

Incident ID	nAPP2312357379
District RP	
Facility ID	
Application ID	

## Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>315</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas <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 ½-mile of the lateral extents of the release
- ☒ Boring or excavation logs
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

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

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

Printed Name: Connor Walker Title: Sr. Engineer

Signature:  Date: 7/17/2023

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

**OCD Only**

Received by: Shelly Wells Date: 7/17/2023

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## Closure

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

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

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

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

Printed Name: Connor Walker

Title: Sr. Engineer

Signature: 

Date: 7/17/2023

email: cwalker@mewbourne.com


Telephone: (806)202-5281

### OCD Only

Received by: Shelly Wells

Date: 7/17/2023

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: 10/06/2023

Printed Name: Nelson Velez

Title: Environmental Specialist – Adv

Operator did not meet 19.15.29.12D (1a) NMAC on 7 of the 8 sampling events. Forbearance given on 10/06/2023. Release resolved.

## Remediation Summary & Soil Closure Request

### Mewbourne Oil Company Ibex 15/10 Battery SWD Line

Lea County, New Mexico

Unit Letter "P", Section 15, Township 23 South, Range 34 East

Latitude 32.2983526° North, Longitude 103.4530283° West

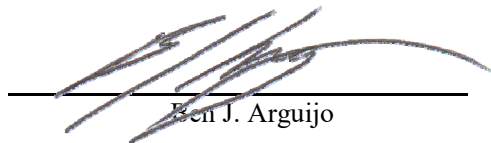
NMOCD Reference No. nAPP2312357379

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 Ibex 15/10 Battery SWD Line (henceforth, "Ibex"). Details of the release are summarized below:

Location of Release Source				
Latitude: 32.2983526°		Longitude: -103.4530283°		
Provided GPS are in WGS84 format.				
Site Name: Ibex 15/10 Battery SWD Line		Site Type: Pipeline		
Date Release Discovered: 4/20/2023		API # (if applicable): N/A		
Unit Letter	Section	Township	Range	County
"P"	15	23S	34E	Lea
Surface Owner: <input checked="" type="checkbox"/> State <input type="checkbox"/> Federal <input type="checkbox"/> Tribal <input type="checkbox"/> Private (Name _____)				
Nature and Volume of Release				
<input type="checkbox"/> Crude Oil	Volume Released (bbls)		Volume Recovered (bbls)	
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 74		Volume Recovered (bbls) 0	
	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 4" poly line split.				
Initial Response				
<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 Ibex 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?	315'	
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 Ibex release site are as follows:

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

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

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

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

## 4.0 REMEDIATION ACTIVITIES SUMMARY

On May 12, 2023, remediation activities commenced at the Ibex release site. In accordance with NMOCD regulatory guidelines, impacted soil affected above the NMOCD Closure Criteria and/or NMOCD Reclamation Standards was excavated and stockpiled on-site, pending transfer to an NMOCD-permitted surface waste facility for disposal. Olfactory/visual senses and/or a chloride test kit were utilized to field-screen the horizontal and vertical extent of impacted soil and to guide the excavation. The sidewalls and floors of the excavation were advanced until field tests and field observations suggested BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standards. Representative five-point composite confirmation soil samples were collected every 200 square feet from the sidewalls and floor of the excavated area to be submitted to a certified, commercial laboratory (henceforth, "the laboratory") for analysis.

On May 16, 2023, Etech collected 19 confirmation soil samples (SW1, SW2, WW1, WW2, and FL 1 @ 2' through FL 15 @ 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 and TPH concentrations were below the applicable NMOCD Closure Criteria, NMOCD Reclamation Standards, and laboratory method detection limit (MDL) in each of the submitted soil samples. Chloride concentrations ranged from 48.0 mg/kg in soil sample SW1 to 736 mg/kg in soil sample SW2, which exceeded the NMOCD Reclamation Standard.

On May 17, 2023, Etech collected five (5) confirmation soil samples (NW1 through NW5) from the sidewalls 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 96.0 mg/kg in soil sample NW5 to 3,320 mg/kg in soil sample NW4. Chloride concentrations in soil samples NW1, NW3, and NW4 exceeded the NMOCD Reclamation Standard.

On May 19, 2023, Etech collected 16 confirmation soil samples (EW1, EW2, and FL 19 @ 1.5' through FL 32 @ 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 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 80.0 mg/kg in soil sample FL 27 @ 1.5' to 1,340 mg/kg in soil sample FL 32 @ 1', which exceeded the NMOCD Reclamation Standard.

On May 22, 2023, based on laboratory analytical results, the excavation was further advanced in the area characterized by soil sample SW2. Etech collected one (1) confirmation soil sample (SW2A) from the sidewall of the newly excavated area. The soil sample was submitted to the laboratory for analysis of chloride. Laboratory analytical results indicated the chloride concentration was 48.0 mg/kg and below the NMOCD Closure Criterion and NMOCD Reclamation Standard.

On May 23, 2023, based on laboratory analytical results, the excavation was further advanced in the areas characterized by soil samples NW1, NW3, and NW4. Etech collected three (3) confirmation soil samples (NW1A, NW3A, and NW4A) from the sidewalls of the newly excavated area. The soil samples were submitted to the laboratory for analysis of chloride. Laboratory analytical results indicated chloride concentrations were below the NMOCD Closure Criterion and NMOCD Reclamation Standard in each of the submitted soil samples and ranged from less than the laboratory MDL in soil sample NW1A to 256 mg/kg in soil sample NW3A.

On May 24, 2023, based on laboratory analytical results, the excavation was further advanced in the area characterized by soil sample FL 32 @ 1'. Etech collected one (1) confirmation soil sample (FL 32 @ 2') from the floor of the newly excavated area. The soil sample was submitted to the laboratory for analysis of chloride. Laboratory analytical results indicated the chloride concentration was 208 mg/kg and below the NMOCD Closure Criterion and NMOCD Reclamation Standard.



On May 25, 2023, Etech collected three (3) confirmation soil samples (FL 16 @ 2', FL 17 @ 2', and FL 18 @ 2') from the floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also less than the applicable laboratory MDL. Chloride concentrations ranged from 80.0 mg/kg in soil samples FL 16 @ 2' and FL 17 @ 2' to 96.0 mg/kg in soil sample FL 18 @ 2'.

The final dimensions of the excavated area were approximately 542 feet in length, three (3) to 54 feet in width, and one (1) to 2.5 feet in depth. During the course of remediation activities, Etech transported approximately 880 cubic yards of impacted soil to an NMOCD-permitted surface waste facility for disposal and imported approximately 880 cubic yards of locally sourced, non-impacted material to the site for use as backfill.

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

## 5.0 RESTORATION, RECLAMATION & RE-VEGETATION PLAN

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

## 6.0 SOIL CLOSURE REQUEST

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

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

## 7.0 LIMITATIONS

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

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

## **8.0 DISTRIBUTION**

***Mewbourne Oil Company***

*4801 Business Park Blvd.*

*Hobbs, NM 88240*

***New Mexico Energy, Minerals and Natural Resources Department***

*Oil Conservation Division, District 1*

*1220 South St. Francis Drive*

*Santa Fe, NM 87505*

***Hobbs Field Office***

*New Mexico State Land Office*

*2827 North Dal Paso Street*

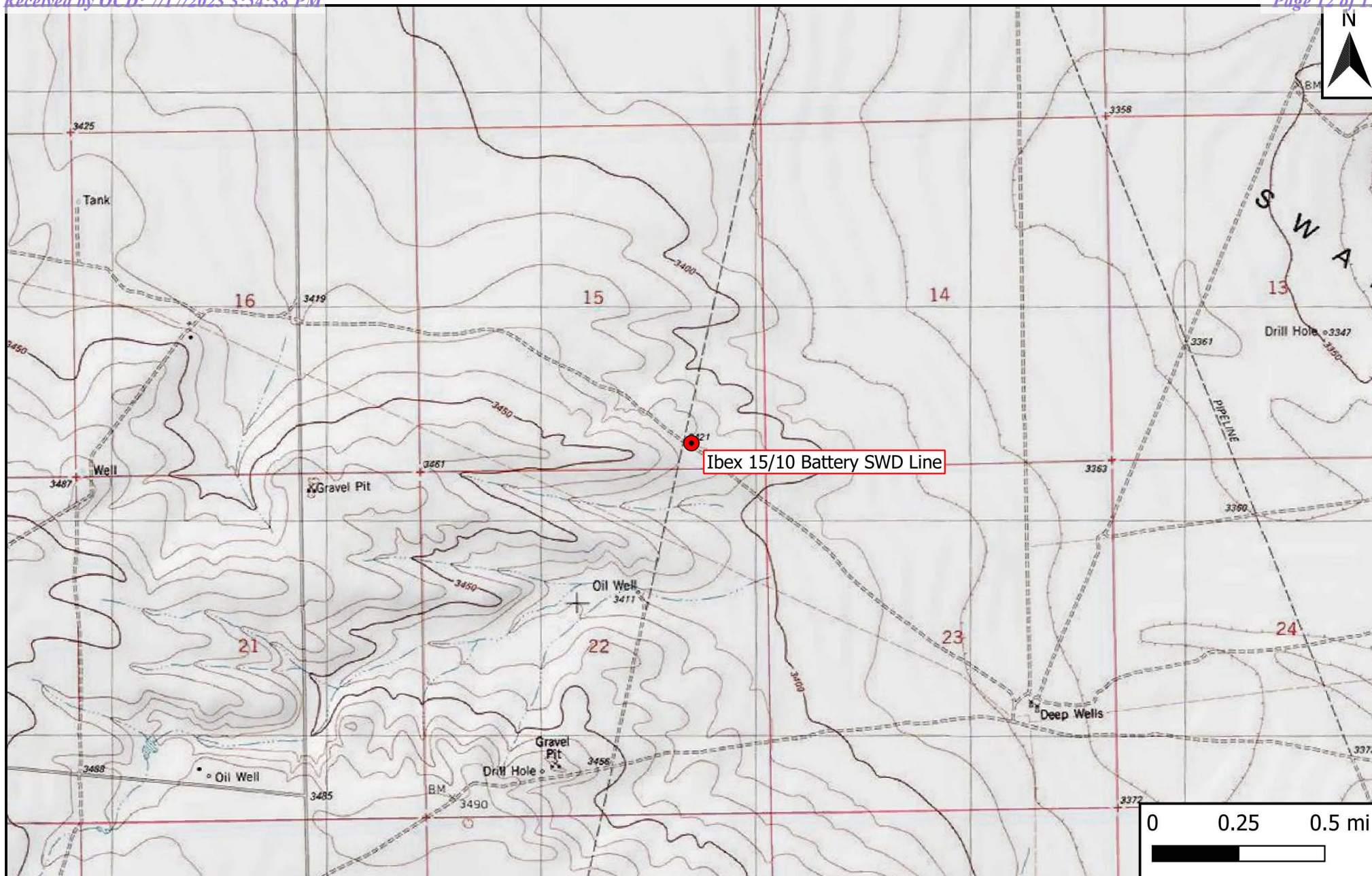
*Suite 117*

*Hobbs, NM 88240*

*(Electronic Submission)*

# **Figure 1**

## **Topographic Map**



## Legend

- Site Location

**Figure 1**  
 Topographic Map  
 Mewbourne Oil Company  
 Ibex 15/10 Battery SWD Line  
 GPS: 32.2983526, -103.4530283  
 Lea County



