	18	
Project Location	n: 32.7231, -103.81222							hone			•		Chloride	301	80%	
Sampler Name:	Aaron Rios						F	ax #:					흥	TPH (8015M)	BTEX (8021B)	
FOR LAB USE ONLY		T	Т		MA	TRIX		PR	ESEI	RV.	SAMPLI	NG	1	₽	B	
Lab I.D. H343601	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	OIL	SLUDGE	ACID/BASE:	ICE / COOP	OTHER:	DATE	TIME				
1	FL 1 @ 1'	С	1		X				Х		5/13/24		Х	Х	Х	
2	FL 2 @ 1'	С	1		Х				Х		5/13/24		Х	Х	Х	
3	FL 3 @ 1.5'	С	1	Ш	X	Ш			X	_	5/13/24		Х	Х	Х	
	FL 4 @ 1'	С	1	Ш	X			$\perp$	X	4	5/13/24		Х	Х	Х	
	FL 5 @ 1.5'	C	-	Ш	X	$\sqcup$	_	╀	X	4	5/13/24		Х	Х	Х	
	FL 6 @ 1'	C	1	Н	X		_	╄	Х	4	5/13/24		Х	Х	Х	
21	FL 7 @ 1'	C	1	$\sqcup$	X	1		╀	X	4	5/13/24		Х	Х	Х	
7	FL 8 @ 1'	С	_	Н	Х	1		╀	X	4	5/13/24		Х	Х	Х	
	FL 9 @ 1'	C	1	Н	X	$\square$	-	╀	X	4	5/13/24		Х	Х	X	
	FL 10 @ 1° ad Damages. Cardinal's liability and client's exclusive remedy for	C any cla	m aris	ng whet	X her base	in con	tract or t	ort, shall	X be lim	ited to	5/13/24 the amount pair	by the client for	X	X	Х	
analyses. All claims includi service. In no event shell Ca affiliates or successors arisi	ng those for negligence and any other cause whalsoever shall ardinal be liable for incidental or consequental damages, inclu- ng out of or related to the performance of services hereunder b	ing without Cardina	nd wah ut limil al, rega	ed unle	ss made niness in f whether	in welling terruptic	g and recons, loss	of use,	y Cardi or loss	nal wil of pro	thin 30 days afte fits incurred by c	completion of the lient, its subsidier asons or otherwis	e applicati ies, e.			No Add'l Phone #:
Relinquished B	Time:  Time:  Time:	R	ecei	ved I	MU By:	W	El a	da	la	de	Bye	Phone Re Fax Resul REMARKS	t: S:	□ Ye □ Ye	s 🗆	No Add'l Phone #: No Add'l Fax #:  copy of CoC to pm@etechenv.com.
Delivered By: Sampler - UPS	- Bus - Other: 5.9 e	#/	40		ool Yes	Intac	et _	-			ED BY: als)					

Page 41 of 43

### RDINAL LABORATORIES

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Etech Enviror	mental & Safety Solu	tions,	Inc					BI	LL TO		2			ANALYSIS REQUEST
Project Manager: Lance Crensh	naw						P.O	. #:						
Address: 2617 West Marland							Con	npany	Mewbo	ume				
City: Hobbs	State: NM	Zip:	882	240			Attr	ı:	Connor Wa	alker				
Phone #: (575) 264-9884	Fax #:						Add	ress:			1			
Project #: 20138	Project Owne	r:	Me	wbour	ne		City	:						
Project Name: Thundercloud Bat	tery						Stat	te: NM	Zip:	_		€ W	21B	
Project Location: 32.7231, -103	.81222						Pho	ne #:			Chloride	801	(80)	
Sampler Name: Aaron Rios							Fax	#:			흥	TPH (8015M)	BTEX (8021B)	
FOR LAB USE ONLY					MATR	RIX		PRESERV	SAMPL	ING	1	F	E	
Lab I.D. Samp	ole I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	SOIL	SLUDGE	OTHER:	ACID/BASE: ICE / COOL OTHER:	DATE	TIME				
// FL 11 @ 1'		С	1		Х			X	5/13/24		Х	Х	Х	
/2 FL 12 @ 1'		С	1		X			X	5/13/24		Х	Х	Х	
/3 FL 13 @ 1'		С	1		X			X	5/13/24		Х	Х	Х	
14 FL 14 @ 1'		С	1		X	1	Ш	X	5/13/24		Х	Х	Х	
/5 FL 15 @ 1'		С	1		X	_	Н	X	5/13/24		Х	Х	Х	
/6 FL 16 @ 1'		С	1	-	X	+	Н	X	5/13/24	_	Х	Х	Х	
// FL 17 @ 1'		С	1		X	+	Н	X	5/13/24		X	X	Х	
/ 8 FL 18 @ 1'		С	1	-	X	+	$\dashv$	X	5/13/24	_	X	X	X	
19 FL 19 @ 1'		C C	1		X	+	$\vdash$	X	5/13/24 5/13/24		X	X	X	
LEASE NOTE: Liability and Damages. Cardinal's liabilit	y and client's exclusive remedy for		arisin	g whether b		contract	or tort,			d by the client for		^	^_	
nalyses. All claims including those for negligence and a ervice. In no event shall Cardinal be liable for incidental	or consequental damages, includin	g willhout	limited	tion, busines	s Intern	uptions, I	ions of u	ee, or loss of p	rollis incurred by	clont, its subsidies	des,	ble		
iliates or successors arising out of or related to the perf	Date:			ed By:	ther suc	th claim	is based	upon any of th	e above stated re	Phone Re		☐ Ye	s 🗆	No Add'l Phone #:
Relinquished By:	Time: 5/0 Date:	Re	eiv	ed By:	W	a c	k	das	lesse.	Fax Resul		□ Ye	s 🗆	No Add'I Fax #:
Daliana d Day (Olas la Cara)	Time:	1	10	0-	-1- 6	4741		CUECH	ED DV.	Please e	mail r	esults	and o	copy of CoC to pm@etechenv.com.
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	5,9 8	44	40	Coo	1_th	tact Yes	.		(ED BY:					
FORM-006 Revision 1.0	† Ca	ardina	al ca	annot a	ccep	ot ver	tbal o	hanges.	Please fa	x written c	hange	es to !	75-393	3-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

# Received by OCD: 6/12/2024 4:46:14 PM

### ARDINAL LABORATORIES

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

Company Name	: Etech Environmental & S	afety Solution	s, I	nc.					88	B	BILL	L TO		8				ANA	LYSI	S RI	EQUE	ST		
Project Manage	r: Lance Crenshaw							P.	O. #	:														
Address: 261	7 West Marland							Co	mp	any		Mewbo	ume							1				
City: Hobbs	Stat	e: NM Zi	<b>p</b> : 8	824	0			Att	tn:		C	onnor Wa	lker											
Phone #: (57	5) 264-9884 Fax	#:						Ad	ldre	ss:				1										
Project #: 201	38 Proj	ect Owner:	N	<i>l</i> ew	bourn	е		Cit	ty:					1										
Project Name:	Thundercloud Battery							St	ate:	NM	1 Zi	ip:			2W)	21B								
Project Location	1: 32.7231, -103.81222							Ph	one	#:				Chloride	801	(8)			1					
Sampler Name:	Aaron Rios							Fa	x #:					ਤਿੰ	TPH (8015M)	BTEX (8021B)								
FOR LAB USE ONLY			T	Т	M	ATRI	X		PRI	ESER	V.	SAMPL	NG	1	⊨	E			1					
Lab I.D.	Sample I.D.	ON COUNTY	3	GROUNDWATER	WASTEWATER	SOIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOLS	OTHER:	DATE	TIME											
21	FL 21 @ 1.5'		;	1		X				Х		5/13/24		Х	Х	Х								
22	FL 22 @ 1.5'	0	;	1		X				Х		5/13/24		Х	Х	Х								
	FL 23 @ 1.5'		:	1		X				X		5/13/24		Х	Х	Х								
34	FL 24 @ 1'	0	: 1	1		X				X		5/13/24		Х	Х	Х								
25	FL 25 @ 1.5'		1	1		X				Х		5/13/24		Х	Х	Х								
26	FL 26 @ 1.5'		1	1		X				X	1	5/13/24		Х	Х	Х								
27	FL 27 @ 1.5'		1	1		X	$\perp$		Ш	Х		5/13/24		Х	Х	Х								
28	FL 28 @ 1.5'	0	1	1		X	1	L		X		5/13/24		Х	Х	Х								 
29	FL 29 @ 1.5'		1	1	_	X	1		Ш	X	1	5/13/24		Х	Х	Х								
30	FL 30 @ 1.5' Damages. Cardinal's liability and client's exclusion	(		1		X	ontroo	t or for	t chall	X	_	5/13/24	d by the client f	X	Х	X								 -
analyses. All claims includi service. In no event shall Co	a Damages, Cardman's laboury and clients excluse ing those for negligence and any other cause whe ardinal be liable for incidental or consequental da- ing out of or related to the performance of services	atsoever shall be deen amages, including with	out lir	nitation	niess mad , business	interru	ting an ptions,	d rece	ired by fuse, o	y Cardin or loss o	al within f profits	a 30 days after incurred by o	r completion of Sont, its subeid	the applica arios,	bie									
Relinquished By	Date Date	13-24 R	есе	eived	Ву:			/	7	1/	,	/	Phone R Fax Resi		☐ Ye		No No	Add'l Add'l	Phone Fax #:					
Relinquished By:  Date: Received By:  Time:						eka	20	(a	la	A.		AC.	REMARK	(S:										
	elivered By: (Circle One) #140 Sam						Ye	s	C	CHEC (Ir	CKED		Please	email r	esults	s and o	юру	of CoC	to p	m@e	techer	iv.con	1.	

