

Amended Remediation Summary & Soil Closure Request

Mewbourne Oil Company Mad Dog 35 CN St. Com #1H Battery

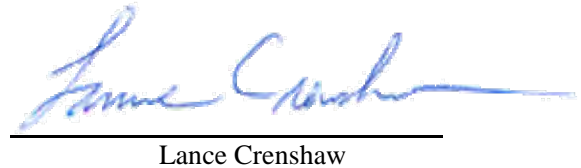
Lea County, New Mexico
Unit Letter "C", Section 35, Township 23 South, Range 34 East
Latitude 32.267571 North, Longitude 103.442833 West
NMOCD Reference No. nAPP2400929341

Prepared By:

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1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Mewbourne Oil Company, has prepared this *Amended Remediation Summary & Soil Closure Request* for the release known as the Mad Dog 35 CN St. Com #1H Battery (henceforth, "Mad Dog 35"). Details of the release are summarized below:

Location of Release Source

Latitude: 32.267571 Longitude: -103.442833

Provided GPS are in WGS84 format.

Site Name: Mad Dog 35 CN St. Com #1H Battery	Site Type: Tank Battery
Date Release Discovered: 12/27/2023	API # (if applicable): N/A

Unit Letter	Section	Township	Range	County
"C"	35	23S	34E	Lea

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (Name Limestone Basin Prop Ranch, LLC)

Nature and Volume of Release

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 750	Volume Recovered (bbls) 720
	Is the concentration of dissolved chloride in the produced water > 10,000 mg/L?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released	Volume/Weight Recovered

Cause of Release:

A small steel plug on the Gun Barrel failed due to corrosion.

Initial Response

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

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

2.0 SITE CHARACTERIZATION

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (bgs)?	Between 100 and 500 (ft.)
What method was used to determine the depth to groundwater?	Direct Measurement
Did the release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
What is the minimum distance between the closest lateral extents of the release and the following surface areas?	
A continuously flowing watercourse or any other significant watercourse?	1,000 (ft.) to ½ (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	1 to 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?	½ to 1 (mi.)
Any other fresh water well or spring?	1 to 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field?	> 5 (mi.)
A wetland?	1,000 (ft.) to ½ (mi.)
A subsurface mine?	> 5 (mi.)
A (non-karst) unstable area?	1,000 (ft.) to ½ (mi.)
Categorize the risk of this well/site being in a karst geology.	Low
A 100-year floodplain?	> 5 (mi.)
Did the release impact areas not on an exploration, development, production or storage site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Searches of databases maintained by the NMOCD, New Mexico Office of the State Engineer (NMOSE), and United States Geological Survey (USGS) were conducted in an effort to determine the horizontal distance to known water sources within a half-mile radius of the Mad Dog 35 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 June 18, 2024, an investigative soil boring (BH-1) was drilled in the northwest corner of the Mad Dog 35 production pad in order to determine if shallow groundwater is present in the area. Soil boring BH-1 was advanced to a total depth of approximately 105 feet bgs and left open for over 72 hours. No indications of inflow or accumulation of water were noted during the advancement of the borehole or a subsequent gauging event. In addition, a groundwater gauging event conducted on June 21, 2024, prior to plugging and abandonment (P&A), confirmed that the borehole was dry. The location of soil boring BH-1 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 Closure Criteria and Reclamation Standards for the Mad Dog 35 release are as listed in the table on the following page.

Closure Criteria for Soils Impacted by a Release

Probable Depth to Groundwater	Constituent	Laboratory Analytical Method	Closure Criteria*†	Reclamation Standards*‡
Between 100 and 500 (ft.)	Chloride (Cl-)	EPA** 300.0 or SM4500 Cl B	20,000	600
	Total Petroleum Hydrocarbons (TPH)	EPA SW-846 Method 8015M Ext	2,500	100
	Gas Range Organics + Diesel Range Organics (GRO+DRO)	EPA SW-846 Method 8015M	1,000	N/A
	Benzene	EPA SW-846 Methods 8021b or 8260b	10	10
	Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX)	EPA SW-846 Methods 8021b or 8260b	50	50

* Measured in milligrams per kilogram (mg/kg)

** Environmental Protection Agency

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

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

4.0 REMEDIATION ACTIVITIES SUMMARY

On January 16, 2024, remediation activities commenced at the Mad Dog 35 release site. In accordance with NMOCD regulatory guidelines, impacted soil affected above the Closure Criteria and/or Reclamation Standards was excavated and stockpiled on-site, pending transfer to an NMOCD-permitted surface waste facility for disposal. Olfactory/visual senses and/or a chloride test kit were utilized to field-screen the horizontal and vertical extent of impacted soil and to guide the excavation. The sidewalls and floor of the excavation were advanced until field tests and field observations suggested BTEX, TPH, and chloride concentrations were below the applicable Closure Criteria and/or 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.

Requesting a remediation plan approval with this submission?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Have the lateral and vertical extents of contamination been fully delineated?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Was this release entirely contained within a lined containment area?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
On what estimated date will (or did) the remediation commence?	1/16/2024	
On what date will (or did) the final sampling or liner inspection occur?	2/2/2024	
On what date will (or was) the remediation complete(d)?	2/5/2024	
What is the total surface area (sq. ft.) in need of or that will <i>eventually</i> be reclaimed?	6,378	
What is the total volume (cy) in need of or that will <i>eventually</i> be reclaimed?	945	
What was the total surface area (sq. ft.) that has or will be remediated?	10,288	
What was the total volume (cy) that has or will be remediated?	460	
This remediation utilized the following processes to remediate/reduce contaminants:		
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
(In Situ) Soil Vapor Extraction	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Ground Water Abatement pursuant to 19.15.30 NMAC	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Other (Non-listed remedial process)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Which OCD approved facility was or will be used for off-site disposal?	OWL Landfill Jal	
NMOCD Disposal Facility ID?	fJEG1635837366	
Summarize any additional remediation activities not included by answers above.	See below	

Summary of Soil sampling Events

Constituent	Highest Observable Concentration (mg/kg)	Sample ID	Sample Date	Sample Depth (ft bgs)	Soil Status
Chloride	3,800	FL 63 @ 6 in.	1/26/2024	0.5	In-Situ
TPH	6,070	FL 53 @ 6 in.	1/26/2024	0.5	Excavated & Resampled
GRO+DRO	5,050	FL 53 @ 6 in.	1/26/2024	0.5	Excavated & Resampled
BTEX	0.334	FL 53 @ 6 in.	1/26/2024	0.5	Excavated & Resampled
Benzene	<0.050	All submitted samples	1/18, 1/24, 1/26 & 2/2/24	0.5–1.5	In-Situ & Excavated

Please reference Table 1 for additional information.

On January 18, 2024, Etech collected 19 confirmation soil samples (NW1, NW2, EW1, EW2, WW1, WW2, and FL 1 @ 1' through FL 13 @ 1.5') from the sidewalls and floor of the excavated area. The soil samples were submitted to a certified, commercial laboratory (henceforth, "the laboratory") for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX, TPH, and chloride concentrations were below the applicable Closure Criteria and Reclamation Standards in each of the submitted soil samples.

On January 24, 2024, Etech collected 22 confirmation soil samples (EW3, EW4, WW3, WW4, and FL 14 @ 1.5' through FL 31 @ 6") from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX, TPH, and chloride concentrations were below the applicable Closure Criteria and/or Reclamation Standards in each of the submitted soil samples.

On January 26, 2024, Etech collected 59 confirmation soil samples (NW3, NW4, EW5, SW1, SW2, WW5, WW6, and FL 32 @ 6 in. through FL 83 @ 6 in.) from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX and chloride concentrations were below the applicable Closure Criteria and/or Reclamation Standards in each of the submitted soil samples. GRO+DRO concentrations in soil samples WW5, WW6, FL 42 @ 6 in., FL 45 @ 6 in., FL 47 @ 6 in., and FL 53 @ 6 in. exceeded the Closure Criterion. The TPH concentration in soil sample FL 53 @ 6 in. exceeded the Closure Criterion. Based on these laboratory analytical results, the excavation was further advanced in the areas characterized by soil samples WW5, WW6, FL 42 @ 6 in., FL 45 @ 6 in., FL 47 @ 6 in., and FL 53 @ 6 in.

On February 2, 2024, Etech collected six (6) confirmation soil samples (WW5 B, WW6 B, FL 42 @ 1', FL 45 @ 1', FL 47 @ 1', and FL 53 @ 1') from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of TPH. Laboratory analytical results indicated that TPH concentrations were below the Closure Criterion in each of the submitted soil samples.

On June 3, 2024, based on laboratory analytical results and field activities conducted to that point, a *Remediation Summary & Soil Closure Request* was submitted to the NMOCD requesting regulatory closure of the release. As listed in the "Incident Events" details in the NMOCD Permitting system, the closure request was denied on the following basis: "The depth to groundwater has not been adequately determined. When nearby wells are used to determine depth to groundwater, the wells should be no further than ½ mile away from the site, and data should be no more than 25 years old, and well construction information should be provided in the submission. The responsible party may choose to remediate to the most stringent levels listed in Table 1 of 19.15.29 NMAC in lieu of drilling to determine the depth to groundwater."

On June 18, 2024, in order to determine if shallow groundwater is present in the area, an investigative soil boring was drilled in the northwest corner of the Mad Dog 35 production pad. As described in Section 2.0 above, soil boring BH-1 was advanced to a total depth of approximately 105 feet bgs and left open for over 72 hours. No indications of inflow or accumulation of water were noted during the advancement of the soil boring or a subsequent gauging event. An additional groundwater gauging event conducted on June 21, 2024, prior to P&A, confirmed that the borehole was dry.

The final dimensions of the excavated area were approximately 150 to 350 feet in length, eight (8) to 80 feet in width, and six (6) inches to 1.5 feet in depth. During the course of remediation activities, Etech transported approximately 460 cubic yards of impacted soil to an NMOCD-permitted surface waste facility for disposal and imported approximately 460 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 regulatory correspondence are provided in Appendix E.

5.0 RESTORATION, RECLAMATION & RE-VEGETATION PLAN

From January 30 through February 5, 2024, upon receipt of laboratory analytical results from confirmation soil samples, the excavated area was backfilled with locally sourced, non-impacted "like" material placed at or near original relative positions. The affected areas were contoured and/or compacted to achieve erosion control, stability and preservation of surface water flow to the extent practicable.

On June 18, 2024, in accordance with NMOCD requirements, the reclaimed area in the pasture was seeded with an NMSLO "Sandy Sites" seed mix, which was certified to be free of noxious weeds and invasive plant species. The seed was installed at the prescribed rate utilizing a broadcaster and harrow.

The affected areas on the Mad Dog 35 production pad will be revegetated with an NMSLO "Sandy Sites" seed mix or other agency/landowner-approved seed mix during the first favorable growing season following the decommissioning and abandonment of the facility. The seed will be installed at the prescribed rate utilizing either a seed drill or a broadcaster and harrow.

All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the site's existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion.	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste containing earthen material with concentrations of less than 600 mg/kg chloride, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg benzene?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Requesting a reclamation approval with this submission?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Requesting a restoration complete approval with this submission?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
What was the total surface area (sq. ft.) reclaimed?	3,910	
What was the total volume (cy) reclaimed?	178	
What is the total surface area (sq. ft.) that will <i>eventually</i> be reclaimed?	6,378	
What is the total volume (cy) that will <i>eventually</i> be reclaimed?	945	

6.0 SOIL CLOSURE REQUEST

Remediation activities were conducted in accordance with NMOCD regulatory guidelines. Impacted soil affected above the Closure Criteria and/or 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 Closure Criteria and/or Reclamation Standards.

Based on laboratory analytical results and field activities conducted to date, Etech recommends Mewbourne Oil Company, provide copies of this *Amended Remediation Summary & Soil Closure Request* to the appropriate agencies and request closure be granted to the Mad Dog 35 release.

Requesting a deferral of remediation closure due date with the approval of this submission?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Requesting a remediation closure approval with this submission?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Have the lateral and vertical extents of contamination been fully delineated?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Was this release entirely contained within a lined containment area?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the site's existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion.	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
What was the total surface area (sq. ft.) remediated?	10,288	
What was the total volume (cy) remediated?	460	

7.0 LIMITATIONS

Etech Environmental & Safety Solutions, Inc., has prepared this *Amended 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

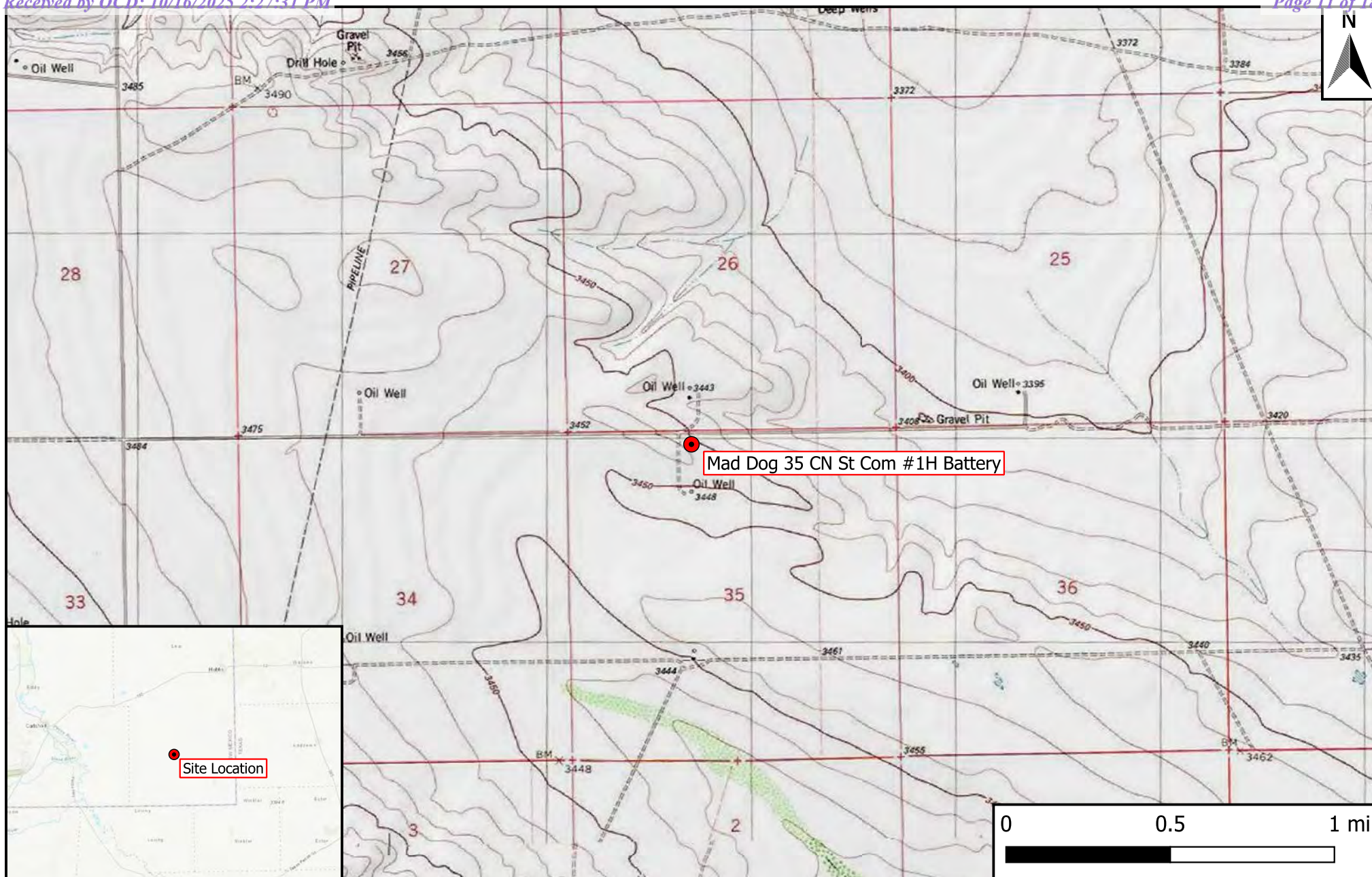
Mewbourne Oil Company
4801 Business Park Blvd.
Hobbs, NM 88240

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

(Electronic Submission)

Figure 1

Site Location Map



Legend

- Site Location

Figure 1

Site Location Map
 Mewbourne Oil Company
 Mad Dog 35 CN St Com #1H Battery
 GPS: 32.267571, -103.442833
 Lea County, New Mexico



Drafted: bja

Checked: rlc

Date: 2/9/24

Figures 2A & 2B

Site Characterization Maps

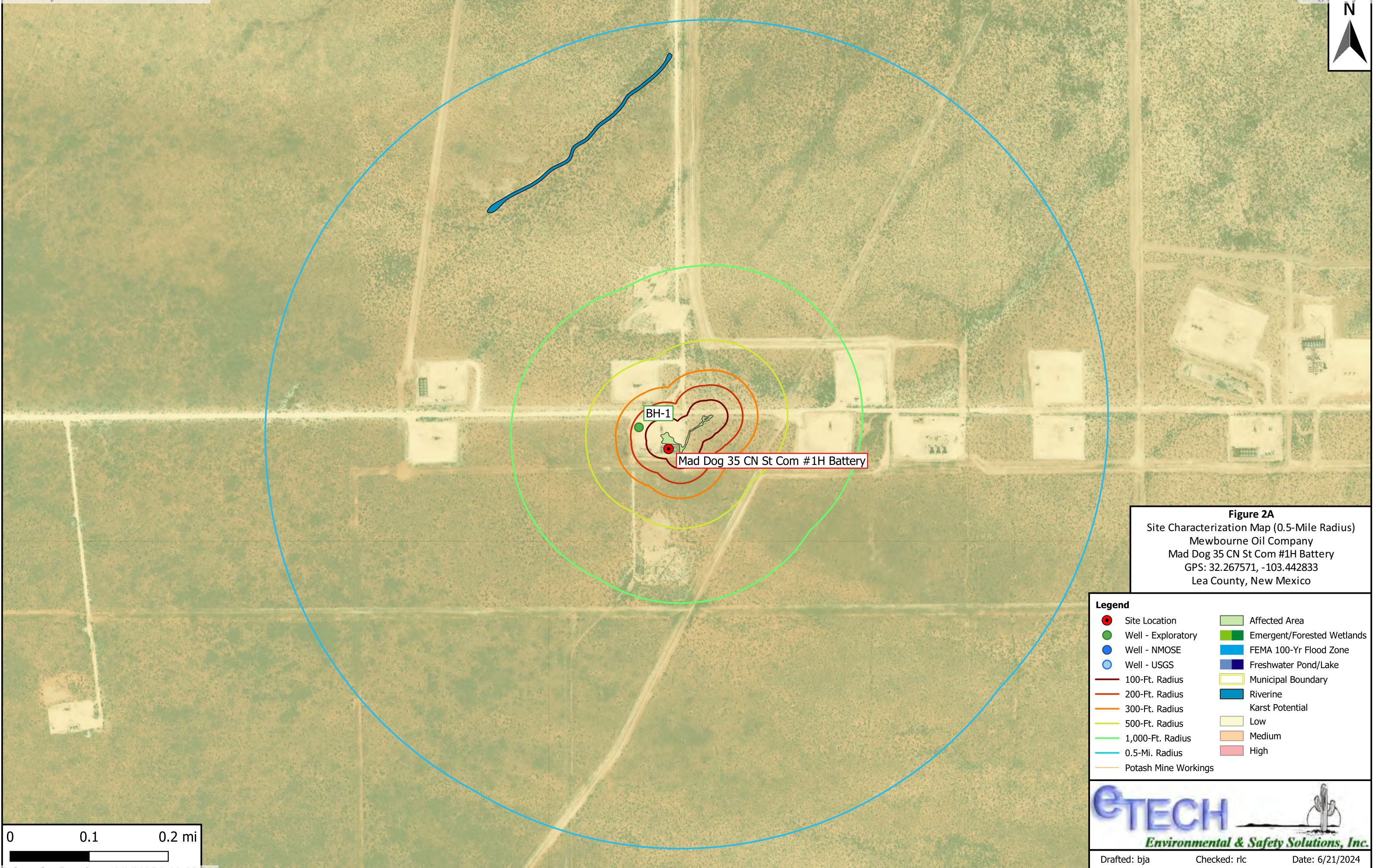


Figure 2A
Site Characterization Map (0.5-Mile Radius)
Mewbourne Oil Company
Mad Dog 35 CN St Com #1H Battery
GPS: 32.267571, -103.442833
Lea County, New Mexico

