

Incident ID	nAPP2236031213
District RP	
Facility ID	
Application ID	

## Closure

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

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

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

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

Printed Name: Connor Walker Title: Sr. Engineer  
 Signature:  Date: 4/25/2023  
 email: cwalker@mewbourne.com Telephone: (806)202-5281

**OCD Only**

Received by: Robert Hamlet Date: 9/13/2023

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

Closure Approved by:  Date: 9/13/2023  
 Printed Name: Robert Hamlet Title: Environmental Specialist - Advanced

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## Site Assessment/Characterization

*This information must be provided to the appropriate district office no later than 90 days after the release discovery date.*

What is the shallowest depth to groundwater beneath the area affected by the release?	25 (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

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

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

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within 1/2-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

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

State of New Mexico  
Oil Conservation Division

Page 4

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Printed Name: Connor Walker Title: Sr. Engineer

Signature:  Date: 4/25/2023

email: cwalker@mewbourne.com Telephone: (806)202-5281

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

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## Closure

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

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

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

Printed Name: Connor Walker Title: Sr. Engineer  
 Signature:  Date: 4/25/2023  
 email: cwalker@mewbourne.com Telephone: (806)202-5281

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

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

Closure Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_

## Remediation Summary & Soil Closure Request

### Mewbourne Oil Company Apollo Yardbirds Frac Line

Eddy County, New Mexico  
Unit Letter "A", Section 3, Township 24 South, Range 28 East  
Latitude 32.2527570 North, Longitude 104.068384 West  
NMOCD Reference No. nAPP2236031213

Prepared By:

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

  
Ben J. Arguijo

  
Lance Crenshaw



Midland • San Antonio • Lubbock • Hobbs • Lafayette

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### 1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Mewbourne Oil Company, has prepared this *Remediation Summary & Soil Closure Request* for the release site known as the Apollo Yardbirds Frac Line (henceforth, "Yardbirds"). Details of the release are summarized below:

<b>Location of Release Source</b>				
Latitude: <u>32.2527570</u>		Longitude: <u>-104.0683840</u>		
Provided GPS are in WGS84 format.				
Site Name: <u>Apollo Yardbirds Frac Line</u>		Site Type: <u>Pipeline</u>		
Date Release Discovered: <u>12/15/2022</u>		API # (if applicable): <u>N/A</u>		
Unit Letter	Section	Township	Range	County
"A"	3	24S	28E	Eddy
Surface Owner: <input type="checkbox"/> State <input type="checkbox"/> Federal <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Private (Name <u>George Stribling</u> )				
<b>Nature and Volume of Release</b>				
<input type="checkbox"/> Crude Oil	Volume Released (bbls)		Volume Recovered (bbls)	
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) <u>287</u>		Volume Recovered (bbls) <u>130</u>	
Is the concentration of total dissolved solids (TDS) in the produced water > 10,000 mg/L?			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
<input type="checkbox"/> Condensate	Volume Released (bbls)		Volume Recovered (bbls)	
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)		Volume Recovered (Mcf)	
<input type="checkbox"/> Other (describe)	Volume/Weight Released		Volume/Weight Recovered	
Cause of Release: A lay-flat water transfer line failed and came apart at a connection.				
<b>Initial Response</b>				
<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Release materials have been contained via the use of berms or dikes, absorbent pad, or other containment devices <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.				

Previously submitted portions of the NMOCD Form C-141 are available in the NMOCD Imaging System.

## 2.0 SITE CHARACTERIZATION

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

What is the shallowest depth to groundwater beneath the area affected by the release?	25'	
Did the release impact groundwater or surface water?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of any occupied permanent residence, school, hospital, institution or church?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within the incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production or storage site?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

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

## 3.0 CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE

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

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

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

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

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

## 4.0 INITIAL SITE ASSESSMENT

On January 10, 2023, an initial site assessment was conducted by a third-party environmental contractor that is no longer affiliated with the release. During the initial site assessment, a series of hand-augered soil bores and/or test trenches were advanced within and along the inferred margins of the release in an effort to determine the horizontal and vertical extent of impacted soil. During the advancement of the hand-augered soil bores/test trenches, soil samples were collected and field-screened for the presence of Volatile Organic Compounds utilizing olfactory/visual senses and/or concentrations of chloride utilizing a field titration test kit. Based on field observations and field test data, additional delineation and/or excavation of the release was required.

The locations of the delineation sample points are depicted in the aerial map provided in Appendix B.

In February 2023, Mewbourne Oil Services contracted Etech to assume remediation activities for the Yardbirds release.

## 5.0 REMEDIATION ACTIVITIES SUMMARY

On March 10, 2023, remediation activities commenced at the Yardbirds release site. In accordance with NMOCD regulatory guidelines, impacted soil affected above the NMOCD Closure Criteria and NMOCD Reclamation Standards was excavated and stockpiled on-site, pending transfer to an NMOCD-permitted surface waste facility for disposal. Olfactory/visual senses and/or a chloride test kit were utilized to field-screen the horizontal and vertical extent of impacted soil and to guide the excavation. The sidewalls and floors of the excavation were advanced until field tests and field observations suggested BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards. Representative five-point composite confirmation soil samples were collected every 200 square feet from the sidewalls and floor of the excavated area to be submitted for laboratory analysis.

On March 6, 2023, Etech collected five (5) confirmation soil samples (EW1, SW1, FL 1 @ 6', FL 2 @ 6', and FL 3 @ 6') 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 BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory method detection limit (MDL). Chloride concentrations ranged from 64.0 mg/kg in soil sample EW1 to 224 mg/kg in soil sample FL 2 @ 6'.

On March 9, 2023, Etech collected 11 confirmation soil samples (NW1, NW2, SW2, SW3, and FL 4 @ 6' through FL 10 @ 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 BTEX and TPH concentrations were below the applicable NMOCD Closure Criteria, NMOCD Reclamation Standards, and laboratory MDL in each of the submitted soil samples. Chloride concentrations ranged from 32.0 mg/kg in soil samples SW2, FL 9 @ 6', and FL 10 @ 6' to 752 mg/kg in soil samples SW3 and FL 7 @ 6', which exceeded the NMOCD Closure Criterion.

On March 13, 2023, Etech collected five (5) confirmation soil samples (WW1 and FL 11 @ 6' through FL 14 @ 7') 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 BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL. Chloride concentrations ranged from 112 mg/kg in soil sample FL 14 @ 7' to 480 mg/kg in soil samples WW1 and FL 13 @ 7'.

On March 14, 2023, Etech collected four (4) confirmation soil samples (NW3, FL 15 @ 7', FL 16 @ 7', and FL 17 @ 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 BTEX and TPH concentrations were below the applicable NMOCD Closure Criteria, NMOCD Reclamation Standards, and laboratory MDL in each of the submitted soil samples. Chloride concentrations ranged from 64.0 mg/kg in soil sample FL 16 @ 7' to 2,800 mg/kg in soil sample NW3, which exceeded the NMOCD Closure Criterion.

On March 15, 2023, Etech collected three (3) confirmation soil samples (EW2, SW4, and FL 19 @ 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 BTEX and TPH concentrations were below the applicable NMOCD Closure Criteria, NMOCD Reclamation Standards, and laboratory MDL in each of the submitted soil samples. Chloride concentrations ranged from 128 mg/kg in soil sample EW2 to 1,330 mg/kg in soil sample SW4. Chloride concentrations exceeded the NMOCD Closure Criterion in soil samples SW4 and FL 19 @ 6'.

On March 16, 2023, based on laboratory analytical results, the excavation was further advanced in the areas characterized by soil samples SW3 and FL 7 @ 7'. Etech collected three (3) confirmation soil samples (SW3 B, FL 7 @ 7', and FL 18 @ 7') 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 BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL. Chloride concentrations ranged from 64.0 mg/kg in soil sample FL 7 @ 7' to 160 mg/kg in soil sample FL 18 @ 7'.

On March 17, 2023, based on laboratory analytical results, the excavation was further advanced in the area characterized by soil sample NW3. Etech collected four (4) confirmation soil samples (NW3 B, FL 20 @ 8', FL 21 @ 6', and FL 22 @ 5') 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 BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL. Chloride concentrations ranged from 64.0 mg/kg in soil samples FL 21 @ 6' and FL 22 @ 5' to 256 mg/kg in soil sample FL 20 @ 8'.

On March 20, 2023, Etech collected four (4) confirmation soil samples (FL 23 @ 6' through FL 26 @ 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 BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL. Chloride concentrations ranged from 64.0 mg/kg in soil sample FL 23 @ 6' to 112 mg/kg in soil sample FL 25 @ 6'.

On March 21, 2023, Etech collected four (4) confirmation soil samples (NW4, FL 27 @ 6', FL 28 @ 6', and FL 29 @ 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 BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL. Chloride concentrations ranged from 32.0 mg/kg in soil samples NW4 and FL 27 @ 6' to 144 mg/kg in soil sample FL 28 @ 6'.

On March 22, 2023, based on laboratory analytical results, the excavation was further advanced in the area characterized by soil samples SW4 and FL 19 @ 6'. Etech collected six (6) confirmation soil samples (SW4 B, SW5, FL 19 @ 6 1/2', FL 30 @ 6', FL 31 @ 8', and FL 32 @ 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 BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL. Chloride concentrations ranged from 32.0 mg/kg in soil samples SW4 B and FL 30 @ 6' to 304 mg/kg in soil sample SW5.

On March 23, 2023, Etech collected five (5) confirmation soil samples (EW3, SW6, FL 33 @ 6', FL 34 @ 6', and FL 35 @ 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 BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL. Chloride concentrations ranged from 96.0 mg/kg in soil sample FL 35 @ 6' to 320 mg/kg in soil sample EW3.

On March 27, 2023, Etech collected eight (8) confirmation soil samples (NW5, NW6, SW7, WW2, WW3, FL 36 @ 4', FL 37 @ 2', and FL 38 @ 1') 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 BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL. Chloride concentrations ranged from less than the laboratory MDL in soil samples SW7, FL 36 @ 4', FL 37 @ 2', and FL 38 @ 1 to 272 mg/kg in soil sample NW5.

The final dimensions of the excavated area were approximately 428 feet in length, 24 to 86 feet in width, and one (1) to eight (8) feet in depth. During the course of remediation activities, Etech transported approximately 6,518 cubic yards of impacted soil to an NMOCD-permitted surface waste facility for disposal and imported approximately 6,912 cubic yards of locally sourced, non-impacted material to the site for use as backfill.

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

## **6.0 RESTORATION, RECLAMATION & RE-VEGETATION PLAN**

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

## **7.0 SOIL CLOSURE REQUEST**

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

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

## **8.0 LIMITATIONS**

Etech Environmental & Safety Solutions, Inc., has prepared this *Remediation Summary & Soil Closure Request* to the best of its ability. No other warranty, expressed or implied, is made or intended. Etech has examined and relied upon documents referenced in the report and on oral statements made by certain individuals. Etech has not conducted an independent examination of the facts contained in referenced materials and statements. Etech has presumed the genuineness of these documents and statements and that the information provided therein is true and accurate. Etech has prepared the report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Etech notes that the facts and conditions referenced in this report may change over time, and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

This report has been prepared for the benefit of Mewbourne Oil Company. Use of the information contained in this report is prohibited without the consent of Etech and/or Mewbourne Oil Company.

## 9.0 DISTRIBUTION

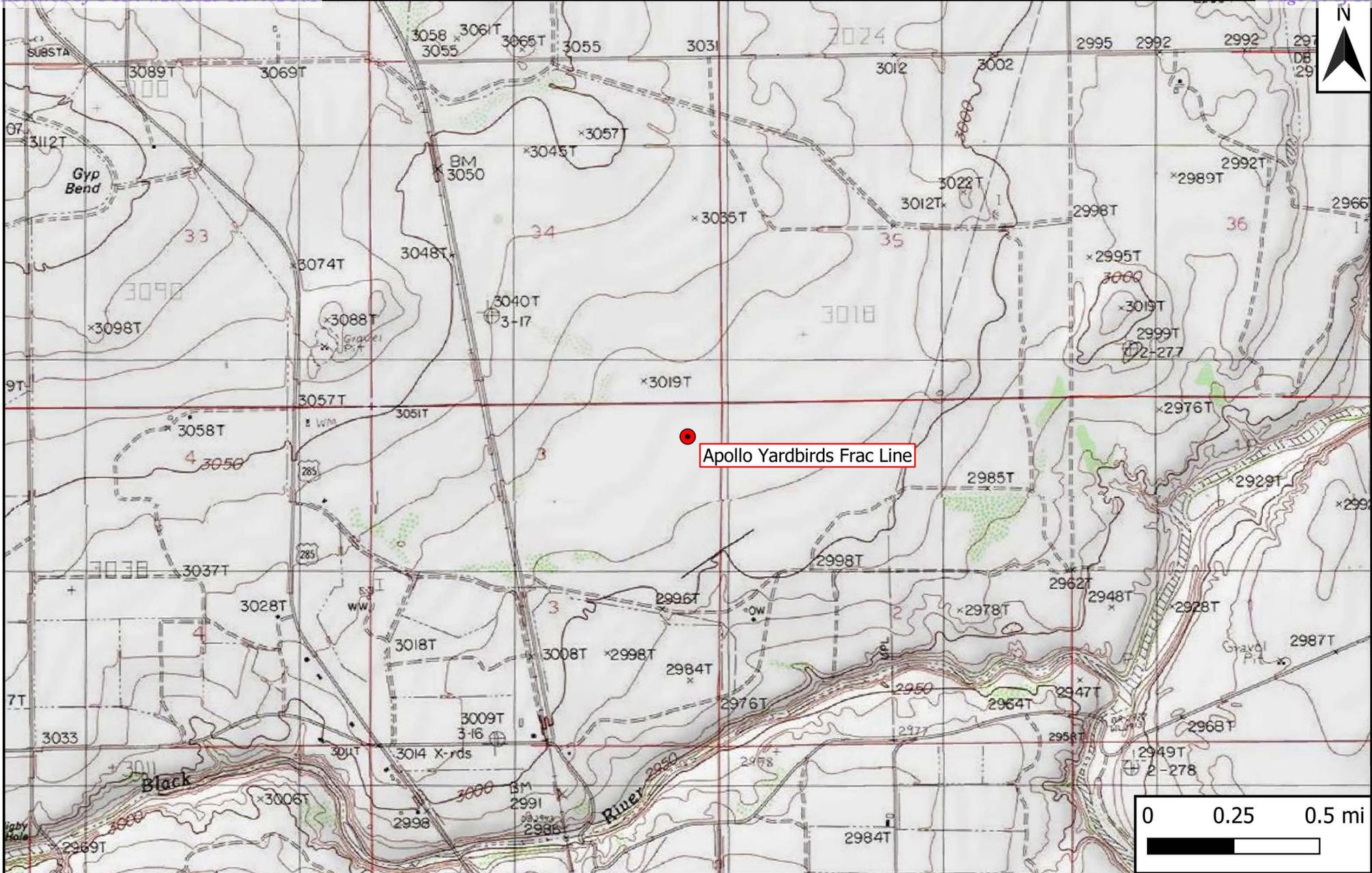
***Mewbourne Oil Company***  
*4801 Business Park Blvd.*  
*Hobbs, NM 88240*

***New Mexico Energy, Minerals and Natural Resources Department***  
*Oil Conservation Division, District 2*  
*811 S. First Street*  
*Artesia, NM 88210*

*(Electronic Submission)*

# **Figure 1**

## **Topographic Map**



Legend  
 ● Site Location

**Figure 1**  
 Topographic Map  
 Mewbourne Oil Company  
 Apollo Yardbirds Frac Line  
 GPS: 32.252757, -104.068384  
 Eddy County, New Mexico