Drafted: bja

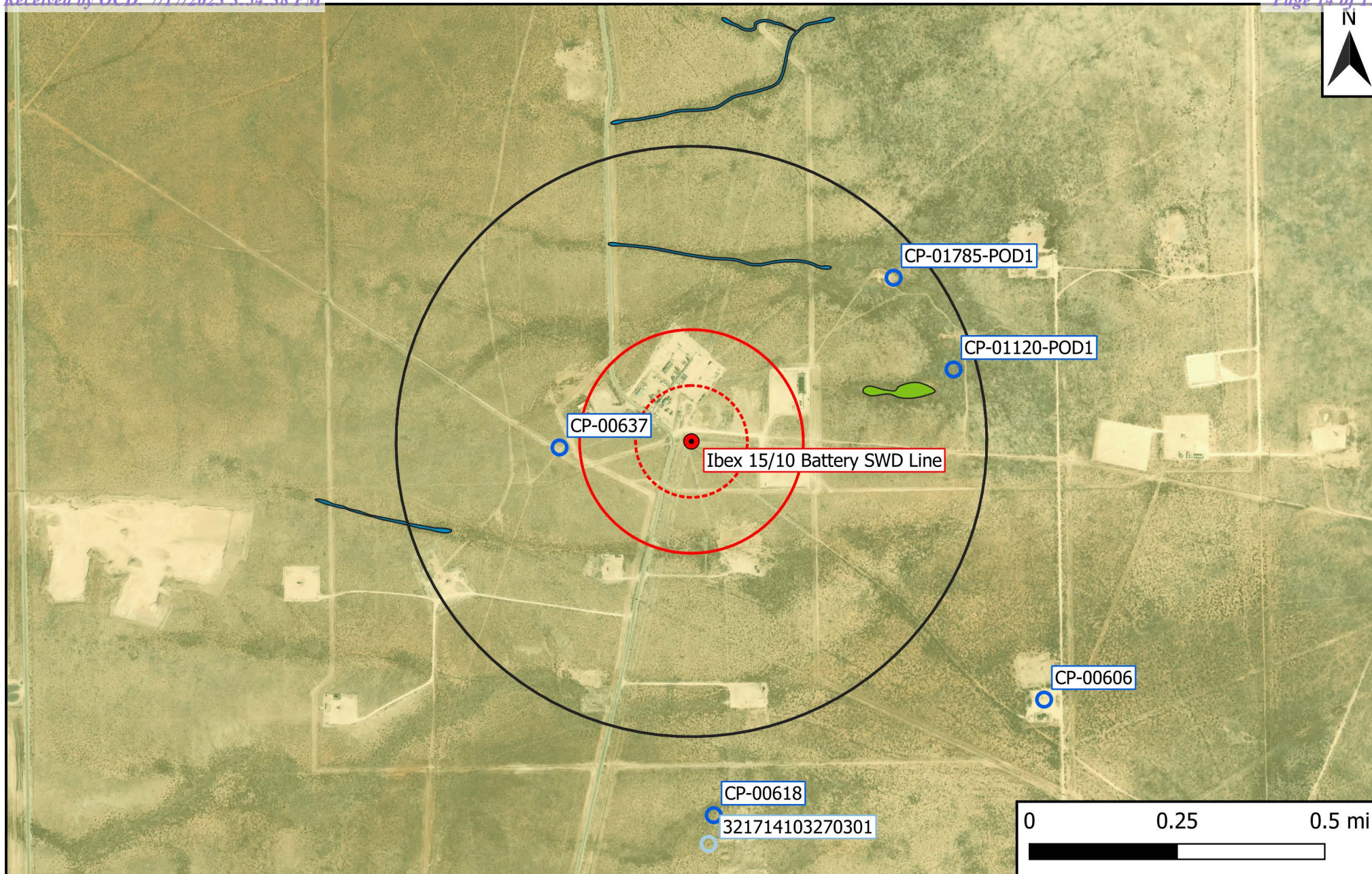
Checked: lc

Date: 6/19/23

## **Figure 2**

### **Site Characterization Map**





## Legend

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

**Figure 2**  
 Site Characterization Map  
 Mewbourne Oil Company  
 Ibex 15/10 Battery SWD Line  
 GPS: 32.2983526, -103.4530283  
 Lea County



Drafted: bja

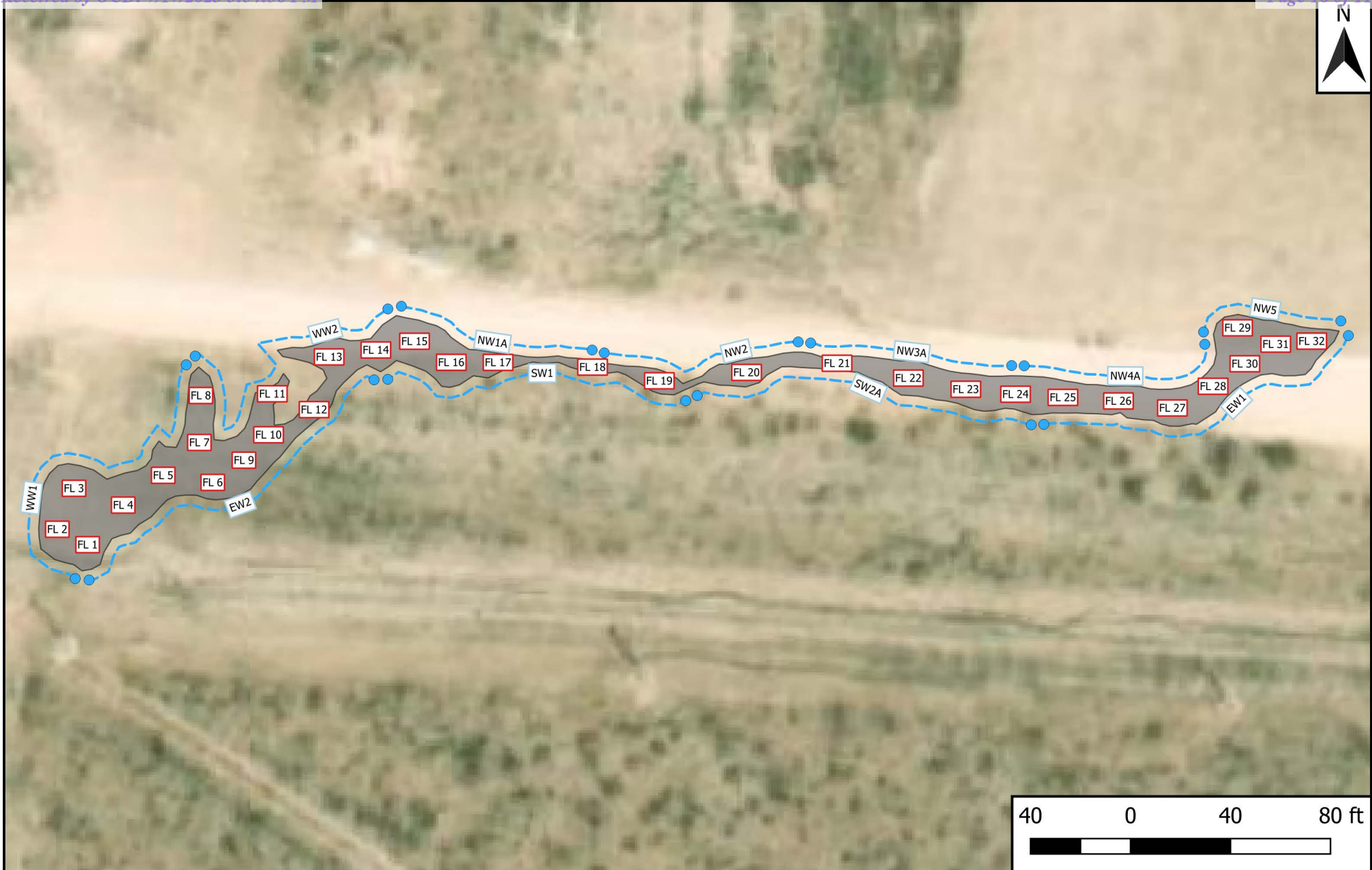
Checked: lc

Date: 6/19/23



## **Figure 3**

### **Site & Sample Location Map**



## Legend

- Excavation Extent
- Composite Floor Sample
- Composite Wall Sample

## Figure 3

Site & Sample Location Map  
 Mewbourne Oil Company  
 Ibox 15/10 Battery SWD Line  
 GPS: 32.2983526, -103.4530283  
 Lea County



Drafted: bja

Checked: lc

Date: 7/12/23



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

<b>Table 1</b> <b>Concentrations of BTEX, TPH &amp; Chloride in Soil</b> <b>Mewbourne Oil Company</b> <b>Ibex 15/10 Battery SWD Line</b> <b>NMOCD Ref. #: nAPP2312357379</b>											
NMOCD Closure Criteria				10	50	N/A	N/A	1,000	N/A	2,500	20,000
NMOCD Reclamation Standard				10	50	N/A	N/A	N/A	N/A	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C <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	5/17/2023	0-2	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,080
NW1A	5/23/2023	0-2	In-Situ	-	-	-	-	-	-	-	<16.0
NW2	5/17/2023	0-1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
NW3	5/17/2023	0-1.5	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,120
NW3A	5/23/2023	0-1.5	In-Situ	-	-	-	-	-	-	-	256
NW4	5/17/2023	0-2.5	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,320
NW4A	5/23/2023	0-2.5	In-Situ	-	-	-	-	-	-	-	128
NW5	5/17/2023	0-2.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
EW1	5/19/2023	0-2.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
EW2	5/19/2023	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
SW1	5/16/2023	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
SW2	5/16/2023	0-1.5	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	736
SW2A	5/22/2023	0-1.5	In-Situ	-	-	-	-	-	-	-	48.0
WW1	5/16/2023	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
WW2	5/16/2023	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL 1 @ 2'	5/16/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 2 @ 2'	5/16/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FL 3 @ 2'	5/16/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
FL 4 @ 2'	5/16/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 5 @ 2'	5/16/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL 6 @ 2'	5/16/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL 7 @ 2'	5/16/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL 8 @ 1'	5/16/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL 9 @ 1'	5/16/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
FL 10 @ 2'	5/16/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
FL 11 @ 2'	5/16/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
FL 12 @ 2'	5/16/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
FL 13 @ 2'	5/16/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
FL 14 @ 2'	5/16/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL 15 @ 1'	5/16/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 16 @ 2'	5/25/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 17 @ 2'	5/25/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 18 @ 2'	5/25/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL 19 @ 1.5'	5/19/2023	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	544
FL 20 @ 1.5'	5/19/2023	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL 21 @ 1.5'	5/19/2023	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FL 22 @ 1.5'	5/19/2023	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FL 23 @ 1.5'	5/19/2023	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL 24 @ 1.5'	5/19/2023	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 25 @ 1.5'	5/19/2023	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FL 26 @ 1.5'	5/19/2023	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL 27 @ 1.5'	5/19/2023	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 28 @ 2.5'	5/19/2023	2.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FL 29 @ 2.5'	5/19/2023	2.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128

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

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

<b>Table 1</b> <b>Concentrations of BTEX, TPH &amp; Chloride in Soil</b> <b>Mewbourne Oil Company</b> <b>Ibex 15/10 Battery SWD Line</b> <b>NMOCD Ref. #: nAPP2312357379</b>											
NMOCD Closure Criteria				10	50	N/A	N/A	1,000	N/A	2,500	20,000
NMOCD Reclamation Standard				10	50	N/A	N/A	N/A	N/A	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C <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 30 @ 2.5'	5/19/2023	2.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL 31 @ 1'	5/19/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	416
FL 32 @ 1'	5/19/2023	1	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,340
FL 32 @ 2'	5/24/2023	2	In-Situ	-	-	-	-	-	-	-	208