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



Drafted: bja Checked: rlc Date: 6/21/2024

0 0.1 0.2 mi

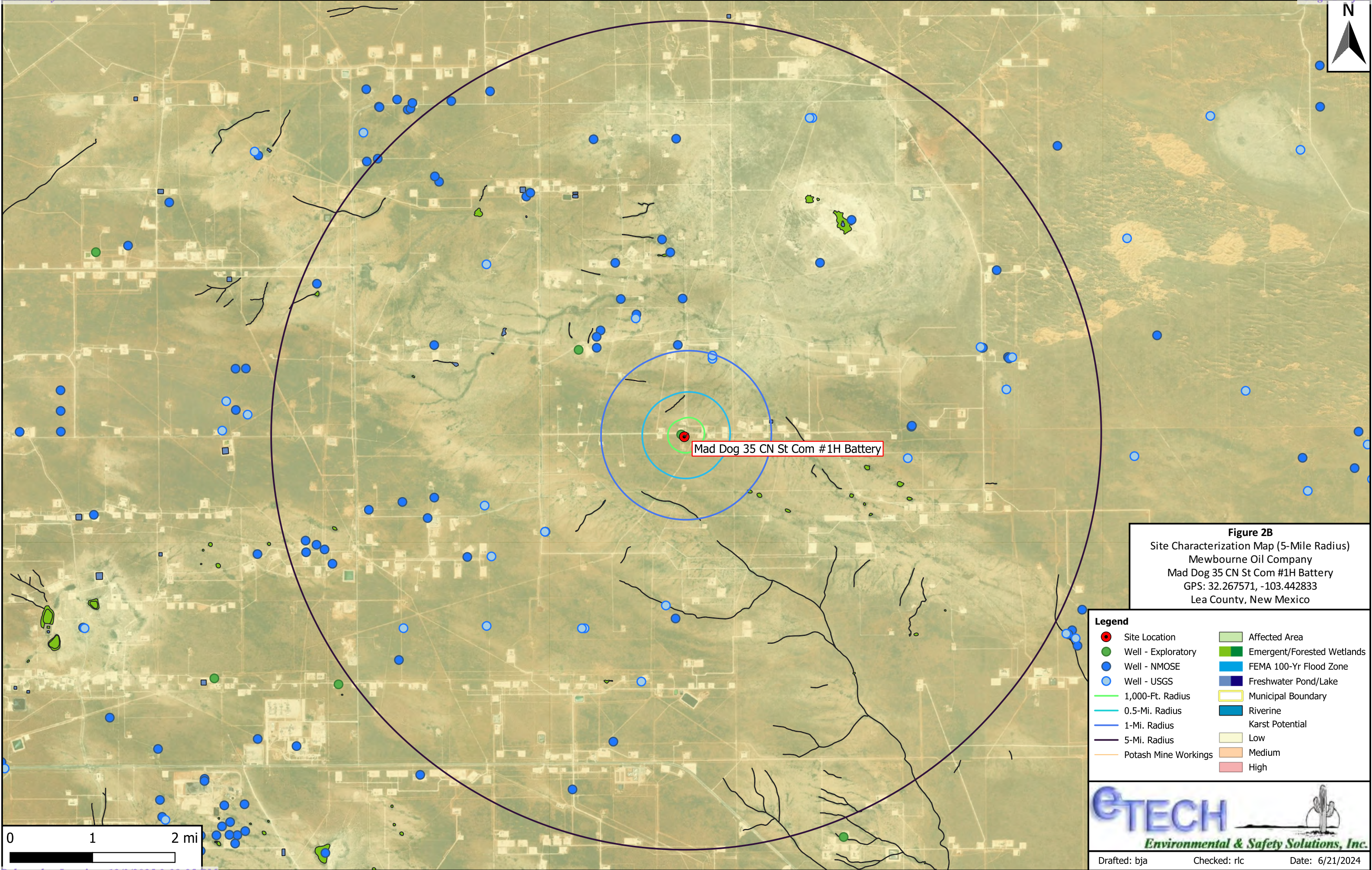


Figure 3

Sample Location Map

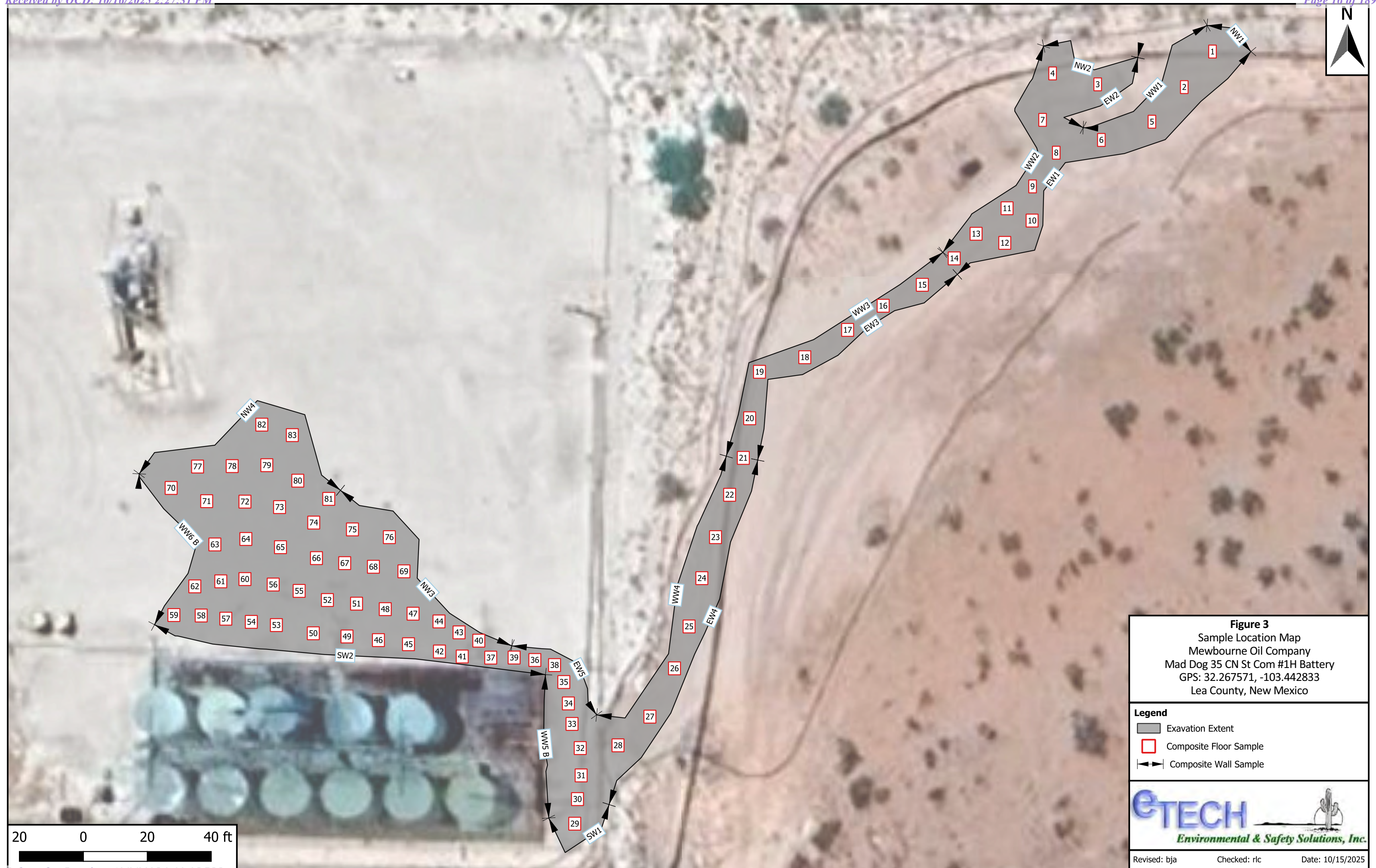


Figure 3
Sample Location Map
Mewbourne Oil Company
Mad Dog 35 CN St Com #1H Battery
GPS: 32.267571, -103.442833
Lea County, New Mexico

Legend
Exavation Extent
Composite Floor Sample
Composite Wall Sample

eTECH
Environmental & Safety Solutions, Inc.

Revised: bja Checked: rlc Date: 10/15/2025

Table 1
Concentrations of BTEX, TPH & Chloride in Soil

Table 1
Concentrations of BTEX, TPH & Chloride in Soil
Mewbourne Oil Company
Mad Dog 35 CN St Com #1H Battery
NMOCD Ref. #: nAPP2325141309

NMOCD Closure Criteria				10	50	N/A	N/A	1,000	N/A	2,500	20,000
NMOCD Reclamation Standard				10	50	N/A	N/A	N/A	N/A	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
NW1	1/18/2024	0-1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
NW2	1/18/2024	0-1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
NW3	1/26/2024	0-0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	480
NW4	1/26/2024	0-0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
EW1	1/18/2024	0-1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
EW2	1/18/2024	0-1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
EW3	1/24/2024	0-1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
EW4	1/24/2024	0-1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
EW5	1/26/2024	0-0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
SW1	1/26/2024	0-0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
SW2	1/26/2024	0-0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
WW1	1/18/2024	0-1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
WW2	1/18/2024	0-1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
WW3	1/24/2024	0-1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
WW4	1/24/2024	0-1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
WW5	1/26/2024	0-0.5	Excavated	<0.050	<0.300	<10.0	1,350	1,350	308	1,660	464
WW5 B	2/2/2024	0-0.5	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	-
WW6	1/26/2024	0-0.5	Excavated	<0.050	<0.300	<10.0	1,440	1,440	336	1,780	528
WW6 B	2/2/2024	0-0.5	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	-
FL 1 @ 1'	1/18/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 2 @ 1'	1/18/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL 3 @ 6"	1/18/2024	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
FL 4 @ 1.5'	1/18/2024	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 5 @ 1'	1/18/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FL 6 @ 1.5'	1/18/2024	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
FL 7 @ 1.5'	1/18/2024	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
FL 8 @ 1.5'	1/18/2024	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 9 @ 1.5'	1/18/2024	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 10 @ 1'	1/18/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 11 @ 1'	1/18/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
FL 12 @ 1.5'	1/18/2024	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL 13 @ 1.5'	1/18/2024	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 14 @ 1.5'	1/24/2024	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 15 @ 1.5'	1/24/2024	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 16 @ 6"	1/24/2024	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 17 @ 1'	1/24/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
FL 18 @ 1.5'	1/24/2024	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 19 @ 6"	1/24/2024	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 20 @ 1'	1/24/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL 21 @ 1.5'	1/24/2024	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FL 22 @ 1.5'	1/24/2024	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176

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

Bold: NMOCD Closure Criteria exceedance.**Red:** NMOCD Reclamation Standard exceedance.

Red Outlined Cell: Highest observable concentration.

Table 1
Concentrations of BTEX, TPH & Chloride in Soil
Mewbourne Oil Company
Mad Dog 35 CN St Com #1H Battery
NMOCD Ref. #: nAPP2325141309

NMOCD Closure Criteria				10	50	N/A	N/A	1,000	N/A	2,500	20,000
NMOCD Reclamation Standard				10	50	N/A	N/A	N/A	N/A	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
FL 23 @ 1.5'	1/24/2024	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL 24 @ 1.5'	1/24/2024	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 25 @ 1'	1/24/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL 26 @ 1.5'	1/24/2024	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL 27 @ 1'	1/24/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL 28 @ 1.5'	1/24/2024	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
FL 29 @ 6"	1/24/2024	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,570
FL 30 @ 6"	1/24/2024	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,720
FL 31 @ 6"	1/24/2024	0.5	In-Situ	<0.050	<0.300	<10.0	12.4	12.4	<10.0	12.4	3,400
FL 32 @ 6 in.	1/26/2024	0.5	In-Situ	<0.050	<0.300	<10.0	723	723	187	910	880
FL 33 @ 6 in.	1/26/2024	0.5	In-Situ	<0.050	<0.300	<10.0	92.7	92.7	11.0	104	2,240
FL 34 @ 6 in.	1/26/2024	0.5	In-Situ	<0.050	<0.300	<10.0	298	298	94.0	392	1,150
FL 35 @ 6 in.	1/26/2024	0.5	In-Situ	<0.050	<0.300	<10.0	179	179	82.6	262	144
FL 36 @ 6 in.	1/26/2024	0.5	In-Situ	<0.050	<0.300	<10.0	42.1	42.1	14.2	56.3	64.0
FL 37 @ 6 in.	1/26/2024	0.5	In-Situ	<0.050	<0.300	<10.0	214	214	112	326	16.0
FL 38 @ 6 in.	1/26/2024	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 39 @ 6 in.	1/26/2024	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
FL 40 @ 6 in.	1/26/2024	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	448
FL 41 @ 6 in.	1/26/2024	0.5	In-Situ	<0.050	<0.300	<10.0	21.1	21.1	<10.0	21.1	704
FL 42 @ 6 in.	1/26/2024	0.5	Excavated	<0.050	<0.300	<10.0	1,390	1,390	218	1,610	608
FL 42 @ 1'	2/2/2024	1	In-Situ	-	-	<10.0	158	158	33.3	191	-
FL 43 @ 6 in.	1/26/2024	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	336
FL 44 @ 6 in.	1/26/2024	0.5	In-Situ	<0.050	<0.300	<10.0	13.5	13.5	<10.0	13.5	224
FL 45 @ 6 in.	1/26/2024	0.5	Excavated	<0.050	<0.300	<10.0	1,240	1,240	251	1,490	496
FL 45 @ 1'	2/2/2024	1	In-Situ	-	-	<10.0	171	171	37.9	209	-
FL 46 @ 6 in.	1/26/2024	0.5	In-Situ	<0.050	<0.300	<10.0	21.9	21.9	<10.0	21.9	768
FL 47 @ 6 in.	1/26/2024	0.5	Excavated	<0.050	<0.300	<10.0	1,690	1,690	306	2,000	720
FL 47 @ 1'	2/2/2024	1	In-Situ	-	-	<10.0	105	105	15.0	120	-
FL 48 @ 6 in.	1/26/2024	0.5	In-Situ	<0.050	<0.300	<10.0	75.8	75.8	<10.0	75.8	624
FL 49 @ 6 in.	1/26/2024	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
FL 50 @ 6 in.	1/26/2024	0.5	In-Situ	<0.050	<0.300	<10.0	53.7	53.7	<10.0	53.7	480
FL 51 @ 6 in.	1/26/2024	0.5	In-Situ	<0.050	<0.300	<10.0	20.8	20.8	<10.0	20.8	848
FL 52 @ 6 in.	1/26/2024	0.5	In-Situ	<0.050	<0.300	<10.0	39.7	39.7	<10.0	39.7	1,120
FL 53 @ 6 in.	1/26/2024	0.5	Excavated	<0.050	0.334	34.3	5,020	5,050	1,020	6,070	336
FL 53 @ 1'	2/2/2024	1	In-Situ	-	-	<10.0	112	112	16.9	129	-
FL 54 @ 6 in.	1/26/2024	0.5	In-Situ	<0.050	<0.300	<10.0	441	441	68.5	510	624
FL 55 @ 6 in.	1/26/2024	0.5	In-Situ	<0.050	<0.300	<10.0	487	487	95.9	583	1,650
FL 56 @ 6 in.	1/26/2024	0.5	In-Situ	<0.050	<0.300	<10.0	972	972	196	1,170	800
FL 57 @ 6 in.	1/26/2024	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	912
FL 58 @ 6 in.	1/26/2024	0.5	In-Situ	<0.050	<0.300	<10.0	27.3	27.3	<10.0	27.3	1,960
FL 59 @ 6 in.	1/26/2024	0.5	In-Situ	<0.050	<0.300	<10.0	175	175	27.7	203	3,520

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

Bold: NMOCD Closure Criteria exceedance.**Red:** NMOCD Reclamation Standard exceedance.

Red Outlined Cell: Highest observable concentration.

Table 1 Concentrations of BTEX, TPH & Chloride in Soil Mewbourne Oil Company Mad Dog 35 CN St Com #1H Battery NMOCD Ref. #: nAPP2325141309											
NMOCD Closure Criteria				10	50	N/A	N/A	1,000	N/A	2,500	20,000
NMOCD Reclamation Standard				10	50	N/A	N/A	N/A	N/A	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
FL 60 @ 6 in.	1/26/2024	0.5	In-Situ	<0.050	<0.300	<10.0	18.4	18.4	<10.0	18.4	1,470
FL 61 @ 6 in.	1/26/2024	0.5	In-Situ	<0.050	<0.300	<10.0	40.0	40.0	<10.0	40.0	3,120
FL 62 @ 6 in.	1/26/2024	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,360
FL 63 @ 6 in.	1/26/2024	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,800
FL 64 @ 6 in.	1/26/2024	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,720
FL 65 @ 6 in.	1/26/2024	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,170
FL 66 @ 6 in.	1/26/2024	0.5	In-Situ	<0.050	<0.300	<10.0	254	254	46.2	300	736
FL 67 @ 6 in.	1/26/2024	0.5	In-Situ	<0.050	<0.300	<10.0	11.2	11.2	<10.0	11.2	272
FL 68 @ 6 in.	1/26/2024	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	976
FL 69 @ 6 in.	1/26/2024	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,120
FL 70 @ 6 in.	1/26/2024	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,580
FL 71 @ 6 in.	1/26/2024	0.5	In-Situ	<0.050	<0.300	<10.0	386	386	118	504	112
FL 72 @ 6 in.	1/26/2024	0.5	In-Situ	<0.050	<0.300	<10.0	360	360	116	476	96.0
FL 73 @ 6 in.	1/26/2024	0.5	In-Situ	<0.050	<0.300	<10.0	65.9	65.9	11.0	76.9	528
FL 74 @ 6 in.	1/26/2024	0.5	In-Situ	<0.050	<0.300	<10.0	419	419	148	567	80.0
FL 75 @ 6 in.	1/26/2024	0.5	In-Situ	<0.050	<0.300	<10.0	360	360	136	496	96.0
FL 76 @ 6 in.	1/26/2024	0.5	In-Situ	<0.050	<0.300	<10.0	61.5	61.5	13.7	75.2	480
FL 77 @ 6 in.	1/26/2024	0.5	In-Situ	<0.050	<0.300	<10.0	338	338	128	466	112
FL 78 @ 6 in.	1/26/2024	0.5	In-Situ	<0.050	<0.300	<10.0	93.4	93.4	22.5	116	512
FL 79 @ 6 in.	1/26/2024	0.5	In-Situ	<0.050	<0.300	<10.0	314	314	122	436	96.0
FL 80 @ 6 in.	1/26/2024	0.5	In-Situ	<0.050	<0.300	<10.0	444	444	163	607	96.0
FL 81 @ 6 in.	1/26/2024	0.5	In-Situ	<0.050	<0.300	<10.0	42.6	42.6	<10.0	42.6	576
FL 82 @ 6 in.	1/26/2024	0.5	In-Situ	<0.050	<0.300	<10.0	42.4	42.4	<10.0	42.4	640
FL 83 @ 6 in.	1/26/2024	0.5	In-Situ	<0.050	<0.300	<10.0	288	288	105	393	96.0

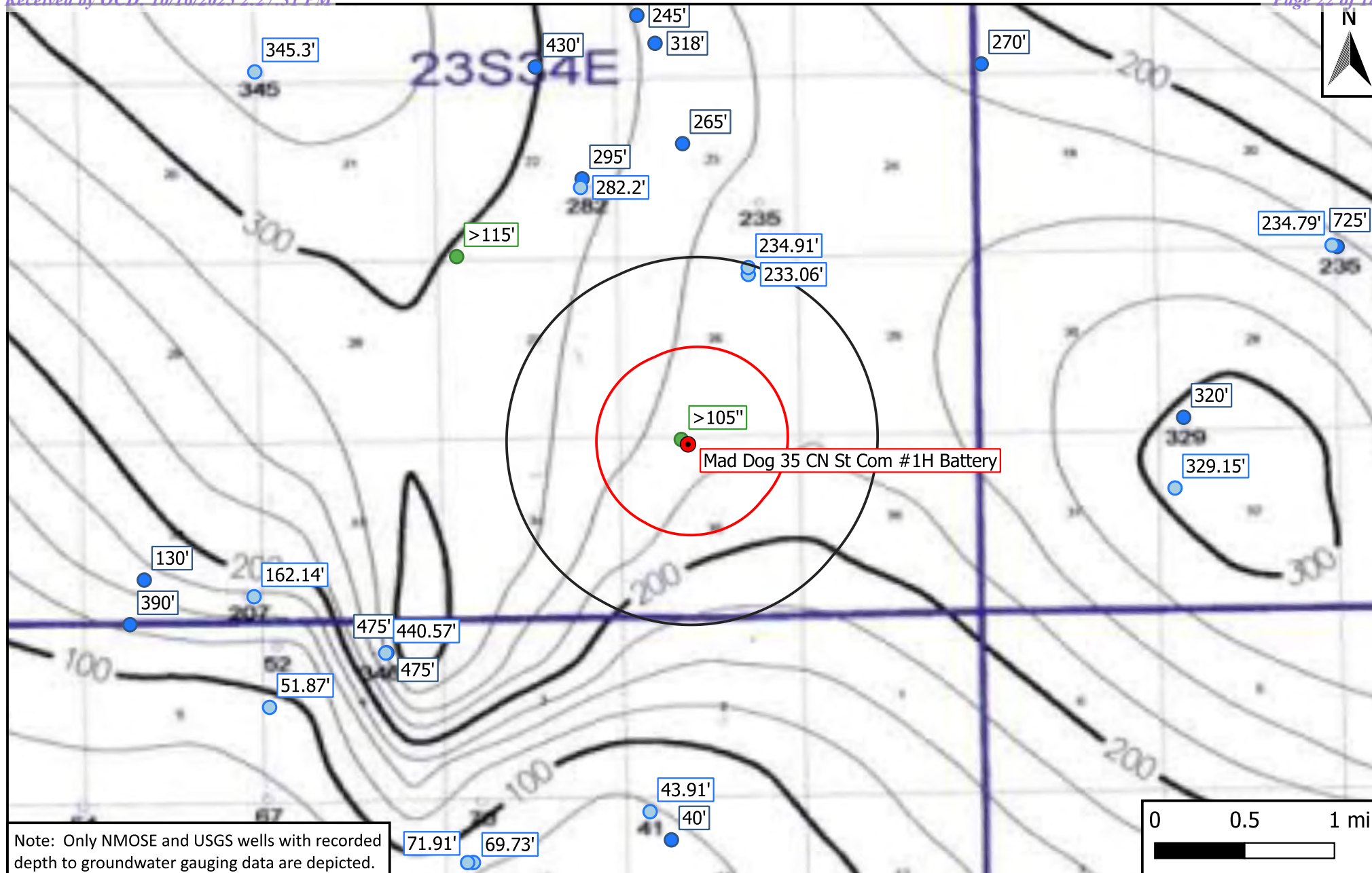
Dash (-): Sample not analyzed for that constituent.

Bold: NMOCD Closure Criteria exceedance.**Red:** NMOCD Reclamation Standard exceedance.

Red Outlined Cell: Highest observable concentration.

Appendix A

Depth to Groundwater Information



Legend

- Site Location
- Well - Exploratory
- Well - NMOSE
- Well - USGS
- 0.5-Mile Radius
- 1-Mile Radius

Figure 4

Inferred Depth to Groundwater Map
 Mewbourne Oil Company
 Mad Dog 35 CN St Com #1H Battery
 GPS: 32.267571, -103.442833
 Lea County, New Mexico


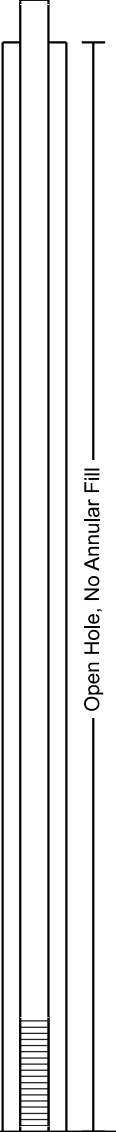




Drafted: bja

Checked: rlc

Date: 6/21/24

Soil Boring/Temporary Monitor Well BH-1

Company: Mewbourne Oil Company Site: Mad Dog 35 CN St. Com #1H Battery NMOCD Reference #: nAPP2400929341 Location: Lea Co., NM PLSS: UL/ "C", Sec. 35, T23S, R34E			Well/Borehole ID: BH-1 Coordinates (NAD 83): 32.267971 , -103.443470 Drilling Date: 6/18/2024 Depth of Boring (ft): 105 Depth to Groundwater (ft): >105 Plugging Date: 6/21/2024			Drilling Company: H&R Enterprises, LLC Driller: Jim Hawley Drilling Method: Air Rotary Logged By: Jim Hawley Drafted By: Ben J. Arguijo Draft Date: 6/21/2024		
Completion: N/A			Casing: 2" PVC			Screen: 0.020" Slotted		
Comments: The borehole was advanced in the NW corner of the production pad for the Mad Dog 35 CN St Com #1H Battery.								
Depth (ft)	Groundwater	Lithology	Material Description	Petroleum Odor	Petroleum Stain	PID Reading	Well Construction	
0			Caliche - 100%	N	N	-	 Open Hole, No Annular Fill	
5			50% caliche - 50% tan sand	N	N	-		
10			100% Red Sand	N	N	-		
15				N	N	-		
20				N	N	-		
25				N	N	-		
30				N	N	-		
35				N	N	-		
40				N	N	-		
45				N	N	-		
50				N	N	-		
55				N	N	-		
60				N	N	-		
65				N	N	-		
70				N	N	-		
75				N	N	-		
80				N	N	-		
85				N	N	-		
90				N	N	-		
95				N	N	-		
100				N	N	-		
105				N	N	-		
110			Notes:					
115			<ul style="list-style-type: none"> Lines between material types represent approximate boundaries. Actual transitions 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. 					