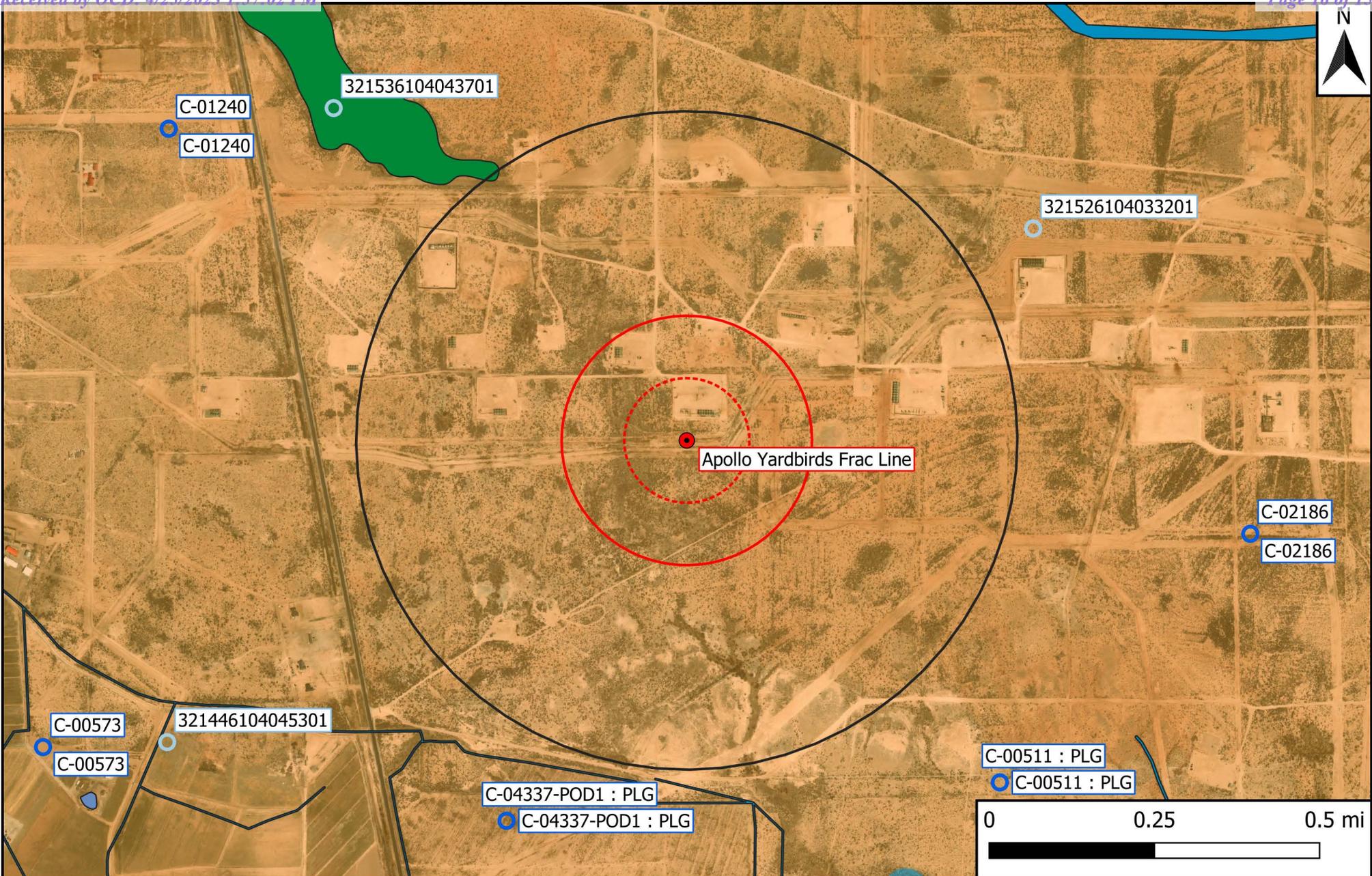
Drafted: bja

Checked: lc

Date: 3/12/23

## **Figure 2**

### **Site Characterization Map**



Legend

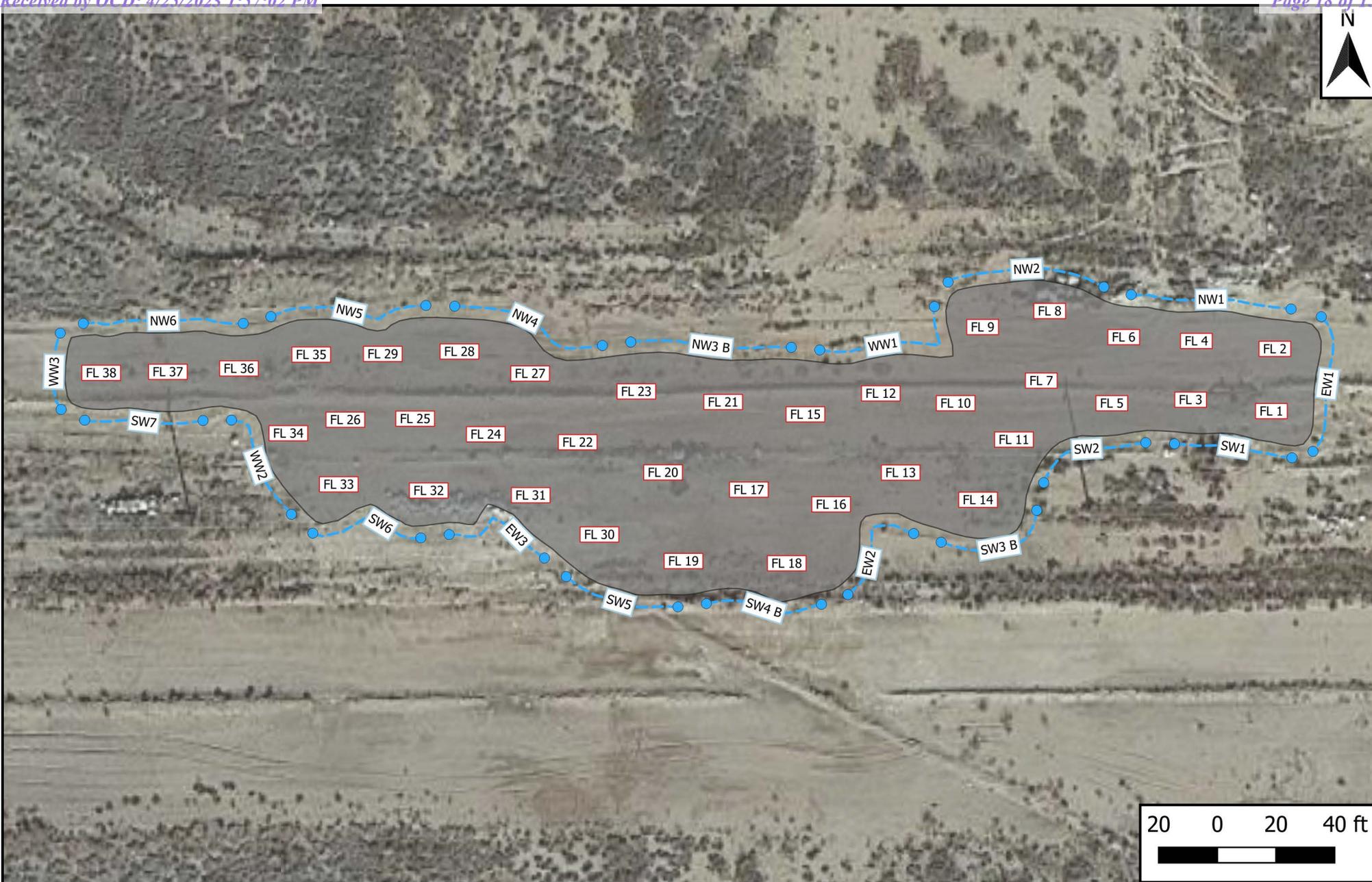
- Site Location
- Well - NMOSE
- Well - USGS
- Well - Exploratory/Monitor
- Potash Mine Workings
- 1% Annual Flood Chance
- Emergent/Forested Wetlands
- Freshwater Pond/Lake
- Karst Potential (Low/Med./High)
- Riverine
- 500-Ft Radius
- 1,000-Ft Radius
- 0.5-Mi Radius
- Municipal Boundary

**Figure 2**

Site Characterization Map  
 Mewbourne Oil Company  
 Apollo Yardbirds Frac Line  
 GPS: 32.252757, -104.068384  
 Eddy County, New Mexico



## **Figure 3 Site & Sample Location Map**



- Legend
- Excavation Extent
  - Composite Wall Sample
  - Composite Floor Sample

**Figure 3**  
 Site & Sample Location Map  
 Mewbourne Oil Company  
 Apollo Yardbirds Frac Line  
 GPS: 32.252757, -104.068384  
 Eddy County, New Mexico



Drafted: bja

Checked: lc

Date: 4/24/23

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

Table 1 Concentrations of BTEX, TPH & Chloride in Soil Mewbourne Oil Company Apollo Yardbirds Frac Line NMOCD Ref. #: nAPP2236031213											
NMOCD Closure Criteria				10	50	N/A	N/A	N/A	N/A	100	600
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 <sub>6</sub> -C <sub>10</sub> (mg/kg)	DRO C <sub>10</sub> -C <sub>28</sub> (mg/kg)	GRO + DRO C <sub>6</sub> -C <sub>28</sub> (mg/kg)	ORO C <sub>28</sub> -C <sub>36</sub> (mg/kg)	TPH C <sub>6</sub> -C <sub>36</sub> (mg/kg)	Chloride (mg/kg)
NW1	3/9/2023	0.5-5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	560
NW2	3/9/2023	0.5-5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	560
NW3	3/14/2023	0.5-6.5	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<b>2,800</b>
NW3 B	3/17/2023	0.5-6.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
NW4	3/21/2023	0.5-5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
NW5	3/27/2023	0.5-5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
NW6	3/27/2023	0.5-3.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
EW1	3/6/2023	0.5-5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
EW2	3/15/2023	0.5-6.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
EW3	3/23/2023	0.5-7.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
SW1	3/6/2023	0.5-5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
SW2	3/9/2023	0.5-5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SW3	3/9/2023	0.5-6.5	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<b>752</b>
SW3 B	3/16/2023	0.5-6.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
SW4	3/15/2023	0.5-6.5	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<b>1,330</b>
SW4 B	3/22/2023	0.5-6.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SW5	3/22/2023	0.5-6.0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
SW6	3/23/2023	0.5-5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
SW7	3/27/2023	0.5-3.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
WW1	3/13/2023	0.5-7.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	480
WW2	3/27/2023	0.5-5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
WW3	3/27/2023	0-1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 1 @ 6'	3/6/2023	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FL 2 @ 6'	3/6/2023	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
FL 3 @ 6'	3/6/2023	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 4 @ 6'	3/9/2023	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FL 5 @ 6'	3/9/2023	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	496
FL 6 @ 6'	3/9/2023	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	544
FL 7 @ 6'	3/9/2023	6	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<b>752</b>
FL 7 @ 7'	3/16/2023	7	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 8 @ 6.5'	3/9/2023	6.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	560
FL 9 @ 6'	3/9/2023	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 10 @ 6'	3/9/2023	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 11 @ 6'	3/13/2023	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
FL 12 @ 8'	3/13/2023	8	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	400
FL 13 @ 7'	3/13/2023	7	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	480
FL 14 @ 7'	3/13/2023	7	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL 15 @ 7'	3/14/2023	7	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL 16 @ 7'	3/14/2023	7	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 17 @ 6'	3/14/2023	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL 18 @ 7'	3/16/2023	7	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 19 @ 6'	3/15/2023	6	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<b>1,200</b>

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

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

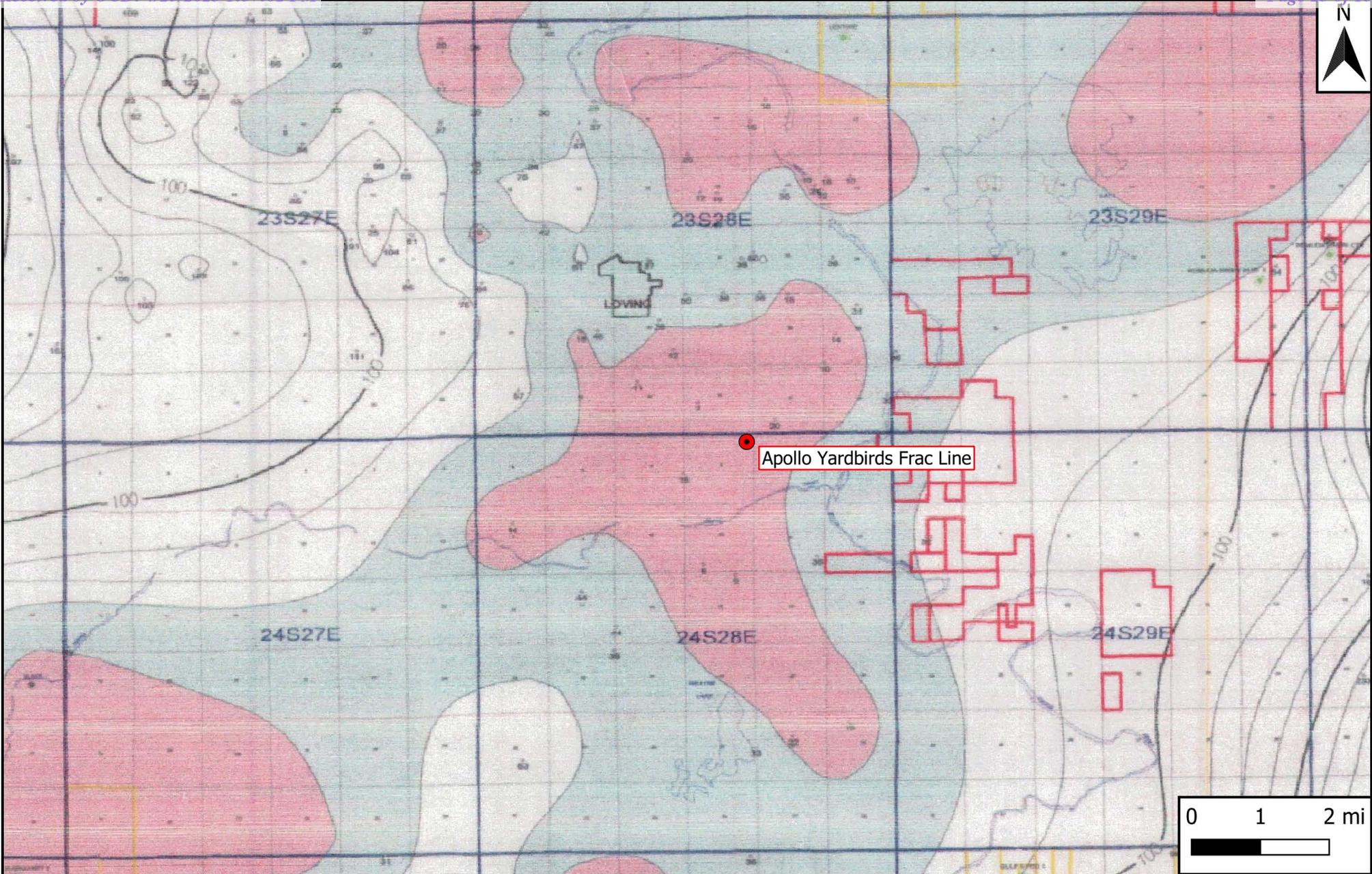
Table 1 Concentrations of BTEX, TPH & Chloride in Soil Mewbourne Oil Company Apollo Yardbirds Frac Line NMOCD Ref. #: nAPP2236031213												
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Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl	
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C <sub>6</sub> -C <sub>10</sub> (mg/kg)	DRO C <sub>10</sub> -C <sub>28</sub> (mg/kg)	GRO + DRO C <sub>6</sub> -C <sub>28</sub> (mg/kg)	ORO C <sub>28</sub> -C <sub>36</sub> (mg/kg)	TPH C <sub>6</sub> -C <sub>36</sub> (mg/kg)	Chloride (mg/kg)	
FL 19 @ 6 1/2'	3/22/2023	6.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224	
FL 20 @ 8'	3/17/2023	8	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256	
FL 21 @ 6'	3/17/2023	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0	
FL 22 @ 5'	3/17/2023	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0	
FL 23 @ 6'	3/20/2023	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0	
FL 24 @ 6'	3/20/2023	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0	
FL 25 @ 6'	3/20/2023	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112	
FL 26 @ 6'	3/20/2023	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0	
FL 27 @ 6'	3/21/2023	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0	
FL 28 @ 6'	3/21/2023	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144	
FL 29 @ 6'	3/21/2023	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0	
FL 30 @ 6'	3/22/2023	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0	
FL 31 @ 8'	3/22/2023	8	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256	
FL 32 @ 6'	3/22/2023	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0	
FL 33 @ 6'	3/23/2023	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160	
FL 34 @ 6'	3/23/2023	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192	
FL 35 @ 6'	3/23/2023	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0	
FL 36 @ 4'	3/27/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0	
FL 37 @ 2'	3/27/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0	
FL 38 @ 1'	3/27/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0	

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

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

# **Appendix A**

## **Depth to Groundwater Information**



Legend  
 ● Site Location

**Figure 4**  
 Inferred Depth to Groundwater Trend Map  
 Mewbourne Oil Company  
 Apollo Yardbirds Frac Line  
 GPS: 32.252757, -104.068384  
 Eddy County, New Mexico



Drafted: bja

Checked: lc

Date: 3/12/23



# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

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

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

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

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
<a href="#">C 00318</a>	C	ED		2	4	4	34	23S	28E	587811	3569298*	468	150		
<a href="#">C 04337</a> POD1	CUB	ED		4	1	4	03	24S	28E	587317	3567907	1024	60		
<a href="#">C 00511</a>	C	ED		2	3	02	24S	28E	588518	3568001*	1128	268	140	128	
<a href="#">C 02186</a>	C	ED			2	02	24S	28E	589128	3568606*	1391	100	55	45	
<a href="#">C 01240</a>	C	ED		1	3	34	23S	28E	586494	3569592*	1472	125	25	100	

Average Depth to Water: **73 feet**  
 Minimum Depth: **25 feet**  
 Maximum Depth: **140 feet**

**Record Count: 5**

**UTMNAD83 Radius Search (in meters):**

**Easting (X):** 587755.53

**Northing (Y):** 3568833.21

**Radius:** 1610

\*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)				
<b>Well Tag</b>	<b>POD Number</b>	(quarters are smallest to largest)	<b>Q64</b>	<b>Q16</b>	<b>Q4</b>	<b>Sec</b>	<b>Tws</b>	<b>Rng</b>	<b>X</b>	<b>Y</b>
C	00318		2	4	4	34	23S	28E	587811	3569298*

<b>Driller License:</b>	<b>Driller Company:</b>	
<b>Driller Name:</b> SAM S. SMITH		
<b>Drill Start Date:</b>	<b>Drill Finish Date:</b>	<b>Plug Date:</b>
<b>Log File Date:</b>	<b>PCW Rev Date:</b>	<b>Source:</b>
<b>Pump Type:</b>	<b>Pipe Discharge Size:</b>	<b>Estimated Yield:</b>
<b>Casing Size:</b> 7.00	<b>Depth Well:</b> 150 feet	<b>Depth Water:</b>

\*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.