FORM-006 Revision 1.0

## Received by OCD: 6/12/2024 4:46:14 PM

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 43 of 43

Released to Imaging: 7/10/2024 11:57:38 AM

### RDINAL LABORATORIES

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

Company Name	e: Etech Environmental & Safety Solut	_	, Inc	<b>c.</b>						BI	LL TO					ANALYSIS REQUEST
Project Manage	r: Lance Crenshaw						F	.O. i	#:							
Address: 261	7 West Marland							Comp	pany	у	Mewbo	ume	1			
City: Hobbs	State: NM	Zip	: 88	240			1	ttn:			Connor Wa	alker	1			
Phone #: (57	5) 264-9884 Fax #:							ddre	ess:				1			
Project #: 201	38 Project Owner	r:	Me	wbo	ourne			ity:					1		_	
Project Name:	Thundercloud Battery						_	_	: N	MI	Zip:		1.	€ S	18	
	n: 32.7231, -103.81222						$\neg$	hon					후	20	802	
Sampler Name:								ax #	_	_			Chloride	TPH (8015M)	BTEX (8021B)	
FOR LAB USE ONLY		Т	Г		MA	TRIX			ESI	ERV.	SAMPL	ING	1~	₽	BT	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	OIL	SLUDGE	ACID/BASE:	> 100 / 30 I	OTHER:	DATE	TIME				
Name and Address of the Owner, where the Party of the Owner, where the Owner, which is the Owner	FL 31 @ 1.5'	С	1		Х			Т	X	_	5/13/24		Х	Х	Х	
	FL 32 @ 1.5'	C	1		X				X		5/13/24		Х	Х	Х	
	FL 36 @ 1.5'	С	1		X				X		5/13/24		Х	Х	Х	
34	WW 1	С	1		X				X		5/13/24		Х	Х	X	
35	WW 2	С	1		X				X		5/13/24		Х	Х	Х	
	EW 1	С	1		X				X		5/13/24		Х	Х	Х	
37	EW 2	С	1	Ш	X			┸	X		5/13/24		Х	Х	X	
				Ш				┸	_				$\vdash$	_		
		┖	L		4			1	1	$\sqcup$			₩	_		
analyses. All claims includ service. In no event shall C affiliates or successors are Relinquished B	Time: Time:	without ardinal	d waiv at limits regar ceiv	red unless of red l	es made uniness in f whether By:	in willing to ruption such co	g and record, loss daily is a	a of use, hased of	by Car o, or los port an	rdinal was of pro-	offin 30 days afti offin incurred by	Phone Results Remarks	the applications, too.  essult:  ilt:  S:	□ Ye	s 🗆	No Add'l Phone #: No Add'l Fax #:  copy of CoC to pm@etechenv.com.
Sampler - UPS	- Bus - Other: 5.9€	-17		- 0	Yes	Intac	X			(Initi	als)					

FORM-006 Revision 1.0

<sup>†</sup> Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476



June 12, 2024

LANCE CRENSHAW

Etech Environmental & Safety Solutions
2617 W MARLAND

HOBBS, NM 88240

RE: THUNDERCLOUD BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 05/14/24 15:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

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

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

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

Method SM 9223-B Total Coliform and E. coli (Colilert MMO-MUG)

Method EPA 524.2 Regulated VOCs and Total Trihalomethanes (TTHM)

Method EPA 552.2 Total Haloacetic Acids (HAA-5)

Celey D. Keene

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

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

Reported:

14-May-24 15:00

14-May-24 15:00

12-Jun-24 08:13



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

14-May-24 00:00

14-May-24 00:00

### Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS NM, 88240

WW

WW

Project: THUNDERCLOUD BATTERY

Project Number: 20138

Project Manager: LANCE CRENSHAW

Fax To:

·					
Sample ID	•	Laboratory ID	Matrix	Date Sampled	Date Received
FL 33 @	<u> </u>	H242648-01	Soil	14-May-24 00:00	14-May-24 15:00
FL 34 @	۵ 2'	H242648-02	Soil	14-May-24 00:00	14-May-24 15:00
FL 35 @	۵ 2'	H242648-03	Soil	14-May-24 00:00	14-May-24 15:00
FL 37 @	D 1.5'	H242648-04	Soil	14-May-24 00:00	14-May-24 15:00
FL 38 @	D 1.5'	H242648-05	Soil	14-May-24 00:00	14-May-24 15:00
FL 39 @	D 1.5'	H242648-06	Soil	14-May-24 00:00	14-May-24 15:00
FL 40 @	D 1.5'	H242648-07	Soil	14-May-24 00:00	14-May-24 15:00
FL 41 @	D 1.5'	H242648-08	Soil	14-May-24 00:00	14-May-24 15:00
FL 42 @	D 1.5'	H242648-09	Soil	14-May-24 00:00	14-May-24 15:00
FL 43 @	D 1.5'	H242648-10	Soil	14-May-24 00:00	14-May-24 15:00
FL 44 @	D 1.5'	H242648-11	Soil	14-May-24 00:00	14-May-24 15:00
NW 2		H242648-12	Soil	14-May-24 00:00	14-May-24 15:00
EW 3		H242648-13	Soil	14-May-24 00:00	14-May-24 15:00
SW 1		H242648-14	Soil	14-May-24 00:00	14-May-24 15:00
					,

06/12/24 - Client changed the sample ID on -14 (see COC). This is the revised report and will replace the one sent on 05/20/24.

Soil

Soil

H242648-15

H242648-16

Cardinal Laboratories \*=Accredited Analyte

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Celeg D. Keine



### Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: THUNDERCLOUD BATTERY

Project Number: 20138

Project Manager: LANCE CRENSHAW

Fax To:

Reported: 12-Jun-24 08:13

FL 33 @ 2' H242648-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	336		16.0	mg/kg	4	4051622	HM	16-May-24	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4051529	MS	16-May-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4051529	MS	16-May-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4051529	MS	16-May-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4051529	MS	16-May-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4051529	MS	16-May-24	8021B	
Surrogate: 4-Bromofluorobenzene (PIL	D)		95.4 %	71.5	-134	4051529	MS	16-May-24	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4051522	MS	16-May-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4051522	MS	16-May-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4051522	MS	16-May-24	8015B	
Surrogate: 1-Chlorooctane			104 %	48.2	-134	4051522	MS	16-May-24	8015B	
Surrogate: 1-Chlorooctadecane			105 %	49.1	-148	4051522	MS	16-May-24	8015B	

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Celey D. Keene



### Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: THUNDERCLOUD BATTERY

Project Number: 20138

Project Manager: LANCE CRENSHAW

Fax To:

Reported: 12-Jun-24 08:13

FL 34 @ 2' H242648-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	tories					
Inorganic Compounds										
Chloride	64.0		16.0	mg/kg	4	4051622	HM	16-May-24	4500-Cl-B	
Volatile Organic Compound	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4051529	MS	16-May-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4051529	MS	16-May-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4051529	MS	16-May-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4051529	MS	16-May-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4051529	MS	16-May-24	8021B	
Surrogate: 4-Bromofluorobenzene (P.	ID)		95.2 %	71.5	-134	4051529	MS	16-May-24	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4051522	MS	16-May-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4051522	MS	16-May-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4051522	MS	16-May-24	8015B	
Surrogate: 1-Chlorooctane			107 %	48.2	-134	4051522	MS	16-May-24	8015B	
Surrogate: 1-Chlorooctadecane			105 %	49.1	-148	4051522	MS	16-May-24	8015B	

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Celey D. Keene



### Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: THUNDERCLOUD BATTERY

Project Number: 20138

Project Manager: LANCE CRENSHAW

Fax To:

Reported: 12-Jun-24 08:13

FL 35 @ 2' H242648-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Labora	tories					
Inorganic Compounds										
Chloride	160		16.0	mg/kg	4	4051622	НМ	16-May-24	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4051529	MS	16-May-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4051529	MS	16-May-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4051529	MS	16-May-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4051529	MS	16-May-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4051529	MS	16-May-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)	))		94.7 %	71.5	-134	4051529	MS	16-May-24	8021B	
Petroleum Hydrocarbons by C	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4051522	MS	16-May-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4051522	MS	16-May-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4051522	MS	16-May-24	8015B	
Surrogate: 1-Chlorooctane			102 %	48.2	-134	4051522	MS	16-May-24	8015B	
Surrogate: 1-Chlorooctadecane			104 %	49.1	-148	4051522	MS	16-May-24	8015B	

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

Etech Environmental & Safety Solutions

**Volatile Organic Compounds by EPA Method 8021** 

< 0.050

2617 W MARLAND HOBBS NM, 88240

Chloride

Benzene\*

Project: THUNDERCLOUD BATTERY

4

50

4051622

4051529

НМ

MS

16-May-24

16-May-24

Project Number: 20138

Project Manager: LANCE CRENSHAW

Fax To:

Reported: 12-Jun-24 08:13

4500-Cl-B

8021B

FL 37 @ 1.5' H242648-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Inorganic Compounds										

mg/kg

mg/kg

16.0

0.050

Toluene*	< 0.050	0.050	mg/kg	50	4051529	MS	16-May-24	8021B	
Ethylbenzene*	< 0.050	0.050	mg/kg	50	4051529	MS	16-May-24	8021B	
Total Xylenes*	< 0.150	0.150	mg/kg	50	4051529	MS	16-May-24	8021B	
Total BTEX	< 0.300	0.300	mg/kg	50	4051529	MS	16-May-24	8021B	
Surrogate: 4-Bromofluorobenzene (P	ID)	94.4 %	71.5-1	34	4051529	MS	16-May-24	8021B	
Petroleum Hydrocarbons by	GC FID								
GRO C6-C10*	<10.0	10.0	mg/kg	1	4051522	MS	16-May-24	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	4051522	MS	16-May-24	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	4051522	MS	16-May-24	8015B	
Surrogate: 1-Chlorooctane		102 %	48.2-1	34	4051522	MS	16-May-24	8015B	
Surrogate: 1-Chlorooctadecane		103 %	49.1-1	48	4051522	MS	16-May-24	8015B	

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



### Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: THUNDERCLOUD BATTERY

Project Number: 20138

Project Manager: LANCE CRENSHAW

Fax To:

Reported: 12-Jun-24 08:13

FL 38 @ 1.5' H242648-05 (Soil)