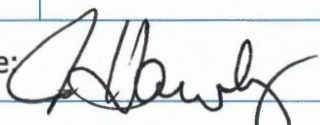
Disclaimer This bore log is intended for environmental not geotechnical purposes.



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

SOIL BORE LOG

Project:	Mewbourne Mad Dog 35 CN St. Com #1H	Date:	6/18/24
Type:	Exploratory Water Bore	Location:	32.267971,-103.443470

Depth	Soil Type	Classification	Comments
0-5'	caliche	N/A	Caliche-100%
5'-10'	caliche/sand	N/A	50% caliche-50% tan sand
10'-105'	dry red sand	N/A	100% red sand
GW=Groundwater			No GW-6/18/24 No GW-6/21/24
			Total Depth 105'
		Drillers Signature:	
		NMOSE Drillers License Number:	WD-1862



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

(R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are smallest to largest)

POD Number	Code	Sub basin	County	Q64	Q16	Q4	Sec	Tws	Range	X	Y	Map	(meters)	(In feet)		
													Distance	Well Depth	Depth Water	Water Column
CP 00580		CP	LE	SW	SE	SW	23	23S	34E	646524.0	3572948.0 *		1794	220		
CP 01977 POD1		CP	LE	SW	SW	SW	23	23S	34E	646093.4	3572949.8		1879	55		

Average Depth to Water: 0 feet

Minimum Depth: 0 feet

Maximum Depth: 0 feet

Record Count: 2

UTM Filters (in meters):

Easting: 646661.82

Northing: 3571158.69

Radius: 2000


* UTM location was derived from PLSS - see Help

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.



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)				(NAD83 UTM in meters)			
		(quarters are smallest to largest)							
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	CP 00580	3	4	3	23	23S	34E	646524	3572948* 
Driller License:	817	Driller Company:				WEST, BILLY GEORGE			
Driller Name:	WEST, BILLY GEORGE								
Drill Start Date:	02/02/1979	Drill Finish Date:				02/09/1979		Plug Date:	
Log File Date:	02/20/1979	PCW Rcv Date:						Source:	Shallow
Pump Type:		Pipe Discharge Size:						Estimated Yield:	
Casing Size:		Depth Well:				220 feet		Depth Water:	
Water Bearing Stratifications:					Top	Bottom	Description		
					200	220	Other/Unknown		

*UTM location was derived from PLSS - see Help

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.

STATE ENGINEER OFFICE

WELL RECORD

SANTA FE

Section 1. GENERAL INFORMATION

(A) Owner of well Natomas North American Inc. Owner's Well No. _____
Street or Post Office Address 1121 First Place
City and State Tulsa, Ok. 74103

Well was drilled under Permit No. CP- 580 and is located in the:

a. SW $\frac{1}{4}$ SE $\frac{1}{4}$ SW $\frac{1}{4}$ _____ of Section 23 Township 23S Range 34E N.M.P.M.

b. Tract No. _____ of Map No. _____ of the _____

c. Lot No. _____ of Block No. _____ of the _____
Subdivision, recorded in _____ County.

d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in
the _____ Grant.

(B) Drilling Contractor George West License No. WD-817

Address Rt. 1 Box 5-E Carlsbad, N.M. 88220

Drilling Began 2-2-79 Completed 2-9-79 Type tools Rotary Size of hole 7 7/8 in.

Elevation of land surface or _____ at well is _____ ft. Total depth of well 220 ft.

Completed well is ☒ shallow ☐ artesian. Depth to water upon completion of well None ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			
200	220	20	Silty clay	none

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To
none								

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				

Section 5. PLUGGING RECORD

Plugging Contractor _____
Address _____
Plugging Method _____
Date Well Plugged _____
Plugging approved by: _____
State Engineer Representative

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
1			
2			
3			
4			

FOR USE OF STATE ENGINEER ONLY

Date Received February 20, 1979 Quad _____ FWL _____ FSL _____

File No. CP-580 Use OWD Location No. 23.34.23. 34322

Section 6. LOG OF HOLE

[illegible]

Section 7. REMARKS AND ADDITIONAL INFORMATION

079 FEB 20 AM 7 52

STATE ENGINEER OFFICE
ROSWELL, N. M.

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Larry West
Driller


Driller

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



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)				(quarters are smallest to largest)		(NAD83 UTM in meters)	
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
NA	CP 01977 POD1	3	3	3	23	23S	34E	646093	3572949 
x									
Driller License:	1249	Driller Company:				ATKINS ENGINEERING ASSOC. INC.			
Driller Name:	JACKIE D ATKINS								
Drill Start Date:	09/08/2023	Drill Finish Date:				09/12/2023		Plug Date:	09/12/2023
Log File Date:	09/14/2023	PCW Rcv Date:				Source:			
Pump Type:		Pipe Discharge Size:				Estimated Yield:			
Casing Size:		Depth Well:				55 feet		Depth Water:	
x									

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.

1/11/24 10:48 AM

POINT OF DIVERSION SUMMARY



PLUGGING RECORD



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

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: C-1977- POD-1

Well owner: Matador Production Company

Phone No.: 337-319-8398

Mailing address: 5400 Lyndon B Johnson Fwy Suite 1500

City: Dallas

State: Texas

Zip code: 75240

II. WELL PLUGGING INFORMATION:

1) Name of well drilling company that plugged well: Jackie D. Atkins (Atkins Engineering Associates Inc.)

2) New Mexico Well Driller License No.: 1249 Expiration Date: 04/30/25

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

4) Date well plugging began: 09/12/2023 Date well plugging concluded: 09/12/2023

5) GPS Well Location: Latitude: 32 deg, 17 min, 1.67 sec
Longitude: 103 deg, 26 min, 54.93 sec, WGS 84

6) Depth of well confirmed at initiation of plugging as: 55 ft below ground level (bgl),
by the following manner: weighted tape

7) Static water level measured at initiation of plugging: n/a ft bgl

8) Date well plugging plan of operations was approved by the State Engineer: 09/01/2023

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

006 011 SEP 14 2023 PM 2:42

- 10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

Depth (ft bgl)	Plugging Material Used (include any additives used)	Volume of Material Placed (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement Method (tremie pipe, other)	Comments ("casing perforated first", "open annular space also plugged", etc.)
0-10'	Hydrated Bentonite	Approx. 15 gallons	15 gallons	Augers	
10'-55'	Drill Cuttings	Approx. 71 gallons	71 gallons	Boring	

09E 011 SEP 14 2023 PM 2:42

MULTIPLY	BY	AND OBTAIN
cubic feet x 7.4805	=	gallons
cubic yards x 201.97	=	gallons

III. SIGNATURE:

I, Jackie D. Atkins, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Jack Atkins

Signature of Well Driller

9/13/2023

Date



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National Water Information System: Web Interface

[USGS Water Resources](#)

Data Category:

Groundwater

Geographic Area:

United States

GO



Click for News Bulletins

Groundwater levels for the Nation



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

Search Results -- 1 sites found

Agency code = usgs

site_no list =

- 321654103261101

Minimum number of levels = 1

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

USGS 321654103261101 23S.34E.23.42332

Lea County, New Mexico

Latitude 32°16'54", Longitude 103°26'11" NAD27

Land-surface elevation 3,389 feet above NAVD88

The depth of the well is 500 feet below land surface.

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

This well is completed in the Santa Rosa Sandstone (231SNRS) local aquifer.

Output formats

[Table of data](#)

[Tab-separated data](#)

[Graph of data](#)

[Reselect period](#)

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1965-11-03		D	72019	236.42			1	Z			A
1968-06-10		D	72019	235.32			1	Z			A
1971-01-13		D	72019	235.23			1	Z			A
1976-12-16		D	72019	234.98			1	Z			A
1981-03-30		D	72019	234.91			1	Z			A

Explanation

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

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National Water Information System: Web Interface

[USGS Water Resources](#)

Data Category:
Groundwater

Geographic Area:
United States

GO

[Click for News Bulletins](#)

Groundwater levels for the Nation

Important: [Next Generation Monitoring Location Page](#)**Search Results -- 1 sites found**

Agency code = usgs

site_no list =

- 321652103261101

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload**USGS 321652103261101 23S.34E.23.42334**

Lea County, New Mexico

Latitude 32°16'52", Longitude 103°26'11" NAD27

Land-surface elevation 3,390 feet above NAVD88

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

This well is completed in the Santa Rosa Sandstone (231SNRS) local aquifer.

Output formats[Table of data](#)[Tab-separated data](#)[Graph of data](#)[Reselect period](#)

Date	Time	Water-level date-time accuracy	Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	Status	Method of measurement	Measuring agency	Source of measurement	Water-level approval status
1971-01-13		D	72019	233.06			1	Z			A

Explanation

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

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Appendix B

Photographic Log

Photographic Log

Photo Number: 1	
Photo Direction: Overhead/Bird's Eye	
Photo Description: Aerial view of the affected area. December 27, 2023 32.267843,-103.442535	

Photo Number: 2	
Photo Direction: South-Southwest	
Photo Description: View of the excavated area.	

Photographic Log



Photo Number: 3	
Photo Direction: Southwest	
Photo Description: View of the excavated area.	

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

Photographic Log


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

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

Photographic Log

Photo Number: 7	
Photo Direction: North-Northeast	
Photo Description: View of the excavated area.	

Photo Number: 8	
Photo Direction: North	
Photo Description: View of the excavated area.	

Photographic Log


Photo Number: 9	 <p>2024/01/26 11:19 +32.267583,-103.442578</p>
Photo Direction: South	
Photo Description: View of the excavated area.	

Photo Number: 10	 <p>2024/01/26 11:21 +32.267884,-103.442918</p>
Photo Direction: South	
Photo Description: View of the excavated area.	

Photographic Log



Photo Number: 11	
Photo Direction: West-Southwest	
Photo Description: View of the remediated area after backfill and regrading.	

Photo Number: 12	
Photo Direction: South	
Photo Description: View of the remediated area after backfill and regrading.	

Photographic Log




Photo Number: 13	 <p>Feb 5, 2024 at 2:44:03 PM +32.267983,-103.442368 59° NE Jal NM 88252 United States</p>
Photo Direction: East-Northeast	
Photo Description: View of the remediated area after backfill and regrading.	

Photo Number: 14	 <p>Feb 5, 2024 at 2:42:02 PM +32.267585,-103.442442 0° N Jal NM 88252 United States</p>
Photo Direction: North	
Photo Description: View of the remediated area after backfill and regrading.	


Photographic Log

Photo Number: 15	
Photo Direction: North-Northwest	
Photo Description: View of the remediated area after backfill and regrading.	

Photo Number: 16	
Photo Direction: South-Southeast	
Photo Description: View of the remediated area after backfill and regrading.	

Photographic Log

Photo Number: 17	 <p>Feb 5, 2024 at 2:41:10 PM +32.267665,-103.442606 289° W Jal NM 88252 United States</p>
Photo Direction: West-Northwest	
Photo Description: View of the remediated area after backfill and regrading.	

Photo Number: 18	 <p>Feb 5, 2024 at 2:40:11 PM +32.267669,-103.443034 65° NE Jal NM 88252 United States</p>
Photo Direction: East-Northeast	
Photo Description: View of the remediated area after backfill and regrading.	

Photographic Log

Photo Number: 19	 <p>A wide-angle photograph showing a flat, sandy landscape with sparse green vegetation. Several large black pipes run horizontally across the foreground. In the background, there are some distant structures and a clear blue sky. The photo has a timestamp and location overlay on the right side.</p>
Photo Direction: North	
Photo Description: View of the reclaimed area prior to seeding event.	

Photo Number: 20	 <p>A photograph showing a similar landscape to the previous one, but with a green tractor visible on the left side. The black pipes are still present, and the terrain is sandy with sparse vegetation. The photo has a timestamp and location overlay on the right side.</p>
Photo Direction: East-Northeast	
Photo Description: View of the reclaimed area prior to seeding event.	

Photographic Log



Photo Number: 21	
Photo Direction: North-Northwest	
Photo Description: View of the reclaimed area following seeding event.	

Photo Number: 22	
Photo Direction: Northeast	
Photo Description: View of the reclaimed area following seeding event.	

Photographic Log

Photo Number: 23	
Photo Direction: N/A	
Photo Description: Seed tag.	

Appendix C

Field Data



Sample Log

Date: 1-16-24

Project: Mad Dog 35 CN State Com 1H

Project Number: 19556

Latitude: 32.267701

Longitude: -103.442802

Sample ID	PID/Odor	Chloride Conc.	GPS
FL1@1'	2.0	196	
NW1	2.0	196	
FL2@1'	3.0	368	
FL3@6"	3.0	368	
FL4@6"	5.0	908	
FL4@1'	4.6	776	
FL4@1'	2.4	260	
FL5@6"	4.2	660	
FL5@1'	3.6	500	
FL6@1'	4.6	776	
FL6@1 1/2	3.0	368	
FL7@6"	6.6	2392	
FL7@1 1/2	3.6	500	
NW2	3.0	368	
EW1	2.0	196	
EW2	2.4	260	
WW1	3.2	412	
WW2	3.0	368	
FL8@6in	6.0	1312	
FL8@1	6.0	1312	
FL9@1	7.0	1984	
FL10@1	3.0	392	
FL11@1	3.6	560	
FL12@1	6.4	1664	
FL13@1	5.6	1204	
FL8@1 1/2	3.0	392	
FL9@1 1/2	3.0	392	
FL12@1 1/2	3.0	392	
FL13@1 1/2	3.0	392	
FL14@6in	4.2	160	
FL14@1 1/2	2.0	196	
FL15@1 1/2	2.0	196	
FL16@6in	3.4	484	
FL17@6in	7.0	1940	
FL17@1'	3.4	484	
FL18@6in	7.0	1940	

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

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

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

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas



Sample Log

Date: _____

Project: _____
Project Number: _____ Latitude: _____ Longitude: _____

Sample ID	PID/Odor	Chloride Conc.	GPS
FL 18 @ 1'	4.6	824	
FL 18 @ 1 1/2'	2.0	208	
FL 19 @ 6"	2.6	532	
FL 20 @ 6 in	4.2	696	
FL 20 @ 1'	2.6	312	
FL 21 @ 6"	7.0	1984	
FL 21 @ 1'	5.0	964	
FL 21 @ 1 1/2'	3.2	436	
FL 22 @ 6 in	6.0	1392	
FL 22 @ 1 1/2'	3.0	392	
FL 23 @ 6 in	5.4	1120	
FL 23 @ 1'	5.0	964	
FL 23 @ 1 1/2'	3.4	484	
FL 24 @ 6 in	4.8	892	
FL 24 @ 1 1/2'	3.2	436	
FL 25 @ 1'	3.2	436	
26 @ 6"	5.0	964	
26 @ 1 1/2'	3.6	532	
27 @ 1'	3.6	532	
28 @ 1 1/2'	3.8	584	
EW 3	3.0	392	
EW 4	3.6	532	
WW 4	3.2	436	
WW 5	3.6	532	
FL 29 @ 6 in	HS 3.0	1736	
FL 30 @ 6 in	HS 3.2	1916	
FL 31 @ 6 in	HS 3.4	2104	
FL 32 @ 6 in	6.0	1392	
FL 33 @ 6 in	HS 3.0	1726	
FL 34 @ 6 in	5.0	964	
FL 35 @ 6 in	2.0	208	
FL 36 @ 6 in	2.6	312	
FL 37 @ 6 in	2.2	240	
FL 38 @ 6 in	2.2	240	
FL 39 @ 6 in	3.0	392	

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

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

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

Stockpile = Stockpile #1

Sample Points, Center of Comp Areas



Sample Log

Date: _____

Project: _____

Project Number: _____ Latitude: _____ Longitude: _____

Sample ID	PID/Odor	Chloride Conc.	GPS
FL 40 @ 6 in	3.2	532	
FL 41 @ 6 in	4.0	640	
FL 42 @ 6 in	4.0	606	
FL 43 @ 6 in	3.8	584	
FL 44 @ 6 in	4.0	640	
FL 45 @ 6 in	3.6	532	
FL 46 @ 6 in	3.8	584	
FL 47 @ 6 in	3.8	584	
FL 48 @ 6 in	4.4	760	
FL 49 @ 6 in	3.4	484	
FL 50 @ 6 in	3.8	584	
FL 51 @ 6 in	3.8	584	
FL 52 @ 6 in	6.2	1796	
FL 53 @ 6 in	2.8	352	
FL 54 @ 6 in	4.6	824	
FL 55 @ 6 in	6.4	1604	
FL 56 @ 6 in	5.2	1040	
FL 57 @ 6 in	5.0	964	
FL 58 @ 6 in	6.0	1392	
FL 59 @ 6 in	HS 4.2	2984	
FL 60 @ 6 in	HS 3.0	1584	
FL 61 @ 6 in	HS 3.6	2304	
FL 62 @ 6 in	HS 4.0	2744	
FL 63 @ 6 in	HS 3.8	2512	
FL 64 @ 6 in	6.6	1724	
FL 65 @ 6 in	5.8	1296	
FL 66 @ 6 in	4.8	892	
FL 67 @ 6 in	HS 3.0	1736	
FL 68 @ 6 in	HS 2.8	1572	
FL 69 @ 6 in	3.0	392	
FL 70 @ 6 in	6.8	1848	
FL 71 @ 6 in	3.6	532	
FL 72 @ 6 in	4.0	640	
FL 73 @ 6 in	4.2	696	
FL 74 @ 6 in	3.2	436	
FL 75 @ 6 in	3.2	436	

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

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

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

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas



Sample Log

Date: _____

Project: _____

Project Number: _____ Latitude: _____ Longitude: _____

[illegible]

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

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

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

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas

Appendix D

Laboratory Analytical Reports



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

January 24, 2024

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: MAD DOG 35 CN STATE COM 1H

Enclosed are the results of analyses for samples received by the laboratory on 01/19/24 14:38.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/19/2024
 Reported: 01/24/2024
 Project Name: MAD DOG 35 CN STATE COM 1H
 Project Number: 19556
 Project Location: MEWBOURNE 32.267701,-103.442802

Sampling Date: 01/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Brandi Bautista

Sample ID: FL 1 @ 1' (H240240-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/22/2024	ND	2.20	110	2.00	0.0244	
Toluene*	<0.050	0.050	01/22/2024	ND	2.19	109	2.00	0.0682	
Ethylbenzene*	<0.050	0.050	01/22/2024	ND	2.18	109	2.00	0.184	
Total Xylenes*	<0.150	0.150	01/22/2024	ND	6.36	106	6.00	0.310	
Total BTX	<0.300	0.300	01/22/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/22/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/22/2024	ND	224	112	200	3.65	
DRO >C10-C28*	<10.0	10.0	01/22/2024	ND	210	105	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	01/22/2024	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 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 and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/19/2024
 Reported: 01/24/2024
 Project Name: MAD DOG 35 CN STATE COM 1H
 Project Number: 19556
 Project Location: MEWBOURNE 32.267701,-103.442802

Sampling Date: 01/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Brandi Bautista

Sample ID: FL 2 @ 1' (H240240-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/22/2024	ND	2.20	110	2.00	0.0244		
Toluene*	<0.050	0.050	01/22/2024	ND	2.19	109	2.00	0.0682		
Ethylbenzene*	<0.050	0.050	01/22/2024	ND	2.18	109	2.00	0.184		
Total Xylenes*	<0.150	0.150	01/22/2024	ND	6.36	106	6.00	0.310		
Total BTEX	<0.300	0.300	01/22/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	01/22/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/22/2024	ND	224	112	200	3.65	
DRO >C10-C28*	<10.0	10.0	01/22/2024	ND	210	105	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	01/22/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/19/2024
 Reported: 01/24/2024
 Project Name: MAD DOG 35 CN STATE COM 1H
 Project Number: 19556
 Project Location: MEWBOURNE 32.267701,-103.442802

Sampling Date: 01/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Brandi Bautista

Sample ID: FL 3 @ 6" (H240240-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/22/2024	ND	2.20	110	2.00	0.0244		
Toluene*	<0.050	0.050	01/22/2024	ND	2.19	109	2.00	0.0682		
Ethylbenzene*	<0.050	0.050	01/22/2024	ND	2.18	109	2.00	0.184		
Total Xylenes*	<0.150	0.150	01/22/2024	ND	6.36	106	6.00	0.310		
Total BTEX	<0.300	0.300	01/22/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	01/22/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/22/2024	ND	224	112	200	3.65	
DRO >C10-C28*	<10.0	10.0	01/22/2024	ND	210	105	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	01/22/2024	ND					

Surrogate: 1-Chlorooctane 122 % 48.2-134

Surrogate: 1-Chlorooctadecane 133 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/19/2024
 Reported: 01/24/2024
 Project Name: MAD DOG 35 CN STATE COM 1H
 Project Number: 19556
 Project Location: MEWBOURNE 32.267701,-103.442802

Sampling Date: 01/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Brandi Bautista

Sample ID: FL 4 @ 1.5' (H240240-04)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/22/2024	ND	2.20	110	2.00	0.0244		
Toluene*	<0.050	0.050	01/22/2024	ND	2.19	109	2.00	0.0682		
Ethylbenzene*	<0.050	0.050	01/22/2024	ND	2.18	109	2.00	0.184		
Total Xylenes*	<0.150	0.150	01/22/2024	ND	6.36	106	6.00	0.310		
Total BTEX	<0.300	0.300	01/22/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	01/22/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/22/2024	ND	224	112	200	3.65	
DRO >C10-C28*	<10.0	10.0	01/22/2024	ND	210	105	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	01/22/2024	ND					

Surrogate: 1-Chlorooctane 121 % 48.2-134

Surrogate: 1-Chlorooctadecane 137 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/19/2024
 Reported: 01/24/2024
 Project Name: MAD DOG 35 CN STATE COM 1H
 Project Number: 19556
 Project Location: MEWBOURNE 32.267701,-103.442802

Sampling Date: 01/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Brandi Bautista

Sample ID: FL 5 @ 1' (H240240-05)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/22/2024	ND	2.20	110	2.00	0.0244	
Toluene*	<0.050	0.050	01/22/2024	ND	2.19	109	2.00	0.0682	
Ethylbenzene*	<0.050	0.050	01/22/2024	ND	2.18	109	2.00	0.184	
Total Xylenes*	<0.150	0.150	01/22/2024	ND	6.36	106	6.00	0.310	
Total BTEX	<0.300	0.300	01/22/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	01/22/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/22/2024	ND	224	112	200	3.65	
DRO >C10-C28*	<10.0	10.0	01/22/2024	ND	210	105	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	01/22/2024	ND					