2/16/23 7:30 AM

POINT OF DIVERSION SUMMARY



# New Mexico Office of the State Engineer

## Transaction Summary

72121 All Applications Under Statute 72-12-1

**Transaction Number:** 198441      **Transaction Desc:** C 00318      **File Date:** 04/04/1952

**Primary Status:** EXP Expired Permit  
**Secondary Status:** EXP Expired  
**Person Assigned:** \*\*\*\*\*  
**Applicant:** CAVENDER & RICHARDSON  
**Applicant:** ALLAN K. RICHARDSON  
**Applicant:** BEN C. CAVENDER

**Events**

Date	Type	Description	Comment	Processed By
 04/04/1952	APP	Application Received	*	*****
04/18/1952	FIN	Final Action on application		*****
04/18/1952	WAP	General Approval Letter		*****
11/20/1954	EXP	Expired Permit (well log late)		*****
11/28/2000	RUB	Re-Update the WR Database		*****
06/11/2010	QAT	Quality Assurance Completed	XAP	*****
04/27/2011	ARV	Rec & Arch - file location	C 00318 Box: 1850	*****

**Change To:**

WR File Nbr	Acres	Diversions	Consumptive	Purpose of Use
C 00318		3		DOM 72-12-1 DOMESTIC ONE HOUSEHOLD
<b>**Point of Diversion</b>				
C 00318		587811	3569298*	

\*An (\*) after northing value indicates UTM location was derived from PLSS - see Help

**Remarks**

APPLICATION FOR EXTENSION OF TIME FILED 07-02-1953. APPROVED TO 01-20-1955.  
 ABSTRACTOR NOTE: NO COMPLETION OF WORKS OR WELL RECORD ON FILE WITH THE OFFICE OF THE STATE ENGINEER FOR THIS PERMIT.

**Conditions**

- 4 Use shall be limited to household, non-commercial trees, lawn and garden not to exceed one acre and/or stock use.

**Action of the State Engineer**

\*\* See Image For Any Additional Conditions of Approval \*\*

**Approval Code:** A - Approved  
**Action Date:** 04/18/1952

**Log Due Date:** 04/18/1953

**State Engineer:**

---

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.

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2/16/23 7:32 AM

TRANSACTION  
SUMMARY



# New Mexico Office of the State Engineer

## Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)							
		(quarters are smallest to largest)						(NAD83 UTM in meters)	
<b>Well Tag</b>	<b>POD Number</b>	<b>Q64</b>	<b>Q16</b>	<b>Q4</b>	<b>Sec</b>	<b>Tws</b>	<b>Rng</b>	<b>X</b>	<b>Y</b>
NA	C 04337 POD1	4	1	4	03	24S	28E	587317	3567907

<b>Driller License:</b> 1249	<b>Driller Company:</b> ATKINS ENGINEERING ASSOC. INC.	
<b>Driller Name:</b> JACKIE D ATKINS		
<b>Drill Start Date:</b> 07/09/2019	<b>Drill Finish Date:</b> 07/09/2019	<b>Plug Date:</b> 07/09/2019
<b>Log File Date:</b> 07/19/2019	<b>PCW Rev Date:</b>	<b>Source:</b> Shallow
<b>Pump Type:</b>	<b>Pipe Discharge Size:</b>	<b>Estimated Yield:</b>
<b>Casing Size:</b> 2.00	<b>Depth Well:</b> 60 feet	<b>Depth Water:</b>

<b>Water Bearing Stratifications:</b>	<b>Top</b>	<b>Bottom</b>	<b>Description</b>
	29	40	Shale/Mudstone/Siltstone
	40	60	Shale/Mudstone/Siltstone

<b>Casing Perforations:</b>	<b>Top</b>	<b>Bottom</b>
	50	60

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.

2/16/23 7:34 AM

POINT OF DIVERSION SUMMARY



# WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

[www.ose.state.nm.us](http://www.ose.state.nm.us)

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD 1		WELL TAG ID NO. n/a		OSE FILE NO(S). C-4337	
	WELL OWNER NAME(S) Matador Production Company (Cliff Humphreys)				PHONE (OPTIONAL) 972-371-5288	
	WELL OWNER MAILING ADDRESS One Lincoln Center, 5400 LBJ Freeway, Suite 1500				CITY Dallas	STATE ZIP TX 75240
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 14	SECONDS 39.99	* ACCURACY REQUIRED: ONE TENTH OF A SECOND	
		LONGITUDE -104	4	23.26	* DATUM REQUIRED: WGS 84	
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE SE/4 NW/4 SE/4 Section 3 T24S R28E, NMPM						

2. DRILLING & CASING INFORMATION	LICENSE NO. 1249	NAME OF LICENSED DRILLER Jackie D. Atkins			NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc			
	DRILLING STARTED 7/9/19	DRILLING ENDED 7/9/19	DEPTH OF COMPLETED WELL (FT) ±60	BORE HOLE DEPTH (FT) ±60	DEPTH WATER FIRST ENCOUNTERED (FT) --			
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input type="checkbox"/> DRY HOLE <input checked="" type="checkbox"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) 31.32'			
	DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Solid Stem Auger							
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0	50	±6	Temporary-2" Sch. 40 PVC Riser	Flush Thread 2 TPI	2.067	0.154	--
	50	60	±6	Temporary-2" Sch. 40 PVC Screen	Flush Thread 2 TPI	2.067	0.154	.010

3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
	FROM	TO				
	0	60	±6	Portland Type I/II Neat Cement	±10.3	through trennie

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/30/17)

FILE NO. C-4337	POD NO. 1	TRN NO. 653441
LOCATION 414 T24S R28E Sec 3	WELL TAG ID NO. NA	PAGE 1 OF 2





# 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)							
<b>Well Tag</b>	<b>POD Number</b>	<b>Q64</b>	<b>Q16</b>	<b>Q4</b>	<b>Sec</b>	<b>Tws</b>	<b>Rng</b>	<b>X</b>	<b>Y</b>
C	00511	2	3	02	24S	28E	588518	3568001*	

<b>Driller License:</b> 108	<b>Driller Company:</b> SMITH, SAM S.	
<b>Driller Name:</b> SMITH, SAM S.		
<b>Drill Start Date:</b> 10/04/1953	<b>Drill Finish Date:</b> 10/15/1953	<b>Plug Date:</b> 10/15/1954
<b>Log File Date:</b> 02/24/1954	<b>PCW Rev Date:</b>	<b>Source:</b> Shallow
<b>Pump Type:</b>	<b>Pipe Discharge Size:</b>	<b>Estimated Yield:</b>
<b>Casing Size:</b> 8.63	<b>Depth Well:</b> 268 feet	<b>Depth Water:</b> 140 feet

<b>Water Bearing Stratifications:</b>	<b>Top</b>	<b>Bottom</b>	<b>Description</b>
	145	155	Sandstone/Gravel/Conglomerate

<b>Casing Perforations:</b>	<b>Top</b>	<b>Bottom</b>
	138	168

\*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.

2/16/23 7:34 AM

POINT OF DIVERSION SUMMARY



# New Mexico Office of the State Engineer

## Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)				(NAD83 UTM in meters)
		(quarters are smallest to largest)				
<b>Well Tag</b>	<b>POD Number</b>	<b>Q64 Q16 Q4</b>	<b>Sec</b>	<b>Tws</b>	<b>Rng</b>	<b>X Y</b>
C	02186		2	02	24S 28E	589128 3568606*

<b>Driller License:</b>	1184	<b>Driller Company:</b>	WEST TEXAS WATER WELL SERVICE			
<b>Driller Name:</b>	ROBERT W. COLLIS					
<b>Drill Start Date:</b>	02/04/1990	<b>Drill Finish Date:</b>	02/04/1990	<b>Plug Date:</b>		
<b>Log File Date:</b>	02/13/1990	<b>PCW Rev Date:</b>		<b>Source:</b>	Shallow	
<b>Pump Type:</b>		<b>Pipe Discharge Size:</b>		<b>Estimated Yield:</b>	300 GPM	
<b>Casing Size:</b>	6.00	<b>Depth Well:</b>	100 feet	<b>Depth Water:</b>	55 feet	

Water Bearing Stratifications:	Top	Bottom	Description
	80	98	Other/Unknown

Casing Perforations:	Top	Bottom
	80	100

\*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.

2/16/23 7:34 AM

POINT OF DIVERSION SUMMARY



# New Mexico Office of the State Engineer

## Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)				(NAD83 UTM in meters)
		(quarters are smallest to largest)				
<b>Well Tag</b>	<b>POD Number</b>	<b>Q64 Q16 Q4</b>	<b>Sec</b>	<b>Tws</b>	<b>Rng</b>	<b>X Y</b>
C	01240	1 3 34	23S	28E	586494	3569592*

<b>Driller License:</b>	108	<b>Driller Company:</b>	SMITH, SAM S.			
<b>Driller Name:</b>	SMITH, SAM S.					
<b>Drill Start Date:</b>	10/01/1964	<b>Drill Finish Date:</b>	10/15/1964	<b>Plug Date:</b>		
<b>Log File Date:</b>	02/05/1965	<b>PCW Rev Date:</b>		<b>Source:</b>	Shallow	
<b>Pump Type:</b>		<b>Pipe Discharge Size:</b>		<b>Estimated Yield:</b>		
<b>Casing Size:</b>	7.00	<b>Depth Well:</b>	125 feet	<b>Depth Water:</b>	25 feet	

Water Bearing Stratifications:	Top	Bottom	Description
	25	35	Sandstone/Gravel/Conglomerate
	75	90	Sandstone/Gravel/Conglomerate

\*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.

2/16/23 7:34 AM

POINT OF DIVERSION SUMMARY

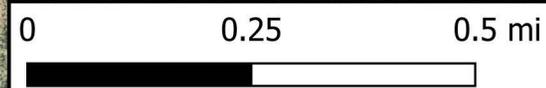


321536104043701  
Alluvium, Bolson Deposits  
2003/01/29: 14.84 ft

321526104033201  
Alluvium, Bolson Deposits  
1996/01/25: 20.44 ft

321446104045301  
Alluvium, Bolson Deposits  
2003/02/04: 25.43 ft

Apollo Yardbirds Frac Line



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

**Figure 5**  
 USGS Well Proximity Map  
 Mewbourne Oil Company  
 Apollo Yardbirds Frac Line  
 GPS: 32.252757, -104.068384  
 Eddy County, New Mexico





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Geographic Area: United States

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**Search Results -- 1 sites found**

Agency code = usgs

site\_no list =  
• 321526104033201

Minimum number of levels = 1

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

**USGS 321526104033201 23S.28E.35.341144**

Eddy County, New Mexico

Latitude 32°15'26", Longitude 104°03'32" NAD27

Land-surface elevation 3,016 feet above NAVD88

The depth of the well is 250 feet below land surface.

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

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

**Output formats**

[Table of data](#)

[Tab-separated data](#)

[Graph of data](#)

[Reselect period](#)

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1978-02-01			D 72019	21.45			1	Z			A
1983-01-26			D 72019	15.80			1	Z			A
1987-10-16			D 72019	15.59			1	Z			A
1993-02-02			D 72019	21.03			1	S			A
1995-07-18			D 72019	24.49			1	S			A
1996-01-25			D 72019	20.44			1	S			A

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	S	Steel-tape measurement.
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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**Title: Groundwater for USA: Water Levels**

**URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>**



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0.33 0.24 nadww01



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**Search Results -- 1 sites found**

Agency code = usgs

site\_no list =  
• 321536104043701

Minimum number of levels = 1

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**USGS 321536104043701 23S.28E.34.312234**

Eddy County, New Mexico

Latitude 32°15'36", Longitude 104°04'37" NAD27

Land-surface elevation 3,042 feet above NAVD88

The depth of the well is 125 feet below land surface.

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

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

**Output formats**

<a href="#">Table of data</a>
<a href="#">Tab-separated data</a>
<a href="#">Graph of data</a>
<a href="#">Reselect period</a>

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1978-02-01			D 72019	11.04			1	Z			A
1983-01-26			D 72019	9.76			1	Z			A
1987-10-16			D 72019	9.50			1	Z			A
1993-02-02			D 72019	7.11			1	S			A
2003-01-29			D 72019	14.84			1	S	USGS	S	A

Explanation

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

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

**URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>**



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0.37 0.24 nadww01



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USGS Water Resources Data Category: Groundwater  Geographic Area: United States

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**Search Results -- 1 sites found**

Agency code = usgs  
 site\_no list = 

- 321446104045301

Minimum number of levels = 1  
[Save file of selected sites](#) to local disk for future upload

**USGS 321446104045301 24S.28E.04.422422**

Eddy County, New Mexico  
 Latitude 32°14'46", Longitude 104°04'53" NAD27  
 Land-surface elevation 3,021 feet above NAVD88  
 The depth of the well is 250 feet below land surface.  
 This well is completed in the Other aquifers (N9999OTHER) national aquifer.  
 This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

**Output formats**

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

Date	Time	Water-level date-time accuracy	Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	Status	Method of measurement	Measuring agency	Source of measurement	Water-level approval status
1983-01-31			D	72019	23.56		1	Z			A
1988-02-12			D	72019	21.57		1	Z			A
1992-11-20			D	72019	18.05		1	S			A
1998-01-23			D	72019	20.77		1	S			A
2003-02-04			D	72019	25.43		1	S	USGS	S	A

Explanation

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

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0.44 0.26 nadww01

# **Appendix B**

## **Field Data & Soil Profile Logs**



# Sample Log

Date: \_\_\_\_\_

Project: Yardbirds 34 W2PA Fee 1H

Project Number: 17283 Latitude: 32.252744 Longitude: -104.068957

Sample ID	PID/Odor	Chloride Conc.	GPS
FL106	2.8	328	
FL206	7.4	452	
EW1	3.2	408	
SW1	3.6	500	
FL306	3.2	408	
NW1	-	468	
FL406	2.2	232	
FL506	3.2	468	
FL606	3.2	408	
FL706	3.0	368	
FL806	2.4	260	
NW008	3.8	552	
SW2	3.2	408	
FL906	3.8	552	
FL1006	3.4	452	
FL1106	3.0	368	
FL1206	3.4	452	
FL1306	5.8		
FL1406	4.4		
FL1506	7.0		
FL1606	9.4		
FL1706	9.4		
FL1207	3.8	502	
FL1307	3.6	500	
FL1407	3.2	408	
FL1507	3.6	500	
FL1607	3.2	408	
NW3	3.8	552	
FL1706	3.6	500	
SW40	3.2	452	
FL1806	3.8	552	
EW206	2.3	232	
SW306	3.0	368	
FL707	2.8	328	
FL1807	3.4	452	
FL2008	3.8	552	
FL2106	2.4	260	

Sample Point = SP #1 @ ## etc      Test Trench = TT #1 @ ##      Resamples = SP #1 @ 5b or SW #1b  
 Floor = FL #1 etc      Refusal = SP #1 @ 4'-R      Stockpile = Stockpile #1  
 Sidewall = SW #1 etc      Soil Intended to be Deferred = SP #1 @ 4' In-Situ      GPS Sample Points, Center of Comp Areas





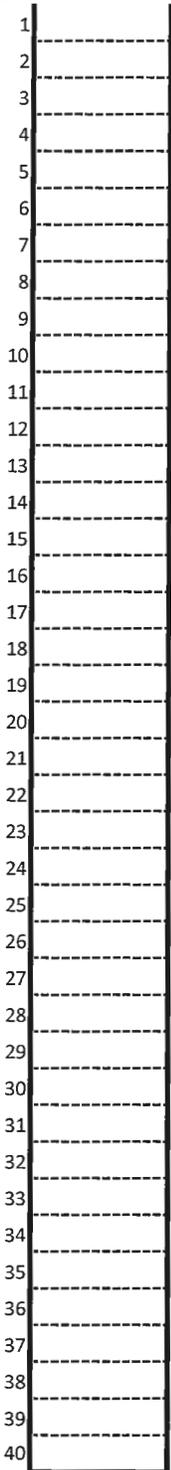
# Soil Profile

Date: \_\_\_\_\_

Project: Yardbirds 34 W2PA Fee 1H

Project Number: 17283 Latitude: 32.252744 Longitude: -104.068957

Depth (ft. bgs)



Description

Sandy loam  
 Sandy loam  
 Sand - Caliche  
 Caliche  
 Caliche  
 Caliche



-  Horizontal Division Point
-  Vertical Sample "SP"
-  Horizontal Label "S"
-  Original GeoMeasure



Initial Delineation Map  
Yardbird 3

Mewbourne Oil Company

1-10-23

Released to Imaging: 9/13/2023 1:50:31 PM



Diamondback Disposal  
Services, Inc  
P.O. Box 2491  
Hobbs, NM 88241  
575-392-9996

# **Appendix C**

## **Photographic Log**

### Photographic Log

<b>Photo Number:</b> 1	 <p>February 24, 2023 at 1:10 PM +32.252930,-104.068737</p>
<b>Photo Direction:</b> East	
<b>Photo Description:</b>  View of the affected area.	

<b>Photo Number:</b> 2	 <p>February 24, 2023 at 1:10 PM +32.252777,-104.068692</p>
<b>Photo Direction:</b> West	
<b>Photo Description:</b>  View of the affected area.	

### Photographic Log

<b>Photo Number:</b> 3	
<b>Photo Direction:</b> West	
<b>Photo Description:</b>  View of the affected area.	

<b>Photo Number:</b> 4	
<b>Photo Direction:</b> West	
<b>Photo Description:</b>  View of the affected area.	

### Photographic Log

<b>Photo Number:</b> 5	 <p>22-Mar-2023 08:27:00 +32.252712,-104.068492 ±5.00m</p>
<b>Photo Direction:</b> Northeast	
<b>Photo Description:</b>  View of the excavated area.	

<b>Photo Number:</b> 6	 <p>22-Mar-2023 08:27:31 +32.252802,-104.068227 ±5.00m</p>
<b>Photo Direction:</b> East-Northeast	
<b>Photo Description:</b>  View of the excavated area.	