Reporting

Analyte Result MDL Limit Units Dilution Batch Analyst Analyzed Method Notes

		Cardina	l Laborato	ories					
Inorganic Compounds									
Chloride	48.0	16.0	mg/kg	4	4051622	HM	16-May-24	4500-Cl-B	
Volatile Organic Compound	ls by EPA Method 8021								
Benzene*	< 0.050	0.050	mg/kg	50	4051529	MS	16-May-24	8021B	
Toluene*	< 0.050	0.050	mg/kg	50	4051529	MS	16-May-24	8021B	
Ethylbenzene*	< 0.050	0.050	mg/kg	50	4051529	MS	16-May-24	8021B	
Total Xylenes*	< 0.150	0.150	mg/kg	50	4051529	MS	16-May-24	8021B	
Total BTEX	< 0.300	0.300	mg/kg	50	4051529	MS	16-May-24	8021B	
Surrogate: 4-Bromofluorobenzene (F	PID)	95.0 %	71.5-	134	4051529	MS	16-May-24	8021B	
Petroleum Hydrocarbons by	y GC FID								
GRO C6-C10*	<10.0	10.0	mg/kg	1	4051522	MS	16-May-24	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	4051522	MS	16-May-24	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	4051522	MS	16-May-24	8015B	
Surrogate: 1-Chlorooctane		96.0 %	48.2-	134	4051522	MS	16-May-24	8015B	
Surrogate: 1-Chlorooctadecane		97.6 %	49.1-	148	4051522	MS	16-May-24	8015B	

Cardinal Laboratories \*=Accredited Analyte

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### Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: THUNDERCLOUD BATTERY

Project Number: 20138

Project Manager: LANCE CRENSHAW

Fax To:

Reported: 12-Jun-24 08:13

FL 39 @ 1.5'

H242648-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	<16.0		16.0	mg/kg	4	4051622	HM	16-May-24	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4051529	MS	16-May-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4051529	MS	16-May-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4051529	MS	16-May-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4051529	MS	16-May-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4051529	MS	16-May-24	8021B	
Surrogate: 4-Bromofluorobenzene (PII	D)		94.9 %	71.5	-134	4051529	MS	16-May-24	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4051522	MS	16-May-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4051522	MS	16-May-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4051522	MS	16-May-24	8015B	
Surrogate: 1-Chlorooctane		·	103 %	48.2	-134	4051522	MS	16-May-24	8015B	
Surrogate: 1-Chlorooctadecane			104 %	49.1	-148	4051522	MS	16-May-24	8015B	

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### Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: THUNDERCLOUD BATTERY

Project Number: 20138

Project Manager: LANCE CRENSHAW

Fax To:

Reported: 12-Jun-24 08:13

FL 40 @ 1.5' H242648-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	16.0		16.0	mg/kg	4	4051622	HM	16-May-24	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4051529	MS	16-May-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4051529	MS	16-May-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4051529	MS	16-May-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4051529	MS	16-May-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4051529	MS	16-May-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID	))		94.8 %	71.5	-134	4051529	MS	16-May-24	8021B	
Petroleum Hydrocarbons by C	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4051522	MS	16-May-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4051522	MS	16-May-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4051522	MS	16-May-24	8015B	
Surrogate: 1-Chlorooctane			103 %	48.2	-134	4051522	MS	16-May-24	8015B	
Surrogate: 1-Chlorooctadecane			105 %	49.1	-148	4051522	MS	16-May-24	8015B	

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### Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: THUNDERCLOUD BATTERY

Project Number: 20138

Project Manager: LANCE CRENSHAW

Fax To:

Reported: 12-Jun-24 08:13

FL 41 @ 1.5'

H242648-08 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
Inorganic Compounds										
Chloride	48.0		16.0	mg/kg	4	4051622	HM	16-May-24	4500-Cl-B	
Volatile Organic Compound	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4051602	JH	16-May-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4051602	JH	16-May-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4051602	JH	16-May-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4051602	JH	16-May-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4051602	JH	16-May-24	8021B	
Surrogate: 4-Bromofluorobenzene (P	PID)		105 %	71.5	-134	4051602	ЈН	16-May-24	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4051522	MS	16-May-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4051522	MS	16-May-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4051522	MS	16-May-24	8015B	
Surrogate: 1-Chlorooctane			100 %	48.2	-134	4051522	MS	16-May-24	8015B	
Surrogate: 1-Chlorooctadecane			102 %	49.1	-148	4051522	MS	16-May-24	8015B	

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### Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: THUNDERCLOUD BATTERY

Project Number: 20138

Project Manager: LANCE CRENSHAW

Fax To:

Reported: 12-Jun-24 08:13

LANCE CRENSHAW

FL 42 @ 1.5' H242648-09 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	32.0		16.0	mg/kg	4	4051622	HM	16-May-24	4500-Cl-B	
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4051602	JH	16-May-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4051602	JH	16-May-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4051602	JН	16-May-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4051602	JН	16-May-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4051602	JH	16-May-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			106 %	71.5	-134	4051602	ЈН	16-May-24	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4051523	MS	15-May-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4051523	MS	15-May-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4051523	MS	15-May-24	8015B	
Surrogate: 1-Chlorooctane			111 %	48.2	-134	4051523	MS	15-May-24	8015B	
Surrogate: 1-Chlorooctadecane			116 %	49.1	-148	4051523	MS	15-May-24	8015B	

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### Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: THUNDERCLOUD BATTERY

Project Number: 20138

Project Manager: LANCE CRENSHAW

Fax To:

Reported: 12-Jun-24 08:13

FL 43 @ 1.5'

H242648-10 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	<16.0		16.0	mg/kg	4	4051622	HM	16-May-24	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4051602	JH	16-May-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4051602	JH	16-May-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4051602	JH	16-May-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4051602	JH	16-May-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4051602	JН	16-May-24	8021B	
Surrogate: 4-Bromofluorobenzene (PII	D)		106 %	71.5	-134	4051602	JH	16-May-24	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4051523	MS	15-May-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4051523	MS	15-May-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4051523	MS	15-May-24	8015B	
Surrogate: 1-Chlorooctane			109 %	48.2	-134	4051523	MS	15-May-24	8015B	
Surrogate: 1-Chlorooctadecane			110 %	49.1	-148	4051523	MS	15-May-24	8015B	

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### **Analytical Results For:**

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: THUNDERCLOUD BATTERY

Project Number: 20138

Project Manager: LANCE CRENSHAW

Fax To:

Reported: 12-Jun-24 08:13

FL 44 @ 1.5'

H242648-11 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	tories					
Inorganic Compounds										
Chloride	<16.0		16.0	mg/kg	4	4051622	HM	16-May-24	4500-Cl-B	
Volatile Organic Compounds b	y EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4051602	JH	16-May-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4051602	JH	16-May-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4051602	JН	16-May-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4051602	JН	16-May-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4051602	JH	16-May-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			106 %	71.5	-134	4051602	ЈН	16-May-24	8021B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4051523	MS	16-May-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4051523	MS	16-May-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4051523	MS	16-May-24	8015B	
Surrogate: 1-Chlorooctane			111 %	48.2	-134	4051523	MS	16-May-24	8015B	
Surrogate: 1-Chlorooctadecane			111 %	49.1	-148	4051523	MS	16-May-24	8015B	

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### Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: THUNDERCLOUD BATTERY

Project Number: 20138

Project Manager: LANCE CRENSHAW

Fax To:

Reported: 12-Jun-24 08:13

### NW 2 H242648-12 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	<16.0		16.0	mg/kg	4	4051622	HM	16-May-24	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4051602	JH	16-May-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4051602	JH	16-May-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4051602	JH	16-May-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4051602	JH	16-May-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4051602	JH	16-May-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)	)		107 %	71.5	-134	4051602	JH	16-May-24	8021B	
Petroleum Hydrocarbons by C	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4051523	MS	16-May-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4051523	MS	16-May-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4051523	MS	16-May-24	8015B	
Surrogate: 1-Chlorooctane			110 %	48.2	-134	4051523	MS	16-May-24	8015B	
Surrogate: 1-Chlorooctadecane			110 %	49.1	-148	4051523	MS	16-May-24	8015B	

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### Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: THUNDERCLOUD BATTERY

Project Number: 20138

Project Manager: LANCE CRENSHAW

Fax To:

Reported: 12-Jun-24 08:13

### EW 3 H242648-13 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Inorganic Compounds										
Chloride	160		16.0	mg/kg	4	4051622	HM	16-May-24	4500-Cl-B	
Volatile Organic Compound	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4051602	JH	16-May-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4051602	JH	16-May-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4051602	JH	16-May-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4051602	JH	16-May-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4051602	JH	16-May-24	8021B	
Surrogate: 4-Bromofluorobenzene (Pl	(D)		105 %	71.5	-134	4051602	ЈН	16-May-24	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4051523	MS	16-May-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4051523	MS	16-May-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4051523	MS	16-May-24	8015B	
Surrogate: 1-Chlorooctane			112 %	48.2	-134	4051523	MS	16-May-24	8015B	
Surrogate: 1-Chlorooctadecane			110 %	49.1	-148	4051523	MS	16-May-24	8015B	

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### **Analytical Results For:**

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: THUNDERCLOUD BATTERY

Project Number: 20138

Project Manager: LANCE CRENSHAW

Fax To:

Reported: 12-Jun-24 08:13

### SW 1 H242648-14 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	tories					
Inorganic Compounds										
Chloride	<16.0		16.0	mg/kg	4	4051622	HM	16-May-24	4500-Cl-B	
Volatile Organic Compound	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4051602	JH	16-May-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4051602	JH	16-May-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4051602	JH	16-May-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4051602	JH	16-May-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4051602	JH	16-May-24	8021B	
Surrogate: 4-Bromofluorobenzene (P.	ID)		106 %	71.5	-134	4051602	JH	16-May-24	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4051523	MS	16-May-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4051523	MS	16-May-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4051523	MS	16-May-24	8015B	
Surrogate: 1-Chlorooctane			114 %	48.2	-134	4051523	MS	16-May-24	8015B	
Surrogate: 1-Chlorooctadecane			113 %	49.1	-148	4051523	MS	16-May-24	8015B	

Cardinal Laboratories \*=Accredited Analyte

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### **Analytical Results For:**

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: THUNDERCLOUD BATTERY

Project Number: 20138

Project Manager: LANCE CRENSHAW

Fax To:

Reported: 12-Jun-24 08:13

### WW 3 H242648-15 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	<16.0		16.0	mg/kg	4	4051622	HM	16-May-24	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4051602	JH	16-May-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4051602	JH	16-May-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4051602	JH	16-May-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4051602	JH	16-May-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4051602	JH	16-May-24	8021B	
Surrogate: 4-Bromofluorobenzene (PIL	D)		107 %	71.5	-134	4051602	ЈН	16-May-24	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4051523	MS	16-May-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4051523	MS	16-May-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4051523	MS	16-May-24	8015B	
Surrogate: 1-Chlorooctane			112 %	48.2	-134	4051523	MS	16-May-24	8015B	
Surrogate: 1-Chlorooctadecane			112 %	49.1	-148	4051523	MS	16-May-24	8015B	

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Reported:

12-Jun-24 08:13



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

### **Analytical Results For:**

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: THUNDERCLOUD BATTERY

Project Number: 20138

Project Manager: LANCE CRENSHAW

Fax To:

WW 4

H242648-16 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes				
	Cardinal Laboratories													
Inorganic Compounds														
Chloride	16.0		16.0	mg/kg	4	4051617	CT	16-May-24	4500-Cl-B					
Volatile Organic Compound	ls by EPA Method	8021												
Benzene*	< 0.050		0.050	mg/kg	50	4051602	JH	16-May-24	8021B					
Toluene*	< 0.050		0.050	mg/kg	50	4051602	JH	16-May-24	8021B					
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4051602	JН	16-May-24	8021B					
Total Xylenes*	< 0.150		0.150	mg/kg	50	4051602	JН	16-May-24	8021B					
Total BTEX	< 0.300		0.300	mg/kg	50	4051602	JH	16-May-24	8021B					
Surrogate: 4-Bromofluorobenzene (F	PID)		107 %	71.5	-134	4051602	ЈН	16-May-24	8021B					
Petroleum Hydrocarbons by	y GC FID													
GRO C6-C10*	<10.0		10.0	mg/kg	1	4051523	MS	16-May-24	8015B					
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4051523	MS	16-May-24	8015B					
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4051523	MS	16-May-24	8015B					
Surrogate: 1-Chlorooctane			110 %	48.2	-134	4051523	MS	16-May-24	8015B					
Surrogate: 1-Chlorooctadecane			111 %	49.1	-148	4051523	MS	16-May-24	8015B					

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### Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: THUNDERCLOUD BATTERY

Project Number: 20138

Project Manager: LANCE CRENSHAW

Fax To:

Reported: 12-Jun-24 08:13

### **Inorganic Compounds - Quality Control**

### **Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4051617 - 1:4 DI Water										
Blank (4051617-BLK1)				Prepared &	Analyzed:	16-May-24	ļ			
Chloride	ND	16.0	mg/kg							
LCS (4051617-BS1)				Prepared &	Analyzed:	16-May-24	1			
Chloride	400	16.0	mg/kg	400		100	80-120			
LCS Dup (4051617-BSD1)				Prepared &	: Analyzed:	16-May-24	ļ			
Chloride	400	16.0	mg/kg	400		100	80-120	0.00	20	
Batch 4051622 - 1:4 DI Water										
Blank (4051622-BLK1)				Prepared &	: Analyzed:	16-May-24	ļ			
Chloride	ND	16.0	mg/kg							
LCS (4051622-BS1)				Prepared &	: Analyzed:	16-May-24	1			
Chloride	432	16.0	mg/kg	400		108	80-120			
LCS Dup (4051622-BSD1)				Prepared &	: Analyzed:	16-May-24	1			
Chloride	432	16.0	mg/kg	400		108	80-120	0.00	20	

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### Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240

Ethylbenzene

Total Xylenes

Total BTEX

Project: THUNDERCLOUD BATTERY

Project Number: 20138

Project Manager: LANCE CRENSHAW

Fax To:

Reported: 12-Jun-24 08:13

### Volatile Organic Compounds by EPA Method 8021 - Quality Control

### **Cardinal Laboratories**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 4051529 - Volatiles										
Blank (4051529-BLK1)				Prepared: 1	5-May-24	Analyzed: 1	6-May-24			
Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							

mg/kg

mg/kg

mg/kg

Surrogate: 4-Bromofluorobenzene (PID)	ND	mg/kg	0.0500	96.0	71.5-134
LCS (4051529-BS1)			Prepared: 15-M	ay-24 Analyzed:	16-May-24

0.050

0.150

0.300

ND

ND

ND

a	0.0400			0.0400		
Total Xylenes	5.60	0.150	mg/kg	6.00	93.4	88.2-128
o-Xylene	1.84	0.050	mg/kg	2.00	92.1	86.1-125
m,p-Xylene	3.76	0.100	mg/kg	4.00	94.1	89-129
Ethylbenzene	1.96	0.050	mg/kg	2.00	97.8	85.9-128
Toluene	1.92	0.050	mg/kg	2.00	96.1	86-128
Benzene	1.97	0.050	mg/kg	2.00	98.6	82.8-130

Surrogate: 4-Bromofluorobenzene (PID)	0.0480	mg/kg	0.0500	96.0	71.5-134

Surrogate: 4-Bromojtuorovenzene (F1D)	0.0480		mg/kg	0.0300	90.0	/1.5-134			
LCS Dup (4051529-BSD1)				Prepared: 15-Ma	ay-24 Analyzed:	16-May-24			
Benzene	1.95	0.050	mg/kg	2.00	97.6	82.8-130	1.10	15.8	
Toluene	1.91	0.050	mg/kg	2.00	95.3	86-128	0.818	15.9	
Ethylbenzene	1.95	0.050	mg/kg	2.00	97.4	85.9-128	0.383	16	
m,p-Xylene	3.74	0.100	mg/kg	4.00	93.5	89-129	0.648	16.2	
o-Xylene	1.84	0.050	mg/kg	2.00	92.0	86.1-125	0.124	16.7	
Total Xylenes	5.58	0.150	mg/kg	6.00	93.0	88.2-128	0.475	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0481		mg/kg	0.0500	96.2	71.5-134			

### Batch 4051602 - Volatiles

Blank (4051602-BLK1)		Prepared & Analyzed: 16-May-24
Benzene NI	0.050	mg/kg
Toluene NI	0.050	mg/kg
Ethylbenzene NI	0.050	mg/kg
Total Xylenes NI	0.150	mg/kg

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Celey D. Keene, Lab Director/Quality Manager



%REC

101

71.5-134

#### Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: THUNDERCLOUD BATTERY

Spike

0.0500

Source

Project Number: 20138

Project Manager: LANCE CRENSHAW

Fax To:

Reported: 12-Jun-24 08:13

RPD

#### Volatile Organic Compounds by EPA Method 8021 - Quality Control

#### **Cardinal Laboratories**

Reporting

0.0507

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 4051602 - Volatiles										
Blank (4051602-BLK1)				Prepared &	Analyzed:	16-May-2	4			
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0530		mg/kg	0.0500		106	71.5-134			
LCS (4051602-BS1)				Prepared &	Analyzed:	16-May-2	4			
Benzene	2.01	0.050	mg/kg	2.00		100	82.8-130			
Toluene	2.09	0.050	mg/kg	2.00		105	86-128			
Ethylbenzene	2.07	0.050	mg/kg	2.00		103	85.9-128			
m,p-Xylene	4.28	0.100	mg/kg	4.00		107	89-129			
o-Xylene	2.00	0.050	mg/kg	2.00		100	86.1-125			
Total Xylenes	6.28	0.150	mg/kg	6.00		105	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0509		mg/kg	0.0500		102	71.5-134			
LCS Dup (4051602-BSD1)				Prepared &	Analyzed:	16-May-2	4			
Benzene	1.93	0.050	mg/kg	2.00		96.5	82.8-130	4.04	15.8	
Toluene	2.01	0.050	mg/kg	2.00		100	86-128	4.18	15.9	
Ethylbenzene	1.98	0.050	mg/kg	2.00		99.1	85.9-128	4.17	16	
n,p-Xylene	4.15	0.100	mg/kg	4.00		104	89-129	2.94	16.2	
-Xylene	1.93	0.050	mg/kg	2.00		96.4	86.1-125	3.62	16.7	
Total Xylenes	6.08	0.150	mg/kg	6.00		101	88.2-128	3.16	16.3	

mg/kg

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Surrogate: 4-Bromofluorobenzene (PID)



#### **Analytical Results For:**

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: THUNDERCLOUD BATTERY

Project Number: 20138

Project Manager: LANCE CRENSHAW

Fax To:

Reported: 12-Jun-24 08:13

#### Petroleum Hydrocarbons by GC FID - Quality Control

#### **Cardinal Laboratories**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
D 4 1 4051522 C										

Dutti	.001022	Generalite	O I Sumics	
				١

Blank (4051522-BLK1)				Prepared & Ana	lyzed: 15-May-24	4			
GRO C6-C10	ND	10.0	mg/kg						
DRO >C10-C28	ND	10.0	mg/kg						
EXT DRO >C28-C36	ND	10.0	mg/kg						
Surrogate: 1-Chlorooctane	40.3		mg/kg	50.0	80.5	48.2-134			
Surrogate: 1-Chlorooctadecane	36.2		mg/kg	50.0	72.5	49.1-148			
LCS (4051522-BS1)				Prepared & Ana	lyzed: 15-May-2	4			
GRO C6-C10	179	10.0	mg/kg	200	89.6	66.4-123			
DRO >C10-C28	172	10.0	mg/kg	200	86.2	66.5-118			
Total TPH C6-C28	352	10.0	mg/kg	400	87.9	77.6-123			
Surrogate: 1-Chlorooctane	41.7		mg/kg	50.0	83.4	48.2-134			
Surrogate: 1-Chlorooctadecane	41.5		mg/kg	50.0	82.9	49.1-148			
LCS Dup (4051522-BSD1)				Prepared & Ana	lyzed: 15-May-24	4			
GRO C6-C10	182	10.0	mg/kg	200	91.1	66.4-123	1.74	17.7	
DRO >C10-C28	181	10.0	mg/kg	200	90.7	66.5-118	5.06	21	
Total TPH C6-C28	364	10.0	mg/kg	400	90.9	77.6-123	3.38	18.5	
Surrogate: 1-Chlorooctane	46.4		mg/kg	50.0	92.8	48.2-134			
Surrogate: 1-Chlorooctadecane	45.7		mg/kg	50.0	91.3	49.1-148			