Surrogate: 1-Chlorooctane 122 % 48.2-134

Surrogate: 1-Chlorooctadecane 134 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/19/2024
 Reported: 01/24/2024
 Project Name: MAD DOG 35 CN STATE COM 1H
 Project Number: 19556
 Project Location: MEWBOURNE 32.267701,-103.442802

Sampling Date: 01/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Brandi Bautista

Sample ID: FL 6 @ 1.5' (H240240-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/22/2024	ND	2.20	110	2.00	0.0244		
Toluene*	<0.050	0.050	01/22/2024	ND	2.19	109	2.00	0.0682		
Ethylbenzene*	<0.050	0.050	01/22/2024	ND	2.18	109	2.00	0.184		
Total Xylenes*	<0.150	0.150	01/22/2024	ND	6.36	106	6.00	0.310		
Total BTEX	<0.300	0.300	01/22/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	01/22/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/22/2024	ND	224	112	200	3.65	
DRO >C10-C28*	<10.0	10.0	01/22/2024	ND	210	105	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	01/22/2024	ND					

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 128 % 49.1-148

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

Analytical Results For:

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

Received: 01/19/2024
 Reported: 01/24/2024
 Project Name: MAD DOG 35 CN STATE COM 1H
 Project Number: 19556
 Project Location: MEWBOURNE 32.267701,-103.442802

Sampling Date: 01/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Brandi Bautista

Sample ID: FL 7 @ 1.5' (H240240-07)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/22/2024	ND	2.20	110	2.00	0.0244		
Toluene*	<0.050	0.050	01/22/2024	ND	2.19	109	2.00	0.0682		
Ethylbenzene*	<0.050	0.050	01/22/2024	ND	2.18	109	2.00	0.184		
Total Xylenes*	<0.150	0.150	01/22/2024	ND	6.36	106	6.00	0.310		
Total BTEX	<0.300	0.300	01/22/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	01/22/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/23/2024	ND	224	112	200	3.65	
DRO >C10-C28*	<10.0	10.0	01/23/2024	ND	210	105	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	01/23/2024	ND					

Surrogate: 1-Chlorooctane 127 % 48.2-134

Surrogate: 1-Chlorooctadecane 137 % 49.1-148

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

Analytical Results For:

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

Received: 01/19/2024
 Reported: 01/24/2024
 Project Name: MAD DOG 35 CN STATE COM 1H
 Project Number: 19556
 Project Location: MEWBOURNE 32.267701,-103.442802

Sampling Date: 01/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Brandi Bautista

Sample ID: FL 8 @ 1.5' (H240240-08)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/22/2024	ND	2.20	110	2.00	0.0244		
Toluene*	<0.050	0.050	01/22/2024	ND	2.19	109	2.00	0.0682		
Ethylbenzene*	<0.050	0.050	01/22/2024	ND	2.18	109	2.00	0.184		
Total Xylenes*	<0.150	0.150	01/22/2024	ND	6.36	106	6.00	0.310		
Total BTEX	<0.300	0.300	01/22/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	01/22/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/22/2024	ND	224	112	200	3.65	
DRO >C10-C28*	<10.0	10.0	01/22/2024	ND	210	105	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	01/22/2024	ND					

Surrogate: 1-Chlorooctane 95.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Analytical Results For:

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

Received: 01/19/2024
 Reported: 01/24/2024
 Project Name: MAD DOG 35 CN STATE COM 1H
 Project Number: 19556
 Project Location: MEWBOURNE 32.267701,-103.442802

Sampling Date: 01/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Brandi Bautista

Sample ID: FL 9 @ 1.5' (H240240-09)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/22/2024	ND	2.20	110	2.00	0.0244		
Toluene*	<0.050	0.050	01/22/2024	ND	2.19	109	2.00	0.0682		
Ethylbenzene*	<0.050	0.050	01/22/2024	ND	2.18	109	2.00	0.184		
Total Xylenes*	<0.150	0.150	01/22/2024	ND	6.36	106	6.00	0.310		
Total BTEX	<0.300	0.300	01/22/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	01/22/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/22/2024	ND	224	112	200	3.65	
DRO >C10-C28*	<10.0	10.0	01/22/2024	ND	210	105	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	01/22/2024	ND					

Surrogate: 1-Chlorooctane 116 % 48.2-134

Surrogate: 1-Chlorooctadecane 127 % 49.1-148

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Analytical Results For:

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

Received: 01/19/2024
 Reported: 01/24/2024
 Project Name: MAD DOG 35 CN STATE COM 1H
 Project Number: 19556
 Project Location: MEWBOURNE 32.267701,-103.442802

Sampling Date: 01/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Brandi Bautista

Sample ID: FL 10 @ 1' (H240240-10)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/22/2024	ND	2.20	110	2.00	0.0244		
Toluene*	<0.050	0.050	01/22/2024	ND	2.19	109	2.00	0.0682		
Ethylbenzene*	<0.050	0.050	01/22/2024	ND	2.18	109	2.00	0.184		
Total Xylenes*	<0.150	0.150	01/22/2024	ND	6.36	106	6.00	0.310		
Total BTEX	<0.300	0.300	01/22/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	01/22/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/23/2024	ND	224	112	200	3.65	
DRO >C10-C28*	<10.0	10.0	01/23/2024	ND	210	105	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	01/23/2024	ND					

Surrogate: 1-Chlorooctane 92.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Analytical Results For:

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

Received: 01/19/2024
 Reported: 01/24/2024
 Project Name: MAD DOG 35 CN STATE COM 1H
 Project Number: 19556
 Project Location: MEWBOURNE 32.267701,-103.442802

Sampling Date: 01/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Brandi Bautista

Sample ID: FL 11 @ 1' (H240240-11)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/22/2024	ND	2.20	110	2.00	0.0244		
Toluene*	<0.050	0.050	01/22/2024	ND	2.19	109	2.00	0.0682		
Ethylbenzene*	<0.050	0.050	01/22/2024	ND	2.18	109	2.00	0.184		
Total Xylenes*	<0.150	0.150	01/22/2024	ND	6.36	106	6.00	0.310		
Total BTEX	<0.300	0.300	01/22/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	01/22/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/22/2024	ND	224	112	200	3.65	
DRO >C10-C28*	<10.0	10.0	01/22/2024	ND	210	105	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	01/22/2024	ND					

Surrogate: 1-Chlorooctane 98.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/19/2024
 Reported: 01/24/2024
 Project Name: MAD DOG 35 CN STATE COM 1H
 Project Number: 19556
 Project Location: MEWBOURNE 32.267701,-103.442802

Sampling Date: 01/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Brandi Bautista

Sample ID: FL 12 @ 1.5' (H240240-12)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/22/2024	ND	2.20	110	2.00	0.0244		
Toluene*	<0.050	0.050	01/22/2024	ND	2.19	109	2.00	0.0682		
Ethylbenzene*	<0.050	0.050	01/22/2024	ND	2.18	109	2.00	0.184		
Total Xylenes*	<0.150	0.150	01/22/2024	ND	6.36	106	6.00	0.310		
Total BTEx	<0.300	0.300	01/22/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	01/22/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/22/2024	ND	224	112	200	3.65	
DRO >C10-C28*	<10.0	10.0	01/22/2024	ND	210	105	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	01/22/2024	ND					

Surrogate: 1-Chlorooctane 95.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Analytical Results For:

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

Received: 01/19/2024
 Reported: 01/24/2024
 Project Name: MAD DOG 35 CN STATE COM 1H
 Project Number: 19556
 Project Location: MEWBOURNE 32.267701,-103.442802

Sampling Date: 01/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Brandi Bautista

Sample ID: FL 13 @ 1.5' (H240240-13)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/22/2024	ND	2.20	110	2.00	0.0244		
Toluene*	<0.050	0.050	01/22/2024	ND	2.19	109	2.00	0.0682		
Ethylbenzene*	<0.050	0.050	01/22/2024	ND	2.18	109	2.00	0.184		
Total Xylenes*	<0.150	0.150	01/22/2024	ND	6.36	106	6.00	0.310		
Total BTEX	<0.300	0.300	01/22/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	01/22/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/22/2024	ND	224	112	200	3.65	
DRO >C10-C28*	<10.0	10.0	01/22/2024	ND	210	105	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	01/22/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/19/2024
 Reported: 01/24/2024
 Project Name: MAD DOG 35 CN STATE COM 1H
 Project Number: 19556
 Project Location: MEWBOURNE 32.267701,-103.442802

Sampling Date: 01/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Brandi Bautista

Sample ID: NW 1 (H240240-14)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/22/2024	ND	2.20	110	2.00	0.0244	
Toluene*	<0.050	0.050	01/22/2024	ND	2.19	109	2.00	0.0682	
Ethylbenzene*	<0.050	0.050	01/22/2024	ND	2.18	109	2.00	0.184	
Total Xylenes*	<0.150	0.150	01/22/2024	ND	6.36	106	6.00	0.310	
Total BTEX	<0.300	0.300	01/22/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/22/2024	ND	448	112	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	01/22/2024	ND	224	112	200	3.65	
DRO >C10-C28*	<10.0	10.0	01/22/2024	ND	210	105	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	01/22/2024	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/19/2024
 Reported: 01/24/2024
 Project Name: MAD DOG 35 CN STATE COM 1H
 Project Number: 19556
 Project Location: MEWBOURNE 32.267701,-103.442802

Sampling Date: 01/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Brandi Bautista

Sample ID: NW 2 (H240240-15)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/22/2024	ND	2.20	110	2.00	0.0244	
Toluene*	<0.050	0.050	01/22/2024	ND	2.19	109	2.00	0.0682	
Ethylbenzene*	<0.050	0.050	01/22/2024	ND	2.18	109	2.00	0.184	
Total Xylenes*	<0.150	0.150	01/22/2024	ND	6.36	106	6.00	0.310	
Total BTEX	<0.300	0.300	01/22/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	01/22/2024	ND	448	112	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	01/22/2024	ND	224	112	200	3.65	
DRO >C10-C28*	<10.0	10.0	01/22/2024	ND	210	105	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	01/22/2024	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

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Analytical Results For:

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

Received: 01/19/2024
 Reported: 01/24/2024
 Project Name: MAD DOG 35 CN STATE COM 1H
 Project Number: 19556
 Project Location: MEWBOURNE 32.267701,-103.442802

Sampling Date: 01/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Brandi Bautista

Sample ID: EW 1 (H240240-16)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/22/2024	ND	2.20	110	2.00	0.0244	
Toluene*	<0.050	0.050	01/22/2024	ND	2.19	109	2.00	0.0682	
Ethylbenzene*	<0.050	0.050	01/22/2024	ND	2.18	109	2.00	0.184	
Total Xylenes*	<0.150	0.150	01/22/2024	ND	6.36	106	6.00	0.310	
Total BTX	<0.300	0.300	01/22/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	01/22/2024	ND	448	112	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	01/22/2024	ND	224	112	200	3.65	
DRO >C10-C28*	<10.0	10.0	01/22/2024	ND	210	105	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	01/22/2024	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/19/2024
 Reported: 01/24/2024
 Project Name: MAD DOG 35 CN STATE COM 1H
 Project Number: 19556
 Project Location: MEWBOURNE 32.267701,-103.442802

Sampling Date: 01/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Brandi Bautista

Sample ID: EW 2 (H240240-17)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/22/2024	ND	2.20	110	2.00	0.0244	
Toluene*	<0.050	0.050	01/22/2024	ND	2.19	109	2.00	0.0682	
Ethylbenzene*	<0.050	0.050	01/22/2024	ND	2.18	109	2.00	0.184	
Total Xylenes*	<0.150	0.150	01/22/2024	ND	6.36	106	6.00	0.310	
Total BTEX	<0.300	0.300	01/22/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/22/2024	ND	448	112	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	01/22/2024	ND	224	112	200	3.65	
DRO >C10-C28*	<10.0	10.0	01/22/2024	ND	210	105	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	01/22/2024	ND					

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 49.1-148

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Analytical Results For:

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

Received: 01/19/2024
 Reported: 01/24/2024
 Project Name: MAD DOG 35 CN STATE COM 1H
 Project Number: 19556
 Project Location: MEWBOURNE 32.267701,-103.442802

Sampling Date: 01/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Brandi Bautista

Sample ID: WW 1 (H240240-18)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/22/2024	ND	2.20	110	2.00	0.0244		
Toluene*	<0.050	0.050	01/22/2024	ND	2.19	109	2.00	0.0682		
Ethylbenzene*	<0.050	0.050	01/22/2024	ND	2.18	109	2.00	0.184		
Total Xylenes*	<0.150	0.150	01/22/2024	ND	6.36	106	6.00	0.310		
Total BTEx	<0.300	0.300	01/22/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	01/22/2024	ND	448	112	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	01/22/2024	ND	224	112	200	3.65	
DRO >C10-C28*	<10.0	10.0	01/22/2024	ND	210	105	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	01/22/2024	ND					

Surrogate: 1-Chlorooctane 118 % 48.2-134

Surrogate: 1-Chlorooctadecane 132 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/19/2024
 Reported: 01/24/2024
 Project Name: MAD DOG 35 CN STATE COM 1H
 Project Number: 19556
 Project Location: MEWBOURNE 32.267701,-103.442802

Sampling Date: 01/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Brandi Bautista

Sample ID: WW 2 (H240240-19)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/22/2024	ND	2.20	110	2.00	0.0244		
Toluene*	<0.050	0.050	01/22/2024	ND	2.19	109	2.00	0.0682		
Ethylbenzene*	<0.050	0.050	01/22/2024	ND	2.18	109	2.00	0.184		
Total Xylenes*	<0.150	0.150	01/22/2024	ND	6.36	106	6.00	0.310		
Total BTEX	<0.300	0.300	01/22/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	01/22/2024	ND	448	112	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	01/22/2024	ND	224	112	200	3.65	
DRO >C10-C28*	<10.0	10.0	01/22/2024	ND	210	105	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	01/22/2024	ND					

Surrogate: 1-Chlorooctane 121 % 48.2-134

Surrogate: 1-Chlorooctadecane 133 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

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

Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 22 of 23

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST													
Project Manager: Lance Crenshaw				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>													
Address: 2617 West Marland				Company: Mewbourne																	
City: Hobbs		State: NM		Zip: 88240		Attn: Connor Walker															
Phone #: (575) 264-9884		Fax #:		Address:																	
Project #: 19556		Project Owner: Mewbourne		City:																	
Project Name: Mad Dog 35 CN State Com 1H				State: NM Zip:																	
Project Location: 32.267701, -103.442802				Phone #:																	
Sampler Name: Dominic Casarez				Fax #:																	

FOR LAB USE ONLY		G/RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.		SAMPLING		DATE	TIME
Lab I.D.	Sample I.D.			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER			
H240240															
1	FL1 @ 1'	C	1			X				X			1/18/24		X X X
2	FL2 @ 1'	C	1			X				X			1/18/24		X X X
3	FL3 @ 6"	C	1			X				X			1/18/24		X X X
4	FL4 @ 1.5'	C	1			X				X			1/18/24		X X X
5	FL5 @ 1'	C	1			X				X			1/18/24		X X X
6	FL6 @ 1.5'	C	1			X				X			1/18/24		X X X
7	FL7 @ 1.5'	C	1			X				X			1/18/24		X X X
8	FL8 @ 1.5'	C	1			X				X			1/18/24		X X X
9	FL9 @ 1.5'	C	1			X				X			1/18/24		X X X
10	FL10 @ 1'	C	1			X				X			1/18/24		X X X

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Relinquished By: Date: 1-19-24 Time: 14:38	Received By: Date: Time:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No REMARKS: Please email results and copy of CoC to pm@etechenv.com.
Relinquished By: Date: Time:	Received By: Date: Time:	

Delivered By: (Circle One) Sampler - UPS - Bus - Other:	-8.8 -8.8	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials) BB
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FORM-006
Revision 1.0

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																						
Project Manager: Lance Crenshaw				P.O. #:				<div style="display: flex; justify-content: space-between;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																						
Address: 2617 West Marland				Company: Mewbourne																										
City: Hobbs State: NM Zip: 88240				Attn: Connor Walker																										
Phone #: (575) 264-9884 Fax #:				Address:																										
Project #: 19556 Project Owner: Mewbourne				City:																										
Project Name: Mad Dog 35 CN State Com 1H				State: NM Zip:																										
Project Location: 32.267701, -103.442802				Phone #:																										
Sampler Name: Dominic Casarez				Fax #:																										
FOR LAB USE ONLY	Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.		SAMPLING																		
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:													DATE	TIME			
	11	FL11 @ 1'	C	1			X				X		1/18/24			X	X	X												
	12	FL12 @ 1.5'	C	1			X				X		1/18/24			X	X	X												
	13	FL13 @ 1.5'	C	1			X				X		1/18/24			X	X	X												
	14	NW1	C	1			X				X		1/18/24			X	X	X												
	15	NW2	C	1			X				X		1/18/24			X	X	X												
	16	EW1	C	1			X				X		1/18/24			X	X	X												
	17	EW2	C	1			X				X		1/18/24			X	X	X												
	18	WW1	C	1			X				X		1/18/24			X	X	X												
	19	WW2	C	1			X				X		1/18/24			X	X	X												
			C	1			X				X		1/18/24			X	X	X												
<p>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</p>																														
Relinquished By:			Date: 1-19-24		Received By:			Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No			Add'l Phone #:			REMARKS: Please email results and copy of CoC to pm@etechenv.com.																
Relinquished By:			Time: 14:38		Received By: [Signature]			Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No			Add'l Fax #:																			
Relinquished By:			Date:		Received By:			REMARKS:																						
Relinquished By:			Time:		Received By:																									
Delivered By: (Circle One)					Sample Condition					CHECKED BY:																				
Cooler - <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Intact - <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No					(Initials) BB																				
Sampler - UPS - Bus - Other:																														



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

January 30, 2024

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: MAD DOG 35 CN STATE COM 1H

Enclosed are the results of analyses for samples received by the laboratory on 01/25/24 14:52.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/25/2024
 Reported: 01/30/2024
 Project Name: MAD DOG 35 CN STATE COM 1H
 Project Number: 19556
 Project Location: MEWBOURNE 32.267701,-103.442802

Sampling Date: 01/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 14 @ 1.5' (H240348-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/25/2024	ND	2.22	111	2.00	2.26	
Toluene*	<0.050	0.050	01/25/2024	ND	2.25	112	2.00	2.44	
Ethylbenzene*	<0.050	0.050	01/25/2024	ND	2.25	112	2.00	2.53	
Total Xylenes*	<0.150	0.150	01/25/2024	ND	6.82	114	6.00	2.40	
Total BTX	<0.300	0.300	01/25/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/26/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/25/2024	ND	187	93.7	200	3.41	
DRO >C10-C28*	<10.0	10.0	01/25/2024	ND	193	96.7	200	4.95	
EXT DRO >C28-C36	<10.0	10.0	01/25/2024	ND					

Surrogate: 1-Chlorooctane 82.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/25/2024
 Reported: 01/30/2024
 Project Name: MAD DOG 35 CN STATE COM 1H
 Project Number: 19556
 Project Location: MEWBOURNE 32.267701,-103.442802

Sampling Date: 01/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 15 @ 1.5' (H240348-02)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/25/2024	ND	2.22	111	2.00	2.26		
Toluene*	<0.050	0.050	01/25/2024	ND	2.25	112	2.00	2.44		
Ethylbenzene*	<0.050	0.050	01/25/2024	ND	2.25	112	2.00	2.53		
Total Xylenes*	<0.150	0.150	01/25/2024	ND	6.82	114	6.00	2.40		
Total BTEX	<0.300	0.300	01/25/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	01/26/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/26/2024	ND	187	93.7	200	3.41	
DRO >C10-C28*	<10.0	10.0	01/26/2024	ND	193	96.7	200	4.95	
EXT DRO >C28-C36	<10.0	10.0	01/26/2024	ND					

Surrogate: 1-Chlorooctane 67.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 66.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/25/2024
 Reported: 01/30/2024
 Project Name: MAD DOG 35 CN STATE COM 1H
 Project Number: 19556
 Project Location: MEWBOURNE 32.267701,-103.442802

Sampling Date: 01/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 16 @ 6" (H240348-03)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/25/2024	ND	2.22	111	2.00	2.26	
Toluene*	<0.050	0.050	01/25/2024	ND	2.25	112	2.00	2.44	
Ethylbenzene*	<0.050	0.050	01/25/2024	ND	2.25	112	2.00	2.53	
Total Xylenes*	<0.150	0.150	01/25/2024	ND	6.82	114	6.00	2.40	
Total BTEX	<0.300	0.300	01/25/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/26/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/26/2024	ND	187	93.7	200	3.41	
DRO >C10-C28*	<10.0	10.0	01/26/2024	ND	193	96.7	200	4.95	
EXT DRO >C28-C36	<10.0	10.0	01/26/2024	ND					

Surrogate: 1-Chlorooctane 90.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/25/2024
 Reported: 01/30/2024
 Project Name: MAD DOG 35 CN STATE COM 1H
 Project Number: 19556
 Project Location: MEWBOURNE 32.267701,-103.442802

Sampling Date: 01/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 17 @ 1' (H240348-04)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/26/2024	ND	2.16	108	2.00	1.69		
Toluene*	<0.050	0.050	01/26/2024	ND	2.15	107	2.00	1.47		
Ethylbenzene*	<0.050	0.050	01/26/2024	ND	2.13	107	2.00	1.46		
Total Xylenes*	<0.150	0.150	01/26/2024	ND	6.24	104	6.00	1.62		
Total BTEX	<0.300	0.300	01/26/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	01/26/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/26/2024	ND	199	99.5	200	0.230	
DRO >C10-C28*	<10.0	10.0	01/26/2024	ND	185	92.5	200	1.49	
EXT DRO >C28-C36	<10.0	10.0	01/26/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/25/2024
 Reported: 01/30/2024
 Project Name: MAD DOG 35 CN STATE COM 1H
 Project Number: 19556
 Project Location: MEWBOURNE 32.267701,-103.442802

Sampling Date: 01/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 18 @ 1.5' (H240348-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/26/2024	ND	2.16	108	2.00	1.69		
Toluene*	<0.050	0.050	01/26/2024	ND	2.15	107	2.00	1.47		
Ethylbenzene*	<0.050	0.050	01/26/2024	ND	2.13	107	2.00	1.46		
Total Xylenes*	<0.150	0.150	01/26/2024	ND	6.24	104	6.00	1.62		
Total BTEX	<0.300	0.300	01/26/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/26/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/26/2024	ND	199	99.5	200	0.230	
DRO >C10-C28*	<10.0	10.0	01/26/2024	ND	185	92.5	200	1.49	
EXT DRO >C28-C36	<10.0	10.0	01/26/2024	ND					

Surrogate: 1-Chlorooctane 133 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/25/2024
 Reported: 01/30/2024
 Project Name: MAD DOG 35 CN STATE COM 1H
 Project Number: 19556
 Project Location: MEWBOURNE 32.267701,-103.442802