### Photographic Log

<b>Photo Number:</b> 7	
<b>Photo Direction:</b> East	
<b>Photo Description:</b>  View of the excavated area.	

<b>Photo Number:</b> 8	
<b>Photo Direction:</b> Southwest	
<b>Photo Description:</b>  View of the excavated area.	

### Photographic Log

<b>Photo Number:</b> 9	 <p>27-Mar-2023 14:22:13 +32.252819,-104.069138 ±5.00m</p>
<b>Photo Direction:</b> Southeast	
<b>Photo Description:</b>  View of the excavated area.	

<b>Photo Number:</b> 10	 <p>27-Mar-2023 14:23:06 +32.252850,-104.069600 ±5.00m</p>
<b>Photo Direction:</b> East-Southeast	
<b>Photo Description:</b>  View of the excavated area.	

### Photographic Log

<b>Photo Number:</b> 11	 <p>April 13, 2023 at 6:49 AM +32.253323,-104.068737</p>
<b>Photo Direction:</b> Southeast	
<b>Photo Description:</b>  View of the remediated area after backfill and regrading.	

<b>Photo Number:</b> 12	 <p>April 13, 2023 at 6:50 AM +32.252793,-104.068455</p>
<b>Photo Direction:</b> West	
<b>Photo Description:</b>  View of the remediated area after backfill and regrading.	

### Photographic Log

<b>Photo Number:</b> 13	 <p>April 13, 2023 at 6:50 AM +32.252793,-104.068455</p>
<b>Photo Direction:</b> Southwest	
<b>Photo Description:</b>  View of the remediated area after backfill and regrading.	

<b>Photo Number:</b> 14	 <p>April 13, 2023 at 6:50 AM +32.252602,-104.068854</p>
<b>Photo Direction:</b> West-Northwest	
<b>Photo Description:</b>  View of the remediated area after backfill and regrading.	

# **Appendix D**

## **Laboratory Analytical Reports**



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

---

March 09, 2023

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: YARD BIRD W2PA FEE 1H

Enclosed are the results of analyses for samples received by the laboratory on 03/06/23 15:44.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://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:	03/06/2023	Sampling Date:	03/06/2023
Reported:	03/09/2023	Sampling Type:	Soil
Project Name:	YARD BIRD W2PA FEE 1H	Sampling Condition:	** (See Notes)
Project Number:	17283	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LOVING, NM		

**Sample ID: FL 1 @ 6 (H231013-01)**

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	03/09/2023	ND	2.09	105	2.00	0.395	
Toluene*	<0.050	0.050	03/09/2023	ND	2.01	101	2.00	1.91	
Ethylbenzene*	<0.050	0.050	03/09/2023	ND	2.13	106	2.00	5.05	
Total Xylenes*	<0.150	0.150	03/09/2023	ND	6.60	110	6.00	5.64	
Total BTEX	<0.300	0.300	03/09/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 123 % 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	208	16.0	03/08/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/08/2023	ND	165	82.4	200	5.45	
DRO >C10-C28*	<10.0	10.0	03/08/2023	ND	192	95.9	200	5.78	
EXT DRO >C28-C36	<10.0	10.0	03/08/2023	ND					

Surrogate: 1-Chlorooctane 90.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 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:	03/06/2023	Sampling Date:	03/06/2023
Reported:	03/09/2023	Sampling Type:	Soil
Project Name:	YARD BIRD W2PA FEE 1H	Sampling Condition:	** (See Notes)
Project Number:	17283	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LOVING, NM		

**Sample ID: FL 2 @ 6 (H231013-02)**

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	03/09/2023	ND	2.09	105	2.00	0.395	
Toluene*	<0.050	0.050	03/09/2023	ND	2.01	101	2.00	1.91	
Ethylbenzene*	<0.050	0.050	03/09/2023	ND	2.13	106	2.00	5.05	
Total Xylenes*	<0.150	0.150	03/09/2023	ND	6.60	110	6.00	5.64	
Total BTEX	<0.300	0.300	03/09/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	03/08/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/08/2023	ND	165	82.4	200	5.45	
DRO >C10-C28*	<10.0	10.0	03/08/2023	ND	192	95.9	200	5.78	
EXT DRO >C28-C36	<10.0	10.0	03/08/2023	ND					

Surrogate: 1-Chlorooctane 84.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 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:	03/06/2023	Sampling Date:	03/06/2023
Reported:	03/09/2023	Sampling Type:	Soil
Project Name:	YARD BIRD W2PA FEE 1H	Sampling Condition:	** (See Notes)
Project Number:	17283	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LOVING, NM		

**Sample ID: FL 3 @ 6 (H231013-03)**

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	03/09/2023	ND	2.09	105	2.00	0.395	
Toluene*	<0.050	0.050	03/09/2023	ND	2.01	101	2.00	1.91	
Ethylbenzene*	<0.050	0.050	03/09/2023	ND	2.13	106	2.00	5.05	
Total Xylenes*	<0.150	0.150	03/09/2023	ND	6.60	110	6.00	5.64	
Total BTEX	<0.300	0.300	03/09/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 121 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/09/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/08/2023	ND	165	82.4	200	5.45	
DRO >C10-C28*	<10.0	10.0	03/08/2023	ND	192	95.9	200	5.78	
EXT DRO >C28-C36	<10.0	10.0	03/08/2023	ND					

Surrogate: 1-Chlorooctane 77.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.6 % 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:	03/06/2023	Sampling Date:	03/06/2023
Reported:	03/09/2023	Sampling Type:	Soil
Project Name:	YARD BIRD W2PA FEE 1H	Sampling Condition:	** (See Notes)
Project Number:	17283	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LOVING, NM		

**Sample ID: SW 1 (H231013-04)**

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	03/09/2023	ND	2.09	105	2.00	0.395	
Toluene*	<0.050	0.050	03/09/2023	ND	2.01	101	2.00	1.91	
Ethylbenzene*	<0.050	0.050	03/09/2023	ND	2.13	106	2.00	5.05	
Total Xylenes*	<0.150	0.150	03/09/2023	ND	6.60	110	6.00	5.64	
Total BTEX	<0.300	0.300	03/09/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 127 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	03/09/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/08/2023	ND	165	82.4	200	5.45	
DRO >C10-C28*	<10.0	10.0	03/08/2023	ND	192	95.9	200	5.78	
EXT DRO >C28-C36	<10.0	10.0	03/08/2023	ND					

Surrogate: 1-Chlorooctane 84.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 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:	03/06/2023	Sampling Date:	03/06/2023
Reported:	03/09/2023	Sampling Type:	Soil
Project Name:	YARD BIRD W2PA FEE 1H	Sampling Condition:	** (See Notes)
Project Number:	17283	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LOVING, NM		

**Sample ID: EW 1 (H231013-05)**

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	03/09/2023	ND	2.09	105	2.00	0.395	
Toluene*	<0.050	0.050	03/09/2023	ND	2.01	101	2.00	1.91	
Ethylbenzene*	<0.050	0.050	03/09/2023	ND	2.13	106	2.00	5.05	
Total Xylenes*	<0.150	0.150	03/09/2023	ND	6.60	110	6.00	5.64	
Total BTEX	<0.300	0.300	03/09/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 127 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/09/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/08/2023	ND	165	82.4	200	5.45	
DRO >C10-C28*	<10.0	10.0	03/08/2023	ND	192	95.9	200	5.78	
EXT DRO >C28-C36	<10.0	10.0	03/08/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

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**

Company Name: Etech Environmental & Safety Solutions, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>															
Project Manager: Lance Crenshaw				P.O. #:				Chloride TPH (8015M) BTEX (8021B)															
Address: 2617 W Marland				Company: Mewbourn																			
City: Hobbs		State: NM		Zip: 88240		Attn: Jeff Broom																	
Phone #: (575) 264-9884		Fax #:		Address: 4801 Bus P Blvd																			
Project #: 17283		Project Owner: Mewbourn		City: Hobbs																			
Project Name: Yard bird WZPA Fee 1 H				State: NM																Zip: 88240			
Project Location: Rural Loving NM				Phone #:																			
Sampler Name: Dominick Casarez				Fax #:																			
FOR LAB USE ONLY																							
Lab I.D.		Sample I.D.		(GRAB OR (COMP. # CONTAINERS	MATRIX					PRESERV.		SAMPLING											
					GROUNDWATER	WASTEWATER	SOIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME									
H231013												3-6-23											
DC1	FL 1@6			C	I																		
2	FL 2@6			C	I																		
3	FL 3@6			C	I																		
4	SWI			C	I																		
5	EWI			C	I																		
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.																							
Relinquished By:				Date: 3-6-23		Received By:				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:											
				Time: 1544						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: (Initials)																	
Sampler - UPS - Bus - Other: 7.3c/6.7c				Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>		yo.																	
				Yes <input type="checkbox"/> No <input type="checkbox"/>																			
				Yes <input type="checkbox"/> No <input type="checkbox"/>																			



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

---

March 15, 2023

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: YARD BIRD 34 W2 PA FEE 1H

Enclosed are the results of analyses for samples received by the laboratory on 03/09/23 15:54.

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

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:	03/09/2023	Sampling Date:	03/09/2023
Reported:	03/15/2023	Sampling Type:	Soil
Project Name:	YARD BIRD 34 W2 PA FEE 1H	Sampling Condition:	Cool & Intact
Project Number:	17283	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL LOVING, NM		

**Sample ID: FL 4 @ 6 (H231102-01)**

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	03/10/2023	ND	2.11	106	2.00	7.79	
Toluene*	<0.050	0.050	03/10/2023	ND	2.16	108	2.00	8.18	
Ethylbenzene*	<0.050	0.050	03/10/2023	ND	2.17	108	2.00	4.08	
Total Xylenes*	<0.150	0.150	03/10/2023	ND	6.76	113	6.00	3.26	
Total BTEX	<0.300	0.300	03/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 123 % 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	176	16.0	03/10/2023	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	03/10/2023	ND	166	83.2	200	7.70	
DRO >C10-C28*	<10.0	10.0	03/10/2023	ND	168	84.1	200	8.43	
EXT DRO >C28-C36	<10.0	10.0	03/10/2023	ND					

Surrogate: 1-Chlorooctane 82.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/09/2023	Sampling Date:	03/09/2023
Reported:	03/15/2023	Sampling Type:	Soil
Project Name:	YARD BIRD 34 W2 PA FEE 1H	Sampling Condition:	Cool & Intact
Project Number:	17283	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL LOVING, NM		

**Sample ID: FL 5 @ 6 (H231102-02)**

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	03/10/2023	ND	2.11	106	2.00	7.79	
Toluene*	<0.050	0.050	03/10/2023	ND	2.16	108	2.00	8.18	
Ethylbenzene*	<0.050	0.050	03/10/2023	ND	2.17	108	2.00	4.08	
Total Xylenes*	<0.150	0.150	03/10/2023	ND	6.76	113	6.00	3.26	
Total BTEX	<0.300	0.300	03/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 121 % 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	496	16.0	03/10/2023	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	03/10/2023	ND	166	83.2	200	7.70	
DRO >C10-C28*	<10.0	10.0	03/10/2023	ND	168	84.1	200	8.43	
EXT DRO >C28-C36	<10.0	10.0	03/10/2023	ND					

Surrogate: 1-Chlorooctane 77.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.9 % 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: 03/09/2023  
 Reported: 03/15/2023  
 Project Name: YARD BIRD 34 W2 PA FEE 1H  
 Project Number: 17283  
 Project Location: MEWBOURNE - RURAL LOVING, NM

Sampling Date: 03/09/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 6 @ 6 (H231102-03)**

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	03/10/2023	ND	2.11	106	2.00	7.79	
Toluene*	<0.050	0.050	03/10/2023	ND	2.16	108	2.00	8.18	
Ethylbenzene*	<0.050	0.050	03/10/2023	ND	2.17	108	2.00	4.08	
Total Xylenes*	<0.150	0.150	03/10/2023	ND	6.76	113	6.00	3.26	
Total BTEX	<0.300	0.300	03/10/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	03/10/2023	ND	400	100	400	4.08	

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	03/10/2023	ND	166	83.2	200	7.70	
DRO >C10-C28*	<10.0	10.0	03/10/2023	ND	168	84.1	200	8.43	
EXT DRO >C28-C36	<10.0	10.0	03/10/2023	ND					

Surrogate: 1-Chlorooctane 70.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.3 % 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: 03/09/2023  
 Reported: 03/15/2023  
 Project Name: YARD BIRD 34 W2 PA FEE 1H  
 Project Number: 17283  
 Project Location: MEWBOURNE - RURAL LOVING, NM

Sampling Date: 03/09/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 7 @ 6 (H231102-04)**

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	03/10/2023	ND	2.11	106	2.00	7.79	
Toluene*	<0.050	0.050	03/10/2023	ND	2.16	108	2.00	8.18	
Ethylbenzene*	<0.050	0.050	03/10/2023	ND	2.17	108	2.00	4.08	
Total Xylenes*	<0.150	0.150	03/10/2023	ND	6.76	113	6.00	3.26	
Total BTEX	<0.300	0.300	03/10/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	752	16.0	03/10/2023	ND	400	100	400	4.08	

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	03/10/2023	ND	166	83.2	200	7.70	
DRO >C10-C28*	<10.0	10.0	03/10/2023	ND	168	84.1	200	8.43	
EXT DRO >C28-C36	<10.0	10.0	03/10/2023	ND					

Surrogate: 1-Chlorooctane 85.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 03/09/2023  
 Reported: 03/15/2023  
 Project Name: YARD BIRD 34 W2 PA FEE 1H  
 Project Number: 17283  
 Project Location: MEWBOURNE - RURAL LOVING, NM

Sampling Date: 03/09/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 8 @ 6.5 (H231102-05)**

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	03/10/2023	ND	2.11	106	2.00	7.79	
Toluene*	<0.050	0.050	03/10/2023	ND	2.16	108	2.00	8.18	
Ethylbenzene*	<0.050	0.050	03/10/2023	ND	2.17	108	2.00	4.08	
Total Xylenes*	<0.150	0.150	03/10/2023	ND	6.76	113	6.00	3.26	
Total BTEX	<0.300	0.300	03/10/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	03/10/2023	ND	400	100	400	4.08	

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	03/10/2023	ND	166	83.2	200	7.70	
DRO >C10-C28*	<10.0	10.0	03/10/2023	ND	168	84.1	200	8.43	
EXT DRO >C28-C36	<10.0	10.0	03/10/2023	ND					

Surrogate: 1-Chlorooctane 93.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 03/09/2023  
 Reported: 03/15/2023  
 Project Name: YARD BIRD 34 W2 PA FEE 1H  
 Project Number: 17283  
 Project Location: MEWBOURNE - RURAL LOVING, NM

Sampling Date: 03/09/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: NW 1 (H231102-06)**

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	03/10/2023	ND	2.11	106	2.00	7.79	
Toluene*	<0.050	0.050	03/10/2023	ND	2.16	108	2.00	8.18	
Ethylbenzene*	<0.050	0.050	03/10/2023	ND	2.17	108	2.00	4.08	
Total Xylenes*	<0.150	0.150	03/10/2023	ND	6.76	113	6.00	3.26	
Total BTEX	<0.300	0.300	03/10/2023	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	560	16.0	03/10/2023	ND	400	100	400	4.08	

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	03/10/2023	ND	166	83.2	200	7.70	
DRO >C10-C28*	<10.0	10.0	03/10/2023	ND	168	84.1	200	8.43	
EXT DRO >C28-C36	<10.0	10.0	03/10/2023	ND					

Surrogate: 1-Chlorooctane 84.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.8 % 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: 03/09/2023  
 Reported: 03/15/2023  
 Project Name: YARD BIRD 34 W2 PA FEE 1H  
 Project Number: 17283  
 Project Location: MEWBOURNE - RURAL LOVING, NM

Sampling Date: 03/09/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: NW 2 (H231102-07)**

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	03/10/2023	ND	2.11	106	2.00	7.79		
Toluene*	<0.050	0.050	03/10/2023	ND	2.16	108	2.00	8.18		
Ethylbenzene*	<0.050	0.050	03/10/2023	ND	2.17	108	2.00	4.08		
Total Xylenes*	<0.150	0.150	03/10/2023	ND	6.76	113	6.00	3.26		
Total BTEX	<0.300	0.300	03/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 121 % 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	560	16.0	03/10/2023	ND	400	100	400	4.08		

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	03/10/2023	ND	166	83.2	200	7.70		
DRO >C10-C28*	<10.0	10.0	03/10/2023	ND	168	84.1	200	8.43		
EXT DRO >C28-C36	<10.0	10.0	03/10/2023	ND						

Surrogate: 1-Chlorooctane 88.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	03/09/2023	Sampling Date:	03/09/2023
Reported:	03/15/2023	Sampling Type:	Soil
Project Name:	YARD BIRD 34 W2 PA FEE 1H	Sampling Condition:	Cool & Intact
Project Number:	17283	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL LOVING, NM		

**Sample ID: SW 3 (H231102-08)**

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	03/10/2023	ND	2.11	106	2.00	7.79	
Toluene*	<0.050	0.050	03/10/2023	ND	2.16	108	2.00	8.18	
Ethylbenzene*	<0.050	0.050	03/10/2023	ND	2.17	108	2.00	4.08	
Total Xylenes*	<0.150	0.150	03/10/2023	ND	6.76	113	6.00	3.26	
Total BTEX	<0.300	0.300	03/10/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	752	16.0	03/10/2023	ND	400	100	400	4.08	

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	03/10/2023	ND	166	83.2	200	7.70	
DRO >C10-C28*	<10.0	10.0	03/10/2023	ND	168	84.1	200	8.43	
EXT DRO >C28-C36	<10.0	10.0	03/10/2023	ND					