#### **Batch 4051523 - General Prep - Organics**

Blank (4051523-BLK1)				Prepared & Analy	zed: 15-May-24	1	
GRO C6-C10	ND	10.0	mg/kg				
DRO >C10-C28	ND	10.0	mg/kg				
EXT DRO >C28-C36	ND	10.0	mg/kg				
Surrogate: 1-Chlorooctane	44.5		mg/kg	50.0	89.1	48.2-134	
Surrogate: 1-Chlorooctadecane	43.8		mg/kg	50.0	87.6	49.1-148	

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



%REC

Limits

RPD

#### Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240

Analyte

Project: THUNDERCLOUD BATTERY

Spike

Level

Source

Result

%REC

Project Number: 20138

Project Manager: LANCE CRENSHAW

Fax To:

Reported: 12-Jun-24 08:13

RPD

Limit

Notes

#### Petroleum Hydrocarbons by GC FID - Quality Control

#### **Cardinal Laboratories**

Units

Reporting

Limit

Result

LCS (4051523-BS1)				Prepared & Anal	yzed: 15-May-2	4			
GRO C6-C10	178	10.0	mg/kg	200	89.0	66.4-123			
DRO >C10-C28	185	10.0	mg/kg	200	92.6	66.5-118			
Total TPH C6-C28	363	10.0	mg/kg	400	90.8	77.6-123			
Surrogate: 1-Chlorooctane	48.4		mg/kg	50.0	96.8	48.2-134			
Surrogate: 1-Chlorooctadecane	48.5		mg/kg	50.0	97.1	49.1-148			
LCS Dup (4051523-BSD1)				Prepared & Anal	yzed: 15-May-2	4			
GRO C6-C10	180	10.0	mg/kg	200	89.9	66.4-123	1.02	17.7	
DRO >C10-C28	187	10.0	mg/kg	200	93.3	66.5-118	0.793	21	
Total TPH C6-C28	366	10.0	mg/kg	400	91.6	77.6-123	0.902	18.5	
Surrogate: 1-Chlorooctane	54.3		mg/kg	50.0	109	48.2-134			
Surrogate: 1-Chlorooctadecane	53.3		mg/kg	50.0	107	49.1-148			

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#### **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Page 25 of 26

# ( ARD

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

# ARDINAL LABORATORIES

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

Company Name	: Etech Environmental & Safety Solution	ons,	Inc						1	3/1	LL TO					A	NAL	YSIS	SR	EQU	JEST				
Project Manage	r: Lance Crenshaw						P.(	O. #:								П							T	$\neg$	
Address: 261	7 West Marland						Со	mpa	iny		Mewbou	ime													- 1
City: Hobbs	State: NM 2	Zip:	882	240			Att	n:			Connor Wa	ker				1 1									- 1
Phone #: (57	5) 264-9884 Fax #:						Ad	dres	s:																
Project #: 201	38 Project Owner:		Ме	wbo	urne		Cit	y:								1 1									
Project Name:	Thundercloud Battery						Sta	ate:	NI	vI :	Zip:		<u>e</u>	(8015M)	21B										
Project Locatio	Project Location: 32.7231, -103.81222								#:				Chloride	801	80	1 1									- 1
Sampler Name:	Sampler Name: Aaron Rios												등	TPH (	BTEX (8021B)										- 1
FOR LAB USE ONLY					MATR	IX		PRE	SE	₹V.	SAMPLI	NG	1	F	F	1 1									
Lab I.D. <i>H242</i> 648	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	· DATE	TIME													
1	FL 33 @ 2'	С	1		Х				X		5/14/24		Х	Х	Х		-								
2	FL 34 @ 2'	С	1		X				X	$\perp$	5/14/24	-	Х	Х	Х										
3	FL 35 @ 2'	С	1		X				X	4	5/14/24		Х	Х	Х										
4	FL 37 @ 1.5'	С	1		X				X		5/14/24		Х	X	X	-									-
5	FL 38 @ 1.5'	С	1		X				X	_	5/14/24		Х	Х	X	-									-
6	FL 39 @ 1.5'	С	1		X	_		Ш	X	_	5/14/24		Х	Х	X	-									-
7	FL 40 @ 1.5'	С	1		X				X	4	5/14/24		Х	Х	X										-
	FL 41 @ 1.5'	С	1		X			Ш	X	_	5/14/24		Х	Х	Х	_									-
	FL 42 @ 1.5'	С	1		X				X		5/14/24		Х	Х	X	-									-
	FL 43 @ 1.5'	С	1		X				X	3-4	5/14/24	hu the client for	X	Х	X					-					-
affiliates or successors aris Relinquished 8	Labeliny and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or torf, shall be limited to the amount paid by the client for the allyses. All claims including those for negligence and any other cause whistsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable vice. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by clearly, its substitutions, is substitutions, is substitutions, and incurred by cardinal, regardless of whether such claim's based upon any of the above stated reasons or otherwise.    Phone Result:   Yes   No   Add'l Phone #: Fax Result:   Yes   No   Add'l Fax #: REMARKS:																								
Date: Received By:  Time:  Delivered By: (Circle One)  Sample Condition Cool Intact (mittals)  Sampler - UPS - Bus - Other: -7.2 c																									

FORM-006 Revision 1.0

Received by OCD: 6/12/2024 4:46:14 PM

Page 26 of 26

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

# RDINAL LABORATORIES

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

Company Name	: Etech Environmenta	al & Safety Soluti	ions,	Inc				3		B	IL	LTO					ANALYSIS REQUEST
Project Manage	r: Lance Crenshaw							P.	0. ‡	<b>#</b> :							
Address: 261	7 West Marland							C	omp	any		Mewbou	ume				
City: Hobbs		State: NM	Zip:	882	240			At	ttn:		C	Connor Wa	lker				
Phone #: (57	5) 264-9884	Fax #:						A	ddre	ess:							
Project #: 201	38	<b>Project Owner</b>	:	Me	wbou	ne		Ci	ity:								
Project Name:	Thundercloud Battery							St	tate	. NM	Z	Zip:		9	5M	218	
Project Locatio	n: 32.7231, -103.8122	2						PI	hon	e #:				Chloride	TPH (8015M)	BTEX (8021B)	
Sampler Name:	Aaron Rios							Fa	ax#	:				등	Ĕ	Ĭ,	
FOR LAB USE ONLY				П		MAT	RIX		PF	RESER	v.	SAMPLI	NG		=	<u> </u>	
Lab I.D.	Sample I.	D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	SOIL	OIL	SLUDGE OTHER:	ACID/BASE:	ICE / COOL	OI HEK:	DATE	TIME				
11	FL 44 @ 1.5'		С	1		Х			T	X	T	5/14/24		Х	Х	Х	
12	NW 2		С	1		X				X		5/14/24		X	Х	Х	
13	EW 3		С	1		X				X	1	5/14/24		Х	Х	Х	
	SW2 SW1 7	*	С	1		X				X	1	5/14/24		Х	Х	X	
	WW 3		С	1		X		_	╀	X	4	5/14/24		X	X	X	
16	WW 4		С	1		X				X	$\dagger$	5/14/24		Х	Х	Х	
nalyses. All claims includervice. In no event shall C	nd Damages. Cardinal's liability and clie ing those for negligence and any other c ardinal be liable for incidental or consec ing out of or related to the performance	cause whatsoever shall be quental damages, including	deemed	waive limits	d unless i	made in ess intr	n writing erruption	and red ns, loss	of use	by Cardina , or loss of	al with	thin 30 days afte fits incurred by c	or completion of t client, its subsidia	he applica ries,	ble		
Relinquished B	no	Date: Time: Time:	Red	eiv	ed By	1111	Øti	A c	4	U	de	Hyc	Phone Re Fax Resul REMARKS	sult: lt: s: Ln +		en ge	
	: (Circle One) - Bus - Other:	# -7.2	2	0	Co	Yes	Conc	es	1			ED BY:	riease e	illail i	esult	anu C	opy of coc to pringetecheny.com.
FORM-0 Revision		† Ca	rdin	al c					al cl	nange	s. F	Please far	x written (	chang	es to	575-393	3-2476



May 21, 2024

LANCE CRENSHAW

Etech Environmental & Safety Solutions
2617 W MARLAND

HOBBS, NM 88240

RE: THUNDERCLOUD BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 05/15/24 15:01.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

Cardinal Laboratories is accreditated 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)

Celey D. Keine

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



#### Analytical Results For:

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

Fax To:

Received: 05/15/2024 Sampling Date: 05/14/2024

Reported: 05/21/2024 Sampling Type: Soil

Project Name: THUNDERCLOUD BATTERY Sampling Condition: Cool & Intact
Project Number: Sample Received By: Alyssa Parras

A ... - b ... - d D. .. 711

Project Location: MEWBOURNE 32.7231, -103.81222

#### Sample ID: BACKFILL (H242686-01)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/17/2024	ND	2.11	105	2.00	2.18	
Toluene*	<0.050	0.050	05/17/2024	ND	2.17	108	2.00	2.48	
Ethylbenzene*	<0.050	0.050	05/17/2024	ND	2.14	107	2.00	3.24	
Total Xylenes*	<0.150	0.150	05/17/2024	ND	6.58	110	6.00	2.72	
Total BTEX	<0.300	0.300	05/17/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	05/17/2024	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/16/2024	ND	176	87.9	200	0.623	
DRO >C10-C28*	<10.0	10.0	05/16/2024	ND	172	86.0	200	1.34	
EXT DRO >C28-C36	<10.0	10.0	05/16/2024	ND					
Surrogate: 1-Chlorooctane	89.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	79.2	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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

Celey D. Keine



#### **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celeg D. Freene

# ARDINAL LABORATORIES

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:		& Safety Soluti	_	Inc		===					BI	LL TO					ANALYSIS REQUEST
Project Manager:	: Lance Crenshaw								P.O.	#:							
Address: 2617	West Marland								Con	npar	ny	Mewbo	urne				
City: Hobbs		State: NM	Zip:	882	240				Attn			Connor Wa	lker	1			
Phone #: (575)	264-9884	Fax #:							Add	ress	s:			1			
Project #: 2013	8	Project Owner	:	Me	wbo	urne			City	:				1		_	
Project Name: T	Thundercloud Battery										NM	Zip:		0	(WS	18	
Project Location:	32.7231, -103.81222	2	-							ne #				Chloride	TPH (8015M)	BTEX (8021B)	
Sampler Name: A	Aaron Rios								Fax	_				ĬĚ	I	X	
FOR LAB USE ONLY						MA	TRIX	1	-	_	SERV.	SAMPL	NG	1	₽	BT	
Lab I.D.	Sample I.I	D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER		SLUDGE	OTHER:	ACID/BASE:	OTHER:	DATE	TIME				
/ E	Backfill		С	1		X			1	1	X	5/14/24		Х	Х	X	
			⊢			+	-		$\perp$	+	-			-	-	-	
service. In no event shall Card		use whatsoever shall be u	withou ardinal	d waive at limits L. regar	ed unles	ss made isiness i fwhethe	in writi	ng and	receive	ed by (	loss of p	within 30 days after	Prompletion of to client, its subsidia pasons or otherwing Phone Re Fax Resu REMARK	he applica ries, ise. esult: lt: S:	□ Ye	es [	□ No Add'l Phone #: □ No Add'l Fax #:
Delivered By: Sampler - UPS -	(Circle One) - O	11			0	ampl cool Ye	Inta	ct		)		(ED BY:	Please 6	email	result	s and	d copy of CoC to pm@etechenv.com.