Sampling Date: 01/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 19 @ 6" (H240348-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/26/2024	ND	2.16	108	2.00	1.69		
Toluene*	<0.050	0.050	01/26/2024	ND	2.15	107	2.00	1.47		
Ethylbenzene*	<0.050	0.050	01/26/2024	ND	2.13	107	2.00	1.46		
Total Xylenes*	<0.150	0.150	01/26/2024	ND	6.24	104	6.00	1.62		
Total BTEX	<0.300	0.300	01/26/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	01/26/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/26/2024	ND	199	99.5	200	0.230	
DRO >C10-C28*	<10.0	10.0	01/26/2024	ND	185	92.5	200	1.49	
EXT DRO >C28-C36	<10.0	10.0	01/26/2024	ND					

Surrogate: 1-Chlorooctane 120 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/25/2024
 Reported: 01/30/2024
 Project Name: MAD DOG 35 CN STATE COM 1H
 Project Number: 19556
 Project Location: MEWBOURNE 32.267701,-103.442802

Sampling Date: 01/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 20 @ 1' (H240348-07)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/26/2024	ND	2.16	108	2.00	1.69		
Toluene*	<0.050	0.050	01/26/2024	ND	2.15	107	2.00	1.47		
Ethylbenzene*	<0.050	0.050	01/26/2024	ND	2.13	107	2.00	1.46		
Total Xylenes*	<0.150	0.150	01/26/2024	ND	6.24	104	6.00	1.62		
Total BTEX	<0.300	0.300	01/26/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	01/26/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/26/2024	ND	199	99.5	200	0.230	
DRO >C10-C28*	<10.0	10.0	01/26/2024	ND	185	92.5	200	1.49	
EXT DRO >C28-C36	<10.0	10.0	01/26/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.7 % 49.1-148

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Analytical Results For:

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

Received: 01/25/2024
 Reported: 01/30/2024
 Project Name: MAD DOG 35 CN STATE COM 1H
 Project Number: 19556
 Project Location: MEWBOURNE 32.267701,-103.442802

Sampling Date: 01/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 21 @ 1.5' (H240348-08)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/26/2024	ND	2.16	108	2.00	1.69		
Toluene*	<0.050	0.050	01/26/2024	ND	2.15	107	2.00	1.47		
Ethylbenzene*	<0.050	0.050	01/26/2024	ND	2.13	107	2.00	1.46		
Total Xylenes*	<0.150	0.150	01/26/2024	ND	6.24	104	6.00	1.62		
Total BTEX	<0.300	0.300	01/26/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	01/26/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/26/2024	ND	199	99.5	200	0.230	
DRO >C10-C28*	<10.0	10.0	01/26/2024	ND	185	92.5	200	1.49	
EXT DRO >C28-C36	<10.0	10.0	01/26/2024	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Analytical Results For:

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

Received: 01/25/2024
 Reported: 01/30/2024
 Project Name: MAD DOG 35 CN STATE COM 1H
 Project Number: 19556
 Project Location: MEWBOURNE 32.267701,-103.442802

Sampling Date: 01/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 22 @ 1.5' (H240348-09)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/26/2024	ND	2.16	108	2.00	1.69		
Toluene*	<0.050	0.050	01/26/2024	ND	2.15	107	2.00	1.47		
Ethylbenzene*	<0.050	0.050	01/26/2024	ND	2.13	107	2.00	1.46		
Total Xylenes*	<0.150	0.150	01/26/2024	ND	6.24	104	6.00	1.62		
Total BTEX	<0.300	0.300	01/26/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	01/26/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/26/2024	ND	199	99.5	200	0.230	
DRO >C10-C28*	<10.0	10.0	01/26/2024	ND	185	92.5	200	1.49	
EXT DRO >C28-C36	<10.0	10.0	01/26/2024	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.3 % 49.1-148

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Analytical Results For:

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

Received: 01/25/2024
 Reported: 01/30/2024
 Project Name: MAD DOG 35 CN STATE COM 1H
 Project Number: 19556
 Project Location: MEWBOURNE 32.267701,-103.442802

Sampling Date: 01/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 23 @ 1.5' (H240348-10)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/26/2024	ND	2.16	108	2.00	1.69		
Toluene*	<0.050	0.050	01/26/2024	ND	2.15	107	2.00	1.47		
Ethylbenzene*	<0.050	0.050	01/26/2024	ND	2.13	107	2.00	1.46		
Total Xylenes*	<0.150	0.150	01/26/2024	ND	6.24	104	6.00	1.62		
Total BTEX	<0.300	0.300	01/26/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	01/26/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/26/2024	ND	199	99.5	200	0.230	
DRO >C10-C28*	<10.0	10.0	01/26/2024	ND	185	92.5	200	1.49	
EXT DRO >C28-C36	<10.0	10.0	01/26/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Analytical Results For:

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

Received: 01/25/2024
 Reported: 01/30/2024
 Project Name: MAD DOG 35 CN STATE COM 1H
 Project Number: 19556
 Project Location: MEWBOURNE 32.267701,-103.442802

Sampling Date: 01/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 24 @ 1.5' (H240348-11)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/26/2024	ND	2.16	108	2.00	1.69		
Toluene*	<0.050	0.050	01/26/2024	ND	2.15	107	2.00	1.47		
Ethylbenzene*	<0.050	0.050	01/26/2024	ND	2.13	107	2.00	1.46		
Total Xylenes*	<0.150	0.150	01/26/2024	ND	6.24	104	6.00	1.62		
Total BTEX	<0.300	0.300	01/26/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	01/26/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/26/2024	ND	199	99.5	200	0.230	
DRO >C10-C28*	<10.0	10.0	01/26/2024	ND	185	92.5	200	1.49	
EXT DRO >C28-C36	<10.0	10.0	01/26/2024	ND					

Surrogate: 1-Chlorooctane 128 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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Analytical Results For:

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

Received: 01/25/2024
 Reported: 01/30/2024
 Project Name: MAD DOG 35 CN STATE COM 1H
 Project Number: 19556
 Project Location: MEWBOURNE 32.267701,-103.442802

Sampling Date: 01/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 25 @ 1' (H240348-12)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/26/2024	ND	2.16	108	2.00	1.69		
Toluene*	<0.050	0.050	01/26/2024	ND	2.15	107	2.00	1.47		
Ethylbenzene*	<0.050	0.050	01/26/2024	ND	2.13	107	2.00	1.46		
Total Xylenes*	<0.150	0.150	01/26/2024	ND	6.24	104	6.00	1.62		
Total BTEX	<0.300	0.300	01/26/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	01/26/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/26/2024	ND	199	99.5	200	0.230	
DRO >C10-C28*	<10.0	10.0	01/26/2024	ND	185	92.5	200	1.49	
EXT DRO >C28-C36	<10.0	10.0	01/26/2024	ND					

Surrogate: 1-Chlorooctane 82.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.2 % 49.1-148

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Analytical Results For:

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

Received: 01/25/2024
 Reported: 01/30/2024
 Project Name: MAD DOG 35 CN STATE COM 1H
 Project Number: 19556
 Project Location: MEWBOURNE 32.267701,-103.442802

Sampling Date: 01/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 26 @ 1.5' (H240348-13)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/26/2024	ND	2.16	108	2.00	1.69		
Toluene*	<0.050	0.050	01/26/2024	ND	2.15	107	2.00	1.47		
Ethylbenzene*	<0.050	0.050	01/26/2024	ND	2.13	107	2.00	1.46		
Total Xylenes*	<0.150	0.150	01/26/2024	ND	6.24	104	6.00	1.62		
Total BTEX	<0.300	0.300	01/26/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	01/26/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/26/2024	ND	199	99.5	200	0.230	
DRO >C10-C28*	<10.0	10.0	01/26/2024	ND	185	92.5	200	1.49	
EXT DRO >C28-C36	<10.0	10.0	01/26/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.7 % 49.1-148

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Analytical Results For:

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

Received: 01/25/2024
 Reported: 01/30/2024
 Project Name: MAD DOG 35 CN STATE COM 1H
 Project Number: 19556
 Project Location: MEWBOURNE 32.267701,-103.442802

Sampling Date: 01/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 27 @ 1' (H240348-14)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/26/2024	ND	2.16	108	2.00	1.69		
Toluene*	<0.050	0.050	01/26/2024	ND	2.15	107	2.00	1.47		
Ethylbenzene*	<0.050	0.050	01/26/2024	ND	2.13	107	2.00	1.46		
Total Xylenes*	<0.150	0.150	01/26/2024	ND	6.24	104	6.00	1.62		
Total BTEX	<0.300	0.300	01/26/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	01/26/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/26/2024	ND	199	99.5	200	0.230	
DRO >C10-C28*	<10.0	10.0	01/26/2024	ND	185	92.5	200	1.49	
EXT DRO >C28-C36	<10.0	10.0	01/26/2024	ND					

Surrogate: 1-Chlorooctane 98.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/25/2024
 Reported: 01/30/2024
 Project Name: MAD DOG 35 CN STATE COM 1H
 Project Number: 19556
 Project Location: MEWBOURNE 32.267701,-103.442802

Sampling Date: 01/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 28 @ 1.5' (H240348-15)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/26/2024	ND	2.16	108	2.00	1.69		
Toluene*	<0.050	0.050	01/26/2024	ND	2.15	107	2.00	1.47		
Ethylbenzene*	<0.050	0.050	01/26/2024	ND	2.13	107	2.00	1.46		
Total Xylenes*	<0.150	0.150	01/26/2024	ND	6.24	104	6.00	1.62		
Total BTEX	<0.300	0.300	01/26/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	01/26/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/26/2024	ND	199	99.5	200	0.230	
DRO >C10-C28*	<10.0	10.0	01/26/2024	ND	185	92.5	200	1.49	
EXT DRO >C28-C36	<10.0	10.0	01/26/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.8 % 49.1-148

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Analytical Results For:

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

Received: 01/25/2024
 Reported: 01/30/2024
 Project Name: MAD DOG 35 CN STATE COM 1H
 Project Number: 19556
 Project Location: MEWBOURNE 32.267701,-103.442802

Sampling Date: 01/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 29 @ 6" (H240348-16)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/26/2024	ND	2.16	108	2.00	1.69		
Toluene*	<0.050	0.050	01/26/2024	ND	2.15	107	2.00	1.47		
Ethylbenzene*	<0.050	0.050	01/26/2024	ND	2.13	107	2.00	1.46		
Total Xylenes*	<0.150	0.150	01/26/2024	ND	6.24	104	6.00	1.62		
Total BTEX	<0.300	0.300	01/26/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1570	16.0	01/26/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/26/2024	ND	199	99.5	200	0.230	
DRO >C10-C28*	<10.0	10.0	01/26/2024	ND	185	92.5	200	1.49	
EXT DRO >C28-C36	<10.0	10.0	01/26/2024	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Analytical Results For:

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

Received: 01/25/2024
 Reported: 01/30/2024
 Project Name: MAD DOG 35 CN STATE COM 1H
 Project Number: 19556
 Project Location: MEWBOURNE 32.267701,-103.442802

Sampling Date: 01/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 30 @ 6" (H240348-17)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/26/2024	ND	2.16	108	2.00	1.69		
Toluene*	<0.050	0.050	01/26/2024	ND	2.15	107	2.00	1.47		
Ethylbenzene*	<0.050	0.050	01/26/2024	ND	2.13	107	2.00	1.46		
Total Xylenes*	<0.150	0.150	01/26/2024	ND	6.24	104	6.00	1.62		
Total BTEX	<0.300	0.300	01/26/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1720	16.0	01/26/2024	ND	464	116	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	01/26/2024	ND	199	99.5	200	0.230	
DRO >C10-C28*	<10.0	10.0	01/26/2024	ND	185	92.5	200	1.49	
EXT DRO >C28-C36	<10.0	10.0	01/26/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/25/2024
 Reported: 01/30/2024
 Project Name: MAD DOG 35 CN STATE COM 1H
 Project Number: 19556
 Project Location: MEWBOURNE 32.267701,-103.442802

Sampling Date: 01/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 31 @ 6" (H240348-18)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/26/2024	ND	2.16	108	2.00	1.69		
Toluene*	<0.050	0.050	01/26/2024	ND	2.15	107	2.00	1.47		
Ethylbenzene*	<0.050	0.050	01/26/2024	ND	2.13	107	2.00	1.46		
Total Xylenes*	<0.150	0.150	01/26/2024	ND	6.24	104	6.00	1.62		
Total BTEX	<0.300	0.300	01/26/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3400	16.0	01/26/2024	ND	464	116	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	01/26/2024	ND	199	99.5	200	0.230	
DRO >C10-C28*	12.4	10.0	01/26/2024	ND	185	92.5	200	1.49	
EXT DRO >C28-C36	<10.0	10.0	01/26/2024	ND					

Surrogate: 1-Chlorooctane 94.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.0 % 49.1-148

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Analytical Results For:

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

Received: 01/25/2024
 Reported: 01/30/2024
 Project Name: MAD DOG 35 CN STATE COM 1H
 Project Number: 19556
 Project Location: MEWBOURNE 32.267701,-103.442802

Sampling Date: 01/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: EW 3 (H240348-19)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/26/2024	ND	2.16	108	2.00	1.69	
Toluene*	<0.050	0.050	01/26/2024	ND	2.15	107	2.00	1.47	
Ethylbenzene*	<0.050	0.050	01/26/2024	ND	2.13	107	2.00	1.46	
Total Xylenes*	<0.150	0.150	01/26/2024	ND	6.24	104	6.00	1.62	
Total BTEX	<0.300	0.300	01/26/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	01/26/2024	ND	464	116	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	01/26/2024	ND	199	99.5	200	0.230	
DRO >C10-C28*	<10.0	10.0	01/26/2024	ND	185	92.5	200	1.49	
EXT DRO >C28-C36	<10.0	10.0	01/26/2024	ND					

Surrogate: 1-Chlorooctane 122 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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Analytical Results For:

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

Received: 01/25/2024
 Reported: 01/30/2024
 Project Name: MAD DOG 35 CN STATE COM 1H
 Project Number: 19556
 Project Location: MEWBOURNE 32.267701,-103.442802

Sampling Date: 01/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: EW 4 (H240348-20)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/26/2024	ND	2.16	108	2.00	1.69		
Toluene*	<0.050	0.050	01/26/2024	ND	2.15	107	2.00	1.47		
Ethylbenzene*	<0.050	0.050	01/26/2024	ND	2.13	107	2.00	1.46		
Total Xylenes*	<0.150	0.150	01/26/2024	ND	6.24	104	6.00	1.62		
Total BTEx	<0.300	0.300	01/26/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	01/26/2024	ND	464	116	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	01/26/2024	ND	199	99.5	200	0.230	
DRO >C10-C28*	<10.0	10.0	01/26/2024	ND	185	92.5	200	1.49	
EXT DRO >C28-C36	<10.0	10.0	01/26/2024	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Analytical Results For:

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

Received: 01/25/2024
 Reported: 01/30/2024
 Project Name: MAD DOG 35 CN STATE COM 1H
 Project Number: 19556
 Project Location: MEWBOURNE 32.267701,-103.442802

Sampling Date: 01/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: WW 3 (H240348-21)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/26/2024	ND	2.16	108	2.00	1.69	
Toluene*	<0.050	0.050	01/26/2024	ND	2.15	107	2.00	1.47	
Ethylbenzene*	<0.050	0.050	01/26/2024	ND	2.13	107	2.00	1.46	
Total Xylenes*	<0.150	0.150	01/26/2024	ND	6.24	104	6.00	1.62	
Total BTEX	<0.300	0.300	01/26/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	01/26/2024	ND	464	116	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	01/26/2024	ND	199	99.5	200	0.230	
DRO >C10-C28*	<10.0	10.0	01/26/2024	ND	185	92.5	200	1.49	
EXT DRO >C28-C36	<10.0	10.0	01/26/2024	ND					

Surrogate: 1-Chlorooctane 92.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.4 % 49.1-148

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Analytical Results For:

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

Received: 01/25/2024
 Reported: 01/30/2024
 Project Name: MAD DOG 35 CN STATE COM 1H
 Project Number: 19556
 Project Location: MEWBOURNE 32.267701,-103.442802

Sampling Date: 01/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: WW 4 (H240348-22)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/26/2024	ND	2.16	108	2.00	1.69		
Toluene*	<0.050	0.050	01/26/2024	ND	2.15	107	2.00	1.47		
Ethylbenzene*	<0.050	0.050	01/26/2024	ND	2.13	107	2.00	1.46		
Total Xylenes*	<0.150	0.150	01/26/2024	ND	6.24	104	6.00	1.62		
Total BTEX	<0.300	0.300	01/26/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	01/26/2024	ND	464	116	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	01/26/2024	ND	199	99.5	200	0.230	
DRO >C10-C28*	<10.0	10.0	01/26/2024	ND	185	92.5	200	1.49	
EXT DRO >C28-C36	<10.0	10.0	01/26/2024	ND					

Surrogate: 1-Chlorooctane 119 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 25 of 27

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST														
Project Manager: Lance Crenshaw				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>														
Address: 2617 West Marland				Company: Mewbourne																		
City: Hobbs State: NM Zip: 88240				Attn: Connor Walker																		
Phone #: (575) 264-9884 Fax #:				Address:																		
Project #: 19556 Project Owner: Mewbourne				City:																		
Project Name: Mad Dog 35 CN State Com 1H				State: NM Zip:																		
Project Location: 32.267701, -103.442802				Phone #:																		
Sampler Name: Dominic Casarez				Fax #:																		
FOR LAB USE ONLY																						
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME								
H240348																						
1	FL14 @ 1.5'	C	1			X				X			1/24/24		X	X	X					
2	FL15 @ 1.5'	C	1			X				X			1/24/24		X	X	X					
3	FL16 @ 6"	C	1			X				X			1/24/24		X	X	X					
4	FL17 @ 1'	C	1			X				X			1/24/24		X	X	X					
5	FL18 @ 1.5'	C	1			X				X			1/24/24		X	X	X					
6	FL19 @ 6"	C	1			X				X			1/24/24		X	X	X					
7	FL20 @ 1'	C	1			X				X			1/24/24		X	X	X					
8	FL21 @ 1.5'	C	1			X				X			1/24/24		X	X	X					
9	FL22 @ 1.5'	C	1			X				X			1/24/24		X	X	X					
10	FL23 @ 1.5'	C	1			X				X			1/24/24		X	X	X					
<small>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</small>																						
Relinquished By:		Date: 1-25-24 Time: 1452		Received By:		Date: Time:		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:		REMARKS:										
Relinquished By:		Date: Time:		Received By:		Date: Time:		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:		REMARKS:										
Delivered By: (Circle One)				#140				Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>				CHECKED BY: (Initials)				Please email results and copy of CoC to pm@etechenv.com.						
Sampler - UPS - Bus - Other:				-7.7c																		

FORM-006
Revision 1.0

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																					
Project Manager: Lance Crenshaw				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																					
Address: 2617 West Marland				Company: Mewbourne																									
City: Hobbs State: NM Zip: 88240				Attn: Connor Walker																									
Phone #: (575) 264-9884 Fax #:				Address:																									
Project #: 19556 Project Owner: Mewbourne				City:																									
Project Name: Mad Dog 35 CN State Com 1H				State: NM Zip:																									
Project Location: 32.267701, -103.442802				Phone #:																									
Sampler Name: Dominic Casarez				Fax #:																									
FOR LAB USE ONLY						MATRIX		PRESERV.		SAMPLING																			
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME															
H240348																													
11	FL24 @ 1.5'	C	1			X				X			1/24/24		X	X	X												
12	FL25 @ 1'	C	1			X				X			1/24/24		X	X	X												
13	FL26 @ 1.5'	C	1			X				X			1/24/24		X	X	X												
14	FL27 @ 1'	C	1			X				X			1/24/24		X	X	X												
15	FL28 @ 1.5'	C	1			X				X			1/24/24		X	X	X												
16	FL29 @ 6"	C	1			X				X			1/24/24		X	X	X												
17	FL30 @ 6"	C	1			X				X			1/24/24		X	X	X												
18	FL31 @ 6"	C	1			X				X			1/24/24		X	X	X												
19	EW3	C	1			X				X			1/24/24		X	X	X												
20	EW4	C	1			X				X			1/24/24		X	X	X												
<p>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal regardless of whether such claim is based upon any of the above stated reasons or otherwise.</p>																													
Relinquished By:		Date: 1-25-24		Received By:		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:																					
		Time: 1452				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:																					
Relinquished By:		Date:		Received By:		REMARKS:																							
		Time:																											
Delivered By: (Circle One)				Sample Condition				CHECKED BY:				Please email results and copy of CoC to pm@etechenv.com.																	
Sampler - UPS - Bus - Other:				Cool Intact				(Initials)																					
				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No																					

**ARDINAL LABORATORIES**

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

February 01, 2024

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: MAD DOG 35 CN STATE COM 1H

Enclosed are the results of analyses for samples received by the laboratory on 01/29/24 8:07.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/29/2024
 Reported: 02/01/2024
 Project Name: MAD DOG 35 CN STATE COM 1H
 Project Number: 19556
 Project Location: MEWBOURNE 32.267701,-103.442802

Sampling Date: 01/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 33 @ 6 IN. (H240378-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/30/2024	ND	2.09	104	2.00	12.0	
Toluene*	<0.050	0.050	01/30/2024	ND	2.17	108	2.00	9.47	
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.28	114	2.00	9.63	
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.90	115	6.00	9.12	
Total BTEX	<0.300	0.300	01/30/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2240	16.0	01/29/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/30/2024	ND	203	101	200	0.400	
DRO >C10-C28*	92.7	10.0	01/30/2024	ND	201	101	200	1.72	
EXT DRO >C28-C36	11.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.1 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/29/2024
 Reported: 02/01/2024
 Project Name: MAD DOG 35 CN STATE COM 1H
 Project Number: 19556
 Project Location: MEWBOURNE 32.267701,-103.442802

Sampling Date: 01/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 34 @ 6 IN. (H240378-02)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/30/2024	ND	2.09	104	2.00	12.0		
Toluene*	<0.050	0.050	01/30/2024	ND	2.17	108	2.00	9.47		
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.28	114	2.00	9.63		
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.90	115	6.00	9.12		
Total BTEX	<0.300	0.300	01/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1150	16.0	01/29/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/30/2024	ND	203	101	200	0.400	
DRO >C10-C28*	298	10.0	01/30/2024	ND	201	101	200	1.72	
EXT DRO >C28-C36	94.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 98.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/29/2024
 Reported: 02/01/2024
 Project Name: MAD DOG 35 CN STATE COM 1H
 Project Number: 19556
 Project Location: MEWBOURNE 32.267701,-103.442802

Sampling Date: 01/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 35 @ 6 IN. (H240378-03)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/30/2024	ND	2.09	104	2.00	12.0		
Toluene*	<0.050	0.050	01/30/2024	ND	2.17	108	2.00	9.47		
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.28	114	2.00	9.63		
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.90	115	6.00	9.12		
Total BTEX	<0.300	0.300	01/30/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	01/29/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/30/2024	ND	203	101	200	0.400	
DRO >C10-C28*	179	10.0	01/30/2024	ND	201	101	200	1.72	
EXT DRO >C28-C36	82.6	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/29/2024
 Reported: 02/01/2024
 Project Name: MAD DOG 35 CN STATE COM 1H
 Project Number: 19556
 Project Location: MEWBOURNE 32.267701,-103.442802