Surrogate: 1-Chlorooctane 78.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 03/09/2023  
 Reported: 03/15/2023  
 Project Name: YARD BIRD 34 W2 PA FEE 1H  
 Project Number: 17283  
 Project Location: MEWBOURNE - RURAL LOVING, NM

Sampling Date: 03/09/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW 2 (H231102-09)**

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	03/10/2023	ND	2.11	106	2.00	7.79	
Toluene*	<0.050	0.050	03/10/2023	ND	2.16	108	2.00	8.18	
Ethylbenzene*	<0.050	0.050	03/10/2023	ND	2.17	108	2.00	4.08	
Total Xylenes*	<0.150	0.150	03/10/2023	ND	6.76	113	6.00	3.26	
Total BTEX	<0.300	0.300	03/10/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/10/2023	ND	400	100	400	4.08	

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	03/10/2023	ND	166	83.2	200	7.70	
DRO >C10-C28*	<10.0	10.0	03/10/2023	ND	168	84.1	200	8.43	
EXT DRO >C28-C36	<10.0	10.0	03/10/2023	ND					

Surrogate: 1-Chlorooctane 85.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.7 % 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: 03/09/2023  
 Reported: 03/15/2023  
 Project Name: YARD BIRD 34 W2 PA FEE 1H  
 Project Number: 17283  
 Project Location: MEWBOURNE - RURAL LOVING, NM

Sampling Date: 03/09/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 9 @ 6 (H231102-10)**

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	03/10/2023	ND	2.11	106	2.00	7.79	
Toluene*	<0.050	0.050	03/10/2023	ND	2.16	108	2.00	8.18	
Ethylbenzene*	<0.050	0.050	03/10/2023	ND	2.17	108	2.00	4.08	
Total Xylenes*	<0.150	0.150	03/10/2023	ND	6.76	113	6.00	3.26	
Total BTEX	<0.300	0.300	03/10/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/10/2023	ND	400	100	400	4.08	

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	03/10/2023	ND	166	83.2	200	7.70	
DRO >C10-C28*	<10.0	10.0	03/10/2023	ND	168	84.1	200	8.43	
EXT DRO >C28-C36	<10.0	10.0	03/10/2023	ND					

Surrogate: 1-Chlorooctane 78.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.9 % 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:	03/09/2023	Sampling Date:	03/09/2023
Reported:	03/15/2023	Sampling Type:	Soil
Project Name:	YARD BIRD 34 W2 PA FEE 1H	Sampling Condition:	Cool & Intact
Project Number:	17283	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL LOVING, NM		

**Sample ID: FL 10 @ 6 (H231102-11)**

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	03/10/2023	ND	2.11	106	2.00	7.79	
Toluene*	<0.050	0.050	03/10/2023	ND	2.16	108	2.00	8.18	
Ethylbenzene*	<0.050	0.050	03/10/2023	ND	2.17	108	2.00	4.08	
Total Xylenes*	<0.150	0.150	03/10/2023	ND	6.76	113	6.00	3.26	
Total BTEX	<0.300	0.300	03/10/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/10/2023	ND	400	100	400	4.08	

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	03/10/2023	ND	166	83.2	200	7.70	
DRO >C10-C28*	<10.0	10.0	03/10/2023	ND	168	84.1	200	8.43	
EXT DRO >C28-C36	<10.0	10.0	03/10/2023	ND					

Surrogate: 1-Chlorooctane 95.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

- 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

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager





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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																								
Project Manager: Lance Crenshaw				P.O. #:				Chloride TPH (8015M) BTEX (8021B)																								
Address: 2617 W Marland				Company: Mewbourn																												
City: Hobbs		State: NM		Zip: 88240		Attn: Jeff Brown																										
Phone #: (575) 264-9884		Fax #:		Address: 4801 Bus p Blvd																												
Project #: 17283		Project Owner: Mewbourn		City: Hobbs																												
Project Name: Yard bird 34 W2PA Fee 1 H				State: NM Zip: 88240																												
Project Location: Rural Loving NM.				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															
H231102		DC 8 SW3		C	1			✓				✓		3-9-23				✓	✓	✓												
		9 SW2		C	1			✓				✓						↓	↓	↓												
		10 FL9@6		C	1			✓				✓						↓	↓	↓												
		11 FL10@6		C	1			✓				✓						↓	↓	↓												
<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: 3-9-23		Received By:				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:																				
				Time: 1554						Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:																				
Relinquished By:				Date:		Received By:				REMARKS:																						
				Time:						Please email results and copy of CoC to pm@etechenv.com.																						
Delivered By: (Circle One) 342/C-O-02				Sample Condition		CHECKED BY:																										
Sampler - UPS - Bus - Other: 2-8-#13				Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>		(Initials)																										
				Yes <input type="checkbox"/> No <input type="checkbox"/>																												



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

---

March 16, 2023

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: YARD BIRD 34 W2 PA FEE 1H

Enclosed are the results of analyses for samples received by the laboratory on 03/13/23 16:26.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/13/2023	Sampling Date:	03/13/2023
Reported:	03/16/2023	Sampling Type:	Soil
Project Name:	YARD BIRD 34 W2 PA FEE 1H	Sampling Condition:	Cool & Intact
Project Number:	17283	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL LOVING, NM		

**Sample ID: FL 11 @ 6 (H231144-01)**

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	03/15/2023	ND	2.19	109	2.00	4.48	
Toluene*	<0.050	0.050	03/15/2023	ND	2.14	107	2.00	2.78	
Ethylbenzene*	<0.050	0.050	03/15/2023	ND	2.17	108	2.00	3.52	
Total Xylenes*	<0.150	0.150	03/15/2023	ND	6.80	113	6.00	3.70	
Total BTEX	<0.300	0.300	03/15/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	03/15/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/15/2023	ND	174	86.8	200	3.86	
DRO >C10-C28*	<10.0	10.0	03/15/2023	ND	164	82.2	200	0.181	
EXT DRO >C28-C36	<10.0	10.0	03/15/2023	ND					

Surrogate: 1-Chlorooctane 81.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.2 % 49.1-148

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/13/2023	Sampling Date:	03/13/2023
Reported:	03/16/2023	Sampling Type:	Soil
Project Name:	YARD BIRD 34 W2 PA FEE 1H	Sampling Condition:	Cool & Intact
Project Number:	17283	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL LOVING, NM		

**Sample ID: FL 12 @ 8 (H231144-02)**

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	03/15/2023	ND	2.19	109	2.00	4.48	
Toluene*	<0.050	0.050	03/15/2023	ND	2.14	107	2.00	2.78	
Ethylbenzene*	<0.050	0.050	03/15/2023	ND	2.17	108	2.00	3.52	
Total Xylenes*	<0.150	0.150	03/15/2023	ND	6.80	113	6.00	3.70	
Total BTEX	<0.300	0.300	03/15/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	03/15/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/15/2023	ND	174	86.8	200	3.86	
DRO >C10-C28*	<10.0	10.0	03/15/2023	ND	164	82.2	200	0.181	
EXT DRO >C28-C36	<10.0	10.0	03/15/2023	ND					

Surrogate: 1-Chlorooctane 84.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.9 % 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:	03/13/2023	Sampling Date:	03/13/2023
Reported:	03/16/2023	Sampling Type:	Soil
Project Name:	YARD BIRD 34 W2 PA FEE 1H	Sampling Condition:	Cool & Intact
Project Number:	17283	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL LOVING, NM		

**Sample ID: FL 13 @ 7 (H231144-03)**

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	03/15/2023	ND	2.19	109	2.00	4.48	
Toluene*	<0.050	0.050	03/15/2023	ND	2.14	107	2.00	2.78	
Ethylbenzene*	<0.050	0.050	03/15/2023	ND	2.17	108	2.00	3.52	
Total Xylenes*	<0.150	0.150	03/15/2023	ND	6.80	113	6.00	3.70	
Total BTEX	<0.300	0.300	03/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 121 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	03/15/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/15/2023	ND	174	86.8	200	3.86	
DRO >C10-C28*	<10.0	10.0	03/15/2023	ND	164	82.2	200	0.181	
EXT DRO >C28-C36	<10.0	10.0	03/15/2023	ND					

Surrogate: 1-Chlorooctane 81.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.6 % 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:	03/13/2023	Sampling Date:	03/13/2023
Reported:	03/16/2023	Sampling Type:	Soil
Project Name:	YARD BIRD 34 W2 PA FEE 1H	Sampling Condition:	Cool & Intact
Project Number:	17283	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL LOVING, NM		

**Sample ID: FL 14 @ 7 (H231144-04)**

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	03/15/2023	ND	2.19	109	2.00	4.48	
Toluene*	<0.050	0.050	03/15/2023	ND	2.14	107	2.00	2.78	
Ethylbenzene*	<0.050	0.050	03/15/2023	ND	2.17	108	2.00	3.52	
Total Xylenes*	<0.150	0.150	03/15/2023	ND	6.80	113	6.00	3.70	
Total BTEX	<0.300	0.300	03/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 123 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	03/15/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/14/2023	ND	165	82.7	200	1.43	
DRO >C10-C28*	<10.0	10.0	03/14/2023	ND	175	87.7	200	1.19	
EXT DRO >C28-C36	<10.0	10.0	03/14/2023	ND					

Surrogate: 1-Chlorooctane 84.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.9 % 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:	03/13/2023	Sampling Date:	03/13/2023
Reported:	03/16/2023	Sampling Type:	Soil
Project Name:	YARD BIRD 34 W2 PA FEE 1H	Sampling Condition:	Cool & Intact
Project Number:	17283	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL LOVING, NM		

**Sample ID: WW 1 (H231144-05)**

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	03/15/2023	ND	2.19	109	2.00	4.48	
Toluene*	<0.050	0.050	03/15/2023	ND	2.14	107	2.00	2.78	
Ethylbenzene*	<0.050	0.050	03/15/2023	ND	2.17	108	2.00	3.52	
Total Xylenes*	<0.150	0.150	03/15/2023	ND	6.80	113	6.00	3.70	
Total BTEX	<0.300	0.300	03/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 123 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	03/15/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/14/2023	ND	165	82.7	200	1.43	
DRO >C10-C28*	<10.0	10.0	03/14/2023	ND	175	87.7	200	1.19	
EXT DRO >C28-C36	<10.0	10.0	03/14/2023	ND					

Surrogate: 1-Chlorooctane 88.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.6 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Notes and Definitions**

- 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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Celey D. Keene, Lab Director/Quality Manager





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

---

March 17, 2023

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: YARD BIRD 34 W2 PA FEE 1H

Enclosed are the results of analyses for samples received by the laboratory on 03/14/23 16:44.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/14/2023	Sampling Date:	03/14/2023
Reported:	03/17/2023	Sampling Type:	Soil
Project Name:	YARD BIRD 34 W2 PA FEE 1H	Sampling Condition:	Cool & Intact
Project Number:	17283	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL LOVING, NM		

**Sample ID: FL 16 @ 7 (H231174-01)**

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	03/16/2023	ND	2.09	104	2.00	0.767	
Toluene*	<0.050	0.050	03/16/2023	ND	2.07	104	2.00	0.452	
Ethylbenzene*	<0.050	0.050	03/16/2023	ND	2.16	108	2.00	0.984	
Total Xylenes*	<0.150	0.150	03/16/2023	ND	6.76	113	6.00	2.53	
Total BTEX	<0.300	0.300	03/16/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/16/2023	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/15/2023	ND	160	80.1	200	0.930	
DRO >C10-C28*	<10.0	10.0	03/15/2023	ND	180	90.2	200	1.23	
EXT DRO >C28-C36	<10.0	10.0	03/15/2023	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 127 % 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:	03/14/2023	Sampling Date:	03/14/2023
Reported:	03/17/2023	Sampling Type:	Soil
Project Name:	YARD BIRD 34 W2 PA FEE 1H	Sampling Condition:	Cool & Intact
Project Number:	17283	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL LOVING, NM		

**Sample ID: FL 15 @ 7 (H231174-02)**

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	03/16/2023	ND	2.09	104	2.00	0.767	
Toluene*	<0.050	0.050	03/16/2023	ND	2.07	104	2.00	0.452	
Ethylbenzene*	<0.050	0.050	03/16/2023	ND	2.16	108	2.00	0.984	
Total Xylenes*	<0.150	0.150	03/16/2023	ND	6.76	113	6.00	2.53	
Total BTEX	<0.300	0.300	03/16/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	03/16/2023	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/15/2023	ND	160	80.1	200	0.930	
DRO >C10-C28*	<10.0	10.0	03/15/2023	ND	180	90.2	200	1.23	
EXT DRO >C28-C36	<10.0	10.0	03/15/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 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: 03/14/2023  
 Reported: 03/17/2023  
 Project Name: YARD BIRD 34 W2 PA FEE 1H  
 Project Number: 17283  
 Project Location: MEWBOURNE - RURAL LOVING, NM

Sampling Date: 03/14/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 17 @ 6 (H231174-03)**

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	03/16/2023	ND	2.09	104	2.00	0.767	
Toluene*	<0.050	0.050	03/16/2023	ND	2.07	104	2.00	0.452	
Ethylbenzene*	<0.050	0.050	03/16/2023	ND	2.16	108	2.00	0.984	
Total Xylenes*	<0.150	0.150	03/16/2023	ND	6.76	113	6.00	2.53	
Total BTEX	<0.300	0.300	03/16/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	03/16/2023	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/15/2023	ND	160	80.1	200	0.930	
DRO >C10-C28*	<10.0	10.0	03/15/2023	ND	180	90.2	200	1.23	
EXT DRO >C28-C36	<10.0	10.0	03/15/2023	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 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: 03/14/2023  
 Reported: 03/17/2023  
 Project Name: YARD BIRD 34 W2 PA FEE 1H  
 Project Number: 17283  
 Project Location: MEWBOURNE - RURAL LOVING, NM

Sampling Date: 03/14/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: NW 3 (H231174-04)**

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	03/16/2023	ND	2.09	104	2.00	0.767	
Toluene*	<0.050	0.050	03/16/2023	ND	2.07	104	2.00	0.452	
Ethylbenzene*	<0.050	0.050	03/16/2023	ND	2.16	108	2.00	0.984	
Total Xylenes*	<0.150	0.150	03/16/2023	ND	6.76	113	6.00	2.53	
Total BTEX	<0.300	0.300	03/16/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2800	16.0	03/16/2023	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/15/2023	ND	160	80.1	200	0.930	
DRO >C10-C28*	<10.0	10.0	03/15/2023	ND	180	90.2	200	1.23	
EXT DRO >C28-C36	<10.0	10.0	03/15/2023	ND					

Surrogate: 1-Chlorooctane 89.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 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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*Celey D. Keene*

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

Company Name: Etech Environmental & Safety Solutions, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>													
Project Manager: Lance Crenshaw				P.O. #:				Chloride TPH (8015M) BTEX (8021B)													
Address: 2617 W Marland				Company: Mewbourn																	
City: Hobbs		State: NM		Zip: 88240		Attn: Jeff Broom															
Phone #: (575) 264-9884		Fax #:		Address: 4801 Bus p B12																	
Project #: 17283		Project Owner: Mewbourn		City: Hobbs																	
Project Name: Yard Blvd 34 W2PA Fee LH				State: NM Zip: 88240																	
Project Location: Rural Loving NM				Phone #:																	
Sampler Name: Dominic Casaver				Fax #:																	
FOR LAB USE ONLY																					
Lab I.D.		Sample I.D.		# CONTAINERS	MATRIX				PRESERV.		SAMPLING										
				(G)RAB OR (C)OMP.	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE		TIME					
H231174				C	✓		✓	✓			✓	✓	✓	3-14							
DC 1 FL16 @ 07				C	✓		✓	✓			✓	✓	✓	↓							
2 FL15 @ 7				C	✓		✓	✓			✓	✓	✓	↓							
3 FL17 @ 6				C	✓		✓	✓			✓	✓	✓	↓							
4 NW3				C	✓		✓	✓			✓	✓	✓	↓							
<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: 3-14		Received By:		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:		REMARKS:											
		Time: 1144				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:													
Relinquished By:		Date:		Received By:		Please email results and copy of CoC to pm@etechenv.com.															
Time:																					
Delivered By: (Circle One) 3.9i) C-O-V: 3.3i) #113				Sample Condition				CHECKED BY: (Initials)													
Sampler - UPS - Bus - Other:				Cool Intact				82													
				<input type="checkbox"/> Yes <input type="checkbox"/> No																	



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---

March 20, 2023

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: YARD BIRD 34 W2 PA FEE 1H

Enclosed are the results of analyses for samples received by the laboratory on 03/16/23 16:23.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/16/2023	Sampling Date:	03/16/2023
Reported:	03/20/2023	Sampling Type:	Soil
Project Name:	YARD BIRD 34 W2 PA FEE 1H	Sampling Condition:	Cool & Intact
Project Number:	17283	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL LOVING, NM		

**Sample ID: SW 3 B (H231213-01)**

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	03/17/2023	ND	2.11	106	2.00	4.61	
Toluene*	<0.050	0.050	03/17/2023	ND	2.18	109	2.00	5.66	
Ethylbenzene*	<0.050	0.050	03/17/2023	ND	2.14	107	2.00	6.29	
Total Xylenes*	<0.150	0.150	03/17/2023	ND	6.62	110	6.00	6.42	
Total BTEX	<0.300	0.300	03/17/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	03/20/2023	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	03/17/2023	ND	178	89.1	200	3.94	
DRO >C10-C28*	<10.0	10.0	03/17/2023	ND	169	84.6	200	0.482	
EXT DRO >C28-C36	<10.0	10.0	03/17/2023	ND					

Surrogate: 1-Chlorooctane 86.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.6 % 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:	03/16/2023	Sampling Date:	03/16/2023
Reported:	03/20/2023	Sampling Type:	Soil
Project Name:	YARD BIRD 34 W2 PA FEE 1H	Sampling Condition:	Cool & Intact
Project Number:	17283	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL LOVING, NM		