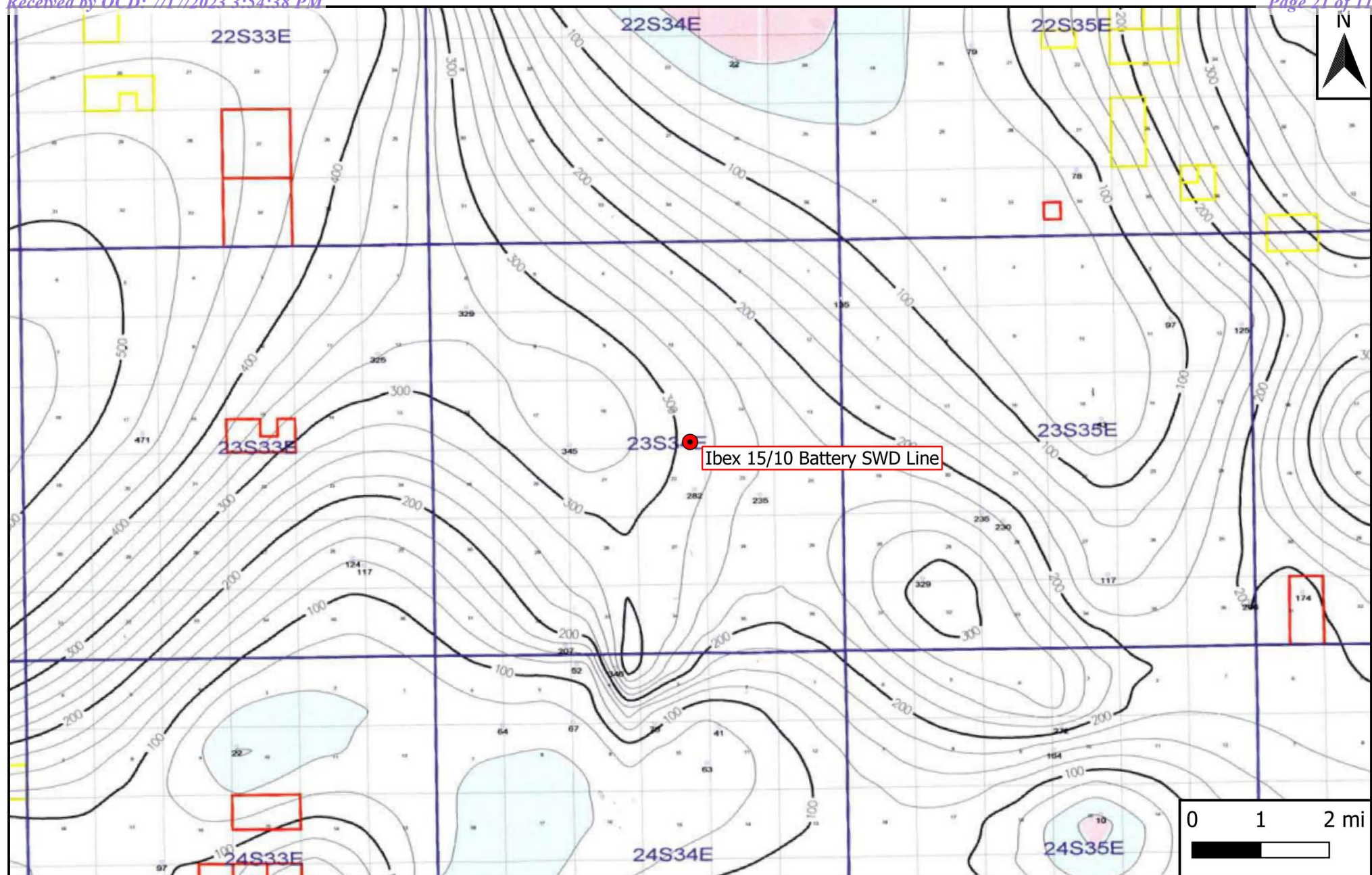
Dash (-): Sample not analyzed for that constituent.

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  
 Ibex 15/10 Battery SWD Line  
 GPS: 32.2983526, -103.4530283  
 Lea County



Drafted: bja

Checked: lc

Date: 6/19/23



# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

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

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

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

(NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 6	Q 4	Q 1	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
<a href="#">CP 00637</a>		CP	LE	3	3	4	15	23S	34E	645293	3574541*	359	430	430	0
<a href="#">CP 01785 POD1</a>		CP	LE	4	1	3	14	23S	34E	646203	3575003	708	488	245	243
<a href="#">CP 01120 POD1</a>		CP	LE	2	3	3	14	23S	34E	646366	3574753	740	397	318	79

Average Depth to Water: **331 feet**

Minimum Depth: **245 feet**

Maximum Depth: **430 feet**

**Record Count:**3

### UTMNAD83 Radius Search (in meters):

**Easting (X):** 645652.25

**Northing (Y):** 3574557.4

**Radius:** 804.67

\*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.

WATER COLUMN/ AVERAGE DEPTH TO WATER



# New Mexico Office of the State Engineer

## Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)						(NAD83 UTM in meters)	
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	CP 00637	3	3	4	15	23S	34E	645293	3574541* 

Driller License: 729		Driller Company:		WHELLER, RAY DRILLING CO.					
Driller Name:		WHEELER, RONALD R							

Drill Start Date: 07/06/1981		Drill Finish Date:		07/09/1981		Plug Date:			
Log File Date: 07/16/1981		PCW Rcv Date:				Source: Shallow			
Pump Type:		Pipe Discharge Size:				Estimated Yield: 100 GPM			
Casing Size: 7.00		Depth Well:		430 feet		Depth Water: 430 feet			

Water Bearing Stratifications:				Top	Bottom	Description
				400	425	Sandstone/Gravel/Conglomerate

Casing Perforations:				Top	Bottom
				400	430

\*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.


POINT OF DIVERSION SUMMARY



# New Mexico Office of the State Engineer

## Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)  
(quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64 Q16 Q4	Sec	Tws	Rng	X	Y
20F8C	CP 01785 POD1	4 1 3	14	23S	34E	646203	3575003 

---

**Driller License:** 1706      **Driller Company:** ELITE DRILLERS CORPORATION  
**Driller Name:** WALLACE, BRYCE J.LEE.NER

**Drill Start Date:** 04/21/2019      **Drill Finish Date:** 04/23/2019      **Plug Date:**  
**Log File Date:** 06/03/2019      **PCW Rcv Date:**      **Source:** Shallow  
**Pump Type:**      **Pipe Discharge Size:**      **Estimated Yield:** 225 GPM  
**Casing Size:** 7.50      **Depth Well:** 488 feet      **Depth Water:** 245 feet

Water Bearing Stratifications:	Top	Bottom	Description
	200	280	Sandstone/Gravel/Conglomerate
	280	370	Sandstone/Gravel/Conglomerate
	370	390	Sandstone/Gravel/Conglomerate
	390	480	Sandstone/Gravel/Conglomerate
	480	488	Shale/Mudstone/Siltstone

Casing Perforations:	Top	Bottom
	250	488

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

POINT OF DIVERSION SUMMARY





# New Mexico Office of the State Engineer

## Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag	POD Number	Q64 Q16 Q4	Sec	Tws	Rng	X	Y
NA	CP 01120 POD1	2 3 3	14	23S	34E	646366	3574753

**Driller License:** 1292**Driller Company:** BENTLE WATER WELL SERVICE**Driller Name:** BENTLE, BILLY L.**Drill Start Date:** 01/09/2013**Drill Finish Date:** 04/06/2013**Plug Date:****Log File Date:** 04/24/2013**PCW Rcv Date:****Source:** Shallow**Pump Type:****Pipe Discharge Size:****Estimated Yield:****Casing Size:** 6.13**Depth Well:** 397 feet**Depth Water:** 318 feet**Water Bearing Stratifications:**

Top	Bottom	Description
0	20	Other/Unknown
43	397	Sandstone/Gravel/Conglomerate

**Casing Perforations:**

Top	Bottom
1	20
20	277
277	397

**Meter Number:** 18968**Meter Make:** TURBINES INC**Meter Serial Number:** 108998109459**Meter Multiplier:** 1.0000**Number of Dials:** 7**Meter Type:** Diversion**Unit of Measure:** Barrels 42 gal.**Return Flow Percent:****Usage Multiplier:****Reading Frequency:** Monthly**Meter Readings (in Acre-Feet)**

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount Online
10/10/2020	2020	2320407	A	RPT	initial reading	0
11/06/2020	2020	2504095	A	RPT		23.676
12/15/2020	2020	2504095	A	RPT		0
01/07/2021	2020	2830778	A	RPT		42.107
02/05/2021	2021	3030795	A	RPT		25.781
08/02/2021	2021	4073778	A	ad		134.434
09/01/2021	2021	4423504	A	ad		45.077
10/05/2021	2021	4547922	A	ad		16.037
11/04/2021	2021	4547922	A	ad		0
12/13/2021	2021	4547922	A	ad		0
01/01/2022	2022	4547922	A	ad		0
02/08/2022	2022	4547922	A	ad		0
03/02/2022	2022	297	A	ad		0
04/01/2022	2022	297	A	ad		0
05/06/2022	2022	297	A	ad		0
06/07/2022	2022	225131	A	ad		28.980

07/10/2022	2022	498455	A	ad	35.230
09/05/2022	2022	966074	A	ad	60.273
10/10/2022	2022	1110750	A	ad	18.648
11/10/2022	2022	1356271	A	ad	31.646
12/27/2022	2022	1437622	A	ad	10.486
05/09/2023	2023	2061841	A	ad	80.458
06/07/2023	2023	2061841	A	ad	0

---

<b>**YTD Meter Amounts:</b>	<b>Year</b>	<b>Amount</b>
	2020	65.783
	2021	221.329
	2022	185.263
	2023	80.458

---

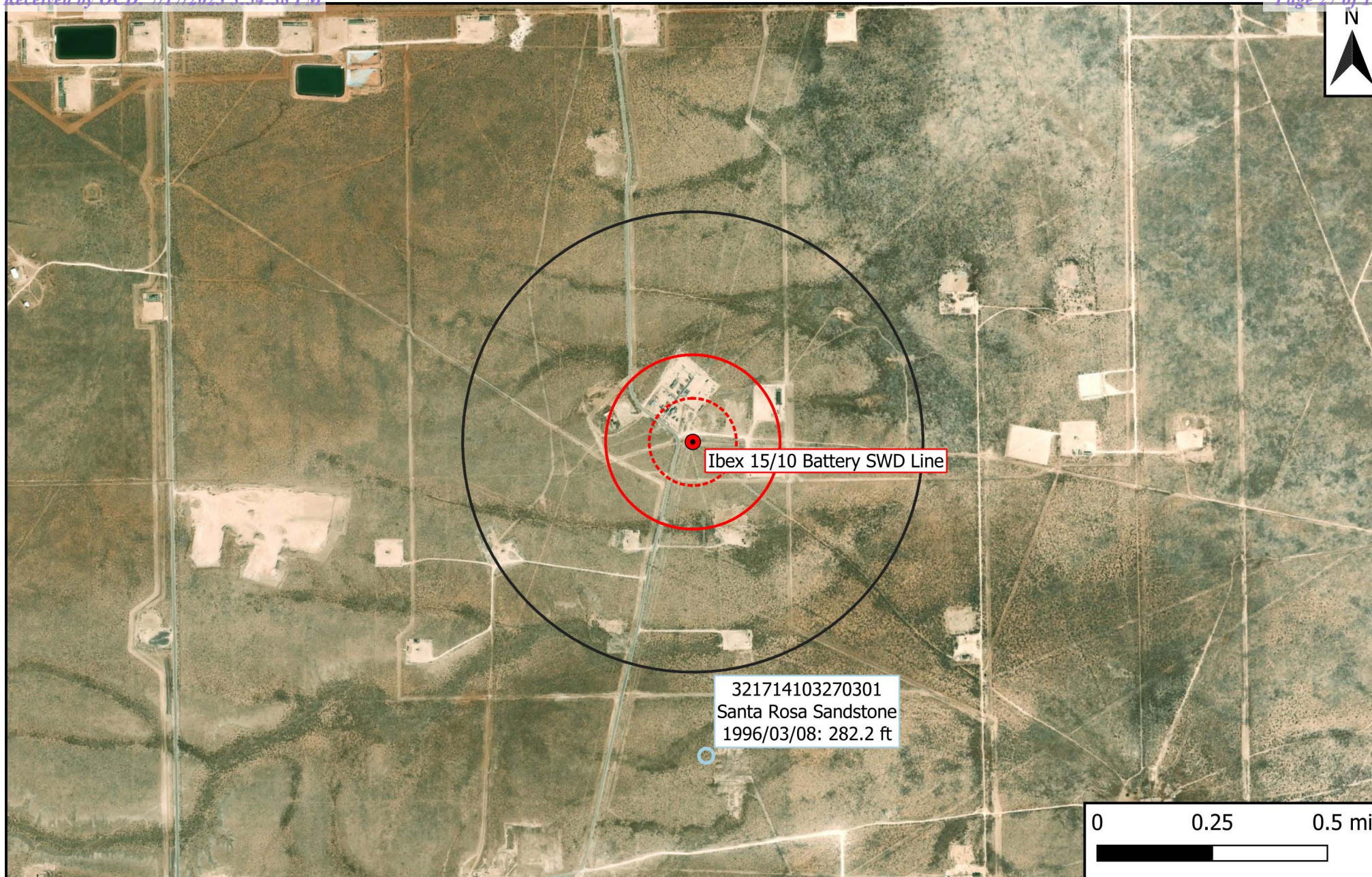
---

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

---

POINT OF DIVERSION  
SUMMARY





## 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  
Ibex 15/10 Battery SWD Line  
GPS: 32.2983526, -103.4530283  
Lea County

**eTECH**  
Environmental & Safety Solutions, Inc.

Drafted: bja

Checked: lc

Date: 6/19/23





USGS Home  
Contact USGS  
Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category: Groundwater  
Geographic Area: United States  
GO

Click forNews Bulletins

Groundwater levels for the Nation

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

Search Results -- 1 sites found

Agency code = usgs

site\_no list =

- 321714103270301

Minimum number of levels = 1

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

USGS 321714103270301 23S.34E.22.421434

Lea County, New Mexico

Latitude 32°17'18", Longitude 103°27'08" NAD27

Land-surface elevation 3,420.00 feet above NGVD29

The depth of the well is 428 feet below land surface.