Sampling Date: 01/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 36 @ 6 IN. (H240378-04)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/30/2024	ND	2.09	104	2.00	12.0		
Toluene*	<0.050	0.050	01/30/2024	ND	2.17	108	2.00	9.47		
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.28	114	2.00	9.63		
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.90	115	6.00	9.12		
Total BTEX	<0.300	0.300	01/30/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	01/29/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/30/2024	ND	203	101	200	0.400	
DRO >C10-C28*	42.1	10.0	01/30/2024	ND	201	101	200	1.72	
EXT DRO >C28-C36	14.2	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/29/2024
 Reported: 02/01/2024
 Project Name: MAD DOG 35 CN STATE COM 1H
 Project Number: 19556
 Project Location: MEWBOURNE 32.267701,-103.442802

Sampling Date: 01/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 37 @ 6 IN. (H240378-05)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/30/2024	ND	2.09	104	2.00	12.0	
Toluene*	<0.050	0.050	01/30/2024	ND	2.17	108	2.00	9.47	
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.28	114	2.00	9.63	
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.90	115	6.00	9.12	
Total BTEX	<0.300	0.300	01/30/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/29/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/30/2024	ND	203	101	200	0.400	
DRO >C10-C28*	214	10.0	01/30/2024	ND	201	101	200	1.72	
EXT DRO >C28-C36	112	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/29/2024
 Reported: 02/01/2024
 Project Name: MAD DOG 35 CN STATE COM 1H
 Project Number: 19556
 Project Location: MEWBOURNE 32.267701,-103.442802

Sampling Date: 01/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 38 @ 6 IN. (H240378-06)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/30/2024	ND	2.09	104	2.00	12.0		
Toluene*	<0.050	0.050	01/30/2024	ND	2.17	108	2.00	9.47		
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.28	114	2.00	9.63		
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.90	115	6.00	9.12		
Total BTEX	<0.300	0.300	01/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	01/29/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/30/2024	ND	203	101	200	0.400	
DRO >C10-C28*	<10.0	10.0	01/30/2024	ND	201	101	200	1.72	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.5 % 49.1-148

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Analytical Results For:

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

Received: 01/29/2024
 Reported: 02/01/2024
 Project Name: MAD DOG 35 CN STATE COM 1H
 Project Number: 19556
 Project Location: MEWBOURNE 32.267701,-103.442802

Sampling Date: 01/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 39 @ 6 IN. (H240378-07)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/30/2024	ND	2.09	104	2.00	12.0		
Toluene*	<0.050	0.050	01/30/2024	ND	2.17	108	2.00	9.47		
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.28	114	2.00	9.63		
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.90	115	6.00	9.12		
Total BTEX	<0.300	0.300	01/30/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	01/29/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/30/2024	ND	203	101	200	0.400	
DRO >C10-C28*	<10.0	10.0	01/30/2024	ND	201	101	200	1.72	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.0 % 49.1-148

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Analytical Results For:

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

Received: 01/29/2024
 Reported: 02/01/2024
 Project Name: MAD DOG 35 CN STATE COM 1H
 Project Number: 19556
 Project Location: MEWBOURNE 32.267701,-103.442802

Sampling Date: 01/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 40 @ 6 IN. (H240378-08)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/30/2024	ND	2.09	104	2.00	12.0		
Toluene*	<0.050	0.050	01/30/2024	ND	2.17	108	2.00	9.47		
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.28	114	2.00	9.63		
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.90	115	6.00	9.12		
Total BTEX	<0.300	0.300	01/30/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	448	16.0	01/29/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/30/2024	ND	203	101	200	0.400	
DRO >C10-C28*	<10.0	10.0	01/30/2024	ND	201	101	200	1.72	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 98.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.1 % 49.1-148

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Analytical Results For:

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 HOBBS NM, 88240
 Fax To:

Received: 01/29/2024
 Reported: 02/01/2024
 Project Name: MAD DOG 35 CN STATE COM 1H
 Project Number: 19556
 Project Location: MEWBOURNE 32.267701,-103.442802

Sampling Date: 01/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 41 @ 6 IN. (H240378-09)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/30/2024	ND	2.09	104	2.00	12.0		
Toluene*	<0.050	0.050	01/30/2024	ND	2.17	108	2.00	9.47		
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.28	114	2.00	9.63		
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.90	115	6.00	9.12		
Total BTEX	<0.300	0.300	01/30/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	704	16.0	01/29/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/29/2024	ND	210	105	200	1.41	
DRO >C10-C28*	21.1	10.0	01/29/2024	ND	218	109	200	3.53	
EXT DRO >C28-C36	<10.0	10.0	01/29/2024	ND					

Surrogate: 1-Chlorooctane 87.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 67.8 % 49.1-148

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 HOBBS NM, 88240
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Received: 01/29/2024
 Reported: 02/01/2024
 Project Name: MAD DOG 35 CN STATE COM 1H
 Project Number: 19556
 Project Location: MEWBOURNE 32.267701,-103.442802

Sampling Date: 01/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 42 @ 6 IN. (H240378-10)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/30/2024	ND	2.09	104	2.00	12.0		
Toluene*	<0.050	0.050	01/30/2024	ND	2.17	108	2.00	9.47		
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.28	114	2.00	9.63		
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.90	115	6.00	9.12		
Total BTEX	<0.300	0.300	01/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 133 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	608	16.0	01/29/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/29/2024	ND	210	105	200	1.41	
DRO >C10-C28*	1390	10.0	01/29/2024	ND	218	109	200	3.53	
EXT DRO >C28-C36	218	10.0	01/29/2024	ND					

Surrogate: 1-Chlorooctane 93.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.3 % 49.1-148

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 HOBBS NM, 88240
 Fax To:

Received: 01/29/2024
 Reported: 02/01/2024
 Project Name: MAD DOG 35 CN STATE COM 1H
 Project Number: 19556
 Project Location: MEWBOURNE 32.267701,-103.442802

Sampling Date: 01/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 43 @ 6 IN. (H240378-11)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/30/2024	ND	2.09	104	2.00	12.0		
Toluene*	<0.050	0.050	01/30/2024	ND	2.17	108	2.00	9.47		
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.28	114	2.00	9.63		
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.90	115	6.00	9.12		
Total BTEX	<0.300	0.300	01/30/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	01/29/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/29/2024	ND	210	105	200	1.41	
DRO >C10-C28*	<10.0	10.0	01/29/2024	ND	218	109	200	3.53	
EXT DRO >C28-C36	<10.0	10.0	01/29/2024	ND					

Surrogate: 1-Chlorooctane 84.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.8 % 49.1-148

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 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 01/29/2024
 Reported: 02/01/2024
 Project Name: MAD DOG 35 CN STATE COM 1H
 Project Number: 19556
 Project Location: MEWBOURNE 32.267701,-103.442802

Sampling Date: 01/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 44 @ 6 IN. (H240378-12)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/30/2024	ND	2.09	104	2.00	12.0		
Toluene*	<0.050	0.050	01/30/2024	ND	2.17	108	2.00	9.47		
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.28	114	2.00	9.63		
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.90	115	6.00	9.12		
Total BTEX	<0.300	0.300	01/30/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	01/29/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/29/2024	ND	210	105	200	1.41	
DRO >C10-C28*	13.5	10.0	01/29/2024	ND	218	109	200	3.53	
EXT DRO >C28-C36	<10.0	10.0	01/29/2024	ND					

Surrogate: 1-Chlorooctane 91.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.9 % 49.1-148

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Analytical Results For:

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 HOBBS NM, 88240
 Fax To:

Received: 01/29/2024
 Reported: 02/01/2024
 Project Name: MAD DOG 35 CN STATE COM 1H
 Project Number: 19556
 Project Location: MEWBOURNE 32.267701,-103.442802

Sampling Date: 01/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 45 @ 6 IN. (H240378-13)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/30/2024	ND	2.09	104	2.00	12.0		
Toluene*	<0.050	0.050	01/30/2024	ND	2.17	108	2.00	9.47		
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.28	114	2.00	9.63		
Total Xylenes*	0.153	0.150	01/30/2024	ND	6.90	115	6.00	9.12		
Total BTEX	<0.300	0.300	01/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 130 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	496	16.0	01/29/2024	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	01/30/2024	ND	210	105	200	1.41	
DRO >C10-C28*	1240	10.0	01/30/2024	ND	218	109	200	3.53	
EXT DRO >C28-C36	251	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 93.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.2 % 49.1-148

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Analytical Results For:

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

Received: 01/29/2024
 Reported: 02/01/2024
 Project Name: MAD DOG 35 CN STATE COM 1H
 Project Number: 19556
 Project Location: MEWBOURNE 32.267701,-103.442802

Sampling Date: 01/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 46 @ 6 IN. (H240378-14)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/30/2024	ND	2.09	104	2.00	12.0		
Toluene*	<0.050	0.050	01/30/2024	ND	2.17	108	2.00	9.47		
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.28	114	2.00	9.63		
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.90	115	6.00	9.12		
Total BTEX	<0.300	0.300	01/30/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	768	16.0	01/29/2024	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	01/30/2024	ND	210	105	200	1.41	
DRO >C10-C28*	21.9	10.0	01/30/2024	ND	218	109	200	3.53	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 93.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/29/2024
 Reported: 02/01/2024
 Project Name: MAD DOG 35 CN STATE COM 1H
 Project Number: 19556
 Project Location: MEWBOURNE 32.267701,-103.442802

Sampling Date: 01/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 47 @ 6 IN. (H240378-15)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/30/2024	ND	2.27	114	2.00	0.227		
Toluene*	<0.050	0.050	01/30/2024	ND	2.25	112	2.00	0.470		
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.24	112	2.00	0.429		
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.57	110	6.00	0.236		
Total BTEX	<0.300	0.300	01/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	720	16.0	01/29/2024	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	01/30/2024	ND	210	105	200	1.41	
DRO >C10-C28*	1690	10.0	01/30/2024	ND	218	109	200	3.53	
EXT DRO >C28-C36	306	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 80.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/29/2024
 Reported: 02/01/2024
 Project Name: MAD DOG 35 CN STATE COM 1H
 Project Number: 19556
 Project Location: MEWBOURNE 32.267701,-103.442802

Sampling Date: 01/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 48 @ 6 IN. (H240378-16)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/30/2024	ND	2.27	114	2.00	0.227		
Toluene*	<0.050	0.050	01/30/2024	ND	2.25	112	2.00	0.470		
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.24	112	2.00	0.429		
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.57	110	6.00	0.236		
Total BTEX	<0.300	0.300	01/30/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	624	16.0	01/29/2024	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	01/30/2024	ND	210	105	200	1.41	
DRO >C10-C28*	75.8	10.0	01/30/2024	ND	218	109	200	3.53	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 72.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 60.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/29/2024
 Reported: 02/01/2024
 Project Name: MAD DOG 35 CN STATE COM 1H
 Project Number: 19556
 Project Location: MEWBOURNE 32.267701,-103.442802

Sampling Date: 01/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 49 @ 6 IN. (H240378-17)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/30/2024	ND	2.27	114	2.00	0.227		
Toluene*	<0.050	0.050	01/30/2024	ND	2.25	112	2.00	0.470		
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.24	112	2.00	0.429		
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.57	110	6.00	0.236		
Total BTEX	<0.300	0.300	01/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	01/29/2024	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	01/30/2024	ND	210	105	200	1.41	
DRO >C10-C28*	<10.0	10.0	01/30/2024	ND	218	109	200	3.53	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 87.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/29/2024
 Reported: 02/01/2024
 Project Name: MAD DOG 35 CN STATE COM 1H
 Project Number: 19556
 Project Location: MEWBOURNE 32.267701,-103.442802

Sampling Date: 01/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 50 @ 6 IN. (H240378-18)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/30/2024	ND	2.27	114	2.00	0.227		
Toluene*	<0.050	0.050	01/30/2024	ND	2.25	112	2.00	0.470		
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.24	112	2.00	0.429		
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.57	110	6.00	0.236		
Total BTEX	<0.300	0.300	01/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	480	16.0	01/29/2024	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	01/30/2024	ND	210	105	200	1.41	
DRO >C10-C28*	53.7	10.0	01/30/2024	ND	218	109	200	3.53	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 90.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.5 % 49.1-148

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Analytical Results For:

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

Received: 01/29/2024
 Reported: 02/01/2024
 Project Name: MAD DOG 35 CN STATE COM 1H
 Project Number: 19556
 Project Location: MEWBOURNE 32.267701,-103.442802

Sampling Date: 01/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 51 @ 6 IN. (H240378-19)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/30/2024	ND	2.27	114	2.00	0.227		
Toluene*	<0.050	0.050	01/30/2024	ND	2.25	112	2.00	0.470		
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.24	112	2.00	0.429		
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.57	110	6.00	0.236		
Total BTEX	<0.300	0.300	01/30/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	848	16.0	01/29/2024	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	01/30/2024	ND	210	105	200	1.41	
DRO >C10-C28*	20.8	10.0	01/30/2024	ND	218	109	200	3.53	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 87.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.7 % 49.1-148

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Analytical Results For:

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

Received: 01/29/2024
 Reported: 02/01/2024
 Project Name: MAD DOG 35 CN STATE COM 1H
 Project Number: 19556
 Project Location: MEWBOURNE 32.267701,-103.442802

Sampling Date: 01/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 56 @ 6 IN. (H240378-20)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/30/2024	ND	2.27	114	2.00	0.227		
Toluene*	<0.050	0.050	01/30/2024	ND	2.25	112	2.00	0.470		
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.24	112	2.00	0.429		
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.57	110	6.00	0.236		
Total BTEX	<0.300	0.300	01/30/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	800	16.0	01/29/2024	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	01/30/2024	ND	210	105	200	1.41	
DRO >C10-C28*	972	10.0	01/30/2024	ND	218	109	200	3.53	
EXT DRO >C28-C36	196	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 88.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.0 % 49.1-148

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Analytical Results For:

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

Received: 01/29/2024
 Reported: 02/01/2024
 Project Name: MAD DOG 35 CN STATE COM 1H
 Project Number: 19556
 Project Location: MEWBOURNE 32.267701,-103.442802

Sampling Date: 01/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 57 @ 6 IN. (H240378-21)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/30/2024	ND	2.27	114	2.00	0.227		
Toluene*	<0.050	0.050	01/30/2024	ND	2.25	112	2.00	0.470		
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.24	112	2.00	0.429		
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.57	110	6.00	0.236		
Total BTEX	<0.300	0.300	01/30/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	912	16.0	01/29/2024	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	01/30/2024	ND	210	105	200	1.41	
DRO >C10-C28*	<10.0	10.0	01/30/2024	ND	218	109	200	3.53	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 89.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.4 % 49.1-148

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Analytical Results For:

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

Received: 01/29/2024
 Reported: 02/01/2024
 Project Name: MAD DOG 35 CN STATE COM 1H
 Project Number: 19556
 Project Location: MEWBOURNE 32.267701,-103.442802

Sampling Date: 01/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 58 @ 6 IN. (H240378-22)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/30/2024	ND	2.27	114	2.00	0.227		
Toluene*	<0.050	0.050	01/30/2024	ND	2.25	112	2.00	0.470		
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.24	112	2.00	0.429		
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.57	110	6.00	0.236		
Total BTEX	<0.300	0.300	01/30/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1960	16.0	01/29/2024	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	01/30/2024	ND	210	105	200	1.41	
DRO >C10-C28*	27.3	10.0	01/30/2024	ND	218	109	200	3.53	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 84.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.7 % 49.1-148

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Analytical Results For:

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

Received: 01/29/2024
 Reported: 02/01/2024
 Project Name: MAD DOG 35 CN STATE COM 1H
 Project Number: 19556
 Project Location: MEWBOURNE 32.267701,-103.442802

Sampling Date: 01/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 59 @ 6 IN. (H240378-23)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/30/2024	ND	2.27	114	2.00	0.227		
Toluene*	<0.050	0.050	01/30/2024	ND	2.25	112	2.00	0.470		
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.24	112	2.00	0.429		
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.57	110	6.00	0.236		
Total BTEX	<0.300	0.300	01/30/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3520	16.0	01/29/2024	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	01/30/2024	ND	210	105	200	1.41	
DRO >C10-C28*	175	10.0	01/30/2024	ND	218	109	200	3.53	
EXT DRO >C28-C36	27.7	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 83.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/29/2024
 Reported: 02/01/2024
 Project Name: MAD DOG 35 CN STATE COM 1H
 Project Number: 19556
 Project Location: MEWBOURNE 32.267701,-103.442802

Sampling Date: 01/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 60 @ 6 IN. (H240378-24)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/30/2024	ND	2.27	114	2.00	0.227		
Toluene*	<0.050	0.050	01/30/2024	ND	2.25	112	2.00	0.470		
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.24	112	2.00	0.429		
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.57	110	6.00	0.236		
Total BTEX	<0.300	0.300	01/30/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1470	16.0	01/29/2024	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	01/30/2024	ND	210	105	200	1.41	
DRO >C10-C28*	18.4	10.0	01/30/2024	ND	218	109	200	3.53	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 81.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.3 % 49.1-148

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Analytical Results For:

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

Received: 01/29/2024
 Reported: 02/01/2024
 Project Name: MAD DOG 35 CN STATE COM 1H
 Project Number: 19556
 Project Location: MEWBOURNE 32.267701,-103.442802

Sampling Date: 01/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 61 @ 6 IN. (H240378-25)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/30/2024	ND	2.27	114	2.00	0.227		
Toluene*	<0.050	0.050	01/30/2024	ND	2.25	112	2.00	0.470		
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.24	112	2.00	0.429		
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.57	110	6.00	0.236		
Total BTEX	<0.300	0.300	01/30/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3120	16.0	01/29/2024	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	01/30/2024	ND	210	105	200	1.41	
DRO >C10-C28*	40.0	10.0	01/30/2024	ND	218	109	200	3.53	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 82.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/29/2024
 Reported: 02/01/2024
 Project Name: MAD DOG 35 CN STATE COM 1H
 Project Number: 19556
 Project Location: MEWBOURNE 32.267701,-103.442802

Sampling Date: 01/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 62 @ 6 IN. (H240378-26)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/30/2024	ND	2.27	114	2.00	0.227	
Toluene*	<0.050	0.050	01/30/2024	ND	2.25	112	2.00	0.470	
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.24	112	2.00	0.429	
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.57	110	6.00	0.236	
Total BTEX	<0.300	0.300	01/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3360	16.0	01/29/2024	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	01/30/2024	ND	210	105	200	1.41	
DRO >C10-C28*	<10.0	10.0	01/30/2024	ND	218	109	200	3.53	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 89.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/29/2024
 Reported: 02/01/2024
 Project Name: MAD DOG 35 CN STATE COM 1H
 Project Number: 19556
 Project Location: MEWBOURNE 32.267701,-103.442802

Sampling Date: 01/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 63 @ 6 IN. (H240378-27)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/30/2024	ND	2.27	114	2.00	0.227		
Toluene*	<0.050	0.050	01/30/2024	ND	2.25	112	2.00	0.470		
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.24	112	2.00	0.429		
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.57	110	6.00	0.236		
Total BTEX	<0.300	0.300	01/30/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3800	16.0	01/29/2024	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	01/30/2024	ND	210	105	200	1.41	
DRO >C10-C28*	<10.0	10.0	01/30/2024	ND	218	109	200	3.53	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 87.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.7 % 49.1-148

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Analytical Results For:

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

Received: 01/29/2024
 Reported: 02/01/2024
 Project Name: MAD DOG 35 CN STATE COM 1H
 Project Number: 19556
 Project Location: MEWBOURNE 32.267701,-103.442802

Sampling Date: 01/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 64 @ 6 IN. (H240378-28)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/30/2024	ND	2.27	114	2.00	0.227		
Toluene*	<0.050	0.050	01/30/2024	ND	2.25	112	2.00	0.470		
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.24	112	2.00	0.429		
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.57	110	6.00	0.236		
Total BTEX	<0.300	0.300	01/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1720	16.0	01/29/2024	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	01/30/2024	ND	210	105	200	1.41	
DRO >C10-C28*	<10.0	10.0	01/30/2024	ND	218	109	200	3.53	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 84.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.7 % 49.1-148

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Analytical Results For:

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

Received: 01/29/2024
 Reported: 02/01/2024
 Project Name: MAD DOG 35 CN STATE COM 1H
 Project Number: 19556
 Project Location: MEWBOURNE 32.267701,-103.442802

Sampling Date: 01/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 65 @ 6 IN. (H240378-29)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/30/2024	ND	2.27	114	2.00	0.227		
Toluene*	<0.050	0.050	01/30/2024	ND	2.25	112	2.00	0.470		
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.24	112	2.00	0.429		
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.57	110	6.00	0.236		
Total BTEX	<0.300	0.300	01/30/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1170	16.0	01/29/2024	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	01/29/2024	ND	213	106	200	4.20	
DRO >C10-C28*	<10.0	10.0	01/29/2024	ND	219	110	200	3.85	
EXT DRO >C28-C36	<10.0	10.0	01/29/2024	ND					

Surrogate: 1-Chlorooctane 85.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.2 % 49.1-148

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Analytical Results For:

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

Received: 01/29/2024
 Reported: 02/01/2024
 Project Name: MAD DOG 35 CN STATE COM 1H
 Project Number: 19556
 Project Location: MEWBOURNE 32.267701,-103.442802

Sampling Date: 01/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 66 @ 6 IN. (H240378-30)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/30/2024	ND	2.27	114	2.00	0.227		
Toluene*	<0.050	0.050	01/30/2024	ND	2.25	112	2.00	0.470		
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.24	112	2.00	0.429		
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.57	110	6.00	0.236		
Total BTEX	<0.300	0.300	01/30/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	736	16.0	01/29/2024	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	01/29/2024	ND	213	106	200	4.20	
DRO >C10-C28*	254	10.0	01/29/2024	ND	219	110	200	3.85	
EXT DRO >C28-C36	46.2	10.0	01/29/2024	ND					

Surrogate: 1-Chlorooctane 70.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.4 % 49.1-148

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Analytical Results For:

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

Received: 01/29/2024
 Reported: 02/01/2024
 Project Name: MAD DOG 35 CN STATE COM 1H
 Project Number: 19556
 Project Location: MEWBOURNE 32.267701,-103.442802

Sampling Date: 01/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 67 @ 6 IN. (H240378-31)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/30/2024	ND	2.27	114	2.00	0.227		
Toluene*	<0.050	0.050	01/30/2024	ND	2.25	112	2.00	0.470		
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.24	112	2.00	0.429		
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.57	110	6.00	0.236		
Total BTEX	<0.300	0.300	01/30/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	01/29/2024	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	01/29/2024	ND	213	106	200	4.20	
DRO >C10-C28*	11.2	10.0	01/29/2024	ND	219	110	200	3.85	
EXT DRO >C28-C36	<10.0	10.0	01/29/2024	ND					