**Sample ID: FL 18 @ 7 (H231213-02)**

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	03/17/2023	ND	2.11	106	2.00	4.61	
Toluene*	<0.050	0.050	03/17/2023	ND	2.18	109	2.00	5.66	
Ethylbenzene*	<0.050	0.050	03/17/2023	ND	2.14	107	2.00	6.29	
Total Xylenes*	<0.150	0.150	03/17/2023	ND	6.62	110	6.00	6.42	
Total BTEX	<0.300	0.300	03/17/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	03/20/2023	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	03/17/2023	ND	178	89.1	200	3.94	
DRO >C10-C28*	<10.0	10.0	03/17/2023	ND	169	84.6	200	0.482	
EXT DRO >C28-C36	<10.0	10.0	03/17/2023	ND					

Surrogate: 1-Chlorooctane 86.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.5 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/16/2023	Sampling Date:	03/16/2023
Reported:	03/20/2023	Sampling Type:	Soil
Project Name:	YARD BIRD 34 W2 PA FEE 1H	Sampling Condition:	Cool & Intact
Project Number:	17283	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL LOVING, NM		

**Sample ID: FL 7 @ 7 (H231213-03)**

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	03/17/2023	ND	2.11	106	2.00	4.61	
Toluene*	<0.050	0.050	03/17/2023	ND	2.18	109	2.00	5.66	
Ethylbenzene*	<0.050	0.050	03/17/2023	ND	2.14	107	2.00	6.29	
Total Xylenes*	<0.150	0.150	03/17/2023	ND	6.62	110	6.00	6.42	
Total BTEX	<0.300	0.300	03/17/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/20/2023	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	03/17/2023	ND	178	89.1	200	3.94	
DRO >C10-C28*	<10.0	10.0	03/17/2023	ND	169	84.6	200	0.482	
EXT DRO >C28-C36	<10.0	10.0	03/17/2023	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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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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\*=Accredited Analyte

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*Celey D. Keene*

Celey D. Keene, Lab Director/Quality Manager



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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 & Safety Solutions, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>														
Project Manager: Lance Crenshaw				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Chloride</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH (8016M)</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX (8021B)</div> </div>														
Address: 2617 W Marland				Company: <i>Mexbourn</i>																		
City: Hobbs		State: NM		Zip: 88240		Attn: <i>Jeff Brown</i>																
Phone #: (575) 264-9884		Fax #:		Address: <i>4801 Bus P Blvd</i>																		
Project #: <i>17283</i>		Project Owner: <i>Mexbourn</i>		City: <i>Hobbs</i>																		
Project Name: <i>Yard bird 34 W2PA Fee 1H</i>				State: <i>NM</i>														Zip: <i>88240</i>				
Project Location: <i>Rural Lovins, NM</i>				Phone #:																		
Sampler Name: <i>Dominic Casarez</i>				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								
<i>H231213</i>																						
<i>DC 1</i>		<i>SW3 B</i>		<i>C</i>	<i>1</i>								<i>3/16</i>									
<i>2</i>		<i>FL18@7</i>		<i>C</i>	<i>1</i>																	
<i>3</i>		<i>FL 7@7</i>		<i>C</i>	<i>1</i>																	

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Relinquished By: <i>[Signature]</i>		Date: <i>3-16</i>		Received By: <i>[Signature]</i>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
		Time: <i>11:23</i>				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:	
Relinquished By:		Date:		Received By:		REMARKS:			
		Time:				Please email results and copy of CoC to pm@etechenv.com.			
Delivered By: (Circle One)		4.9e C-0-0i		Sample Condition					
Sampler - UPS - Bus - Other:		4.3: #113		Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<i>[Signature]</i>			



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

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March 22, 2023

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: YARD BIRD 34 W2 PA FEE 1H

Enclosed are the results of analyses for samples received by the laboratory on 03/17/23 15:38.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/17/2023	Sampling Date:	03/15/2023
Reported:	03/22/2023	Sampling Type:	Soil
Project Name:	YARD BIRD 34 W2 PA FEE 1H	Sampling Condition:	Cool & Intact
Project Number:	17283	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LOVING, NM		

**Sample ID: EW 2 (H231232-01)**

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	03/21/2023	ND	2.11	105	2.00	5.61	
Toluene*	<0.050	0.050	03/21/2023	ND	2.11	106	2.00	5.79	
Ethylbenzene*	<0.050	0.050	03/21/2023	ND	2.19	110	2.00	5.44	
Total Xylenes*	<0.150	0.150	03/21/2023	ND	6.71	112	6.00	4.61	
Total BTEX	<0.300	0.300	03/21/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	03/21/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2023	ND	204	102	200	0.634	
DRO >C10-C28*	<10.0	10.0	03/21/2023	ND	191	95.7	200	0.640	
EXT DRO >C28-C36	<10.0	10.0	03/21/2023	ND					

Surrogate: 1-Chlorooctane 98.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 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:	03/17/2023	Sampling Date:	03/15/2023
Reported:	03/22/2023	Sampling Type:	Soil
Project Name:	YARD BIRD 34 W2 PA FEE 1H	Sampling Condition:	Cool & Intact
Project Number:	17283	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LOVING, NM		

**Sample ID: FL 19 @ 6 (H231232-02)**

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	03/21/2023	ND	2.11	105	2.00	5.61	
Toluene*	<0.050	0.050	03/21/2023	ND	2.11	106	2.00	5.79	
Ethylbenzene*	<0.050	0.050	03/21/2023	ND	2.19	110	2.00	5.44	
Total Xylenes*	<0.150	0.150	03/21/2023	ND	6.71	112	6.00	4.61	
Total BTEX	<0.300	0.300	03/21/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1200	16.0	03/21/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2023	ND	204	102	200	0.634	
DRO >C10-C28*	<10.0	10.0	03/21/2023	ND	191	95.7	200	0.640	
EXT DRO >C28-C36	<10.0	10.0	03/21/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 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:	03/17/2023	Sampling Date:	03/15/2023
Reported:	03/22/2023	Sampling Type:	Soil
Project Name:	YARD BIRD 34 W2 PA FEE 1H	Sampling Condition:	Cool & Intact
Project Number:	17283	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LOVING, NM		

**Sample ID: SW 4 (H231232-03)**

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	03/21/2023	ND	2.11	105	2.00	5.61	
Toluene*	<0.050	0.050	03/21/2023	ND	2.11	106	2.00	5.79	
Ethylbenzene*	<0.050	0.050	03/21/2023	ND	2.19	110	2.00	5.44	
Total Xylenes*	<0.150	0.150	03/21/2023	ND	6.71	112	6.00	4.61	
Total BTEX	<0.300	0.300	03/21/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>1330</b>	16.0	03/21/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2023	ND	204	102	200	0.634	
DRO >C10-C28*	<10.0	10.0	03/21/2023	ND	191	95.7	200	0.640	
EXT DRO >C28-C36	<10.0	10.0	03/21/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 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:	03/17/2023	Sampling Date:	03/17/2023
Reported:	03/22/2023	Sampling Type:	Soil
Project Name:	YARD BIRD 34 W2 PA FEE 1H	Sampling Condition:	Cool & Intact
Project Number:	17283	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LOVING, NM		

**Sample ID: NW 3 B (H231232-04)**

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	03/21/2023	ND	2.11	105	2.00	5.61	
Toluene*	<0.050	0.050	03/21/2023	ND	2.11	106	2.00	5.79	
Ethylbenzene*	<0.050	0.050	03/21/2023	ND	2.19	110	2.00	5.44	
Total Xylenes*	<0.150	0.150	03/21/2023	ND	6.71	112	6.00	4.61	
Total BTEX	<0.300	0.300	03/21/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	03/21/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2023	ND	204	102	200	0.634	
DRO >C10-C28*	<10.0	10.0	03/21/2023	ND	191	95.7	200	0.640	
EXT DRO >C28-C36	<10.0	10.0	03/21/2023	ND					

Surrogate: 1-Chlorooctane 98.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 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:	03/17/2023	Sampling Date:	03/17/2023
Reported:	03/22/2023	Sampling Type:	Soil
Project Name:	YARD BIRD 34 W2 PA FEE 1H	Sampling Condition:	Cool & Intact
Project Number:	17283	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LOVING, NM		

**Sample ID: FL 20 @ 8 (H231232-05)**

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	03/21/2023	ND	2.11	105	2.00	5.61	
Toluene*	<0.050	0.050	03/21/2023	ND	2.11	106	2.00	5.79	
Ethylbenzene*	<0.050	0.050	03/21/2023	ND	2.19	110	2.00	5.44	
Total Xylenes*	<0.150	0.150	03/21/2023	ND	6.71	112	6.00	4.61	
Total BTEX	<0.300	0.300	03/21/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	03/21/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2023	ND	204	102	200	0.634	
DRO >C10-C28*	<10.0	10.0	03/21/2023	ND	191	95.7	200	0.640	
EXT DRO >C28-C36	<10.0	10.0	03/21/2023	ND					

Surrogate: 1-Chlorooctane 88.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.3 % 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:	03/17/2023	Sampling Date:	03/17/2023
Reported:	03/22/2023	Sampling Type:	Soil
Project Name:	YARD BIRD 34 W2 PA FEE 1H	Sampling Condition:	Cool & Intact
Project Number:	17283	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LOVING, NM		

**Sample ID: FL 21 @ 6 (H231232-06)**

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	03/21/2023	ND	2.11	105	2.00	5.61	
Toluene*	<0.050	0.050	03/21/2023	ND	2.11	106	2.00	5.79	
Ethylbenzene*	<0.050	0.050	03/21/2023	ND	2.19	110	2.00	5.44	
Total Xylenes*	<0.150	0.150	03/21/2023	ND	6.71	112	6.00	4.61	
Total BTEX	<0.300	0.300	03/21/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/21/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2023	ND	204	102	200	0.634	
DRO >C10-C28*	<10.0	10.0	03/21/2023	ND	191	95.7	200	0.640	
EXT DRO >C28-C36	<10.0	10.0	03/21/2023	ND					

Surrogate: 1-Chlorooctane 84.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.5 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/17/2023	Sampling Date:	03/17/2023
Reported:	03/22/2023	Sampling Type:	Soil
Project Name:	YARD BIRD 34 W2 PA FEE 1H	Sampling Condition:	Cool & Intact
Project Number:	17283	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LOVING, NM		

**Sample ID: FL 22 @ 5 (H231232-07)**

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	03/21/2023	ND	2.11	105	2.00	5.61	
Toluene*	<0.050	0.050	03/21/2023	ND	2.11	106	2.00	5.79	
Ethylbenzene*	<0.050	0.050	03/21/2023	ND	2.19	110	2.00	5.44	
Total Xylenes*	<0.150	0.150	03/21/2023	ND	6.71	112	6.00	4.61	
Total BTEX	<0.300	0.300	03/21/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/21/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2023	ND	204	102	200	0.634	
DRO >C10-C28*	<10.0	10.0	03/21/2023	ND	191	95.7	200	0.640	
EXT DRO >C28-C36	<10.0	10.0	03/21/2023	ND					

Surrogate: 1-Chlorooctane 92.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.9 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

- 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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Celey D. Keene

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**

Company Name: Etech Environmental & Safety Solutions, Inc.		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>	
Project Manager: Lance Crenshaw		P.O. #:			
Address: 2617 W Marland		Company: Newbourn			
City: Hobbs	State: NM	Zip: 88240	Attn: Jeff Broom		
Phone #: (575) 264-9884	Fax #:		Address: 4001 Bus p. Blvd		
Project #: 17283	Project Owner: Newbourn		City: Hobbs		
Project Name: Yard bird 34 W2PA Fee 1H		State: NM		Zip: 88260	
Project Location: Royal Lovers NM		Phone #:			
Sampler Name: Dominic Casarez		Fax #:			

FOR LAB USE ONLY		(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.		SAMPLING		Chloride	TPH (8015M)	BTEX (8021B)
Lab I.D.	Sample I.D.			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE	ICE / COOL	OTHER :			
H231232															
DC 1	EW2	C	1			✓			✓		3-15				
DC 2	FL19@6	C	1			✓			✓		3-15				
PC 3	SW4	C	1			✓			✓		3-15				
DC 4	NW3 B	C	1			✓			✓		3-17				
DC 5	FL20@8	C	1			✓			✓		3-17				
DC 6	FL21@6	C	1			✓			✓		3-17				
DC 7	FL22@5	C	1			✓			✓		3-17				

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: Dominic Casarez	Date: 3/17	Received By: Tamara Oldaker	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: 1538		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
	Time:		Please email results and copy of CoC to pm@etechenv.com.	
Delivered By: (Circle One)	#113	Sample Condition	CHECKED BY: (Initials)	
Sampler - UPS - Bus - Other: 4.8°C / 4.2°C		Cool Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No	JD	



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

---

March 23, 2023

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: YARD BIRD 34 W2 PA FEE 1H

Enclosed are the results of analyses for samples received by the laboratory on 03/20/23 16:10.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/20/2023	Sampling Date:	03/20/2023
Reported:	03/23/2023	Sampling Type:	Soil
Project Name:	YARD BIRD 34 W2 PA FEE 1H	Sampling Condition:	Cool & Intact
Project Number:	17283	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LOVING, NM		

**Sample ID: FL 23 @ 6 (H231259-01)**

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	03/22/2023	ND	2.22	111	2.00	1.78	
Toluene*	<0.050	0.050	03/22/2023	ND	2.32	116	2.00	0.470	
Ethylbenzene*	<0.050	0.050	03/22/2023	ND	2.45	122	2.00	1.52	
Total Xylenes*	<0.150	0.150	03/22/2023	ND	7.63	127	6.00	1.20	
Total BTEX	<0.300	0.300	03/22/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 125 % 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	03/22/2023	ND	464	116	400	3.51	

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	03/22/2023	ND	173	86.5	200	1.69	
DRO >C10-C28*	<10.0	10.0	03/22/2023	ND	172	86.1	200	3.44	
EXT DRO >C28-C36	<10.0	10.0	03/22/2023	ND					

Surrogate: 1-Chlorooctane 97.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 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:	03/20/2023	Sampling Date:	03/20/2023
Reported:	03/23/2023	Sampling Type:	Soil
Project Name:	YARD BIRD 34 W2 PA FEE 1H	Sampling Condition:	Cool & Intact
Project Number:	17283	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LOVING, NM		

**Sample ID: FL 24 @ 6 (H231259-02)**

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	03/22/2023	ND	2.22	111	2.00	1.78	
Toluene*	<0.050	0.050	03/22/2023	ND	2.32	116	2.00	0.470	
Ethylbenzene*	<0.050	0.050	03/22/2023	ND	2.45	122	2.00	1.52	
Total Xylenes*	<0.150	0.150	03/22/2023	ND	7.63	127	6.00	1.20	
Total BTEX	<0.300	0.300	03/22/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/22/2023	ND	464	116	400	3.51	

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	03/22/2023	ND	173	86.5	200	1.69	
DRO >C10-C28*	<10.0	10.0	03/22/2023	ND	172	86.1	200	3.44	
EXT DRO >C28-C36	<10.0	10.0	03/22/2023	ND					

Surrogate: 1-Chlorooctane 97.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 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: 03/20/2023  
 Reported: 03/23/2023  
 Project Name: YARD BIRD 34 W2 PA FEE 1H  
 Project Number: 17283  
 Project Location: MEWBOURNE - RURAL LOVING, NM

Sampling Date: 03/20/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 25 @ 6 (H231259-03)**

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	03/22/2023	ND	2.22	111	2.00	1.78	
Toluene*	<0.050	0.050	03/22/2023	ND	2.32	116	2.00	0.470	
Ethylbenzene*	<0.050	0.050	03/22/2023	ND	2.45	122	2.00	1.52	
Total Xylenes*	<0.150	0.150	03/22/2023	ND	7.63	127	6.00	1.20	
Total BTEX	<0.300	0.300	03/22/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	03/22/2023	ND	464	116	400	3.51	

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	03/22/2023	ND	173	86.5	200	1.69	
DRO >C10-C28*	<10.0	10.0	03/22/2023	ND	172	86.1	200	3.44	
EXT DRO >C28-C36	<10.0	10.0	03/22/2023	ND					

Surrogate: 1-Chlorooctane 93.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.2 % 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:	03/20/2023	Sampling Date:	03/20/2023
Reported:	03/23/2023	Sampling Type:	Soil
Project Name:	YARD BIRD 34 W2 PA FEE 1H	Sampling Condition:	Cool & Intact
Project Number:	17283	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LOVING, NM		

**Sample ID: FL 26 @ 6 (H231259-04)**

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	03/22/2023	ND	2.22	111	2.00	1.78	
Toluene*	<0.050	0.050	03/22/2023	ND	2.32	116	2.00	0.470	
Ethylbenzene*	<0.050	0.050	03/22/2023	ND	2.45	122	2.00	1.52	
Total Xylenes*	<0.150	0.150	03/22/2023	ND	7.63	127	6.00	1.20	
Total BTEX	<0.300	0.300	03/22/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 123 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/22/2023	ND	464	116	400	3.51	

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	03/22/2023	ND	173	86.5	200	1.69	
DRO >C10-C28*	<10.0	10.0	03/22/2023	ND	172	86.1	200	3.44	
EXT DRO >C28-C36	<10.0	10.0	03/22/2023	ND					

Surrogate: 1-Chlorooctane 98.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