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

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

Output formats

Table of data											
Tab-separated data											
Graph of data											
Reselect period											
Date	Time	Water-level date-time accuracy	Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	Status	Method of measurement	Measuring agency	Source of measurement	Water-level approval status
			7								
1981-03-30		D	72019	284.11			1	Z			A
1986-03-21		D	72019	283.97			1	Z			A
1991-05-30		D	72019	282.28			1	Z			A
1996-03-08		D	72019	282.20			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.

[Questions or Comments](#)[Automated retrievals](#)[Help](#)[Data Tips](#)[Explanation of terms](#)[Subscribe for system changes](#)[News](#)[Accessibility](#) [FOIA](#) [Privacy](#) [Policies and Notices](#)[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)**Title: Groundwater for USA: Water Levels****URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>**Page Contact Information: [USGS Water Data Support Team](#)

Page Last Modified: 2023-07-12 13:32:48 EDT

0.3 0.25 nadww02

## **Appendix B**

### **Field Data**



## Sample Log

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

Project: Ibex 15/10

Project Number: 18110 Latitude: 32.298521 Longitude: -103.452182

Sample ID	PID/Odor	Chloride Conc.	GPS
FL102'	-	408	
FL202'	-	284	
FL302'	-	364	
FL402'	-	364	
FL502'	-	408	
FL602'	-	364	
FL702'	-	364	
SW1	-	364	
SW2	-	324	
FL801'	-	408	
FL901'	-	500	
FL1002'	-	1,052	
FL1102'	-	364	
FL1202' \ FL1202.5	-	716 \ 552	
FL1302'	-	552	
FL1402' \ FL142.5	-	1,398 \ 452	
WW1	-	236	
WW2	-	180	
FL1501'	-	412	
FL1601' \ FL1602'	-	656 \ 372	
FL1701' \ FL1702'	-	600 \ 412	
FL1801' \ FL1802'	-	656 \ 372	
FL1906inch \ FL1901.5	-	2,588 \ 500	
FL2006inch \ FL2001.5	-	2,588 \ 372	
FL2106inch \ FL2101.5	-	1,052 \ 552	
FL2206inch \ FL2201.5	-	908 \ 552	
FL2306inch \ FL2301.5	-	2,236 \ 552	
FL2406inch \ FL2401.5	-	1,948 \ 552	
FL2506inch \ FL2501.5	-	2,404 \ 456	
FL2606inch \ FL2601.5	-	1,484 \ 372	
NW1 364	-	364	
NW2 364	-	364	
NW3 408	-	408	
NW4 552	-	552	
NW5 408	-	408	
FW1	-	412	

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

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

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

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas



## Sample Log

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

Project: Ibex 15/10

Project Number: 18110      Latitude: 32.298521      Longitude: -103.452182

[illegible]

**Sample Point = SP #1 @ ## etc**

**Floor = FL #1 etc**

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

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

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

**Stockpile = Stockpile #1**

**GPS Sample Points, Center of Comp Areas**




## **Appendix C**

### **Photographic Log**

## Photographic Log

<b>Photo Number:</b> 1	 <p>21Apr23 08:29 MOC Ibox 15/10 Flow Line Jal NM 88252, United States © 21-Apr-23 08:29:39</p>
<b>Photo Direction:</b> South-Southeast	
<b>Photo Description:</b>  View of the point of release.	

<b>Photo Number:</b> 2	 <p>21Apr23 08:16 MOC Ibox 15/10 Flow Line Jal NM 88252, United States © 21-Apr-23 08:16:26</p>
<b>Photo Direction:</b> North-Northwest	
<b>Photo Description:</b>  View of the affected area.	




## Photographic Log

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

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

## Photographic Log

<b>Photo Number:</b> 5	 <p>Metadata: WGS84 32.29857, ±16ft -103.45274; Alt 3422 ft ±11ft; Temp 71°F ±17; E97</p> <p>21 Apr 23 08:30 MOC Ibex 15/10 Flow Line 147-149 Adobe Rd, Jal NM 88252, US © 21-Apr-23 08:30:43</p>
<b>Photo Direction:</b> East	
<b>Photo Description:</b>  View of the affected area.	

<b>Photo Number:</b> 6	 <p>Metadata: 5/22/23, 8:38 AM; +32.298338, -103.453025; NM, Jal, Adobe Rd</p>
<b>Photo Direction:</b> South	
<b>Photo Description:</b>  View of the excavated area.	



## Photographic Log

<b>Photo Number:</b> 7	 <p>5/22/23, 8:38 AM +32.298338, -103.453025 NM, Jal, Adobe Rd</p>
<b>Photo Direction:</b> South	
<b>Photo Description:</b>  View of the excavated area.	

<b>Photo Number:</b> 8	 <p>5/22/23, 8:39 AM +32.298564, -103.452808 NM, Jal, Adobe Rd</p>
<b>Photo Direction:</b> South	
<b>Photo Description:</b>  View of the excavated area.	


## Photographic Log


<b>Photo Number:</b> 9	
<b>Photo Direction:</b> South	
<b>Photo Description:</b>  View of the excavated area.	

<b>Photo Number:</b> 10	
<b>Photo Direction:</b> South	
<b>Photo Description:</b>  View of the excavated area.	




## Photographic Log

<b>Photo Number:</b> 11	
<b>Photo Direction:</b> Southeast	
<b>Photo Description:</b>  View of the remediated area after backfill and regrading.	

<b>Photo Number:</b> 12	
<b>Photo Direction:</b> East	
<b>Photo Description:</b>  View of the remediated area after backfill and regrading.	

## Photographic Log

<b>Photo Number:</b> 13	 <p>6/5/23, 1:49 PM +32.298645,-103.452632 NM, Jal</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>6/5/23, 1:50 PM +32.298479,-103.450952 NM, Jal</p>
<b>Photo Direction:</b> West	
<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

---

May 22, 2023

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: IBEX 15/10

Enclosed are the results of analyses for samples received by the laboratory on 05/16/23 15:15.

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: 05/16/2023  
 Reported: 05/22/2023  
 Project Name: IBEX 15/10  
 Project Number: 18110  
 Project Location: MEWBOURNE

Sampling Date: 05/16/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 1 @ 2' (H232454-01)**

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	05/18/2023	ND	2.11	106	2.00	2.98		
Toluene*	<0.050	0.050	05/18/2023	ND	2.17	109	2.00	4.82		
Ethylbenzene*	<0.050	0.050	05/18/2023	ND	2.23	112	2.00	4.93		
Total Xylenes*	<0.150	0.150	05/18/2023	ND	6.56	109	6.00	5.45		
Total BTEX	<0.300	0.300	05/18/2023	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	160	16.0	05/17/2023	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	05/17/2023	ND	158	78.9	200	2.80	
DRO >C10-C28*	<10.0	10.0	05/17/2023	ND	158	78.9	200	0.380	
EXT DRO >C28-C36	<10.0	10.0	05/17/2023	ND					

Surrogate: 1-Chlorooctane 78.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.1 % 49.1-148

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\*=Accredited Analyte

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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: 05/16/2023  
 Reported: 05/22/2023  
 Project Name: IBEX 15/10  
 Project Number: 18110  
 Project Location: MEWBOURNE

Sampling Date: 05/16/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 2 @ 2' (H232454-02)**

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	05/18/2023	ND	2.11	106	2.00	2.98	
Toluene*	<0.050	0.050	05/18/2023	ND	2.17	109	2.00	4.82	
Ethylbenzene*	<0.050	0.050	05/18/2023	ND	2.23	112	2.00	4.93	
Total Xylenes*	<0.150	0.150	05/18/2023	ND	6.56	109	6.00	5.45	
Total BTEX	<0.300	0.300	05/18/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	05/17/2023	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	05/17/2023	ND	158	78.9	200	2.80	
DRO >C10-C28*	<10.0	10.0	05/17/2023	ND	158	78.9	200	0.380	
EXT DRO >C28-C36	<10.0	10.0	05/17/2023	ND					

Surrogate: 1-Chlorooctane 68.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 05/16/2023  
 Reported: 05/22/2023  
 Project Name: IBEX 15/10  
 Project Number: 18110  
 Project Location: MEWBOURNE

Sampling Date: 05/16/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 3 @ 2' (H232454-03)**

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	05/18/2023	ND	2.11	106	2.00	2.98	
Toluene*	<0.050	0.050	05/18/2023	ND	2.17	109	2.00	4.82	
Ethylbenzene*	<0.050	0.050	05/18/2023	ND	2.23	112	2.00	4.93	
Total Xylenes*	<0.150	0.150	05/18/2023	ND	6.56	109	6.00	5.45	
Total BTEX	<0.300	0.300	05/18/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	05/17/2023	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	05/17/2023	ND	158	78.9	200	2.80	
DRO >C10-C28*	<10.0	10.0	05/17/2023	ND	158	78.9	200	0.380	
EXT DRO >C28-C36	<10.0	10.0	05/17/2023	ND					

Surrogate: 1-Chlorooctane 67.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 67.8 % 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: 05/16/2023  
 Reported: 05/22/2023  
 Project Name: IBEX 15/10  
 Project Number: 18110  
 Project Location: MEWBOURNE

Sampling Date: 05/16/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 4 @ 2' (H232454-04)**

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	05/18/2023	ND	2.11	106	2.00	2.98	
Toluene*	<0.050	0.050	05/18/2023	ND	2.17	109	2.00	4.82	
Ethylbenzene*	<0.050	0.050	05/18/2023	ND	2.23	112	2.00	4.93	
Total Xylenes*	<0.150	0.150	05/18/2023	ND	6.56	109	6.00	5.45	
Total BTEx	<0.300	0.300	05/18/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/17/2023	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	05/18/2023	ND	158	78.9	200	2.80	
DRO >C10-C28*	<10.0	10.0	05/18/2023	ND	158	78.9	200	0.380	
EXT DRO >C28-C36	<10.0	10.0	05/18/2023	ND					

Surrogate: 1-Chlorooctane 75.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 05/16/2023  
 Reported: 05/22/2023  
 Project Name: IBEX 15/10  
 Project Number: 18110  
 Project Location: MEWBOURNE

Sampling Date: 05/16/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 5 @ 2' (H232454-05)**

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	05/18/2023	ND	2.11	106	2.00	2.98	
Toluene*	<0.050	0.050	05/18/2023	ND	2.17	109	2.00	4.82	
Ethylbenzene*	<0.050	0.050	05/18/2023	ND	2.23	112	2.00	4.93	
Total Xylenes*	<0.150	0.150	05/18/2023	ND	6.56	109	6.00	5.45	
Total BTEX	<0.300	0.300	05/18/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	05/17/2023	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	05/18/2023	ND	158	78.9	200	2.80	
DRO >C10-C28*	<10.0	10.0	05/18/2023	ND	158	78.9	200	0.380	
EXT DRO >C28-C36	<10.0	10.0	05/18/2023	ND					

Surrogate: 1-Chlorooctane 76.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.2 % 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: 05/16/2023  
 Reported: 05/22/2023  
 Project Name: IBEX 15/10  
 Project Number: 18110  
 Project Location: MEWBOURNE

Sampling Date: 05/16/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 6 @ 2' (H232454-06)**

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	05/18/2023	ND	2.11	106	2.00	2.98	
Toluene*	<0.050	0.050	05/18/2023	ND	2.17	109	2.00	4.82	
Ethylbenzene*	<0.050	0.050	05/18/2023	ND	2.23	112	2.00	4.93	
Total Xylenes*	<0.150	0.150	05/18/2023	ND	6.56	109	6.00	5.45	
Total BTEX	<0.300	0.300	05/18/2023	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	112	16.0	05/17/2023	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	05/18/2023	ND	158	78.9	200	2.80	
DRO >C10-C28*	<10.0	10.0	05/18/2023	ND	158	78.9	200	0.380	
EXT DRO >C28-C36	<10.0	10.0	05/18/2023	ND					