Surrogate: 1-Chlorooctane 85.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/29/2024
 Reported: 02/01/2024
 Project Name: MAD DOG 35 CN STATE COM 1H
 Project Number: 19556
 Project Location: MEWBOURNE 32.267701,-103.442802

Sampling Date: 01/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 68 @ 6 IN. (H240378-32)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/30/2024	ND	2.27	114	2.00	0.227		
Toluene*	<0.050	0.050	01/30/2024	ND	2.25	112	2.00	0.470		
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.24	112	2.00	0.429		
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.57	110	6.00	0.236		
Total BTEX	<0.300	0.300	01/30/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	976	16.0	01/29/2024	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	01/29/2024	ND	213	106	200	4.20	
DRO >C10-C28*	<10.0	10.0	01/29/2024	ND	219	110	200	3.85	
EXT DRO >C28-C36	<10.0	10.0	01/29/2024	ND					

Surrogate: 1-Chlorooctane 94.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.0 % 49.1-148

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Analytical Results For:

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

Received: 01/29/2024
 Reported: 02/01/2024
 Project Name: MAD DOG 35 CN STATE COM 1H
 Project Number: 19556
 Project Location: MEWBOURNE 32.267701,-103.442802

Sampling Date: 01/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 69 @ 6 IN. (H240378-33)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/30/2024	ND	2.27	114	2.00	0.227		
Toluene*	<0.050	0.050	01/30/2024	ND	2.25	112	2.00	0.470		
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.24	112	2.00	0.429		
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.57	110	6.00	0.236		
Total BTEX	<0.300	0.300	01/30/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2120	16.0	01/29/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/29/2024	ND	213	106	200	4.20	
DRO >C10-C28*	<10.0	10.0	01/29/2024	ND	219	110	200	3.85	
EXT DRO >C28-C36	<10.0	10.0	01/29/2024	ND					

Surrogate: 1-Chlorooctane 92.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.7 % 49.1-148

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Analytical Results For:

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

Received: 01/29/2024
 Reported: 02/01/2024
 Project Name: MAD DOG 35 CN STATE COM 1H
 Project Number: 19556
 Project Location: MEWBOURNE 32.267701,-103.442802

Sampling Date: 01/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 70 @ 6 IN. (H240378-34)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/30/2024	ND	2.27	114	2.00	0.227		
Toluene*	<0.050	0.050	01/30/2024	ND	2.25	112	2.00	0.470		
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.24	112	2.00	0.429		
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.57	110	6.00	0.236		
Total BTEX	<0.300	0.300	01/30/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1580	16.0	01/29/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/29/2024	ND	213	106	200	4.20	
DRO >C10-C28*	<10.0	10.0	01/29/2024	ND	219	110	200	3.85	
EXT DRO >C28-C36	<10.0	10.0	01/29/2024	ND					

Surrogate: 1-Chlorooctane 86.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.8 % 49.1-148

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Analytical Results For:

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

Received: 01/29/2024
 Reported: 02/01/2024
 Project Name: MAD DOG 35 CN STATE COM 1H
 Project Number: 19556
 Project Location: MEWBOURNE 32.267701,-103.442802

Sampling Date: 01/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 52 @ 6 IN. (H240378-35)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/30/2024	ND	1.94	97.0	2.00	1.29	
Toluene*	<0.050	0.050	01/30/2024	ND	2.08	104	2.00	0.785	
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.08	104	2.00	0.578	
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.35	106	6.00	0.309	
Total BTEX	<0.300	0.300	01/30/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1120	16.0	01/29/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/29/2024	ND	213	106	200	4.20	
DRO >C10-C28*	39.7	10.0	01/29/2024	ND	219	110	200	3.85	
EXT DRO >C28-C36	<10.0	10.0	01/29/2024	ND					

Surrogate: 1-Chlorooctane 83.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.8 % 49.1-148

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Analytical Results For:

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

Received: 01/29/2024
 Reported: 02/01/2024
 Project Name: MAD DOG 35 CN STATE COM 1H
 Project Number: 19556
 Project Location: MEWBOURNE 32.267701,-103.442802

Sampling Date: 01/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 53 @ 6 IN. (H240378-36)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/30/2024	ND	1.94	97.0	2.00	1.29	
Toluene*	<0.050	0.050	01/30/2024	ND	2.08	104	2.00	0.785	
Ethylbenzene*	0.052	0.050	01/30/2024	ND	2.08	104	2.00	0.578	
Total Xylenes*	0.282	0.150	01/30/2024	ND	6.35	106	6.00	0.309	
Total BTX	0.334	0.300	01/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 128 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	01/29/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	34.3	10.0	01/30/2024	ND	213	106	200	4.20	
DRO >C10-C28*	5020	10.0	01/30/2024	ND	219	110	200	3.85	
EXT DRO >C28-C36	1020	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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Analytical Results For:

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

Received: 01/29/2024
 Reported: 02/01/2024
 Project Name: MAD DOG 35 CN STATE COM 1H
 Project Number: 19556
 Project Location: MEWBOURNE 32.267701,-103.442802

Sampling Date: 01/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 54 @ 6 IN. (H240378-37)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/30/2024	ND	1.94	97.0	2.00	1.29		
Toluene*	<0.050	0.050	01/30/2024	ND	2.08	104	2.00	0.785		
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.08	104	2.00	0.578		
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.35	106	6.00	0.309		
Total BTEx	<0.300	0.300	01/30/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	624	16.0	01/29/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/29/2024	ND	213	106	200	4.20	
DRO >C10-C28*	441	10.0	01/29/2024	ND	219	110	200	3.85	
EXT DRO >C28-C36	68.5	10.0	01/29/2024	ND					

Surrogate: 1-Chlorooctane 82.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.8 % 49.1-148

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Analytical Results For:

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

Received: 01/29/2024
 Reported: 02/01/2024
 Project Name: MAD DOG 35 CN STATE COM 1H
 Project Number: 19556
 Project Location: MEWBOURNE 32.267701,-103.442802

Sampling Date: 01/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 55 @ 6 IN. (H240378-38)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/30/2024	ND	1.94	97.0	2.00	1.29	
Toluene*	<0.050	0.050	01/30/2024	ND	2.08	104	2.00	0.785	
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.08	104	2.00	0.578	
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.35	106	6.00	0.309	
Total BTEX	<0.300	0.300	01/30/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1650	16.0	01/29/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/29/2024	ND	213	106	200	4.20	
DRO >C10-C28*	487	10.0	01/29/2024	ND	219	110	200	3.85	
EXT DRO >C28-C36	95.9	10.0	01/29/2024	ND					

Surrogate: 1-Chlorooctane 87.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.0 % 49.1-148

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Analytical Results For:

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

Received: 01/29/2024
 Reported: 02/01/2024
 Project Name: MAD DOG 35 CN STATE COM 1H
 Project Number: 19556
 Project Location: MEWBOURNE 32.267701,-103.442802

Sampling Date: 01/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 32 @ 6 IN. (H240378-39)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/30/2024	ND	1.94	97.0	2.00	1.29		
Toluene*	<0.050	0.050	01/30/2024	ND	2.08	104	2.00	0.785		
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.08	104	2.00	0.578		
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.35	106	6.00	0.309		
Total BTEX	<0.300	0.300	01/30/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	880	16.0	01/29/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/29/2024	ND	213	106	200	4.20	
DRO >C10-C28*	723	10.0	01/29/2024	ND	219	110	200	3.85	
EXT DRO >C28-C36	187	10.0	01/29/2024	ND					

Surrogate: 1-Chlorooctane 92.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Analytical Results For:

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

Received: 01/29/2024
 Reported: 02/01/2024
 Project Name: MAD DOG 35 CN STATE COM 1H
 Project Number: 19556
 Project Location: MEWBOURNE 32.267701,-103.442802

Sampling Date: 01/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW 1 (H240378-40)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/30/2024	ND	1.94	97.0	2.00	1.29	
Toluene*	<0.050	0.050	01/30/2024	ND	2.08	104	2.00	0.785	
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.08	104	2.00	0.578	
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.35	106	6.00	0.309	
Total BTEX	<0.300	0.300	01/30/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	01/29/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/29/2024	ND	213	106	200	4.20	
DRO >C10-C28*	<10.0	10.0	01/29/2024	ND	219	110	200	3.85	
EXT DRO >C28-C36	<10.0	10.0	01/29/2024	ND					

Surrogate: 1-Chlorooctane 85.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/29/2024
 Reported: 02/01/2024
 Project Name: MAD DOG 35 CN STATE COM 1H
 Project Number: 19556
 Project Location: MEWBOURNE 32.267701,-103.442802

Sampling Date: 01/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW 2 (H240378-41)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/30/2024	ND	1.94	97.0	2.00	1.29		
Toluene*	<0.050	0.050	01/30/2024	ND	2.08	104	2.00	0.785		
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.08	104	2.00	0.578		
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.35	106	6.00	0.309		
Total BTEX	<0.300	0.300	01/30/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	01/29/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/29/2024	ND	213	106	200	4.20	
DRO >C10-C28*	<10.0	10.0	01/29/2024	ND	219	110	200	3.85	
EXT DRO >C28-C36	<10.0	10.0	01/29/2024	ND					

Surrogate: 1-Chlorooctane 91.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.5 % 49.1-148

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Analytical Results For:

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

Received: 01/29/2024
 Reported: 02/01/2024
 Project Name: MAD DOG 35 CN STATE COM 1H
 Project Number: 19556
 Project Location: MEWBOURNE 32.267701,-103.442802

Sampling Date: 01/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: NW 3 (H240378-42)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/30/2024	ND	1.94	97.0	2.00	1.29	
Toluene*	<0.050	0.050	01/30/2024	ND	2.08	104	2.00	0.785	
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.08	104	2.00	0.578	
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.35	106	6.00	0.309	
Total BTEX	<0.300	0.300	01/30/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	01/29/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/29/2024	ND	213	106	200	4.20	
DRO >C10-C28*	<10.0	10.0	01/29/2024	ND	219	110	200	3.85	
EXT DRO >C28-C36	<10.0	10.0	01/29/2024	ND					

Surrogate: 1-Chlorooctane 91.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.6 % 49.1-148

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Analytical Results For:

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

Received: 01/29/2024
 Reported: 02/01/2024
 Project Name: MAD DOG 35 CN STATE COM 1H
 Project Number: 19556
 Project Location: MEWBOURNE 32.267701,-103.442802

Sampling Date: 01/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: NW 4 (H240378-43)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/30/2024	ND	1.94	97.0	2.00	1.29		
Toluene*	<0.050	0.050	01/30/2024	ND	2.08	104	2.00	0.785		
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.08	104	2.00	0.578		
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.35	106	6.00	0.309		
Total BTEX	<0.300	0.300	01/30/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	01/29/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/29/2024	ND	213	106	200	4.20	
DRO >C10-C28*	<10.0	10.0	01/29/2024	ND	219	110	200	3.85	
EXT DRO >C28-C36	<10.0	10.0	01/29/2024	ND					

Surrogate: 1-Chlorooctane 88.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.2 % 49.1-148

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Analytical Results For:

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

Received: 01/29/2024
 Reported: 02/01/2024
 Project Name: MAD DOG 35 CN STATE COM 1H
 Project Number: 19556
 Project Location: MEWBOURNE 32.267701,-103.442802

Sampling Date: 01/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: EW 5 (H240378-44)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/30/2024	ND	1.94	97.0	2.00	1.29		
Toluene*	<0.050	0.050	01/30/2024	ND	2.08	104	2.00	0.785		
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.08	104	2.00	0.578		
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.35	106	6.00	0.309		
Total BTEX	<0.300	0.300	01/30/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	01/29/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/29/2024	ND	213	106	200	4.20	
DRO >C10-C28*	<10.0	10.0	01/29/2024	ND	219	110	200	3.85	
EXT DRO >C28-C36	<10.0	10.0	01/29/2024	ND					

Surrogate: 1-Chlorooctane 78.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.5 % 49.1-148

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Analytical Results For:

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

Received: 01/29/2024
 Reported: 02/01/2024
 Project Name: MAD DOG 35 CN STATE COM 1H
 Project Number: 19556
 Project Location: MEWBOURNE 32.267701,-103.442802

Sampling Date: 01/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: WW 5 (H240378-45)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/30/2024	ND	1.94	97.0	2.00	1.29	
Toluene*	<0.050	0.050	01/30/2024	ND	2.08	104	2.00	0.785	
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.08	104	2.00	0.578	
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.35	106	6.00	0.309	
Total BTEX	<0.300	0.300	01/30/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	464	16.0	01/29/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/29/2024	ND	213	106	200	4.20	
DRO >C10-C28*	1350	10.0	01/29/2024	ND	219	110	200	3.85	
EXT DRO >C28-C36	308	10.0	01/29/2024	ND					

Surrogate: 1-Chlorooctane 89.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.4 % 49.1-148

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Analytical Results For:

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

Received: 01/29/2024
 Reported: 02/01/2024
 Project Name: MAD DOG 35 CN STATE COM 1H
 Project Number: 19556
 Project Location: MEWBOURNE 32.267701,-103.442802

Sampling Date: 01/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: WW 6 (H240378-46)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/30/2024	ND	1.94	97.0	2.00	1.29	
Toluene*	<0.050	0.050	01/30/2024	ND	2.08	104	2.00	0.785	
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.08	104	2.00	0.578	
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.35	106	6.00	0.309	
Total BTEX	<0.300	0.300	01/30/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	528	16.0	01/29/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/29/2024	ND	213	106	200	4.20	
DRO >C10-C28*	1440	10.0	01/29/2024	ND	219	110	200	3.85	
EXT DRO >C28-C36	336	10.0	01/29/2024	ND					

Surrogate: 1-Chlorooctane 92.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Analytical Results For:

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

Received: 01/29/2024
 Reported: 02/01/2024
 Project Name: MAD DOG 35 CN STATE COM 1H
 Project Number: 19556
 Project Location: MEWBOURNE 32.267701,-103.442802

Sampling Date: 01/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 71 @ 6 IN. (H240378-47)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/30/2024	ND	1.94	97.0	2.00	1.29	
Toluene*	<0.050	0.050	01/30/2024	ND	2.08	104	2.00	0.785	
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.08	104	2.00	0.578	
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.35	106	6.00	0.309	
Total BTEX	<0.300	0.300	01/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	01/29/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/30/2024	ND	213	106	200	4.20	
DRO >C10-C28*	386	10.0	01/30/2024	ND	219	110	200	3.85	
EXT DRO >C28-C36	118	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 85.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.4 % 49.1-148

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Analytical Results For:

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

Received: 01/29/2024
 Reported: 02/01/2024
 Project Name: MAD DOG 35 CN STATE COM 1H
 Project Number: 19556
 Project Location: MEWBOURNE 32.267701,-103.442802

Sampling Date: 01/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 72 @ 6 IN. (H240378-48)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/30/2024	ND	1.94	97.0	2.00	1.29	
Toluene*	<0.050	0.050	01/30/2024	ND	2.08	104	2.00	0.785	
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.08	104	2.00	0.578	
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.35	106	6.00	0.309	
Total BTEX	<0.300	0.300	01/30/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	01/29/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/30/2024	ND	213	106	200	4.20	
DRO >C10-C28*	360	10.0	01/30/2024	ND	219	110	200	3.85	
EXT DRO >C28-C36	116	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 87.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/29/2024
 Reported: 02/01/2024
 Project Name: MAD DOG 35 CN STATE COM 1H
 Project Number: 19556
 Project Location: MEWBOURNE 32.267701,-103.442802

Sampling Date: 01/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 73 @ 6 IN. (H240378-49)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/30/2024	ND	1.94	97.0	2.00	1.29		
Toluene*	<0.050	0.050	01/30/2024	ND	2.08	104	2.00	0.785		
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.08	104	2.00	0.578		
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.35	106	6.00	0.309		
Total BTEX	<0.300	0.300	01/30/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	528	16.0	01/29/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/29/2024	ND	196	97.9	200	1.36	
DRO >C10-C28*	65.9	10.0	01/29/2024	ND	210	105	200	0.784	
EXT DRO >C28-C36	11.0	10.0	01/29/2024	ND					

Surrogate: 1-Chlorooctane 81.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.4 % 49.1-148

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Analytical Results For:

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

Received: 01/29/2024
 Reported: 02/01/2024
 Project Name: MAD DOG 35 CN STATE COM 1H
 Project Number: 19556
 Project Location: MEWBOURNE 32.267701,-103.442802

Sampling Date: 01/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 74 @ 6 IN. (H240378-50)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/30/2024	ND	1.94	97.0	2.00	1.29		
Toluene*	<0.050	0.050	01/30/2024	ND	2.08	104	2.00	0.785		
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.08	104	2.00	0.578		
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.35	106	6.00	0.309		
Total BTEX	<0.300	0.300	01/30/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	01/29/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/29/2024	ND	196	97.9	200	1.36	
DRO >C10-C28*	419	10.0	01/29/2024	ND	210	105	200	0.784	
EXT DRO >C28-C36	148	10.0	01/29/2024	ND					

Surrogate: 1-Chlorooctane 84.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/29/2024
 Reported: 02/01/2024
 Project Name: MAD DOG 35 CN STATE COM 1H
 Project Number: 19556
 Project Location: MEWBOURNE 32.267701,-103.442802

Sampling Date: 01/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 75 @ 6 IN. (H240378-51)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/30/2024	ND	1.94	97.0	2.00	1.29	
Toluene*	<0.050	0.050	01/30/2024	ND	2.08	104	2.00	0.785	
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.08	104	2.00	0.578	
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.35	106	6.00	0.309	
Total BTEX	<0.300	0.300	01/30/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	01/29/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/30/2024	ND	196	97.9	200	1.36	
DRO >C10-C28*	360	10.0	01/30/2024	ND	210	105	200	0.784	
EXT DRO >C28-C36	136	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 85.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/29/2024
 Reported: 02/01/2024
 Project Name: MAD DOG 35 CN STATE COM 1H
 Project Number: 19556
 Project Location: MEWBOURNE 32.267701,-103.442802

Sampling Date: 01/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 76 @ 6 IN. (H240378-52)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/30/2024	ND	1.94	97.0	2.00	1.29	
Toluene*	<0.050	0.050	01/30/2024	ND	2.08	104	2.00	0.785	
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.08	104	2.00	0.578	
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.35	106	6.00	0.309	
Total BTEX	<0.300	0.300	01/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	480	16.0	01/29/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/30/2024	ND	196	97.9	200	1.36	
DRO >C10-C28*	61.5	10.0	01/30/2024	ND	210	105	200	0.784	
EXT DRO >C28-C36	13.7	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 85.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.3 % 49.1-148

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Analytical Results For:

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

Received: 01/29/2024
 Reported: 02/01/2024
 Project Name: MAD DOG 35 CN STATE COM 1H
 Project Number: 19556
 Project Location: MEWBOURNE 32.267701,-103.442802

Sampling Date: 01/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 77 @ 6 IN. (H240378-53)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/30/2024	ND	1.94	97.0	2.00	1.29		
Toluene*	<0.050	0.050	01/30/2024	ND	2.08	104	2.00	0.785		
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.08	104	2.00	0.578		
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.35	106	6.00	0.309		
Total BTEX	<0.300	0.300	01/30/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	01/29/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/30/2024	ND	205	103	200	4.99	
DRO >C10-C28*	338	10.0	01/30/2024	ND	200	100	200	1.67	
EXT DRO >C28-C36	128	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 125 % 49.1-148

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Analytical Results For:

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

Received: 01/29/2024
 Reported: 02/01/2024
 Project Name: MAD DOG 35 CN STATE COM 1H
 Project Number: 19556
 Project Location: MEWBOURNE 32.267701,-103.442802

Sampling Date: 01/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 78 @ 6 IN. (H240378-54)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/30/2024	ND	1.94	97.0	2.00	1.29		
Toluene*	<0.050	0.050	01/30/2024	ND	2.08	104	2.00	0.785		
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.08	104	2.00	0.578		
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.35	106	6.00	0.309		
Total BTEX	<0.300	0.300	01/30/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	512	16.0	01/29/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/30/2024	ND	205	103	200	4.99	
DRO >C10-C28*	93.4	10.0	01/30/2024	ND	200	100	200	1.67	
EXT DRO >C28-C36	22.5	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 87.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.6 % 49.1-148

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Analytical Results For:

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

Received: 01/29/2024
 Reported: 02/01/2024
 Project Name: MAD DOG 35 CN STATE COM 1H
 Project Number: 19556
 Project Location: MEWBOURNE 32.267701,-103.442802

Sampling Date: 01/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 79 @ 6 IN. (H240378-55)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/30/2024	ND	2.12	106	2.00	2.89		
Toluene*	<0.050	0.050	01/30/2024	ND	2.13	106	2.00	2.97		
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.12	106	2.00	3.26		
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.50	108	6.00	2.66		
Total BTEX	<0.300	0.300	01/30/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	01/29/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/30/2024	ND	205	103	200	4.99	
DRO >C10-C28*	314	10.0	01/30/2024	ND	200	100	200	1.67	
EXT DRO >C28-C36	122	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 88.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Analytical Results For:

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

Received: 01/29/2024
 Reported: 02/01/2024
 Project Name: MAD DOG 35 CN STATE COM 1H
 Project Number: 19556
 Project Location: MEWBOURNE 32.267701,-103.442802

Sampling Date: 01/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 80 @ 6 IN. (H240378-56)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/30/2024	ND	2.12	106	2.00	2.89		
Toluene*	<0.050	0.050	01/30/2024	ND	2.13	106	2.00	2.97		
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.12	106	2.00	3.26		
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.50	108	6.00	2.66		
Total BTEX	<0.300	0.300	01/30/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	01/29/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/30/2024	ND	205	103	200	4.99	
DRO >C10-C28*	444	10.0	01/30/2024	ND	200	100	200	1.67	
EXT DRO >C28-C36	163	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 97.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/29/2024
 Reported: 02/01/2024
 Project Name: MAD DOG 35 CN STATE COM 1H
 Project Number: 19556
 Project Location: MEWBOURNE 32.267701,-103.442802

Sampling Date: 01/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 81 @ 6 IN. (H240378-57)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/30/2024	ND	2.12	106	2.00	2.89		
Toluene*	<0.050	0.050	01/30/2024	ND	2.13	106	2.00	2.97		
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.12	106	2.00	3.26		
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.50	108	6.00	2.66		
Total BTEX	<0.300	0.300	01/30/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	576	16.0	01/29/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/30/2024	ND	205	103	200	4.99	
DRO >C10-C28*	42.6	10.0	01/30/2024	ND	200	100	200	1.67	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 96.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/29/2024
 Reported: 02/01/2024
 Project Name: MAD DOG 35 CN STATE COM 1H
 Project Number: 19556
 Project Location: MEWBOURNE 32.267701,-103.442802