- 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

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager





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

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March 27, 2023

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: YARD BIRD 34 W2 PA FEE 1H

Enclosed are the results of analyses for samples received by the laboratory on 03/21/23 16:25.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/21/2023	Sampling Date:	03/21/2023
Reported:	03/27/2023	Sampling Type:	Soil
Project Name:	YARD BIRD 34 W2 PA FEE 1H	Sampling Condition:	Cool & Intact
Project Number:	17283	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LOVING, NM		

**Sample ID: FL 27 @ 6 (H231291-01)**

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	03/24/2023	ND	2.13	107	2.00	1.68	
Toluene*	<0.050	0.050	03/24/2023	ND	2.17	108	2.00	3.16	
Ethylbenzene*	<0.050	0.050	03/24/2023	ND	2.15	107	2.00	2.22	
Total Xylenes*	<0.150	0.150	03/24/2023	ND	6.73	112	6.00	2.26	
Total BTEX	<0.300	0.300	03/24/2023	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	32.0	16.0	03/24/2023	ND	416	104	400	7.41	

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	03/23/2023	ND	182	90.8	200	0.232	
DRO >C10-C28*	<10.0	10.0	03/23/2023	ND	176	87.9	200	11.6	
EXT DRO >C28-C36	<10.0	10.0	03/23/2023	ND					

Surrogate: 1-Chlorooctane 72.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.2 % 49.1-148

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/21/2023	Sampling Date:	03/21/2023
Reported:	03/27/2023	Sampling Type:	Soil
Project Name:	YARD BIRD 34 W2 PA FEE 1H	Sampling Condition:	Cool & Intact
Project Number:	17283	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LOVING, NM		

**Sample ID: FL 28 @ 6 (H231291-02)**

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	03/24/2023	ND	2.13	107	2.00	1.68	
Toluene*	<0.050	0.050	03/24/2023	ND	2.17	108	2.00	3.16	
Ethylbenzene*	<0.050	0.050	03/24/2023	ND	2.15	107	2.00	2.22	
Total Xylenes*	<0.150	0.150	03/24/2023	ND	6.73	112	6.00	2.26	
Total BTEX	<0.300	0.300	03/24/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.2 % 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	<b>144</b>	16.0	03/24/2023	ND	416	104	400	7.41	

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	03/23/2023	ND	182	90.8	200	0.232	
DRO >C10-C28*	<10.0	10.0	03/23/2023	ND	176	87.9	200	11.6	
EXT DRO >C28-C36	<10.0	10.0	03/23/2023	ND					

Surrogate: 1-Chlorooctane 87.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.3 % 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:	03/21/2023	Sampling Date:	03/21/2023
Reported:	03/27/2023	Sampling Type:	Soil
Project Name:	YARD BIRD 34 W2 PA FEE 1H	Sampling Condition:	Cool & Intact
Project Number:	17283	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LOVING, NM		

**Sample ID: FL 29 @ 6 (H231291-03)**

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	03/24/2023	ND	2.13	107	2.00	1.68	
Toluene*	<0.050	0.050	03/24/2023	ND	2.17	108	2.00	3.16	
Ethylbenzene*	<0.050	0.050	03/24/2023	ND	2.15	107	2.00	2.22	
Total Xylenes*	<0.150	0.150	03/24/2023	ND	6.73	112	6.00	2.26	
Total BTEX	<0.300	0.300	03/24/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	03/24/2023	ND	416	104	400	7.41	

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	03/23/2023	ND	182	90.8	200	0.232	
DRO >C10-C28*	<10.0	10.0	03/23/2023	ND	176	87.9	200	11.6	
EXT DRO >C28-C36	<10.0	10.0	03/23/2023	ND					

Surrogate: 1-Chlorooctane 78.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.9 % 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:	03/21/2023	Sampling Date:	03/21/2023
Reported:	03/27/2023	Sampling Type:	Soil
Project Name:	YARD BIRD 34 W2 PA FEE 1H	Sampling Condition:	Cool & Intact
Project Number:	17283	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LOVING, NM		

**Sample ID: NW 4 (H231291-04)**

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	03/24/2023	ND	2.13	107	2.00	1.68	
Toluene*	<0.050	0.050	03/24/2023	ND	2.17	108	2.00	3.16	
Ethylbenzene*	<0.050	0.050	03/24/2023	ND	2.15	107	2.00	2.22	
Total Xylenes*	<0.150	0.150	03/24/2023	ND	6.73	112	6.00	2.26	
Total BTEX	<0.300	0.300	03/24/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	03/24/2023	ND	416	104	400	7.41	

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	03/23/2023	ND	182	90.8	200	0.232	
DRO >C10-C28*	<10.0	10.0	03/23/2023	ND	176	87.9	200	11.6	
EXT DRO >C28-C36	<10.0	10.0	03/23/2023	ND					

Surrogate: 1-Chlorooctane 89.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Notes and Definitions**

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

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Celey D. Keene, Lab Director/Quality Manager

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

Company Name: Etech Environmental & Safety Solutions, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																				
Project Manager: Lance Crenshaw				P.O. #:				Chloride TPH (8015M) BTEX (8021B)																				
Address: 2617 W Marland				Company: Mewbourn																								
City: Hobbs		State: NM		Zip: 88240		Attn: Jeff Broom																						
Phone #: (575) 264-9884		Fax #:		Address: 4801 Bus & Blvd																								
Project #: 17283		Project Owner: Mewbourn		City: Hobbs																								
Project Name: Yard bird 34 W2PA Fee 14				State: NM zip: 88260																								
Project Location: Karal Loving NM				Phone #:																								
Sampler Name: Dominic Crenshaw				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												
H231291				C	1			✓				✓		3-21		✓✓✓												
DC 1		FL 27 @ 6		C	1			✓				✓		↓		L ↓ ↓												
		2 FL 28 @ 6		C	1			✓				✓		↓														
		3 FL 29 @ 6		C	1			✓				✓		↓														
		4 NW 4		C	1			✓				✓		↓														
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Relinquished By: <i>[Signature]</i>				Date: 3-21		Received By: <i>[Signature]</i>				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Phone #:														
				Time: 11:25						Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Fax #:														
Relinquished By:				Date:		Received By:				REMARKS:  Please email results and copy of CoC to pm@etechenv.com.																		
				Time:																								
Delivered By: (Circle One)						Sample Condition				CHECKED BY:																		
Sampler - UPS - Bus - Other: 4.1c / 3.5c						Cool <input type="checkbox"/> Intact <input checked="" type="checkbox"/>				(Initials) J.O.																		
						<input type="checkbox"/> Yes <input type="checkbox"/> No																						

Page 7 of 7



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

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March 28, 2023

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: YARD BIRD 34 W2 PA FEE 1H

Enclosed are the results of analyses for samples received by the laboratory on 03/22/23 16:20.

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

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:	03/22/2023	Sampling Date:	03/22/2023
Reported:	03/28/2023	Sampling Type:	Soil
Project Name:	YARD BIRD 34 W2 PA FEE 1H	Sampling Condition:	Cool & Intact
Project Number:	17283	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LOVING, NM		

**Sample ID: FL 30 @ 6 (H231325-01)**

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	03/25/2023	ND	2.06	103	2.00	7.06	
Toluene*	<0.050	0.050	03/25/2023	ND	2.13	106	2.00	8.27	
Ethylbenzene*	<0.050	0.050	03/25/2023	ND	2.11	106	2.00	6.57	
Total Xylenes*	<0.150	0.150	03/25/2023	ND	6.37	106	6.00	5.18	
Total BTEX	<0.300	0.300	03/25/2023	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	32.0	16.0	03/27/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/25/2023	ND	182	90.8	200	32.9	
DRO >C10-C28*	<10.0	10.0	03/25/2023	ND	172	86.1	200	36.2	
EXT DRO >C28-C36	<10.0	10.0	03/25/2023	ND					

Surrogate: 1-Chlorooctane 98.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 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:	03/22/2023	Sampling Date:	03/22/2023
Reported:	03/28/2023	Sampling Type:	Soil
Project Name:	YARD BIRD 34 W2 PA FEE 1H	Sampling Condition:	Cool & Intact
Project Number:	17283	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LOVING, NM		

**Sample ID: FL 31 @ 8 (H231325-02)**

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	03/25/2023	ND	2.06	103	2.00	7.06	
Toluene*	<0.050	0.050	03/25/2023	ND	2.13	106	2.00	8.27	
Ethylbenzene*	<0.050	0.050	03/25/2023	ND	2.11	106	2.00	6.57	
Total Xylenes*	<0.150	0.150	03/25/2023	ND	6.37	106	6.00	5.18	
Total BTEX	<0.300	0.300	03/25/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	256	16.0	03/27/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/25/2023	ND	182	90.8	200	32.9	
DRO >C10-C28*	<10.0	10.0	03/25/2023	ND	172	86.1	200	36.2	
EXT DRO >C28-C36	<10.0	10.0	03/25/2023	ND					

Surrogate: 1-Chlorooctane 96.5 % 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:	03/22/2023	Sampling Date:	03/22/2023
Reported:	03/28/2023	Sampling Type:	Soil
Project Name:	YARD BIRD 34 W2 PA FEE 1H	Sampling Condition:	Cool & Intact
Project Number:	17283	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LOVING, NM		

**Sample ID: FL 32 @ 6 (H231325-03)**

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	03/25/2023	ND	2.06	103	2.00	7.06	
Toluene*	<0.050	0.050	03/25/2023	ND	2.13	106	2.00	8.27	
Ethylbenzene*	<0.050	0.050	03/25/2023	ND	2.11	106	2.00	6.57	
Total Xylenes*	<0.150	0.150	03/25/2023	ND	6.37	106	6.00	5.18	
Total BTEX	<0.300	0.300	03/25/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/27/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/25/2023	ND	182	90.8	200	32.9	
DRO >C10-C28*	<10.0	10.0	03/25/2023	ND	172	86.1	200	36.2	
EXT DRO >C28-C36	<10.0	10.0	03/25/2023	ND					

Surrogate: 1-Chlorooctane 98.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 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:	03/22/2023	Sampling Date:	03/22/2023
Reported:	03/28/2023	Sampling Type:	Soil
Project Name:	YARD BIRD 34 W2 PA FEE 1H	Sampling Condition:	Cool & Intact
Project Number:	17283	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LOVING, NM		

**Sample ID: SW 4 B (H231325-04)**

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	03/25/2023	ND	2.06	103	2.00	7.06	
Toluene*	<0.050	0.050	03/25/2023	ND	2.13	106	2.00	8.27	
Ethylbenzene*	<0.050	0.050	03/25/2023	ND	2.11	106	2.00	6.57	
Total Xylenes*	<0.150	0.150	03/25/2023	ND	6.37	106	6.00	5.18	
Total BTEX	<0.300	0.300	03/25/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/27/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/25/2023	ND	182	90.8	200	32.9	
DRO >C10-C28*	<10.0	10.0	03/25/2023	ND	172	86.1	200	36.2	
EXT DRO >C28-C36	<10.0	10.0	03/25/2023	ND					

Surrogate: 1-Chlorooctane 99.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 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:	03/22/2023	Sampling Date:	03/22/2023
Reported:	03/28/2023	Sampling Type:	Soil
Project Name:	YARD BIRD 34 W2 PA FEE 1H	Sampling Condition:	Cool & Intact
Project Number:	17283	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LOVING, NM		

**Sample ID: SW 5 (H231325-05)**

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	03/25/2023	ND	2.06	103	2.00	7.06	
Toluene*	<0.050	0.050	03/25/2023	ND	2.13	106	2.00	8.27	
Ethylbenzene*	<0.050	0.050	03/25/2023	ND	2.11	106	2.00	6.57	
Total Xylenes*	<0.150	0.150	03/25/2023	ND	6.37	106	6.00	5.18	
Total BTEX	<0.300	0.300	03/25/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	03/27/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/25/2023	ND	182	90.8	200	32.9	
DRO >C10-C28*	<10.0	10.0	03/25/2023	ND	172	86.1	200	36.2	
EXT DRO >C28-C36	<10.0	10.0	03/25/2023	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 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:	03/22/2023	Sampling Date:	03/22/2023
Reported:	03/28/2023	Sampling Type:	Soil
Project Name:	YARD BIRD 34 W2 PA FEE 1H	Sampling Condition:	Cool & Intact
Project Number:	17283	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LOVING, NM		

**Sample ID: FL 19 @ 6 1/2 (H231325-06)**

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	03/25/2023	ND	2.06	103	2.00	7.06	
Toluene*	<0.050	0.050	03/25/2023	ND	2.13	106	2.00	8.27	
Ethylbenzene*	<0.050	0.050	03/25/2023	ND	2.11	106	2.00	6.57	
Total Xylenes*	<0.150	0.150	03/25/2023	ND	6.37	106	6.00	5.18	
Total BTEX	<0.300	0.300	03/25/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	03/27/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/25/2023	ND	182	90.8	200	32.9	
DRO >C10-C28*	<10.0	10.0	03/25/2023	ND	172	86.1	200	36.2	
EXT DRO >C28-C36	<10.0	10.0	03/25/2023	ND					

Surrogate: 1-Chlorooctane 97.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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

Company Name: Etech Environmental & Safety Solutions, Inc.		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>													
Project Manager: Lance Crenshaw		P.O. #:		Chloride TPH (8015M) BTEX (8021B)													
Address: 2617 W Marland		Company: Melbourn															
City: Hobbs State: NM Zip: 88240		Attn: Jeff Broom															
Phone #: (575) 264-9884 Fax #:		Address: 4801 Box # Blvd															
Project #: 17283 Project Owner: Melbourn		City: Hobbs															
Project Name: Yard bird 34 W2PA Fac 1 H		State: NM Zip: 88240															
Project Location: Rural Loving NM		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			
H231325																	
DC	1 FL 30 @ 6	C	1			✓				✓			3	22	✓	✓	
	2 FL 31 @ 8	C	1			✓				✓							
	3 FL 32 @ 6	C	1			✓				✓							
	4 SW 4 B	C	1			✓				✓							
	5 SW 5	C	1			✓				✓							
	6 FL 19 @ 1 1/2	C	1			✓				✓							

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Relinquished By:	Date: 3-22	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Date: 10-20	Received By:	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One)	Time:	Sample Condition	REMARKS:	
Sampler - UPS - Bus - Other: 5.3i/4.7i		Cool Intact	Please email results and copy of CoC to pm@etechenv.com.	
		<input type="checkbox"/> Yes <input type="checkbox"/> No		
		<input type="checkbox"/> No <input type="checkbox"/> No		
		CHECKED BY: (Initials)		
		20		



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

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March 29, 2023

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: YARD BIRD 34 W2 PA FEE 1H

Enclosed are the results of analyses for samples received by the laboratory on 03/23/23 16:26.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://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:	03/23/2023	Sampling Date:	03/23/2023
Reported:	03/29/2023	Sampling Type:	Soil
Project Name:	YARD BIRD 34 W2 PA FEE 1H	Sampling Condition:	Cool & Intact
Project Number:	17283	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LOVING, NM		

**Sample ID: SW 6 (H231347-01)**

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	03/27/2023	ND	1.85	92.7	2.00	5.23	
Toluene*	<0.050	0.050	03/27/2023	ND	2.11	105	2.00	6.52	
Ethylbenzene*	<0.050	0.050	03/27/2023	ND	2.28	114	2.00	6.52	
Total Xylenes*	<0.150	0.150	03/27/2023	ND	7.10	118	6.00	5.54	
Total BTEX	<0.300	0.300	03/27/2023	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	128	16.0	03/28/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/25/2023	ND	190	95.1	200	6.11	
DRO >C10-C28*	<10.0	10.0	03/25/2023	ND	190	95.0	200	7.59	
EXT DRO >C28-C36	<10.0	10.0	03/25/2023	ND					

Surrogate: 1-Chlorooctane 95.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.4 % 49.1-148

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\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/23/2023	Sampling Date:	03/23/2023
Reported:	03/29/2023	Sampling Type:	Soil
Project Name:	YARD BIRD 34 W2 PA FEE 1H	Sampling Condition:	Cool & Intact
Project Number:	17283	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LOVING, NM		

**Sample ID: EW 3 (H231347-02)**

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	03/27/2023	ND	1.85	92.7	2.00	5.23	
Toluene*	<0.050	0.050	03/27/2023	ND	2.11	105	2.00	6.52	
Ethylbenzene*	<0.050	0.050	03/27/2023	ND	2.28	114	2.00	6.52	
Total Xylenes*	<0.150	0.150	03/27/2023	ND	7.10	118	6.00	5.54	
Total BTEX	<0.300	0.300	03/27/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	03/28/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/25/2023	ND	190	95.1	200	6.11	
DRO >C10-C28*	<10.0	10.0	03/25/2023	ND	190	95.0	200	7.59	
EXT DRO >C28-C36	<10.0	10.0	03/25/2023	ND					

Surrogate: 1-Chlorooctane 88.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.3 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/23/2023	Sampling Date:	03/23/2023
Reported:	03/29/2023	Sampling Type:	Soil
Project Name:	YARD BIRD 34 W2 PA FEE 1H	Sampling Condition:	Cool & Intact
Project Number:	17283	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LOVING, NM		

**Sample ID: FL 33 @ 6 (H231347-03)**

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	03/27/2023	ND	1.85	92.7	2.00	5.23	
Toluene*	<0.050	0.050	03/27/2023	ND	2.11	105	2.00	6.52	
Ethylbenzene*	<0.050	0.050	03/27/2023	ND	2.28	114	2.00	6.52	
Total Xylenes*	<0.150	0.150	03/27/2023	ND	7.10	118	6.00	5.54	
Total BTEX	<0.300	0.300	03/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 123 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	03/28/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/25/2023	ND	190	95.1	200	6.11	
DRO >C10-C28*	<10.0	10.0	03/25/2023	ND	190	95.0	200	7.59	
EXT DRO >C28-C36	<10.0	10.0	03/25/2023	ND					

Surrogate: 1-Chlorooctane 92.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.4 % 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:	03/23/2023	Sampling Date:	03/23/2023
Reported:	03/29/2023	Sampling Type:	Soil
Project Name:	YARD BIRD 34 W2 PA FEE 1H	Sampling Condition:	Cool & Intact
Project Number:	17283	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LOVING, NM		

**Sample ID: FL 34 @ 6 (H231347-04)**

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	03/27/2023	ND	1.85	92.7	2.00	5.23	
Toluene*	<0.050	0.050	03/27/2023	ND	2.11	105	2.00	6.52	
Ethylbenzene*	<0.050	0.050	03/27/2023	ND	2.28	114	2.00	6.52	
Total Xylenes*	<0.150	0.150	03/27/2023	ND	7.10	118	6.00	5.54	
Total BTEX	<0.300	0.300	03/27/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	03/28/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/25/2023	ND	190	95.1	200	6.11	
DRO >C10-C28*	<10.0	10.0	03/25/2023	ND	190	95.0	200	7.59	
EXT DRO >C28-C36	<10.0	10.0	03/25/2023	ND					

Surrogate: 1-Chlorooctane 78.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.5 % 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:	03/23/2023	Sampling Date:	03/23/2023
Reported:	03/29/2023	Sampling Type:	Soil
Project Name:	YARD BIRD 34 W2 PA FEE 1H	Sampling Condition:	Cool & Intact
Project Number:	17283	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LOVING, NM		

**Sample ID: FL 35 @ 6 (H231347-05)**

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	03/27/2023	ND	1.85	92.7	2.00	5.23	
Toluene*	<0.050	0.050	03/27/2023	ND	2.11	105	2.00	6.52	
Ethylbenzene*	<0.050	0.050	03/27/2023	ND	2.28	114	2.00	6.52	
Total Xylenes*	<0.150	0.150	03/27/2023	ND	7.10	118	6.00	5.54	
Total BTEX	<0.300	0.300	03/27/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	03/28/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/25/2023	ND	190	95.1	200	6.11	
DRO >C10-C28*	<10.0	10.0	03/25/2023	ND	190	95.0	200	7.59	
EXT DRO >C28-C36	<10.0	10.0	03/25/2023	ND					

Surrogate: 1-Chlorooctane 85.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.8 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- 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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*Celey D. Keene*

Celey D. Keene, Lab Director/Quality Manager





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---

March 30, 2023

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: YARD BIRD 34 W2 PA FEE 1H

Enclosed are the results of analyses for samples received by the laboratory on 03/27/23 16:12.