FORM-006 Revision 1.0

<sup>†</sup> Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476



June 12, 2024

LANCE CRENSHAW

Etech Environmental & Safety Solutions
2617 W MARLAND

HOBBS, NM 88240

RE: THUNDERCLOUD BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 05/16/24 15:37.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

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

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

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

Method SM 9223-B Total Coliform and E. coli (Colilert MMO-MUG)

Method EPA 524.2 Regulated VOCs and Total Trihalomethanes (TTHM)

Method EPA 552.2 Total Haloacetic Acids (HAA-5)

Celey D. Keene

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

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



#### Analytical Results For:

Etech Environmental & Safety Solutions

Project: THUNDERCLOUD BATTERY

Reported: 12-Jun-24 08:16

2617 W MARLAND HOBBS NM, 88240 Project Number: 20138

Project Manager: LANCE CRENSHAW

Fax To:

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL 45 @ 1.5'	H242727-01	Soil	15-May-24 00:00	16-May-24 15:37
FL 46 @ 1.5'	H242727-02	Soil	15-May-24 00:00	16-May-24 15:37
FL 47 @ 1.5'	H242727-03	Soil	15-May-24 00:00	16-May-24 15:37
FL 48 @ 1.5'	H242727-04	Soil	15-May-24 00:00	16-May-24 15:37
FL 49 @ 1.5'	H242727-05	Soil	15-May-24 00:00	16-May-24 15:37
FL 50 @ 7'	H242727-06	Soil	15-May-24 00:00	16-May-24 15:37
NW 1	H242727-07	Soil	15-May-24 00:00	16-May-24 15:37
EW 4	H242727-08	Soil	15-May-24 00:00	16-May-24 15:37
WW 5	H242727-09	Soil	15-May-24 00:00	16-May-24 15:37

06/12/24 - Client changed the sample ID on -07 (see COC). This is the revised report and will replace the one sent on 05/22/24.

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



#### Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: THUNDERCLOUD BATTERY

Project Number: 20138

Project Manager: LANCE CRENSHAW

Fax To:

Reported: 12-Jun-24 08:16

FL 45 @ 1.5' H242727-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	tories					
Inorganic Compounds										
Chloride	256		16.0	mg/kg	4	4052013	CT	20-May-24	4500-Cl-B	
Volatile Organic Compound	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4051718	MS	18-May-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4051718	MS	18-May-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4051718	MS	18-May-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4051718	MS	18-May-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4051718	MS	18-May-24	8021B	
Surrogate: 4-Bromofluorobenzene (P.	ID)		101 %	71.5	-134	4051718	MS	18-May-24	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0	•	10.0	mg/kg	1	4051636	MS	17-May-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4051636	MS	17-May-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4051636	MS	17-May-24	8015B	
Surrogate: 1-Chlorooctane			107 %	48.2	-134	4051636	MS	17-May-24	8015B	
Surrogate: 1-Chlorooctadecane			111 %	49.1	-148	4051636	MS	17-May-24	8015B	

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



#### Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: THUNDERCLOUD BATTERY

Project Number: 20138

Project Manager: LANCE CRENSHAW

Fax To:

Reported: 12-Jun-24 08:16

FL 46 @ 1.5' H242727-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Labora	tories					
Inorganic Compounds										
Chloride	32.0		16.0	mg/kg	4	4052013	CT	20-May-24	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4051718	MS	18-May-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4051718	MS	18-May-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4051718	MS	18-May-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4051718	MS	18-May-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4051718	MS	18-May-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)	)		104 %	71.5	i-134	4051718	MS	18-May-24	8021B	
Petroleum Hydrocarbons by C	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4051636	MS	17-May-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4051636	MS	17-May-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4051636	MS	17-May-24	8015B	
Surrogate: 1-Chlorooctane			107 %	48.2	2-134	4051636	MS	17-May-24	8015B	
Surrogate: 1-Chlorooctadecane			111 %	49.1	-148	4051636	MS	17-May-24	8015B	

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



#### Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: THUNDERCLOUD BATTERY

Project Number: 20138

. 20138

Project Manager: LANCE CRENSHAW

Fax To:

Reported: 12-Jun-24 08:16

FL 47 @ 1.5' H242727-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	16.0		16.0	mg/kg	4	4052013	CT	20-May-24	4500-Cl-B	
Volatile Organic Compounds	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4051718	MS	18-May-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4051718	MS	18-May-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4051718	MS	18-May-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4051718	MS	18-May-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4051718	MS	18-May-24	8021B	
Surrogate: 4-Bromofluorobenzene (Pl	D)		103 %	71.5	-134	4051718	MS	18-May-24	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4051636	MS	17-May-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4051636	MS	17-May-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4051636	MS	17-May-24	8015B	
Surrogate: 1-Chlorooctane			111 %	48.2	-134	4051636	MS	17-May-24	8015B	
Surrogate: 1-Chlorooctadecane			115 %	49.1	-148	4051636	MS	17-May-24	8015B	

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



#### Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: THUNDERCLOUD BATTERY

Project Number: 20138

Project Manager: LANCE CRENSHAW

Fax To:

Reported: 12-Jun-24 08:16

FL 48 @ 1.5' H242727-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	16.0		16.0	mg/kg	4	4052013	CT	20-May-24	4500-Cl-B	
Volatile Organic Compound	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4051718	MS	18-May-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4051718	MS	18-May-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4051718	MS	18-May-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4051718	MS	18-May-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4051718	MS	18-May-24	8021B	
Surrogate: 4-Bromofluorobenzene (P	ID)		103 %	71.5	-134	4051718	MS	18-May-24	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4051636	MS	17-May-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4051636	MS	17-May-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4051636	MS	17-May-24	8015B	
Surrogate: 1-Chlorooctane			108 %	48.2	-134	4051636	MS	17-May-24	8015B	
Surrogate: 1-Chlorooctadecane			111 %	49.1	-148	4051636	MS	17-May-24	8015B	

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Celey D. Keine



#### Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: THUNDERCLOUD BATTERY

Project Number: 20138

Project Manager: LANCE CRENSHAW

Fax To:

Reported: 12-Jun-24 08:16

FL 49 @ 1.5' H242727-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	tories					
Inorganic Compounds										
Chloride	272	,	16.0	mg/kg	4	4052013	CT	20-May-24	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4051719	MS	18-May-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4051719	MS	18-May-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4051719	MS	18-May-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4051719	MS	18-May-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4051719	MS	18-May-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID	"		91.8 %	71.5	i-134	4051719	MS	18-May-24	8021B	
Petroleum Hydrocarbons by C	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4051636	MS	17-May-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4051636	MS	17-May-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4051636	MS	17-May-24	8015B	
Surrogate: 1-Chlorooctane			97.8 %	48.2	?-134	4051636	MS	17-May-24	8015B	
Surrogate: 1-Chlorooctadecane			101 %	49 1	-148	4051636	MS	17-May-24	8015B	

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Celey D. Keene



#### Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: THUNDERCLOUD BATTERY

Project Number: 20138

Project Manager: LANCE CRENSHAW

Fax To:

Reported: 12-Jun-24 08:16

FL 50 @ 7' H242727-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	256		16.0	mg/kg	4	4052013	CT	20-May-24	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4051719	MS	18-May-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4051719	MS	18-May-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4051719	MS	18-May-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4051719	MS	18-May-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4051719	MS	18-May-24	8021B	
Surrogate: 4-Bromofluorobenzene (PL	D)		91.5 %	71.5	-134	4051719	MS	18-May-24	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4051636	MS	17-May-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4051636	MS	17-May-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4051636	MS	17-May-24	8015B	
Surrogate: 1-Chlorooctane			111 %	48.2	-134	4051636	MS	17-May-24	8015B	
Surrogate: 1-Chlorooctadecane			115 %	49.1	-148	4051636	MS	17-May-24	8015B	

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#### **Analytical Results For:**

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: THUNDERCLOUD BATTERY

Project Number: 20138

Project Manager: LANCE CRENSHAW

Fax To:

Reported: 12-Jun-24 08:16

# NW 1 H242727-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	32.0		16.0	mg/kg	4	4052009	HM	20-May-24	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4051719	MS	18-May-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4051719	MS	18-May-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4051719	MS	18-May-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4051719	MS	18-May-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4051719	MS	18-May-24	8021B	
Surrogate: 4-Bromofluorobenzene (PI	D)		90.9 %	71.5	-134	4051719	MS	18-May-24	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4051636	MS	17-May-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4051636	MS	17-May-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4051636	MS	17-May-24	8015B	
Surrogate: 1-Chlorooctane			110 %	48.2	-134	4051636	MS	17-May-24	8015B	
Surrogate: 1-Chlorooctadecane			114 %	49.1	-148	4051636	MS	17-May-24	8015B	

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#### **Analytical Results For:**

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: THUNDERCLOUD BATTERY

Project Number: 20138

Project Manager: LANCE CRENSHAW

Fax To:

Reported: 12-Jun-24 08:16

# EW 4 H242727-08 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	32.0		16.0	mg/kg	4	4052009	HM	20-May-24	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4051719	MS	18-May-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4051719	MS	18-May-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4051719	MS	18-May-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4051719	MS	18-May-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4051719	MS	18-May-24	8021B	
Surrogate: 4-Bromofluorobenzene (PIL	))		91.6 %	71.5	-134	4051719	MS	18-May-24	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4051636	MS	17-May-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4051636	MS	17-May-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4051636	MS	17-May-24	8015B	
Surrogate: 1-Chlorooctane			98.0 %	48.2	-134	4051636	MS	17-May-24	8015B	
Surrogate: 1-Chlorooctadecane			103 %	49.1	-148	4051636	MS	17-May-24	8015B	

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Celeg D. Keene

Celey D. Keene, Lab Director/Quality Manager



#### **Analytical Results For:**

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: THUNDERCLOUD BATTERY

Project Number: 20138

Project Manager: LANCE CRENSHAW

Fax To:

Reported: 12-Jun-24 08:16

# WW 5 H242727-09 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	304		16.0	mg/kg	4	4052009	HM	20-May-24	4500-Cl-B	
Volatile Organic Compound	ls by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4051719	MS	18-May-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4051719	MS	18-May-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4051719	MS	18-May-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4051719	MS	18-May-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4051719	MS	18-May-24	8021B	
Surrogate: 4-Bromofluorobenzene (F	PID)		90.9 %	71.5	-134	4051719	MS	18-May-24	8021B	
Petroleum Hydrocarbons by	y GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4051636	MS	17-May-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4051636	MS	17-May-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4051636	MS	17-May-24	8015B	
Surrogate: 1-Chlorooctane			105 %	48.2	-134	4051636	MS	17-May-24	8015B	
Surrogate: 1-Chlorooctadecane			109 %	49.1	-148	4051636	MS	17-May-24	8015B	

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#### **Analytical Results For:**

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: THUNDERCLOUD BATTERY

Project Number: 20138

Project Manager: LANCE CRENSHAW

Fax To:

Reported: 12-Jun-24 08:16

### **Inorganic Compounds - Quality Control**

#### **Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4052009 - 1:4 DI Water										
Blank (4052009-BLK1)				Prepared &	Analyzed:	20-May-24	1			
Chloride	ND	16.0	mg/kg							
LCS (4052009-BS1)				Prepared &	Analyzed:	20-May-24	1			
Chloride	448	16.0	mg/kg	400	·	112	80-120		·	
LCS Dup (4052009-BSD1)				Prepared &	Analyzed:	20-May-24	1			
Chloride	448	16.0	mg/kg	400		112	80-120	0.00	20	
Batch 4052013 - 1:4 DI Water										
Blank (4052013-BLK1)				Prepared &	Analyzed:	20-May-24	1			
Chloride	ND	16.0	mg/kg							
LCS (4052013-BS1)				Prepared &	Analyzed:	20-May-24	1			
Chloride	416	16.0	mg/kg	400		104	80-120			
LCS Dup (4052013-BSD1)				Prepared &	z Analyzed:	20-May-24	1			
Chloride	416	16.0	mg/kg	400	·	104	80-120	0.00	20	·

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#### Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: THUNDERCLOUD BATTERY

Project Number: 20138

Project Manager: LANCE CRENSHAW

Fax To:

Reported: 12-Jun-24 08:16

#### Volatile Organic Compounds by EPA Method 8021 - Quality Control

#### **Cardinal Laboratories**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Daten	4051/10 -	voiatiles

Blank (4051718-BLK1)				Prepared & Analy	yzed: 17-May-2	4			
Benzene	ND	0.050	mg/kg						
Toluene	ND	0.050	mg/kg						
Ethylbenzene	ND	0.050	mg/kg						
Total Xylenes	ND	0.150	mg/kg						
Total BTEX	ND	0.300	mg/kg						
Surrogate: 4-Bromofluorobenzene (PID)	0.0516		mg/kg	0.0500	103	71.5-134			
LCS (4051718-BS1)				Prepared: 17-Mag	y-24 Analyzed:	18-May-24			
Benzene	1.98	0.050	mg/kg	2.00	98.9	82.8-130			
Toluene	1.94	0.050	mg/kg	2.00	96.9	86-128			
Ethylbenzene	1.93	0.050	mg/kg	2.00	96.3	85.9-128			
m,p-Xylene	4.20	0.100	mg/kg	4.00	105	89-129			
o-Xylene	2.08	0.050	mg/kg	2.00	104	86.1-125			
Total Xylenes	6.29	0.150	mg/kg	6.00	105	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0479		mg/kg	0.0500	95.9	71.5-134			
LCS Dup (4051718-BSD1)				Prepared & Analy	yzed: 17-May-2	4			
Benzene	2.03	0.050	mg/kg	2.00	101	82.8-130	2.50	15.8	
Toluene	2.02	0.050	mg/kg	2.00	101	86-128	4.34	15.9	
Ethylbenzene	1.96	0.050	mg/kg	2.00	98.0	85.9-128	1.73	16	
m,p-Xylene	4.28	0.100	mg/kg	4.00	107	89-129	1.74	16.2	
o-Xylene	2.11	0.050	mg/kg	2.00	106	86.1-125	1.29	16.7	
Total Xylenes	6.39	0.150	mg/kg	6.00	106	88.2-128	1.59	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0494		mg/kg	0.0500	98.8	71.5-134			

#### Batch 4051719 - Volatiles

Blank (4051719-BLK1)			Prepared: 17-May-24 Analyzed: 18-May-24
Benzene	ND	0.050 mg/kg	
Toluene	ND	0.050 mg/kg	
Ethylbenzene	ND	0.050 mg/kg	
Total Xylenes	ND	0.150 mg/kg	

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



%REC

# Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: THUNDERCLOUD BATTERY

Spike

Source

Project Number: 20138

Project Manager: LANCE CRENSHAW

Fax To:

Reported: 12-Jun-24 08:16

RPD

#### Volatile Organic Compounds by EPA Method 8021 - Quality Control

#### **Cardinal Laboratories**

Reporting

		Reporting		Spike	Source		/0KEC		KrD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 4051719 - Volatiles										
Blank (4051719-BLK1)				Prepared: 1	17-May-24	Analyzed:	18-May-24			
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	ND		mg/kg	0.0500		90.8	71.5-134			
LCS (4051719-BS1)				Prepared: 1	17-May-24	Analyzed:	18-May-24			
Benzene	2.12	0.050	mg/kg	2.00		106	82.8-130			
Toluene	2.03	0.050	mg/kg	2.00		102	86-128			
Ethylbenzene	2.05	0.050	mg/kg	2.00		102	85.9-128			
m,p-Xylene	3.93	0.100	mg/kg	4.00		98.2	89-129			
o-Xylene	1.92	0.050	mg/kg	2.00		95.8	86.1-125			
Total Xylenes	5.84	0.150	mg/kg	6.00		97.4	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0464		mg/kg	0.0500		92.7	71.5-134			
LCS Dup (4051719-BSD1)				Prepared: 1	17-May-24	Analyzed:	18-May-24			
Benzene	2.08	0.050	mg/kg	2.00		104	82.8-130	1.92	15.8	
Toluene	1.99	0.050	mg/kg	2.00		99.6	86-128	2.09	15.9	
Ethylbenzene	2.00	0.050	mg/kg	2.00		100	85.9-128	2.18	16	
m,p-Xylene	3.85	0.100	mg/kg	4.00		96.1	89-129	2.10	16.2	
o-Xylene	1.87	0.050	mg/kg	2.00		93.5	86.1-125	2.49	16.7	
Total Xylenes	5.71	0.150	mg/kg	6.00		95.2	88.2-128	2.22	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0463		mg/kg	0.0500		92.7	71.5-134			

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%REC

#### **Analytical Results For:**

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: THUNDERCLOUD BATTERY

Spike

Source

Project Number: 20138

Project Manager: LANCE CRENSHAW

Fax To:

Reported: 12-Jun-24 08:16

RPD

#### Petroleum Hydrocarbons by GC FID - Quality Control

#### **Cardinal Laboratories**

Reporting

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 4051636 - General Prep - Organics										
Blank (4051636-BLK1)				Prepared:	16-May-24	Analyzed:	17-May-24			
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	53.8		mg/kg	50.0		108	48.2-134			
Surrogate: 1-Chlorooctadecane	56.3		mg/kg	50.0		113	49.1-148			
LCS (4051636-BS1)				Prepared:	16-May-24	Analyzed:	17-May-24			
GRO C6-C10	188	10.0	mg/kg	200		94.1	66.4-123			
DRO >C10-C28	203	10.0	mg/kg	200		102	66.5-118			
Total TPH C6-C28	391	10.0	mg/kg	400		97.8	77.6-123			
Surrogate: 1-Chlorooctane	57.3		mg/kg	50.0		115	48.2-134			
Surrogate: 1-Chlorooctadecane	57.5		mg/kg	50.0		115	49.1-148			
LCS Dup (4051636-BSD1)				Prepared:	16-May-24	Analyzed:	17-May-24			
GRO C6-C10	185	10.0	mg/kg	200		92.6	66.4-123	1.63	17.7	
DRO >C10-C28	203	10.0	mg/kg	200		102	66.5-118	0.0320	21	
Total TPH C6-C28	388	10.0	mg/kg	400		97.1	77.6-123	0.765	18.5	
Surrogate: 1-Chlorooctane	60.3		mg/kg	50.0		121	48.2-134			
Surrogate: 1-Chlorooctadecane	60.9		mg/kg	50.0		122	49.1-148			