Sampling Date: 01/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 82 @ 6 IN. (H240378-58)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/30/2024	ND	2.12	106	2.00	2.89		
Toluene*	<0.050	0.050	01/30/2024	ND	2.13	106	2.00	2.97		
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.12	106	2.00	3.26		
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.50	108	6.00	2.66		
Total BTEX	<0.300	0.300	01/30/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	640	16.0	01/29/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/30/2024	ND	205	103	200	4.99	
DRO >C10-C28*	42.4	10.0	01/30/2024	ND	200	100	200	1.67	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 95.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/29/2024
 Reported: 02/01/2024
 Project Name: MAD DOG 35 CN STATE COM 1H
 Project Number: 19556
 Project Location: MEWBOURNE 32.267701,-103.442802

Sampling Date: 01/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 83 @ 6 IN. (H240378-59)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/29/2024	ND	2.20	110	2.00	1.44		
Toluene*	<0.050	0.050	01/29/2024	ND	2.19	109	2.00	1.45		
Ethylbenzene*	<0.050	0.050	01/29/2024	ND	2.17	109	2.00	1.99		
Total Xylenes*	<0.150	0.150	01/29/2024	ND	6.35	106	6.00	2.04		
Total BTEX	<0.300	0.300	01/29/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	01/29/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/30/2024	ND	205	103	200	4.99	
DRO >C10-C28*	288	10.0	01/30/2024	ND	200	100	200	1.67	
EXT DRO >C28-C36	105	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 92.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
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.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental				BILL TO				ANALYSIS REQUEST											
Project Manager: Lance Crenshaw				P.O. #:															
Address: 2617 W Marland Blvd				Company: <u>Mawbourn</u>															
City: Hobbs		State: NM		Zip: 88240		Attn: <u>Jeff Broom</u>													
Phone #: (575) 264-9884		Fax #:		Address:															
Project #: <u>19556</u>		Project Owner: <u>Mawbourn</u>		City: <u>Hobbs</u>															
Project Name: <u>Mad dog 35 CW station</u>				State: <u>NM</u> Zip: <u>88240</u>															
Project Location: <u>Rural Etnic NM</u>				Phone #:															
Sampler Name: <u>Dominic Casarez</u>				Fax #:															
FOR LAB USE ONLY																			
Lab I.D.		Sample I.D.		(G/RAB OR (C)OMP.	CONTAINERS	MATRIX				PRESERV.	SAMPLING		Chloride	PH	BTEX 8021				
						GROUNDWATER	WASTEWATER	SOIL	OIL		SLUDGE	OTHER :				ACID/BASE	ICE / COOL	OTHER :	DATE
<u>#240378</u>																			
<u>PC1</u>		<u>FL 33 @ 6 in</u>																	
<u>2</u>		<u>FL 34 @ 6 in</u>																	
<u>3</u>		<u>FL 35 @ 6 in</u>																	
<u>4</u>		<u>FL 36 @ 6 in</u>																	
<u>5</u>		<u>FL 37 @ 6 in</u>																	
<u>6</u>		<u>FL 38 @ 6 in</u>																	
<u>7</u>		<u>FL 39 @ 6 in</u>																	
<u>8</u>		<u>FL 40 @ 6 in</u>																	
<u>9</u>		<u>FL 41 @ 6 in</u>																	
<u>10</u>		<u>FL 42 @ 6 in</u>																	

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Relinquished By: <u>[Signature]</u>		Date: <u>12-29-24</u>		Received By: <u>[Signature]</u>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
Time: <u>0807</u>		Date:		Time:		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:	
Relinquished By:		Date:		Received By:		REMARKS: Email copy of COC and results to: PM@etechenv.com			
Time:		Date:		Time:					
Delivered By: (Circle One) <u>-1102</u>				Sample Condition		CHECKED BY:			
Sampler - UPS - Bus - Other: <u>#140</u>				Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		<u>[Signature]</u>			

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental				BILL TO				ANALYSIS REQUEST														
Project Manager: Lance Crenshaw				P.O. #:																		
Address: 2617 W Marland Blvd				Company: <u>Melbourne</u>																		
City: Hobbs		State: NM		Zip: 88240		Attn: <u>Jeff Broom</u>																
Phone #: (575) 264-9884		Fax #:				Address:																
Project #: <u>19551</u>		Project Owner: <u>Melbourne</u>				City:																
Project Name: <u>Mad dog 35 ch stat con 1H</u>				State: <u>NM</u>		Zip: <u>88240</u>																
Project Location: <u>Rural @ Eunice NM</u>				Phone #:																		
Sampler Name: <u>Dominic Casarez</u>				Fax #:																		
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING														
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	Chloride	TPH	BTEX 8021						
<u>4240378</u>																						
<u>DC 11</u>	<u>FL 43 @ 6 in</u>	<u>C</u>	<u>1</u>									<u>1-26</u>		<u>✓</u>	<u>✓</u>	<u>✓</u>						
<u>12</u>	<u>FL 44 @ 6 in</u>																					
<u>13</u>	<u>FL 45 @ 6 in</u>																					
<u>14</u>	<u>FL 46 @ 6 in</u>																					
<u>15</u>	<u>FL 47 @ 6 in</u>																					
<u>16</u>	<u>FL 48 @ 6 in</u>																					
<u>17</u>	<u>FL 49 @ 6 in</u>																					
<u>18</u>	<u>FL 50 @ 6 in</u>																					
<u>19</u>	<u>FL 51 @ 6 in</u>																					
<p>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</p>																						
Relinquished By: <u>[Signature]</u>				Date: <u>1-23-24</u>				Received By: <u>[Signature]</u>				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Phone #:						
Relinquished By: <u>[Signature]</u>				Date: <u>1-23-24</u>				Received By: <u>[Signature]</u>				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Fax #:						
<p>REMARKS: Email copy of COC and results to: PM@etechenv.com</p>																						
Delivered By: (Circle One)				Sample Condition				CHECKED BY:														
Sampler - UPS - Bus - Other: <u>-11.0- #140</u>				Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No				<u>[Signature]</u>														

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ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc. Project Manager: <i>Don Lane Coenshaw</i> Address: 2617 West Marland City: Hobbs State: NM Zip: 88240 Phone #: (575) 264-9884 Fax #: Project #: 1955C Project Owner: <i>Mowbourn</i> Project Name: <i>mid dog 35 ed State Com 1H</i> Project Location: <i>Rural EUNice Nm</i> Sampler Name: <i>Dominic Casarez</i>				BILL TO P.O. #: Company: <i>Mowbourn</i> Attn: <i>Jeff Brown</i> Address: City: <i>Hobbs</i> State: <i>NM</i> Zip: <i>88240</i> Phone #: Fax #:		ANALYSIS REQUEST <div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																			
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING																	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER	DATE	TIME											
<i>H240378</i>																									
<i>30</i>	<i>FL 66 @ 6 in</i>	<i>C1</i>											<i>1-26</i>		<i>✓</i>	<i>✓</i>	<i>✓</i>								
<i>31</i>	<i>FL 67 @ 6 in</i>																								
<i>32</i>	<i>FL 68 @ 6 in</i>																								
<i>33</i>	<i>FL 69 @ 6 in</i>																								
<i>34</i>	<i>FL 70 @ 6 in</i>																								
<i>35</i>	<i>FL 52 @ 6 in</i>																								
<i>36</i>	<i>FL 53 @ 6 in</i>																								
<i>37</i>	<i>FL 54 @ 6 in</i>																								
<i>38</i>	<i>FL 55 @ 6 in</i>																								
<i>39</i>	<i>FL 32 @ 6 in</i>																								

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Relinquished By: <i>[Signature]</i>	Date: <i>1-29-24</i>	Received By: <i>[Signature]</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Date:	Received By:	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Time:	Time:		REMARKS:	
Delivered By: (Circle One) <i>-1102</i> Sampler - UPS - Bus - Other: <i>#140</i>			Sample Condition Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Checked By: <i>[Signature]</i> (Initials)	

Please email copy of COC and results to pm@etechenv.com.



ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc. Project Manager: Lane Crenshaw Address: 2617 West Marland City: Hobbs State: NM Zip: 88240 Phone #: (575) 264-9884 Fax #: Project #: 19556 Project Owner: Merbourn Project Name: Mad dog 35 CN Skate Con 1H Project Location: Rural Emile NM Sampler Name: Dominic Cusver				BILL TO P.O. #: Company: Merbourn Attn: Jeff Broom Address: City: Hobbs State: NM Zip: 88240 Phone #: Fax #:				ANALYSIS REQUEST <div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>															
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING															
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER	DATE	TIME										
40 pc	SW1	C1										1-26											
41	SW2																						
42	NW3																						
43	NW4																						
44	EW5																						
45	WW5																						
46	WW6																						
47	FL 71 @ 6in																						
48	FL 72 @ 6in																						
49	FL 73 @ 6in																						

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Relinquished By:	Date: 1-29-24 Time: 0807	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No REMARKS:
Relinquished By:	Date:	Received By:	Add'l Phone #: Add'l Fax #:

Delivered By: (Circle One) **-11.02**
 Sampler - UPS - Bus - Other: **#140**
 Sample Condition: Cool ☒ Intact ☒
 Checked By:

Please email copy of COC and results to pm@etechenv.com.

FORM-006
Revision 1.0

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ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY¹ AND ANALYSIS REQUEST

BILL TO						ANALYSIS REQUEST													
Company Name: Etech Environmental & Safety Solutions, Inc.						P.O. #:													
Project Manager: Lane Crenshaw						Company: Mowbourn													
Address: 2617 West Marland						Attn: Jeff Brown													
City: Hobbs		State: NM		Zip: 88240		Address:													
Phone #: (575) 264-9884		Fax #:				City: Hobbs													
Project #: 19556		Project Owner: Mowbourn				State: NM Zip: 88240													
Project Name: Mad dog 35 CW State Com I/H						Phone #:													
Project Location: Rural Eunice						Fax #:													
Sampler Name: Dominic Casarez																			
FOR LAB USE ONLY				MATRIX	PRESERV.	SAMPLING													
Lab I.D.	Sample I.D.	(C)RAB OR (C)COMP. # CONTAINERS	GROUNDWATER WASTEWATER SOIL SLUDGE OTHER	ACID/BASE ICE / COOL OTHER	DATE	TIME	Chloride	TPH (8015M)	BTEX (8021B)										
H240378		C	I			1-26													
DC50	FL 74 @ 6in																		
51	FL 75 @ 6in																		
52	FL 76 @ 6in																		
53	FL 77 @ 6in																		
54	FL 78 @ 6in																		
55	FL 79 @ 6in																		
56	FL 80 @ 6in																		
57	FL 81 @ 6in																		
58	FL 82 @ 6in																		
59	FL 83 @ 6in																		
PLEASE NOTE: Liability and Damages: Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.																			
Relinquished By: [Signature]				Date: 1-29-24	Received By: S Rodriguez				Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Add'l Phone #:								
				Time: 1807					Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Add'l Fax #:								
Relinquished By:				Date:	Received By:				REMARKS:										
				Time:															
Delivered By: (Circle One)				Sample Condition		CHECKED BY:		Please email copy of COC and results to pm@etechenv.com.											
Sampler - UPS - Bus - Other: -110 = #140				Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		(Initials) SR													



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

February 04, 2024

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: MAD DOG 35 CN STATE COM 1H

Enclosed are the results of analyses for samples received by the laboratory on 02/02/24 14:20.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/02/2024
 Reported: 02/04/2024
 Project Name: MAD DOG 35 CN STATE COM 1H
 Project Number: 19556
 Project Location: MEWBOURNE 32.267701,-103.442802

Sampling Date: 02/02/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: WW 5 B (H240513-01)

TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/02/2024	ND	189	94.6	200	0.175	
DRO >C10-C28*	<10.0	10.0	02/02/2024	ND	190	95.0	200	0.725	
EXT DRO >C28-C36	<10.0	10.0	02/02/2024	ND					
Surrogate: 1-Chlorooctane	90.6 %	48.2-134							
Surrogate: 1-Chlorooctadecane	90.2 %	49.1-148							

Sample ID: WW 6 B (H240513-02)

TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/02/2024	ND	189	94.6	200	0.175	
DRO >C10-C28*	<10.0	10.0	02/02/2024	ND	190	95.0	200	0.725	
EXT DRO >C28-C36	<10.0	10.0	02/02/2024	ND					
Surrogate: 1-Chlorooctane	91.1 %	48.2-134							
Surrogate: 1-Chlorooctadecane	91.3 %	49.1-148							

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/02/2024
 Reported: 02/04/2024
 Project Name: MAD DOG 35 CN STATE COM 1H
 Project Number: 19556
 Project Location: MEWBOURNE 32.267701,-103.442802

Sampling Date: 02/02/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL 42 @ 1' (H240513-03)

TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/02/2024	ND	189	94.6	200	0.175	
DRO >C10-C28*	158	10.0	02/02/2024	ND	190	95.0	200	0.725	
EXT DRO >C28-C36	33.3	10.0	02/02/2024	ND					
Surrogate: 1-Chlorooctane	92.7 %	48.2-134							
Surrogate: 1-Chlorooctadecane	92.8 %	49.1-148							

Sample ID: FL 45 @ 1' (H240513-04)

TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/02/2024	ND	189	94.6	200	0.175	
DRO >C10-C28*	171	10.0	02/02/2024	ND	190	95.0	200	0.725	
EXT DRO >C28-C36	37.9	10.0	02/02/2024	ND					
Surrogate: 1-Chlorooctane	99.6 %	48.2-134							
Surrogate: 1-Chlorooctadecane	100 %	49.1-148							

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/02/2024
 Reported: 02/04/2024
 Project Name: MAD DOG 35 CN STATE COM 1H
 Project Number: 19556
 Project Location: MEWBOURNE 32.267701,-103.442802

Sampling Date: 02/02/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL 47 @ 1' (H240513-05)

TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/03/2024	ND	189	94.6	200	0.175	
DRO >C10-C28*	105	10.0	02/03/2024	ND	190	95.0	200	0.725	
EXT DRO >C28-C36	15.0	10.0	02/03/2024	ND					
Surrogate: 1-Chlorooctane	93.1 %	48.2-134							
Surrogate: 1-Chlorooctadecane	92.3 %	49.1-148							

Sample ID: FL 53 @ 1' (H240513-06)

TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/03/2024	ND	189	94.6	200	0.175	
DRO >C10-C28*	112	10.0	02/03/2024	ND	190	95.0	200	0.725	
EXT DRO >C28-C36	16.9	10.0	02/03/2024	ND					
Surrogate: 1-Chlorooctane	85.9 %	48.2-134							
Surrogate: 1-Chlorooctadecane	85.6 %	49.1-148							

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 6 of 6

Company Name: Etech Environmental & Safety Solutions, Inc. Project Manager: Lane Crenshaw Address: 2617 West Marland City: Hobbs State: NM Zip: 88240 Phone #: (575) 264-9884 Fax #: Project #: 19556 Project Owner: Mewbourn Project Name: Mad Dog 35 CN State Cam 1H Project Location: Rural Eunice NM Sampler Name: Dominic Casarez				BILL TO P.O. #: Company: Mewbourn Attn: Jeff Broom Address: City: Hobbs State: NM Zip: 88240 Phone #: Fax #:				ANALYSIS REQUEST																	
FOR LAB USE ONLY		MATRIX		PRESERV.		SAMPLING		Chloride		TPH (8015M)		BTEX (8021B)													
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		SLUDGE		OTHER		ACID/BASE		ICE / COOL		DATE		TIME	
1240513		DC 1 WWS B		C 1																		2-2			
2 WWS B																									
3 FL 42 @ 1'																									
4 FL 45 @ 1'																									
5 FL 47 @ 1'																									
6 FL 53 @ 1'																									

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Relinquished By: Relinquished By: Date: 2/2/24 Time: 14:20 Date: Time:	Received By: Received By: Date: Time:	Phone Result: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: Fax Result: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #: REMARKS: Built analytical to Mewbourn rush charge to ETECH Please email copy of COC and results to pm@etechenv.com. rush (24 hr)
---	--	--

Delivered By: (Circle One) **Sample Condition** **CHECKED BY:**
 Cooler Intact (Initials)
 [X] Yes [X] Yes [X] Yes
 [] No [] No [] No

FORM-006
Revision 1.0

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476

Appendix E

Regulatory Correspondence

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Monday, January 15, 2024 2:28 PM
To: Connor Walker <cwalker@mewbourne.com>
Subject: [EXT] The Oil Conservation Division (OCD) has accepted the application, Application ID: 303655

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#) nAPP2400929341.

The sampling event is expected to take place:

When: 01/18/2023 @ 08:00

Where: C-35-23S-34E 0 FNL 0 FEL (32.267571,-103.442833)

Additional Information: Sample tech: Dominic Casarez

Phone: 432-813-1036, dominic@etechnv.com

Additional Instructions: Directions to release: From the intersection of Shell Rd and Antelope Rd (GPS: 32.257402, -103.472367), head N on Antelope Rd for 0.75 mi, then E for 1.68 mi, then S for 0.01 mi, then SE for 0.05 mi to arrive at the Mad Dog 35 CN State Com 1H release area (GPS: 32.267701, -103.442802).

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

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

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

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

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

Sent: Monday, June 3, 2024 3:39 PM

To: Connor Walker <cwalker@mewbourne.com>

Subject: [EXT] The Oil Conservation Division (OCD) has rejected the application, Application ID: 325796

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

The OCD has rejected the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2400929341, for the following reasons:

- **The depth to groundwater has not been adequately determined. When nearby wells are used to determine depth to groundwater, the wells should be no further than ½ mile away from the site, and data should be no more than 25 years old, and well construction information should be provided in the submission. The responsible party may choose to remediate to the most stringent levels listed in Table 1 of 19.15.29 NMAC in lieu of drilling to determine the depth to groundwater.**

The rejected C-141 can be found in the OCD Online: Permitting - Action Status, under the Application ID: 325796.

Please review and make the required correction(s) prior to resubmitting.

If you have any questions why this application was rejected or believe it was rejected in error, please contact me prior to submitting an additional C-141.

Thank you,

Scott Rodgers

Environmental Specialist - A

505-469-1830

scott.rodgers@emnrd.nm.gov

New Mexico Energy, Minerals and Natural Resources Department

1220 South St. Francis Drive

Santa Fe, NM 87505

From: Connor Walker <cwalker@mewbourne.com>

Sent: Thursday, June 6, 2024 10:45 AM

To: Rodgers, Scott, EMNRD <scott.rodgers@emnrd.nm.gov>

Subject: FW: [EXT] The Oil Conservation Division (OCD) has rejected the application,
Application ID: 325796

Scott,

Thank you for reviewing this report. I do believe groundwater is very deep here, and our closest well that we included was from the NMOCD imaging system showing that the OSE estimated ground water depth to be 109' in the area. This well was ~0.6 miles away, and in the past we have had wells of that distance approved as a depth to groundwater determination.

However, we are scheduling a soil bore machine to advance a borehole on our battery pad to determine groundwater and will submit a subsequent report once we have our drill report and gauge the bore.

Please let me know if you have any questions or need anything else from me.

Thank you,

Connor Walker

Sr. Engineer

Phone: 806-202-5281

Email:

cwalker@mewbourne.com



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

General Information
Phone: (505) 629-6116

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

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

QUESTIONS

Action 516320

QUESTIONS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 516320
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2400929341
Incident Name	NAPP2400929341 MAD DOG 35 CN ST COM #1H BATTERY @ FAPP2125757237
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Facility	[fAPP2125757237] MAD DOG 35 CN ST COM #1H BATTERY

Location of Release Source

Please answer all the questions in this group.

Site Name	MAD DOG 35 CN ST COM #1H BATTERY
Date Release Discovered	12/27/2023
Surface Owner	Private

Incident Details

Please answer all the questions in this group.

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

Nature and Volume of Release

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

Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure Tank (Any) Produced Water Released: 750 BBL Recovered: 720 BBL Lost: 30 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)	The release was caused by a corroded bull plug in the bottom of a 750 bbl capacity Gun Barrel, that was drained during the release. Once the release was discovered, vacuum trucks were used to drain the secondary containment, as the fluid was coming out of the gun barrel. The volume calculation above reflects the area outside of secondary containment that was affected by the release.

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

QUESTIONS, Page 2

Action 516320

QUESTIONS (continued)

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 516320
	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.
<i>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.</i>	

Initial Response

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

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

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

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

I hereby agree and sign off to the above statement	Name: Jeff Broom Title: Environmental Rep Email: jbroom@mewbourne.com Date: 10/16/2025
--	---

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

QUESTIONS, Page 3

Action 516320

QUESTIONS (continued)

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 516320
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization	
<i>Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	Direct Measurement
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1000 (ft.) and ½ (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 ½ and 1 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1000 (ft.) and ½ (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between 1000 (ft.) and ½ (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

Remediation Plan	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	3800
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	6070
GRO+DRO (EPA SW-846 Method 8015M)	5050
BTEX (EPA SW-846 Method 8021B or 8260B)	0.3
Benzene (EPA SW-846 Method 8021B or 8260B)	0
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
On what estimated date will the remediation commence	01/16/2024
On what date will (or did) the final sampling or liner inspection occur	02/02/2024
On what date will (or was) the remediation complete(d)	02/05/2024
What is the estimated surface area (in square feet) that will be reclaimed	6378
What is the estimated volume (in cubic yards) that will be reclaimed	945
What is the estimated surface area (in square feet) that will be remediated	10288
What is the estimated volume (in cubic yards) that will be remediated	460
<i>These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.</i>	
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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Oil Conservation Division
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QUESTIONS, Page 4

Action 516320

QUESTIONS (continued)

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 516320
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	fJEG1635837366 OWL LANDFILL JAL
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)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Jeff Broom Title: Environmental Rep Email: jbroom@mewbourne.com Date: 10/16/2025
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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

General Information
Phone: (505) 629-6116

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

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

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Action 516320

QUESTIONS (continued)

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QUESTIONS

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

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Action 516320

QUESTIONS (continued)

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QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	303655
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	01/18/2023
What was the (estimated) number of samples that were to be gathered	80
What was the sampling surface area in square feet	9690

Remediation Closure Request	
<i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	10288
What was the total volume (cubic yards) remediated	460
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	3910
What was the total volume (in cubic yards) reclaimed	178
Summarize any additional remediation activities not included by answers (above)	This is a resubmittal on release originally denied due to insufficient groundwater data. Information has been updated and included in attached closure request.
<i>The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.	
I hereby agree and sign off to the above statement	Name: Jeff Broom Title: Environmental Rep Email: jbroom@mewbourne.com Date: 10/16/2025

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Action 516320

QUESTIONS (continued)

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QUESTIONS

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

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CONDITIONS

Action 516320

CONDITIONS

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CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	Remediation has met 19.15.29 NMAC requirements. Soil impacts exceeding the reclamation standards have been left in place and are required to meet 19.15.29.13D (1) NMAC once the site is no longer reasonably needed for production or subsequent drilling operations.	12/3/2025