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

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:	03/27/2023	Sampling Date:	03/27/2023
Reported:	03/30/2023	Sampling Type:	Soil
Project Name:	YARD BIRD 34 W2 PA FEE 1H	Sampling Condition:	Cool & Intact
Project Number:	17283	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LOVING, NM		

**Sample ID: NW 5 (H231391-01)**

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	03/29/2023	ND	1.87	93.3	2.00	4.63	
Toluene*	<0.050	0.050	03/29/2023	ND	1.79	89.5	2.00	10.8	
Ethylbenzene*	<0.050	0.050	03/29/2023	ND	1.80	90.1	2.00	15.9	
Total Xylenes*	<0.150	0.150	03/29/2023	ND	5.84	97.3	6.00	16.4	
Total BTEX	<0.300	0.300	03/29/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	03/28/2023	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2023	ND	199	99.7	200	0.484	
DRO >C10-C28*	<10.0	10.0	03/28/2023	ND	196	98.1	200	0.254	
EXT DRO >C28-C36	<10.0	10.0	03/28/2023	ND					

Surrogate: 1-Chlorooctane 94.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.9 % 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:	03/27/2023	Sampling Date:	03/27/2023
Reported:	03/30/2023	Sampling Type:	Soil
Project Name:	YARD BIRD 34 W2 PA FEE 1H	Sampling Condition:	Cool & Intact
Project Number:	17283	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LOVING, NM		

**Sample ID: NW 6 (H231391-02)**

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	03/29/2023	ND	1.87	93.3	2.00	4.63	
Toluene*	<0.050	0.050	03/29/2023	ND	1.79	89.5	2.00	10.8	
Ethylbenzene*	<0.050	0.050	03/29/2023	ND	1.80	90.1	2.00	15.9	
Total Xylenes*	<0.150	0.150	03/29/2023	ND	5.84	97.3	6.00	16.4	
Total BTEX	<0.300	0.300	03/29/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/28/2023	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2023	ND	199	99.7	200	0.484	
DRO >C10-C28*	<10.0	10.0	03/28/2023	ND	196	98.1	200	0.254	
EXT DRO >C28-C36	<10.0	10.0	03/28/2023	ND					

Surrogate: 1-Chlorooctane 93.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.3 % 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:	03/27/2023	Sampling Date:	03/27/2023
Reported:	03/30/2023	Sampling Type:	Soil
Project Name:	YARD BIRD 34 W2 PA FEE 1H	Sampling Condition:	Cool & Intact
Project Number:	17283	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LOVING, NM		

**Sample ID: WW 2 (H231391-03)**

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	03/29/2023	ND	1.87	93.3	2.00	4.63	
Toluene*	<0.050	0.050	03/29/2023	ND	1.79	89.5	2.00	10.8	
Ethylbenzene*	<0.050	0.050	03/29/2023	ND	1.80	90.1	2.00	15.9	
Total Xylenes*	<0.150	0.150	03/29/2023	ND	5.84	97.3	6.00	16.4	
Total BTEX	<0.300	0.300	03/29/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	03/28/2023	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2023	ND	199	99.7	200	0.484	
DRO >C10-C28*	<10.0	10.0	03/28/2023	ND	196	98.1	200	0.254	
EXT DRO >C28-C36	<10.0	10.0	03/28/2023	ND					

Surrogate: 1-Chlorooctane 78.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.3 % 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: 03/27/2023  
 Reported: 03/30/2023  
 Project Name: YARD BIRD 34 W2 PA FEE 1H  
 Project Number: 17283  
 Project Location: MEWBOURNE - RURAL LOVING, NM

Sampling Date: 03/27/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: WW 3 (H231391-04)**

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	03/29/2023	ND	1.87	93.3	2.00	4.63	
Toluene*	<0.050	0.050	03/29/2023	ND	1.79	89.5	2.00	10.8	
Ethylbenzene*	<0.050	0.050	03/29/2023	ND	1.80	90.1	2.00	15.9	
Total Xylenes*	<0.150	0.150	03/29/2023	ND	5.84	97.3	6.00	16.4	
Total BTEX	<0.300	0.300	03/29/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.1 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/28/2023	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2023	ND	199	99.7	200	0.484	
DRO >C10-C28*	<10.0	10.0	03/28/2023	ND	196	98.1	200	0.254	
EXT DRO >C28-C36	<10.0	10.0	03/28/2023	ND					

Surrogate: 1-Chlorooctane 92.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.0 % 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:	03/27/2023	Sampling Date:	03/27/2023
Reported:	03/30/2023	Sampling Type:	Soil
Project Name:	YARD BIRD 34 W2 PA FEE 1H	Sampling Condition:	Cool & Intact
Project Number:	17283	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LOVING, NM		

**Sample ID: SW 7 (H231391-05)**

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	03/29/2023	ND	1.87	93.3	2.00	4.63		
Toluene*	<0.050	0.050	03/29/2023	ND	1.79	89.5	2.00	10.8		
Ethylbenzene*	<0.050	0.050	03/29/2023	ND	1.80	90.1	2.00	15.9		
Total Xylenes*	<0.150	0.150	03/29/2023	ND	5.84	97.3	6.00	16.4		
Total BTEX	<0.300	0.300	03/29/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 88.5 % 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	<16.0	16.0	03/28/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/28/2023	ND	199	99.7	200	0.484		
DRO >C10-C28*	<10.0	10.0	03/28/2023	ND	196	98.1	200	0.254		
EXT DRO >C28-C36	<10.0	10.0	03/28/2023	ND						

Surrogate: 1-Chlorooctane 84.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.4 % 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:	03/27/2023	Sampling Date:	03/27/2023
Reported:	03/30/2023	Sampling Type:	Soil
Project Name:	YARD BIRD 34 W2 PA FEE 1H	Sampling Condition:	Cool & Intact
Project Number:	17283	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LOVING, NM		

**Sample ID: FL 36 @ 4 (H231391-06)**

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	03/29/2023	ND	1.87	93.3	2.00	4.63	
Toluene*	<0.050	0.050	03/29/2023	ND	1.79	89.5	2.00	10.8	
Ethylbenzene*	<0.050	0.050	03/29/2023	ND	1.80	90.1	2.00	15.9	
Total Xylenes*	<0.150	0.150	03/29/2023	ND	5.84	97.3	6.00	16.4	
Total BTEX	<0.300	0.300	03/29/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 85.3 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/28/2023	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2023	ND	199	99.7	200	0.484	
DRO >C10-C28*	<10.0	10.0	03/28/2023	ND	196	98.1	200	0.254	
EXT DRO >C28-C36	<10.0	10.0	03/28/2023	ND					

Surrogate: 1-Chlorooctane 83.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/27/2023	Sampling Date:	03/27/2023
Reported:	03/30/2023	Sampling Type:	Soil
Project Name:	YARD BIRD 34 W2 PA FEE 1H	Sampling Condition:	Cool & Intact
Project Number:	17283	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LOVING, NM		

**Sample ID: FL 37 @ 2 (H231391-07)**

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	03/29/2023	ND	1.87	93.3	2.00	4.63	
Toluene*	<0.050	0.050	03/29/2023	ND	1.79	89.5	2.00	10.8	
Ethylbenzene*	<0.050	0.050	03/29/2023	ND	1.80	90.1	2.00	15.9	
Total Xylenes*	<0.150	0.150	03/29/2023	ND	5.84	97.3	6.00	16.4	
Total BTEX	<0.300	0.300	03/29/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 89.8 % 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	<16.0	16.0	03/28/2023	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2023	ND	199	99.7	200	0.484	
DRO >C10-C28*	<10.0	10.0	03/28/2023	ND	196	98.1	200	0.254	
EXT DRO >C28-C36	<10.0	10.0	03/28/2023	ND					

Surrogate: 1-Chlorooctane 89.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.0 % 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:	03/27/2023	Sampling Date:	03/27/2023
Reported:	03/30/2023	Sampling Type:	Soil
Project Name:	YARD BIRD 34 W2 PA FEE 1H	Sampling Condition:	Cool & Intact
Project Number:	17283	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LOVING, NM		

**Sample ID: FL 38 @ 1 (H231391-08)**

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	03/29/2023	ND	1.87	93.3	2.00	4.63	
Toluene*	<0.050	0.050	03/29/2023	ND	1.79	89.5	2.00	10.8	
Ethylbenzene*	<0.050	0.050	03/29/2023	ND	1.80	90.1	2.00	15.9	
Total Xylenes*	<0.150	0.150	03/29/2023	ND	5.84	97.3	6.00	16.4	
Total BTEX	<0.300	0.300	03/29/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 87.1 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/28/2023	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2023	ND	199	99.7	200	0.484	
DRO >C10-C28*	<10.0	10.0	03/28/2023	ND	196	98.1	200	0.254	
EXT DRO >C28-C36	<10.0	10.0	03/28/2023	ND					

Surrogate: 1-Chlorooctane 89.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.3 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

- QR-04            The RPD for the BS/BSD was outside of historical limits.
- ND                Analyte NOT DETECTED at or above the reporting limit
- RPD               Relative Percent Difference
- \*\*                 Samples not received at proper temperature of 6°C or below.
- \*\*\*                Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

\*=Accredited Analyte

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

*Celey D. Keene*

Celey D. Keene, Lab Director/Quality Manager



# CARDINAL 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.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																		
Project Manager: Lance Crenshaw				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Chloride</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH (8015M)</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX (8021B)</div> </div>																		
Address: 2617 W Marland				Company: Mewbourn																						
City: Hobbs		State: NM		Zip: 88240		Attn: Jeff Broom																				
Phone #: (575) 264-9884		Fax #:		Address: 4811 Bsp Blvd																						
Project #: 17283		Project Owner: Mewbourn		City: Hobbs																						
Project Name: Yard bird 34 WZDA Fee 1H				State: NM Zip: 88240																						
Project Location: Rural Lovi ng NM				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												
H231391				C	1								3-27													
DC 1		NWS		C	1																					
2		NW6		C	1																					
3		WW2		C	1																					
4		WW3		C	1																					
5		SW7		C	1																					
6		FL 36 @ 4		C	1																					
7		FL 37 @ 2		C	1																					
8		FL 38 @ 1		C	1																					
<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: Dom CAZ				Date: 3-27		Received By: [Signature]				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:														
				Time: 1612						Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:														
Relinquished By:				Date:		Received By:				REMARKS:																
				Time:						Please email results and copy of CoC to pm@etechenv.com.																
Delivered By: (Circle One)				Sample Condition				CHECKED BY: (Initials)																		
Sampler - UPS - Bus - Other: 4.1c / 3.5c #113				Cool <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																		

# **Appendix E**

## **Regulatory Correspondence**

---

**From:** Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>  
**Sent:** Friday, March 31, 2023 8:16 AM  
**To:** Lance Crenshaw <lance@etechnv.com>  
**Cc:** Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>  
**Subject:** RE: [EXTERNAL] Confirmation Sampling Notification

Lance,

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

JH

**Jocelyn Harimon** • Environmental Specialist  
Environmental Bureau  
EMNRD - Oil Conservation Division  
1220 South St. Francis Drive | Santa Fe, NM 87505  
(505)469-2821 | [Jocelyn.Harimon@emnrd.nm.gov](mailto:Jocelyn.Harimon@emnrd.nm.gov)  
[http:// www.emnrd.nm.gov](http://www.emnrd.nm.gov)



---

**From:** Lance Crenshaw <[lance@etechnv.com](mailto:lance@etechnv.com)>  
**Sent:** Thursday, March 30, 2023 10:01 AM  
**To:** Enviro, OCD, EMNRD <[OCD.Enviro@emnrd.nm.gov](mailto:OCD.Enviro@emnrd.nm.gov)>  
**Cc:** Joel Lowry <[joel@etechnv.com](mailto:joel@etechnv.com)>; Ben Arguijo <[bena@etechnv.com](mailto:bena@etechnv.com)>; Connor Walker <[cwalker@mewbourne.com](mailto:cwalker@mewbourne.com)>  
**Subject:** [EXTERNAL] Confirmation Sampling Notification

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

This email serves as notice that Etech intends to collect excavation confirmation soil samples on April 4 from the following locations/reportable release sites:

Mewbourne Oil Co –Apollo Yardbirds Frac Line- nAPP2236031213

If you have any questions or need any additional information, please contact Lance Crenshaw by phone (575-631-2532) or email [lance@etechnv.com](mailto:lance@etechnv.com).

**Lance Crenshaw**  
**Etech Environmental & Safety Solutions**  
**575-631-2532**

**Connor Walker**

---

**From:** Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>  
**Sent:** Monday, March 6, 2023 10:54 AM  
**To:** Lance Crenshaw  
**Cc:** Connor Walker; Jeff Broom; Ben Arguijo; Joel Lowry; Bratcher, Michael, EMNRD; Nobui, Jennifer, EMNRD; Harimon, Jocelyn, EMNRD  
**Subject:** [EXT] (Extension Approval) - NMOCD Incident number nAPP2236031213

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

RE: Incident #NAPP2236031213

Lance,

Your request for an extension to **April 25th, 2023** is approved. Etech began the project, but due to the numerous buried high-pressure lines in the area of proposed excavation, this project will take more time than expected. Please include this e-mail correspondence in the remediation and/or closure report.

**Robert Hamlet** • Environmental Specialist - Advanced  
Environmental Bureau  
EMNRD - Oil Conservation Division  
506 W. Texas Ave. | Artesia, NM 88210  
575.909.0302 | [robert.hamlet@state.nm.us](mailto:robert.hamlet@state.nm.us)  
<http://www.emnrd.state.nm.us/OCD/>



---

**From:** Lance Crenshaw <lance@etechnv.com>  
**Sent:** Monday, March 6, 2023 10:45 AM  
**To:** Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>  
**Cc:** Connor Walker <cwalker@mewbourne.com>; jbroom@mewbourne.com; Ben Arguijo <bena@etechnv.com>; Joel Lowry <joel@etechnv.com>  
**Subject:** [EXTERNAL] Extension request- NMOCD Incident number nAPP2236031213

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

Dear NMOCD Environmental Bureau,

Mewbourne Oil Company (Mewbourne) contracted Etech Environmental & Safety Solutions, Inc. (Etech), on February 28, 2023, to assume remediation activities for the release known as the Apollo Yardbirds Frac Line (NMOCD Incident #nAPP2236031213) located in Eddy County. Pursuant to NMOCD regulations, a work plan or closure report was due for the release on March 14, 2022.

Etech has begun this project, but due to the numerous buried high-pressure lines in the area of proposed excavation, this project will take more time than expected.

In consideration of this, Etech, on behalf of Mewbourne, would like to request an extension until April 25, 2023, in order to allow us time to fully complete the closure report and attach supporting documents.

If you have any questions or need any additional information, please do not hesitate to contact me by phone or email.

Thank you for your time and consideration.

**Lance Crenshaw**  
**Etech Environmental & Safety Solutions**  
**575-631-2532**

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

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

CONDITIONS

Action 210476

**CONDITIONS**

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 210476
	Action Type: [C-141] Release Corrective Action (C-141)

**CONDITIONS**

Created By	Condition	Condition Date
rhamlet	We have received your closure report and final C-141 for Incident #NAPP2236031213 APOLLO YARDBIRDS FRAC LINE, thank you. This closure is approved.	9/13/2023