Cardinal Laboratories \*=Accredited Analyte

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

Celey D. Keine



#### **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

# ARDINAL LABORATORIES

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

Company Name	: Etech Environmental & Safety Soluti	ons,	Inc							BI	LL TO					ANALYSIS REQUEST
Project Manage	r: Lance Crenshaw						P	.O. #	:							
Address: 261	7 West Marland						Company Mewbourn			ırne						
City: Hobbs	State: NM	Zip:	882	240	Attn: Connor Walk			lker								
Phone #: (575	5) 264-9884 Fax #:						A	ddre	ss:							
Project #: 201	38 Project Owner		Ме	wbou	irne		С	ity:							_	
Project Name:	Thundercloud Battery						s	tate:	N	M	Zip:		<u>•</u>	5M)	21B	
Project Location	n: 32.7231, -103.81222						P	hone	#:				Chloride	TPH (8015M)	BTEX (8021B)	
Sampler Name:	Aaron Rios						F	ax #:					등	표	E	
FOR LAB USE ONLY					MAT	RIX		PR	ESE	RV.	SAMPLI	NG		=	BT	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	SOIL	OIL	SLUDGE OTHER	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME				
'	FL 45 @ 1.5'	С	1		X				Х		5/15/24		Х	Х	Х	
7	FL 46 @ 1.5'	С	1		X				X		5/15/24		Х	Х	Х	·
3	FL 47 @ 1.5'	С	1		X	_	_	_	X		5/15/24		Х	Х	Х	
	FL 48 @ 1.5'	С	1		X		_	┸	X		5/15/24		Х	Х	Х	
9	FL 49 @ 1.5'	С	1		X	_	1	┺	Х		5/15/24		Х	Х	Х	
Y	FL 50 @ 7'	С	1		X		-	_	X		5/15/24		Х	Х	Х	
-	NW3 NW1 *	С	1	-	X	-	+	╀	X		5/15/24		Х	Х	Х	
8	EW 4	С	1		X	-	+	╀	X	Н	5/15/24		X	Х	X	-
4	WW 5	С	1	$\vdash$	X	+	+	╀	X	Н	5/15/24		X	Х	Х	
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 whetwoever 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 consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subeidiaries, 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.    Phone Result:   Yes   No   Add'l Phone #:   Fax Result:   Yes   No   Add'l Fax #:   Remarks:   R					rged Sample ID. chiziry											
Delivered By: Sampler - UPS	- Bus - Other: #JUD			Co	mple (	ntact	es				ED BY:	Please e	mail r	esults	and	copy or CoC to pm@etecnenv.com.

# Appendix E Regulatory Correspondence

From: Connor Walker

To: <u>Lance Crenshaw</u>; <u>Ben Arguijo</u>

Subject: FW: [EXT] The Oil Conservation Division (OCD) has accepted the application, Application ID: 342669

**Date:** Thursday, May 9, 2024 3:45:15 PM

From: OCDOnline@state.nm.us < OCDOnline@state.nm.us >

Sent: Thursday, May 9, 2024 2:40 PM

**To:** Connor Walker <cwalker@mewbourne.com>

Subject: [EXT] The Oil Conservation Division (OCD) has accepted the application, Application ID:

342669

To whom it may concern (c/o Connor Walker for MEWBOURNE OIL CO),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2408651560.

The sampling event is expected to take place:

When: 05/13/2024 @ 08:00

Where: D-30-18S-32E 0 FNL 0 FEL (32.722926,-103.812344)

**Additional Information:** Sample Tech: Aaron Rios

Phone: 432-701-8602, aaronr@etechenv.com

**Additional Instructions:** From the intersection of Co Rd 126A and Dry Lake Rd (32.655528, -103.796414), head N on Co Rd 126A for 4.22 mi, then SW for 0.79 mi, then N for 0.18 mi, then W for 0.07 mi, then N for 0.70 mi to arrive at the Thundercloud Battery pad (32.722329, -103.812304).

Sampling will take place on 5/13, 5/14, 5/15, 5/16, 5/17, 5/20, 5/21, 5/22, and 5/23 due to the large number of samples.

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

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Action 353507

#### **QUESTIONS**

Operator:	OGRID:
MEWBOURNE OIL CO	14744
P.O. Box 5270	Action Number:
Hobbs, NM 88241	353507
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### QUESTIONS

Prerequisites						
Incident ID (n#)	nAPP2408651560					
Incident Name	NAPP2408651560 THUNDERCLOUD 30/29 BATTERY #1 @ 0					
Incident Type	Produced Water Release					
Incident Status	Remediation Closure Report Received					

Location of Release Source						
Please answer all the questions in this group.						
Site Name	THUNDERCLOUD 30/29 BATTERY #1					
Date Release Discovered	03/15/2024					
Surface Owner	Federal					

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

aterial(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: Lightning   Production Tank   Produced Water   Released: 113 BBL   Recovered: 60 BBL   Lost: 53 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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Phone:(505) 334-6178 Fax:(505) 334-6170 <u>District IV</u> 1220 S. St Francis Dr., Santa Fe, NM 87505

**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 353507

Phone:(505) 476-3470 Fax:(505) 476-3462	
QUEST	NONS (continued)
Operator:  MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID:  14744  Action Number: 353507  Action Type:  [C-141] Remediation Closure Request C-141 (C-141-v-Closure)
QUESTIONS	, , , , , , , , , , , , , , , , , , , ,
Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (	i.e. gas only) are to be submitted on the C-129 form.
Initial Response	
The responsible party must undertake the following actions immediately unless they could create a	safety hazard that would result in injury.
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.
	diation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative o eted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of evaluation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for rele the OCD does not relieve the operator of liability should their operations have failed to	knowledge and understand that pursuant to OCD rules and regulations all operators are required cases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface out does not relieve the operator of responsibility for compliance with any other federal, state, or
<u> </u>	Name: Connor Walker

Title: Senior Engineer

Date: 03/26/2024

Email: cwalker@mewbourne.com

I hereby agree and sign off to the above statement

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III 1000 Rio Brazos Rd., Aztec, NM 87410

Phone:(505) 334-6178 Fax:(505) 334-6170 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS, Page 3

Action 353507

#### **QUESTIONS** (continued)

Operator:	OGRID:
MEWBOURNE OIL CO	14744
P.O. Box 5270	Action Number:
Hobbs, NM 88241	353507
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### QUESTIONS

Site Characterization						
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.						
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 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 ar	nd the following surface areas:					
A continuously flowing watercourse or any other significant watercourse	Greater than 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 1000 (ft.) and ½ (mi.)					
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)					
A wetland	Between 1 and 5 (mi.)					
A subsurface mine	Greater than 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	
Please answer all the questions that apply or are indicated. This information must be p	rovided to the appropriate district office no later than 90 days after the release discovery date.
Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil con	ntamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.
Have the lateral and vertical extents of contamination been fully delineate	d Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for ea	nch, in milligrams per kilograms.)
Chloride (EPA 300.0 or SM4500 Cl B)	544
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	30
GRO+DRO (EPA SW-846 Method 8015M)	20
BTEX (EPA SW-846 Method 8021B or 8260B)	0.3
Benzene (EPA SW-846 Method 8021B or 8260B)	0.1
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes which includes the anticipated timelines for beginning and completing the remediation.	completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,
On what estimated date will the remediation commence	05/09/2024
On what date will (or did) the final sampling or liner inspection occur	05/15/2024
On what date will (or was) the remediation complete(d)	05/28/2024
What is the estimated surface area (in square feet) that will be reclaimed	12056
What is the estimated volume (in cubic yards) that will be reclaimed	653
What is the estimated surface area (in square feet) that will be remediate	ed 12056
What is the estimated volume (in cubic yards) that will be remediated	720
These estimated dates and measurements are recognized to be the best guess or calcul-	lation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.
The OCD recognizes that proposed remediation measures may have to be minimally ad	ljusted 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.

District I

1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 **District II** 

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1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS, Page 4

Action 353507

**QUESTIONS** (continued)

Operator:	OGRID:
MEWBOURNE OIL CO	14744
P.O. Box 5270	Action Number:
Hobbs, NM 88241	353507
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the	appropriate district office no later than 90 days after the release discovery date.
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	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.

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

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

I hereby agree and sign off to the above statement

Name: Connor Walker Title: Senior Engineer Email: cwalker@mewbourne.com

Date: 06/12/2024

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

District I
1625 N. French Dr., Hobbs, NM 88240
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District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

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1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS, Page 5

Action 353507

**QUESTIONS** (continued)

Operator:	OGRID:
MEWBOURNE OIL CO	14744
P.O. Box 5270	Action Number:
Hobbs, NM 88241	353507
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### QUESTIONS

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

District I

1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 **District III** 

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS, Page 6

Action 353507

**QUESTIONS** (continued)

Operator:	OGRID:
MEWBOURNE OIL CO	14744
P.O. Box 5270	Action Number:
Hobbs, NM 88241	353507
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	342669
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/13/2024
What was the (estimated) number of samples that were to be gathered	110
What was the sampling surface area in square feet	16000

Remediation Closure Request		
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.		
Requesting a remediation closure approval with this submission	Yes	
Have the lateral and vertical extents of contamination been fully delineated	Yes	
Was this release entirely contained within a lined containment area	No	
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes	
What was the total surface area (in square feet) remediated	12056	
What was the total volume (cubic yards) remediated	720	
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	12056	
What was the total volume (in cubic yards) reclaimed	720	
Summarize any additional remediation activities not included by answers (above)	Please see attached closure report for complete remediation activities.	

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Name: Connor Walker
Title: Senior Engineer
Email: cwalker@mewbourne.com
Date: 06/12/2024

District I
1625 N. French Dr., Hobbs, NM 88240
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District II 811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS, Page 7

Action 353507

**QUESTIONS** (continued)

Operator:	OGRID:
MEWBOURNE OIL CO	14744
P.O. Box 5270	Action Number:
Hobbs, NM 88241	353507
	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

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 353507

#### **CONDITIONS**

Operator:	OGRID:
MEWBOURNE OIL CO	14744
P.O. Box 5270	Action Number:
Hobbs, NM 88241	353507
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### CONDITIONS

Created By	Condition	Condition Date
crystal.walker	Operator failed to provide proper Sampling Notification pursuant to 19.15.29.12.D.(1).(a) NMAC. Failure to provide proper sampling notice is a compliance issue and OCD may pursue compliance actions pursuant to 19.15.5 NMAC. Operator shall ensure future compliance with 19.15.29.12.D. (1).(a) NMAC	7/10/2024
crystal.walker	Closure Approved. Sampling Notifications need to be submitted for all confirmation sampling events. The two-day notification was submitted for samples taken on 5/13/2024, but not for samples taken on 5/14/2024 or 5/15/2024. The NMOCD does not have to accept confirmation samples without a sampling notification. Please be sure to submit sampling notifications for all confirmation sampling events in the future.	7/10/2024