Surrogate: 1-Chlorooctane 75.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.2 % 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: 05/16/2023  
 Reported: 05/22/2023  
 Project Name: IBEX 15/10  
 Project Number: 18110  
 Project Location: MEWBOURNE

Sampling Date: 05/16/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 7 @ 2' (H232454-07)**

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	05/18/2023	ND	2.11	106	2.00	2.98	
Toluene*	<0.050	0.050	05/18/2023	ND	2.17	109	2.00	4.82	
Ethylbenzene*	<0.050	0.050	05/18/2023	ND	2.23	112	2.00	4.93	
Total Xylenes*	<0.150	0.150	05/18/2023	ND	6.56	109	6.00	5.45	
Total BTEX	<0.300	0.300	05/18/2023	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	112	16.0	05/17/2023	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	05/18/2023	ND	158	78.9	200	2.80	
DRO >C10-C28*	<10.0	10.0	05/18/2023	ND	158	78.9	200	0.380	
EXT DRO >C28-C36	<10.0	10.0	05/18/2023	ND					

Surrogate: 1-Chlorooctane 76.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.2 % 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: 05/16/2023  
 Reported: 05/22/2023  
 Project Name: IBEX 15/10  
 Project Number: 18110  
 Project Location: MEWBOURNE

Sampling Date: 05/16/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW 1 (H232454-08)**

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	05/18/2023	ND	2.11	106	2.00	2.98		
Toluene*	<0.050	0.050	05/18/2023	ND	2.17	109	2.00	4.82		
Ethylbenzene*	<0.050	0.050	05/18/2023	ND	2.23	112	2.00	4.93		
Total Xylenes*	<0.150	0.150	05/18/2023	ND	6.56	109	6.00	5.45		
Total BTEX	<0.300	0.300	05/18/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	05/17/2023	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	05/18/2023	ND	158	78.9	200	2.80	
DRO >C10-C28*	<10.0	10.0	05/18/2023	ND	158	78.9	200	0.380	
EXT DRO >C28-C36	<10.0	10.0	05/18/2023	ND					

Surrogate: 1-Chlorooctane 79.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.7 % 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: 05/16/2023  
 Reported: 05/22/2023  
 Project Name: IBEX 15/10  
 Project Number: 18110  
 Project Location: MEWBOURNE

Sampling Date: 05/16/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW 2 (H232454-09)**

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	05/18/2023	ND	2.11	106	2.00	2.98		
Toluene*	<0.050	0.050	05/18/2023	ND	2.17	109	2.00	4.82		
Ethylbenzene*	<0.050	0.050	05/18/2023	ND	2.23	112	2.00	4.93		
Total Xylenes*	<0.150	0.150	05/18/2023	ND	6.56	109	6.00	5.45		
Total BTEX	<0.300	0.300	05/18/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	736	16.0	05/17/2023	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	05/18/2023	ND	158	78.9	200	2.80	
DRO >C10-C28*	<10.0	10.0	05/18/2023	ND	158	78.9	200	0.380	
EXT DRO >C28-C36	<10.0	10.0	05/18/2023	ND					

Surrogate: 1-Chlorooctane 82.0 % 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: 05/16/2023  
 Reported: 05/22/2023  
 Project Name: IBEX 15/10  
 Project Number: 18110  
 Project Location: MEWBOURNE

Sampling Date: 05/16/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 8 @ 1' (H232454-10)**

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	05/19/2023	ND	2.15	108	2.00	0.977		
Toluene*	<0.050	0.050	05/19/2023	ND	2.13	106	2.00	0.730		
Ethylbenzene*	<0.050	0.050	05/19/2023	ND	2.22	111	2.00	0.374		
Total Xylenes*	<0.150	0.150	05/19/2023	ND	6.56	109	6.00	0.285		
Total BTEx	<0.300	0.300	05/19/2023	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	128	16.0	05/17/2023	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	05/18/2023	ND	158	78.9	200	2.80	
DRO >C10-C28*	<10.0	10.0	05/18/2023	ND	158	78.9	200	0.380	
EXT DRO >C28-C36	<10.0	10.0	05/18/2023	ND					

Surrogate: 1-Chlorooctane 73.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.7 % 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: 05/16/2023  
 Reported: 05/22/2023  
 Project Name: IBEX 15/10  
 Project Number: 18110  
 Project Location: MEWBOURNE

Sampling Date: 05/16/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 9 @ 1' (H232454-11)**

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	05/19/2023	ND	2.15	108	2.00	0.977		
Toluene*	<0.050	0.050	05/19/2023	ND	2.13	106	2.00	0.730		
Ethylbenzene*	<0.050	0.050	05/19/2023	ND	2.22	111	2.00	0.374		
Total Xylenes*	<0.150	0.150	05/19/2023	ND	6.56	109	6.00	0.285		
Total BTEX	<0.300	0.300	05/19/2023	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	192	16.0	05/17/2023	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	05/18/2023	ND	158	78.9	200	2.80	
DRO >C10-C28*	<10.0	10.0	05/18/2023	ND	158	78.9	200	0.380	
EXT DRO >C28-C36	<10.0	10.0	05/18/2023	ND					

Surrogate: 1-Chlorooctane 65.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 66.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 05/16/2023  
 Reported: 05/22/2023  
 Project Name: IBEX 15/10  
 Project Number: 18110  
 Project Location: MEWBOURNE

Sampling Date: 05/16/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 10 @ 2' (H232454-12)**

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/19/2023	ND	2.15	108	2.00	0.977	
Toluene*	<0.050	0.050	05/19/2023	ND	2.13	106	2.00	0.730	
Ethylbenzene*	<0.050	0.050	05/19/2023	ND	2.22	111	2.00	0.374	
Total Xylenes*	<0.150	0.150	05/19/2023	ND	6.56	109	6.00	0.285	
Total BTEx	<0.300	0.300	05/19/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	05/17/2023	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	05/18/2023	ND	158	78.9	200	2.80	
DRO >C10-C28*	<10.0	10.0	05/18/2023	ND	158	78.9	200	0.380	
EXT DRO >C28-C36	<10.0	10.0	05/18/2023	ND					

Surrogate: 1-Chlorooctane 76.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.5 % 49.1-148

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**Analytical Results For:**

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

Received: 05/16/2023  
 Reported: 05/22/2023  
 Project Name: IBEX 15/10  
 Project Number: 18110  
 Project Location: MEWBOURNE

Sampling Date: 05/16/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 11 @ 2' (H232454-13)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/19/2023	ND	2.15	108	2.00	0.977		
Toluene*	<0.050	0.050	05/19/2023	ND	2.13	106	2.00	0.730		
Ethylbenzene*	<0.050	0.050	05/19/2023	ND	2.22	111	2.00	0.374		
Total Xylenes*	<0.150	0.150	05/19/2023	ND	6.56	109	6.00	0.285		
Total BTEx	<0.300	0.300	05/19/2023	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	272	16.0	05/17/2023	ND	400	100	400	3.92	QM-07	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2023	ND	158	78.9	200	2.80	
DRO >C10-C28*	<10.0	10.0	05/18/2023	ND	158	78.9	200	0.380	
EXT DRO >C28-C36	<10.0	10.0	05/18/2023	ND					

Surrogate: 1-Chlorooctane 74.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.4 % 49.1-148

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**Analytical Results For:**

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 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 05/16/2023  
 Reported: 05/22/2023  
 Project Name: IBEX 15/10  
 Project Number: 18110  
 Project Location: MEWBOURNE

Sampling Date: 05/16/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 12 @ 2' (H232454-14)**

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/19/2023	ND	2.15	108	2.00	0.977	
Toluene*	<0.050	0.050	05/19/2023	ND	2.13	106	2.00	0.730	
Ethylbenzene*	<0.050	0.050	05/19/2023	ND	2.22	111	2.00	0.374	
Total Xylenes*	<0.150	0.150	05/19/2023	ND	6.56	109	6.00	0.285	
Total BTEX	<0.300	0.300	05/19/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	05/17/2023	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	05/18/2023	ND	158	78.9	200	2.80	
DRO >C10-C28*	<10.0	10.0	05/18/2023	ND	158	78.9	200	0.380	
EXT DRO >C28-C36	<10.0	10.0	05/18/2023	ND					

Surrogate: 1-Chlorooctane 78.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.3 % 49.1-148

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**Analytical Results For:**

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

Received: 05/16/2023  
 Reported: 05/22/2023  
 Project Name: IBEX 15/10  
 Project Number: 18110  
 Project Location: MEWBOURNE

Sampling Date: 05/16/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 13 @ 2' (H232454-15)**

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/19/2023	ND	2.15	108	2.00	0.977	
Toluene*	<0.050	0.050	05/19/2023	ND	2.13	106	2.00	0.730	
Ethylbenzene*	<0.050	0.050	05/19/2023	ND	2.22	111	2.00	0.374	
Total Xylenes*	<0.150	0.150	05/19/2023	ND	6.56	109	6.00	0.285	
Total BTEX	<0.300	0.300	05/19/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	05/17/2023	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	05/18/2023	ND	189	94.5	200	1.09	
DRO >C10-C28*	<10.0	10.0	05/18/2023	ND	180	89.8	200	2.34	
EXT DRO >C28-C36	<10.0	10.0	05/18/2023	ND					

Surrogate: 1-Chlorooctane 91.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.1 % 49.1-148

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**Analytical Results For:**

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

Received: 05/16/2023  
 Reported: 05/22/2023  
 Project Name: IBEX 15/10  
 Project Number: 18110  
 Project Location: MEWBOURNE

Sampling Date: 05/16/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 14 @ 2' (H232454-16)**

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/19/2023	ND	2.15	108	2.00	0.977	
Toluene*	<0.050	0.050	05/19/2023	ND	2.13	106	2.00	0.730	
Ethylbenzene*	<0.050	0.050	05/19/2023	ND	2.22	111	2.00	0.374	
Total Xylenes*	<0.150	0.150	05/19/2023	ND	6.56	109	6.00	0.285	
Total BTEX	<0.300	0.300	05/19/2023	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	96.0	16.0	05/17/2023	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	05/18/2023	ND	189	94.5	200	1.09	
DRO >C10-C28*	<10.0	10.0	05/18/2023	ND	180	89.8	200	2.34	
EXT DRO >C28-C36	<10.0	10.0	05/18/2023	ND					

Surrogate: 1-Chlorooctane 84.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.0 % 49.1-148

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**Analytical Results For:**

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

Received: 05/16/2023  
 Reported: 05/22/2023  
 Project Name: IBEX 15/10  
 Project Number: 18110  
 Project Location: MEWBOURNE

Sampling Date: 05/16/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: WW 1 (H232454-17)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/19/2023	ND	2.15	108	2.00	0.977		
Toluene*	<0.050	0.050	05/19/2023	ND	2.13	106	2.00	0.730		
Ethylbenzene*	<0.050	0.050	05/19/2023	ND	2.22	111	2.00	0.374		
Total Xylenes*	<0.150	0.150	05/19/2023	ND	6.56	109	6.00	0.285		
Total BTEX	<0.300	0.300	05/19/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	05/17/2023	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	05/18/2023	ND	189	94.5	200	1.09	
DRO >C10-C28*	<10.0	10.0	05/18/2023	ND	180	89.8	200	2.34	
EXT DRO >C28-C36	<10.0	10.0	05/18/2023	ND					

Surrogate: 1-Chlorooctane 78.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.1 % 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: 05/16/2023  
 Reported: 05/22/2023  
 Project Name: IBEX 15/10  
 Project Number: 18110  
 Project Location: MEWBOURNE

Sampling Date: 05/16/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: WW 2 (H232454-18)**

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/19/2023	ND	2.15	108	2.00	0.977		
Toluene*	<0.050	0.050	05/19/2023	ND	2.13	106	2.00	0.730		
Ethylbenzene*	<0.050	0.050	05/19/2023	ND	2.22	111	2.00	0.374		
Total Xylenes*	<0.150	0.150	05/19/2023	ND	6.56	109	6.00	0.285		
Total BTEX	<0.300	0.300	05/19/2023	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	05/17/2023	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	05/18/2023	ND	189	94.5	200	1.09	
DRO >C10-C28*	<10.0	10.0	05/18/2023	ND	180	89.8	200	2.34	
EXT DRO >C28-C36	<10.0	10.0	05/18/2023	ND					

Surrogate: 1-Chlorooctane 88.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 05/16/2023  
 Reported: 05/22/2023  
 Project Name: IBEX 15/10  
 Project Number: 18110  
 Project Location: MEWBOURNE

Sampling Date: 05/16/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 15 @ 1' (H232454-19)**

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/19/2023	ND	2.15	108	2.00	0.977	
Toluene*	<0.050	0.050	05/19/2023	ND	2.13	106	2.00	0.730	
Ethylbenzene*	<0.050	0.050	05/19/2023	ND	2.22	111	2.00	0.374	
Total Xylenes*	<0.150	0.150	05/19/2023	ND	6.56	109	6.00	0.285	
Total BTEx	<0.300	0.300	05/19/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	05/17/2023	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	05/18/2023	ND	189	94.5	200	1.09	
DRO >C10-C28*	<10.0	10.0	05/18/2023	ND	180	89.8	200	2.34	
EXT DRO >C28-C36	<10.0	10.0	05/18/2023	ND					

Surrogate: 1-Chlorooctane 96.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

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---

### Notes and Definitions

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

---

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

Caley 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: <u>Lance Crenshaw</u>				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																					
Address: 2617 W Marland				Company: <u>Mewbourne</u>																									
City: Hobbs State: NM Zip: 88240				Attn: <u>Connor Walker</u>																									
Phone #: (575) 264-9884 Fax #:				Address:																									
Project #: <u>18110</u> Project Owner:				City:																									
Project Name: <u>Box 15/10</u>				State: Zip:																									
Project Location:				Phone #:																									
Sampler Name: <u>Reynolds</u>				Fax #:																									
FOR LAB USE ONLY						MATRIX		PRESERV.		SAMPLING																			
Lab I.D.		Sample I.D.		(GRAB OR C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER:		ACID/BASE:		ICE / COOL		OTHER:		DATE		TIME	
<u>H232454</u>																													
<u>1</u>		<u>FL1021</u>		<u>9</u>																									
<u>2</u>		<u>FL2021</u>																											
<u>3</u>		<u>FL3021</u>																											
<u>4</u>		<u>FL4021</u>																											
<u>5</u>		<u>FL5021</u>																											
<u>6</u>		<u>FL6021</u>																											
<u>7</u>		<u>FL7021</u>																											
<u>8</u>		<u>SW1</u>																											
<u>9</u>		<u>SW2</u>																											
<u>10</u>		<u>FL8011</u>																											
<p>PLEASE NOTE: Liability and Damages, Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</p>																													
Relinquished By: <u>[Signature]</u>				Date: <u>5/16/23</u>		Received By: <u>[Signature]</u>				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Phone #:															
				Time: <u>1515</u>						Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Fax #:															
Relinquished By:				Date:		Received By:				REMARKS:																			
				Time:																									
Delivered By: (Circle One)				#13		Sample Condition				CHECKED BY: (Initials)				Please email results and copy of CoC to pm@etechenv.com.															
Sampler - UPS - Bus - Other: <u>9.7c / 9.1c</u>						Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				<u>[Signature]</u>																			

FORM-006  
Revision 1.0

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# **CARDINAL LABORATORIES**

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## **CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

Page 23 of 23

Company Name: Etech Environmental & Safety Solutions, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																		
Project Manager: <i>Lance Crenshaw</i>				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride -</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																		
Address: 2617 W Marland				Company: <i>Mewbourne</i>																						
City: Hobbs State: NM Zip: 88240				Attn: <i>Connor Walker</i>																						
Phone #: (575) 264-9884 Fax #:				Address:																						
Project #: <i>18110</i> Project Owner:				City:																						
Project Name: <i>1 Bex 15/10</i>				State: Zip:																						
Project Location:				Phone #:																						
Sampler Name: <i>Devlin Regan</i>				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												
<i>H232454</i>																										
<i>11 FL901</i>		<i>C</i>											<i>5/16/23</i>													
<i>12 FL1002</i>																										
<i>13 FL1102</i>																										
<i>14 FL1202</i>																										
<i>15 FL1302</i>																										
<i>16 FL1402</i>																										
<i>17 WW1</i>																										
<i>18 WW2</i>																										
<i>19 FL1501</i>																										
<p><small>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</small></p>																										
Relinquished By: <i>C. Regan</i>				Date: <i>5/16/23</i>				Received By: <i>Amara</i>				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:														
Relinquished By:				Time: <i>1:15</i>				Received By:				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:														
Delivered By: (Circle One)				Date:				Sample Condition				CHECKED BY: (Initials)														
Sampler - UPS - Bus - Other:				Time:				Cool Intact				<div style="display: flex; justify-content: space-around;"> <div><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</div> <div><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</div> </div>														
<p><i>#13</i> <i>9.7c / 9.1c</i></p>																										
<p>Please email results and copy of CoC to <a href="mailto:pm@etechenv.com">pm@etechenv.com</a>.</p>																										

FORM-006

Revision 1.0

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---

May 23, 2023

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: IBEX 15/10

Enclosed are the results of analyses for samples received by the laboratory on 05/17/23 14:59.

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: 05/17/2023  
 Reported: 05/23/2023  
 Project Name: IBEX 15/10  
 Project Number: 18110  
 Project Location: MEWBOURNE

Sampling Date: 05/17/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: NW 1 (H232504-01)**

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/20/2023	ND	2.09	105	2.00	3.01	
Toluene*	<0.050	0.050	05/20/2023	ND	2.11	106	2.00	5.13	
Ethylbenzene*	<0.050	0.050	05/20/2023	ND	2.14	107	2.00	2.29	
Total Xylenes*	<0.150	0.150	05/20/2023	ND	6.33	105	6.00	1.93	
Total BTX	<0.300	0.300	05/20/2023	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	2080	16.0	05/19/2023	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/19/2023	ND	164	81.9	200	1.15	
DRO >C10-C28*	<10.0	10.0	05/19/2023	ND	173	86.4	200	2.97	
EXT DRO >C28-C36	<10.0	10.0	05/19/2023	ND					

Surrogate: 1-Chlorooctane 89.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 05/17/2023  
 Reported: 05/23/2023  
 Project Name: IBEX 15/10  
 Project Number: 18110  
 Project Location: MEWBOURNE

Sampling Date: 05/17/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: NW 2 (H232504-02)**

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	05/20/2023	ND	2.09	105	2.00	3.01	
Toluene*	<0.050	0.050	05/20/2023	ND	2.11	106	2.00	5.13	
Ethylbenzene*	<0.050	0.050	05/20/2023	ND	2.14	107	2.00	2.29	
Total Xylenes*	<0.150	0.150	05/20/2023	ND	6.33	105	6.00	1.93	
Total BTEX	<0.300	0.300	05/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	208	16.0	05/19/2023	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	05/19/2023	ND	164	81.9	200	1.15	
DRO >C10-C28*	<10.0	10.0	05/19/2023	ND	173	86.4	200	2.97	
EXT DRO >C28-C36	<10.0	10.0	05/19/2023	ND					

Surrogate: 1-Chlorooctane 72.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 05/17/2023  
 Reported: 05/23/2023  
 Project Name: IBEX 15/10  
 Project Number: 18110  
 Project Location: MEWBOURNE

Sampling Date: 05/17/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: NW 3 (H232504-03)**

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	05/20/2023	ND	2.09	105	2.00	3.01	
Toluene*	<0.050	0.050	05/20/2023	ND	2.11	106	2.00	5.13	
Ethylbenzene*	<0.050	0.050	05/20/2023	ND	2.14	107	2.00	2.29	
Total Xylenes*	<0.150	0.150	05/20/2023	ND	6.33	105	6.00	1.93	
Total BTEX	<0.300	0.300	05/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	3120	16.0	05/19/2023	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	05/19/2023	ND	164	81.9	200	1.15	
DRO >C10-C28*	<10.0	10.0	05/19/2023	ND	173	86.4	200	2.97	
EXT DRO >C28-C36	<10.0	10.0	05/19/2023	ND					

Surrogate: 1-Chlorooctane 77.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.5 % 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: 05/17/2023  
 Reported: 05/23/2023  
 Project Name: IBEX 15/10  
 Project Number: 18110  
 Project Location: MEWBOURNE

Sampling Date: 05/17/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: NW 4 (H232504-04)**

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	05/20/2023	ND	2.09	105	2.00	3.01	
Toluene*	<0.050	0.050	05/20/2023	ND	2.11	106	2.00	5.13	
Ethylbenzene*	<0.050	0.050	05/20/2023	ND	2.14	107	2.00	2.29	
Total Xylenes*	<0.150	0.150	05/20/2023	ND	6.33	105	6.00	1.93	
Total BTEX	<0.300	0.300	05/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	3320	16.0	05/19/2023	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	05/19/2023	ND	164	81.9	200	1.15	
DRO >C10-C28*	<10.0	10.0	05/19/2023	ND	173	86.4	200	2.97	
EXT DRO >C28-C36	<10.0	10.0	05/19/2023	ND					

Surrogate: 1-Chlorooctane 80.3 % 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: 05/17/2023  
 Reported: 05/23/2023  
 Project Name: IBEX 15/10  
 Project Number: 18110  
 Project Location: MEWBOURNE

Sampling Date: 05/17/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: NW 5 (H232504-05)**

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	05/20/2023	ND	2.09	105	2.00	3.01	
Toluene*	<0.050	0.050	05/20/2023	ND	2.11	106	2.00	5.13	
Ethylbenzene*	<0.050	0.050	05/20/2023	ND	2.14	107	2.00	2.29	
Total Xylenes*	<0.150	0.150	05/20/2023	ND	6.33	105	6.00	1.93	
Total BTEX	<0.300	0.300	05/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	96.0	16.0	05/19/2023	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	05/19/2023	ND	164	81.9	200	1.15	
DRO >C10-C28*	<10.0	10.0	05/19/2023	ND	173	86.4	200	2.97	
EXT DRO >C28-C36	<10.0	10.0	05/19/2023	ND					

Surrogate: 1-Chlorooctane 75.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

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### Notes and Definitions

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

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

---

Caley 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.				BILL TO				ANALYSIS REQUEST																													
Project Manager: Lance Cronshaw				P.O. #:				Chloride TPH (8015M) BTEX (8021B)																													
Address: 2617 W Marland				Company: Mewbourne																																	
City: Hobbs State: NM Zip: 88240				Attn: Connor Walker																																	
Phone #: (575) 264-9884 Fax #:				Address:																																	
Project #: 18110 Project Owner:				City:																																	
Project Name: 1 Bex 15/10				State: Zip:																																	
Project Location:				Phone #:																																	
Sampler Name: Austin Rogers				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																											
H232804																																					
1 NW1										5/17/23																											
2 NW2																																					
3 NW3																																					
4 NW4																																					
5 NW5																																					
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: 5/17/23				Received By: [Signature]				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:																									
[Signature]				Time: 1459								Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:																									
Relinquished By:				Date:				Received By:				REMARKS:																									
				Time:																																	
Delivered By: (Circle One) 4.8 - C.O.U.				Sample Condition				CHECKED BY:				Please email results and copy of CoC to pm@etechenv.com.																									
Sampler - UPS - Bus - Other: 4.2 - #113				Cool Intact				(Initials)																													
				<input type="checkbox"/> Yes <input type="checkbox"/> No				[Signature]																													





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

---

May 24, 2023

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: IBEX 15/10

Enclosed are the results of analyses for samples received by the laboratory on 05/19/23 8:20.

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, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	05/19/2023	Sampling Date:	05/19/2023
Reported:	05/24/2023	Sampling Type:	Soil
Project Name:	IBEX 15/10	Sampling Condition:	Cool & Intact
Project Number:	18110	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - LEA CO, NM		

**Sample ID: FL 19 @ 1.5' (H232546-01)**

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/21/2023	ND	2.04	102	2.00	7.12	
Toluene*	<0.050	0.050	05/21/2023	ND	2.08	104	2.00	8.69	
Ethylbenzene*	<0.050	0.050	05/21/2023	ND	1.98	99.1	2.00	8.34	
Total Xylenes*	<0.150	0.150	05/21/2023	ND	6.18	103	6.00	7.67	
Total BTX	<0.300	0.300	05/21/2023	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	544	16.0	05/19/2023	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	05/19/2023	ND	182	91.1	200	3.21	
DRO >C10-C28*	<10.0	10.0	05/19/2023	ND	168	84.2	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	05/19/2023	ND					

Surrogate: 1-Chlorooctane 79.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.8 % 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: 05/19/2023  
 Reported: 05/24/2023  
 Project Name: IBEX 15/10  
 Project Number: 18110  
 Project Location: MEWBOURNE - LEA CO, NM

Sampling Date: 05/19/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 20 @ 1.5' (H232546-02)**

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	05/21/2023	ND	2.04	102	2.00	7.12	
Toluene*	<0.050	0.050	05/21/2023	ND	2.08	104	2.00	8.69	
Ethylbenzene*	<0.050	0.050	05/21/2023	ND	1.98	99.1	2.00	8.34	
Total Xylenes*	<0.150	0.150	05/21/2023	ND	6.18	103	6.00	7.67	
Total BTEX	<0.300	0.300	05/21/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	05/19/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/19/2023	ND	182	91.1	200	3.21	
DRO >C10-C28*	<10.0	10.0	05/19/2023	ND	168	84.2	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	05/19/2023	ND					

Surrogate: 1-Chlorooctane 86.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.9 % 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: 05/19/2023  
 Reported: 05/24/2023  
 Project Name: IBEX 15/10  
 Project Number: 18110  
 Project Location: MEWBOURNE - LEA CO, NM

Sampling Date: 05/19/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 21 @ 1.5' (H232546-03)**

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	05/21/2023	ND	2.04	102	2.00	7.12		
Toluene*	<0.050	0.050	05/21/2023	ND	2.08	104	2.00	8.69		
Ethylbenzene*	<0.050	0.050	05/21/2023	ND	1.98	99.1	2.00	8.34		
Total Xylenes*	<0.150	0.150	05/21/2023	ND	6.18	103	6.00	7.67		
Total BTEx	<0.300	0.300	05/21/2023	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	176	16.0	05/19/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/19/2023	ND	182	91.1	200	3.21	
DRO >C10-C28*	<10.0	10.0	05/19/2023	ND	168	84.2	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	05/19/2023	ND					

Surrogate: 1-Chlorooctane 79.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.9 % 49.1-148

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\*=Accredited Analyte

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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: 05/19/2023  
 Reported: 05/24/2023  
 Project Name: IBEX 15/10  
 Project Number: 18110  
 Project Location: MEWBOURNE - LEA CO, NM

Sampling Date: 05/19/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 22 @ 1.5' (H232546-04)**

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	05/21/2023	ND	2.04	102	2.00	7.12	
Toluene*	<0.050	0.050	05/21/2023	ND	2.08	104	2.00	8.69	
Ethylbenzene*	<0.050	0.050	05/21/2023	ND	1.98	99.1	2.00	8.34	
Total Xylenes*	<0.150	0.150	05/21/2023	ND	6.18	103	6.00	7.67	
Total BTEX	<0.300	0.300	05/21/2023	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	176	16.0	05/19/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/19/2023	ND	182	91.1	200	3.21	
DRO >C10-C28*	<10.0	10.0	05/19/2023	ND	168	84.2	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	05/19/2023	ND					

Surrogate: 1-Chlorooctane 78.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.6 % 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: 05/19/2023  
 Reported: 05/24/2023  
 Project Name: IBEX 15/10  
 Project Number: 18110  
 Project Location: MEWBOURNE - LEA CO, NM

Sampling Date: 05/19/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 23 @ 1.5' (H232546-05)**

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	05/21/2023	ND	2.04	102	2.00	7.12	
Toluene*	<0.050	0.050	05/21/2023	ND	2.08	104	2.00	8.69	
Ethylbenzene*	<0.050	0.050	05/21/2023	ND	1.98	99.1	2.00	8.34	
Total Xylenes*	<0.150	0.150	05/21/2023	ND	6.18	103	6.00	7.67	
Total BTEX	<0.300	0.300	05/21/2023	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	128	16.0	05/19/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/19/2023	ND	162	81.1	200	3.13	
DRO >C10-C28*	<10.0	10.0	05/19/2023	ND	165	82.7	200	2.05	
EXT DRO >C28-C36	<10.0	10.0	05/19/2023	ND					

Surrogate: 1-Chlorooctane 65.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.0 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 05/19/2023  
 Reported: 05/24/2023  
 Project Name: IBEX 15/10  
 Project Number: 18110  
 Project Location: MEWBOURNE - LEA CO, NM

Sampling Date: 05/19/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 24 @ 1.5' (H232546-06)**

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	05/21/2023	ND	2.04	102	2.00	7.12		
Toluene*	<0.050	0.050	05/21/2023	ND	2.08	104	2.00	8.69		
Ethylbenzene*	<0.050	0.050	05/21/2023	ND	1.98	99.1	2.00	8.34		
Total Xylenes*	<0.150	0.150	05/21/2023	ND	6.18	103	6.00	7.67		
Total BTEx	<0.300	0.300	05/21/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	05/19/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/19/2023	ND	162	81.1	200	3.13	
DRO >C10-C28*	<10.0	10.0	05/19/2023	ND	165	82.7	200	2.05	
EXT DRO >C28-C36	<10.0	10.0	05/19/2023	ND					

Surrogate: 1-Chlorooctane 67.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.9 % 49.1-148

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**Analytical Results For:**

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

Received: 05/19/2023  
 Reported: 05/24/2023  
 Project Name: IBEX 15/10  
 Project Number: 18110  
 Project Location: MEWBOURNE - LEA CO, NM

Sampling Date: 05/19/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 25 @ 1.5' (H232546-07)**

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	05/21/2023	ND	2.04	102	2.00	7.12	
Toluene*	<0.050	0.050	05/21/2023	ND	2.08	104	2.00	8.69	
Ethylbenzene*	<0.050	0.050	05/21/2023	ND	1.98	99.1	2.00	8.34	
Total Xylenes*	<0.150	0.150	05/21/2023	ND	6.18	103	6.00	7.67	
Total BTEX	<0.300	0.300	05/21/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	05/19/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/19/2023	ND	162	81.1	200	3.13	
DRO >C10-C28*	<10.0	10.0	05/19/2023	ND	165	82.7	200	2.05	
EXT DRO >C28-C36	<10.0	10.0	05/19/2023	ND					

Surrogate: 1-Chlorooctane 79.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.1 % 49.1-148

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**Analytical Results For:**

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

Received: 05/19/2023  
 Reported: 05/24/2023  
 Project Name: IBEX 15/10  
 Project Number: 18110  
 Project Location: MEWBOURNE - LEA CO, NM

Sampling Date: 05/19/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 26 @ 1.5' (H232546-08)**

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	05/21/2023	ND	2.04	102	2.00	7.12	
Toluene*	<0.050	0.050	05/21/2023	ND	2.08	104	2.00	8.69	
Ethylbenzene*	<0.050	0.050	05/21/2023	ND	1.98	99.1	2.00	8.34	
Total Xylenes*	<0.150	0.150	05/21/2023	ND	6.18	103	6.00	7.67	
Total BTEx	<0.300	0.300	05/21/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	05/19/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/20/2023	ND	162	81.1	200	3.13	
DRO >C10-C28*	<10.0	10.0	05/20/2023	ND	165	82.7	200	2.05	
EXT DRO >C28-C36	<10.0	10.0	05/20/2023	ND					

Surrogate: 1-Chlorooctane 78.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.4 % 49.1-148

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**Analytical Results For:**

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

Received: 05/19/2023  
 Reported: 05/24/2023  
 Project Name: IBEX 15/10  
 Project Number: 18110  
 Project Location: MEWBOURNE - LEA CO, NM

Sampling Date: 05/19/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 27 @ 1.5' (H232546-09)**

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	05/21/2023	ND	2.04	102	2.00	7.12	
Toluene*	<0.050	0.050	05/21/2023	ND	2.08	104	2.00	8.69	
Ethylbenzene*	<0.050	0.050	05/21/2023	ND	1.98	99.1	2.00	8.34	
Total Xylenes*	<0.150	0.150	05/21/2023	ND	6.18	103	6.00	7.67	
Total BTEX	<0.300	0.300	05/21/2023	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	80.0	16.0	05/19/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/20/2023	ND	162	81.1	200	3.13	
DRO >C10-C28*	<10.0	10.0	05/20/2023	ND	165	82.7	200	2.05	
EXT DRO >C28-C36	<10.0	10.0	05/20/2023	ND					

Surrogate: 1-Chlorooctane 88.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.2 % 49.1-148

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**Analytical Results For:**

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 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 05/19/2023  
 Reported: 05/24/2023  
 Project Name: IBEX 15/10  
 Project Number: 18110  
 Project Location: MEWBOURNE - LEA CO, NM

Sampling Date: 05/19/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 28 @ 2.5' (H232546-10)**

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	05/21/2023	ND	2.04	102	2.00	7.12	
Toluene*	<0.050	0.050	05/21/2023	ND	2.08	104	2.00	8.69	
Ethylbenzene*	<0.050	0.050	05/21/2023	ND	1.98	99.1	2.00	8.34	
Total Xylenes*	<0.150	0.150	05/21/2023	ND	6.18	103	6.00	7.67	
Total BTEx	<0.300	0.300	05/21/2023	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	144	16.0	05/19/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/20/2023	ND	162	81.1	200	3.13	
DRO >C10-C28*	<10.0	10.0	05/20/2023	ND	165	82.7	200	2.05	
EXT DRO >C28-C36	<10.0	10.0	05/20/2023	ND					

Surrogate: 1-Chlorooctane 86.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.2 % 49.1-148

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**Analytical Results For:**

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

Received: 05/19/2023  
 Reported: 05/24/2023  
 Project Name: IBEX 15/10  
 Project Number: 18110  
 Project Location: MEWBOURNE - LEA CO, NM

Sampling Date: 05/19/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 29 @ 2.5' (H232546-11)**

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	05/21/2023	ND	2.04	102	2.00	7.12		
Toluene*	<0.050	0.050	05/21/2023	ND	2.08	104	2.00	8.69		
Ethylbenzene*	<0.050	0.050	05/21/2023	ND	1.98	99.1	2.00	8.34		
Total Xylenes*	<0.150	0.150	05/21/2023	ND	6.18	103	6.00	7.67		
Total BTEx	<0.300	0.300	05/21/2023	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	128	16.0	05/19/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/20/2023	ND	162	81.1	200	3.13	
DRO >C10-C28*	<10.0	10.0	05/20/2023	ND	165	82.7	200	2.05	
EXT DRO >C28-C36	<10.0	10.0	05/20/2023	ND					

Surrogate: 1-Chlorooctane 81.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.3 % 49.1-148

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**Analytical Results For:**

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

Received: 05/19/2023  
 Reported: 05/24/2023  
 Project Name: IBEX 15/10  
 Project Number: 18110  
 Project Location: MEWBOURNE - LEA CO, NM

Sampling Date: 05/19/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 30 @ 2.5' (H232546-12)**

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/21/2023	ND	2.04	102	2.00	7.12	
Toluene*	<0.050	0.050	05/21/2023	ND	2.08	104	2.00	8.69	
Ethylbenzene*	<0.050	0.050	05/21/2023	ND	1.98	99.1	2.00	8.34	
Total Xylenes*	<0.150	0.150	05/21/2023	ND	6.18	103	6.00	7.67	
Total BTEx	<0.300	0.300	05/21/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	05/19/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/20/2023	ND	162	81.1	200	3.13	
DRO >C10-C28*	<10.0	10.0	05/20/2023	ND	165	82.7	200	2.05	
EXT DRO >C28-C36	<10.0	10.0	05/20/2023	ND					

Surrogate: 1-Chlorooctane 87.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.6 % 49.1-148

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**Analytical Results For:**

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

Received: 05/19/2023  
 Reported: 05/24/2023  
 Project Name: IBEX 15/10  
 Project Number: 18110  
 Project Location: MEWBOURNE - LEA CO, NM

Sampling Date: 05/19/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 31 @ 1' (H232546-13)**

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/21/2023	ND	2.04	102	2.00	7.12	
Toluene*	<0.050	0.050	05/21/2023	ND	2.08	104	2.00	8.69	
Ethylbenzene*	<0.050	0.050	05/21/2023	ND	1.98	99.1	2.00	8.34	
Total Xylenes*	<0.150	0.150	05/21/2023	ND	6.18	103	6.00	7.67	
Total BTEX	<0.300	0.300	05/21/2023	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	416	16.0	05/19/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/20/2023	ND	162	81.1	200	3.13	
DRO >C10-C28*	<10.0	10.0	05/20/2023	ND	165	82.7	200	2.05	
EXT DRO >C28-C36	<10.0	10.0	05/20/2023	ND					

Surrogate: 1-Chlorooctane 83.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.3 % 49.1-148

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**Analytical Results For:**

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

Received:	05/19/2023	Sampling Date:	05/19/2023
Reported:	05/24/2023	Sampling Type:	Soil
Project Name:	IBEX 15/10	Sampling Condition:	Cool & Intact
Project Number:	18110	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - LEA CO, NM		

**Sample ID: FL 32 @ 1' (H232546-14)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/21/2023	ND	2.06	103	2.00	5.34		
Toluene*	<0.050	0.050	05/21/2023	ND	2.10	105	2.00	6.29		
Ethylbenzene*	<0.050	0.050	05/21/2023	ND	2.03	101	2.00	6.49		
Total Xylenes*	<0.150	0.150	05/21/2023	ND	6.30	105	6.00	6.11		
Total BTEX	<0.300	0.300	05/21/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1340	16.0	05/19/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/20/2023	ND	162	81.1	200	3.13	
DRO >C10-C28*	<10.0	10.0	05/20/2023	ND	165	82.7	200	2.05	
EXT DRO >C28-C36	<10.0	10.0	05/20/2023	ND					

Surrogate: 1-Chlorooctane 80.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.7 % 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: 05/19/2023  
 Reported: 05/24/2023  
 Project Name: IBEX 15/10  
 Project Number: 18110  
 Project Location: MEWBOURNE - LEA CO, NM

Sampling Date: 05/19/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: EW 1 (H232546-15)**

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/21/2023	ND	2.06	103	2.00	5.34	
Toluene*	<0.050	0.050	05/21/2023	ND	2.10	105	2.00	6.29	
Ethylbenzene*	<0.050	0.050	05/21/2023	ND	2.03	101	2.00	6.49	
Total Xylenes*	<0.150	0.150	05/21/2023	ND	6.30	105	6.00	6.11	
Total BTEx	<0.300	0.300	05/21/2023	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	128	16.0	05/19/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/20/2023	ND	162	81.1	200	3.13	
DRO >C10-C28*	<10.0	10.0	05/20/2023	ND	165	82.7	200	2.05	
EXT DRO >C28-C36	<10.0	10.0	05/20/2023	ND					

Surrogate: 1-Chlorooctane 89.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.9 % 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: 05/19/2023  
 Reported: 05/24/2023  
 Project Name: IBEX 15/10  
 Project Number: 18110  
 Project Location: MEWBOURNE - LEA CO, NM

Sampling Date: 05/19/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: EW 2 (H232546-16)**

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/21/2023	ND	2.06	103	2.00	5.34	
Toluene*	<0.050	0.050	05/21/2023	ND	2.10	105	2.00	6.29	
Ethylbenzene*	<0.050	0.050	05/21/2023	ND	2.03	101	2.00	6.49	
Total Xylenes*	<0.150	0.150	05/21/2023	ND	6.30	105	6.00	6.11	
Total BTEx	<0.300	0.300	05/21/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	05/19/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/20/2023	ND	162	81.1	200	3.13	
DRO >C10-C28*	<10.0	10.0	05/20/2023	ND	165	82.7	200	2.05	
EXT DRO >C28-C36	<10.0	10.0	05/20/2023	ND					

Surrogate: 1-Chlorooctane 90.4 % 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

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---

### Notes and Definitions

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

---

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\*=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.

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

Celey D. Keene, Lab Director/Quality Manager



# **CARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

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

## **CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

Page 19 of 20

<b>Company Name:</b> Etech Environmental & Safety Solutions, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>									
<b>Project Manager:</b> Lance Crenshaw				<b>P.O. #:</b>				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>									
<b>Address:</b> 2617 West Marland				<b>Company:</b> Mewbourne													
<b>City:</b> Hobbs <b>State:</b> NM <b>Zip:</b> 88240				<b>Attn:</b> Connor Walker													
<b>Phone #:</b> (575) 264-9884 <b>Fax #:</b>				<b>Address:</b>													
<b>Project #:</b> 18110 <b>Project Owner:</b> Mewbourne				<b>City:</b>													
<b>Project Name:</b> Ibex 15/10				<b>State:</b> NM <b>Zip:</b>													
<b>Project Location:</b> Rural Lea County, NM				<b>Phone #:</b>													
<b>Sampler Name:</b> Quentin Reyna				<b>Fax #:</b>													

FOR LAB USE ONLY		G/RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.	SAMPLING		DATE	TIME	Chloride	TPH (8015M)	BTEX (8021B)
Lab I.D.	Sample I.D.			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER					
4232546	1 FL 19 @ 1.5'	C	1		X				X			5/19/23			X	X	X
	2 FL 20 @ 1.5'	C	1		X				X			5/19/23			X	X	X
	3 FL 21 @ 1.5'	C	1		X				X			5/19/23			X	X	X
	4 FL 22 @ 1.5'	C	1		X				X			5/19/23			X	X	X
	5 FL 23 @ 1.5'	C	1		X				X			5/19/23			X	X	X
	6 FL 24 @ 1.5'	C	1		X				X			5/19/23			X	X	X
	7 FL 25 @ 1.5'	C	1		X				X			5/19/23			X	X	X
	8 FL 26 @ 1.5'	C	1		X				X			5/19/23			X	X	X
	9 FL 27 @ 1.5'	C	1		X				X			5/19/23			X	X	X
	10 FL 28 @ 2.5'	C	1		X				X			5/19/23			X	X	X

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<b>Relinquished By:</b>  <b>Date:</b> 5-19-23 <b>Time:</b> 0820	<b>Received By:</b>  <b>Date:</b> <b>Time:</b>	<b>Phone Result:</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <b>Add'l Phone #:</b> <b>Fax Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>Add'l Fax #:</b> <b>REMARKS:</b> Please email results and copy of CoC to pm@etechenv.com.
--	---	--

<b>Delivered By: (Circle One)</b> <b>Sampler - UPS - Bus - Other:</b>	<b>Sample Condition</b> Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>	<b>CHECKED BY:</b> (Initials) YD
--	--	--



## ARDINAL LABORATORIES

**101 East Marland, Hobbs, NM 88240**

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]





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

---

May 25, 2023

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: IBEX 15/10

Enclosed are the results of analyses for samples received by the laboratory on 05/22/23 15:09.

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, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 05/22/2023  
Reported: 05/25/2023  
Project Name: IBEX 15/10  
Project Number: 18110  
Project Location: MEWBOURNE - LEA CO, NM

Sampling Date: 05/22/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: SW 2A (H232584-01)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	05/23/2023	ND	448	112	400	3.64		

Cardinal Laboratories

\*=Accredited Analyte

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

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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\*=Accredited Analyte

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

---

Celey D. Keene, Lab Director/Quality Manager





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

---

May 23, 2023

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: IBEX 15/10

Enclosed are the results of analyses for samples received by the laboratory on 05/23/23 12:50.

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: 05/23/2023  
 Reported: 05/23/2023  
 Project Name: IBEX 15/10  
 Project Number: 18110  
 Project Location: MEWBOURNE

Sampling Date: 05/23/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: NW1A (H232618-01)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/23/2023	ND	416	104	400	0.00		

**Sample ID: NW3A (H232618-02)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	05/23/2023	ND	416	104	400	0.00	

**Sample ID: NW4A (H232618-03)**

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	05/23/2023	ND	416	104	400	0.00	

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

---

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.

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

---

Caley 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

[illegible]



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

---

May 25, 2023

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: IBEX 15/10

Enclosed are the results of analyses for samples received by the laboratory on 05/24/23 14:45.

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: 05/24/2023  
 Reported: 05/25/2023  
 Project Name: IBEX 15/10  
 Project Number: 18110  
 Project Location: MEWBOURNE - LEA CO, NM

Sampling Date: 05/24/2023  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 32 @ 2' (H232651-01)****Chloride, SM4500Cl-B****mg/kg****Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>208</b>	16.0	05/25/2023	ND	416	104	400	3.77	

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

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Celey D. Keene, Lab Director/Quality Manager



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



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May 26, 2023

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: IBEX 15/10

Enclosed are the results of analyses for samples received by the laboratory on 05/25/23 12:56.

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, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	05/25/2023	Sampling Date:	05/25/2023
Reported:	05/26/2023	Sampling Type:	Soil
Project Name:	IBEX 15/10	Sampling Condition:	Cool & Intact
Project Number:	18110	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - LEA CO, NM		

**Sample ID: FL 16 @ 2' (H232666-01)**

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/25/2023	ND	2.07	104	2.00	0.915	
Toluene*	<0.050	0.050	05/25/2023	ND	2.04	102	2.00	2.30	
Ethylbenzene*	<0.050	0.050	05/25/2023	ND	2.18	109	2.00	3.77	
Total Xylenes*	<0.150	0.150	05/25/2023	ND	6.47	108	6.00	4.77	
Total BTX	<0.300	0.300	05/25/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	05/25/2023	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	05/25/2023	ND	212	106	200	1.68	
DRO >C10-C28*	<10.0	10.0	05/25/2023	ND	189	94.5	200	1.89	
EXT DRO >C28-C36	<10.0	10.0	05/25/2023	ND					

Surrogate: 1-Chlorooctane 85.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.8 % 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:	05/25/2023	Sampling Date:	05/25/2023
Reported:	05/26/2023	Sampling Type:	Soil
Project Name:	IBEX 15/10	Sampling Condition:	Cool & Intact
Project Number:	18110	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - LEA CO, NM		

**Sample ID: FL 17 @ 2' (H232666-02)**

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	05/25/2023	ND	2.07	104	2.00	0.915		
Toluene*	<0.050	0.050	05/25/2023	ND	2.04	102	2.00	2.30		
Ethylbenzene*	<0.050	0.050	05/25/2023	ND	2.18	109	2.00	3.77		
Total Xylenes*	<0.150	0.150	05/25/2023	ND	6.47	108	6.00	4.77		
Total BTEx	<0.300	0.300	05/25/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	05/25/2023	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	05/25/2023	ND	212	106	200	1.68	
DRO >C10-C28*	<10.0	10.0	05/25/2023	ND	189	94.5	200	1.89	
EXT DRO >C28-C36	<10.0	10.0	05/25/2023	ND					

Surrogate: 1-Chlorooctane 94.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.8 % 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:	05/25/2023	Sampling Date:	05/25/2023
Reported:	05/26/2023	Sampling Type:	Soil
Project Name:	IBEX 15/10	Sampling Condition:	Cool & Intact
Project Number:	18110	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - LEA CO, NM		

**Sample ID: FL 18 @ 2' (H232666-03)**

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	05/25/2023	ND	2.07	104	2.00	0.915	
Toluene*	<0.050	0.050	05/25/2023	ND	2.04	102	2.00	2.30	
Ethylbenzene*	<0.050	0.050	05/25/2023	ND	2.18	109	2.00	3.77	
Total Xylenes*	<0.150	0.150	05/25/2023	ND	6.47	108	6.00	4.77	
Total BTEx	<0.300	0.300	05/25/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	05/25/2023	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	05/26/2023	ND	212	106	200	1.68	
DRO >C10-C28*	<10.0	10.0	05/26/2023	ND	189	94.5	200	1.89	
EXT DRO >C28-C36	<10.0	10.0	05/26/2023	ND					

Surrogate: 1-Chlorooctane 86.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



## **Appendix E**

### **Regulatory Correspondence**

**From:** [Lance Crenshaw](#)  
**To:** [Enviro, OCD, EMNRD](#)  
**Cc:** [Ben Arguijo](#); [Joel Lowry](#); [jbroom@mewbourne.com](mailto:jbroom@mewbourne.com)  
**Subject:** Sampling notification  
**Date:** Tuesday, May 23, 2023 11:12:06 AM

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This email serves as notice that Etech intends to collect excavation confirmation soil samples on May 26 from the following locations/reportable release sites:

Mewbourne Oil Co –Ibex 15/10- nAPP2312357379

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

**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 241114

CONDITIONS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 241114
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvez	Operator did not meet 19.15.29.12D (1a) NMAC on 7 of the 8 sampling events. Forbearance given on 10/06/2023. Release resolved.	10/6/2023