

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?	315 (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 not 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.

State of New Mexico
Oil Conservation Division

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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

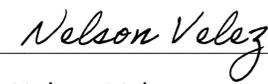
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public 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 Ibox 15/10 Battery SWD Line (henceforth, "Ibox"). 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:	Ibox 15/10 Battery SWD Line	Site Type:	Pipeline
Date Release Discovered:	4/20/2023	API # (if applicable):	N/A
Unit Letter	Section	Township	Range
"P"	15	23S	34E
County		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-)	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

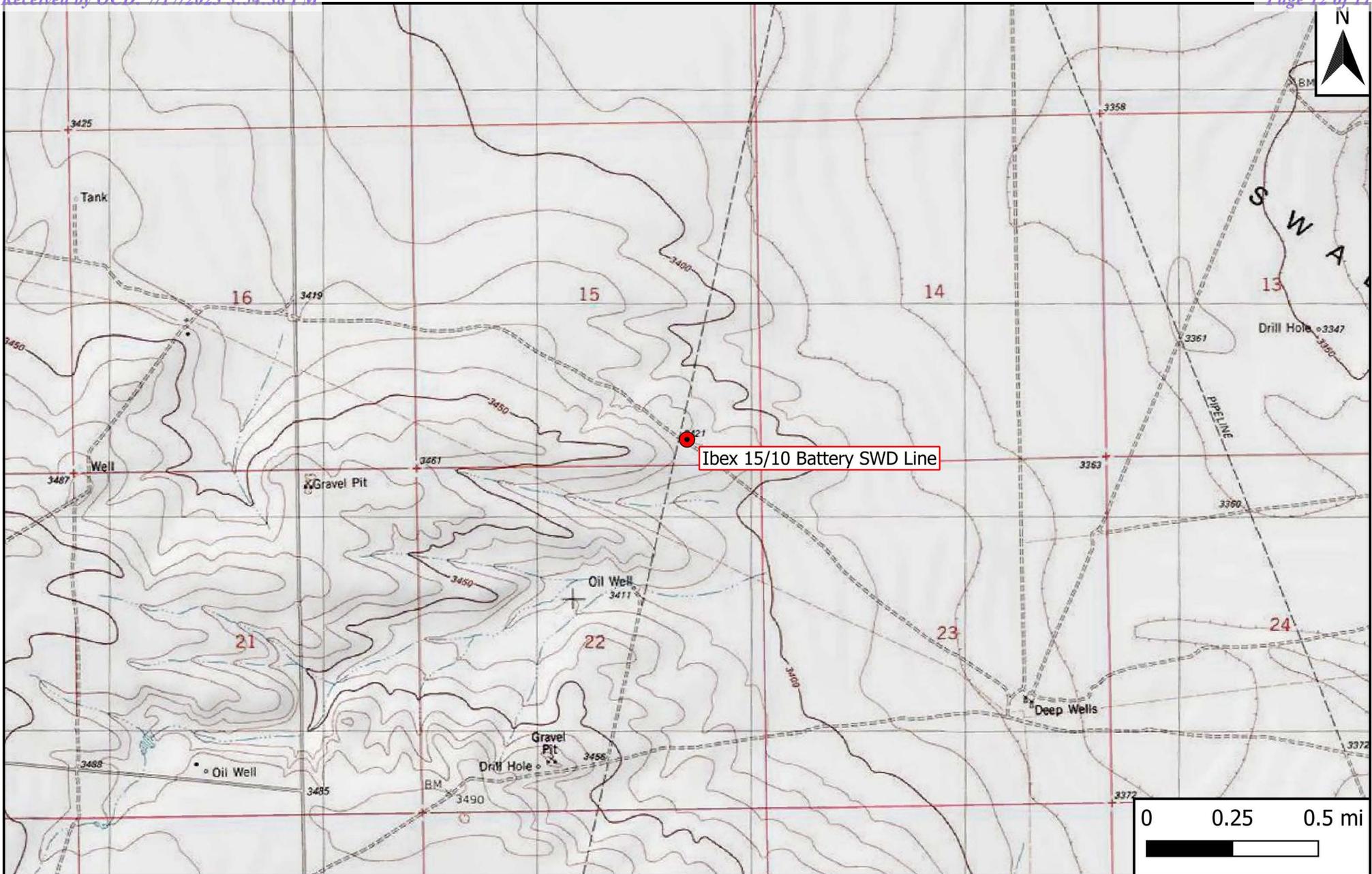
Suite 117

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

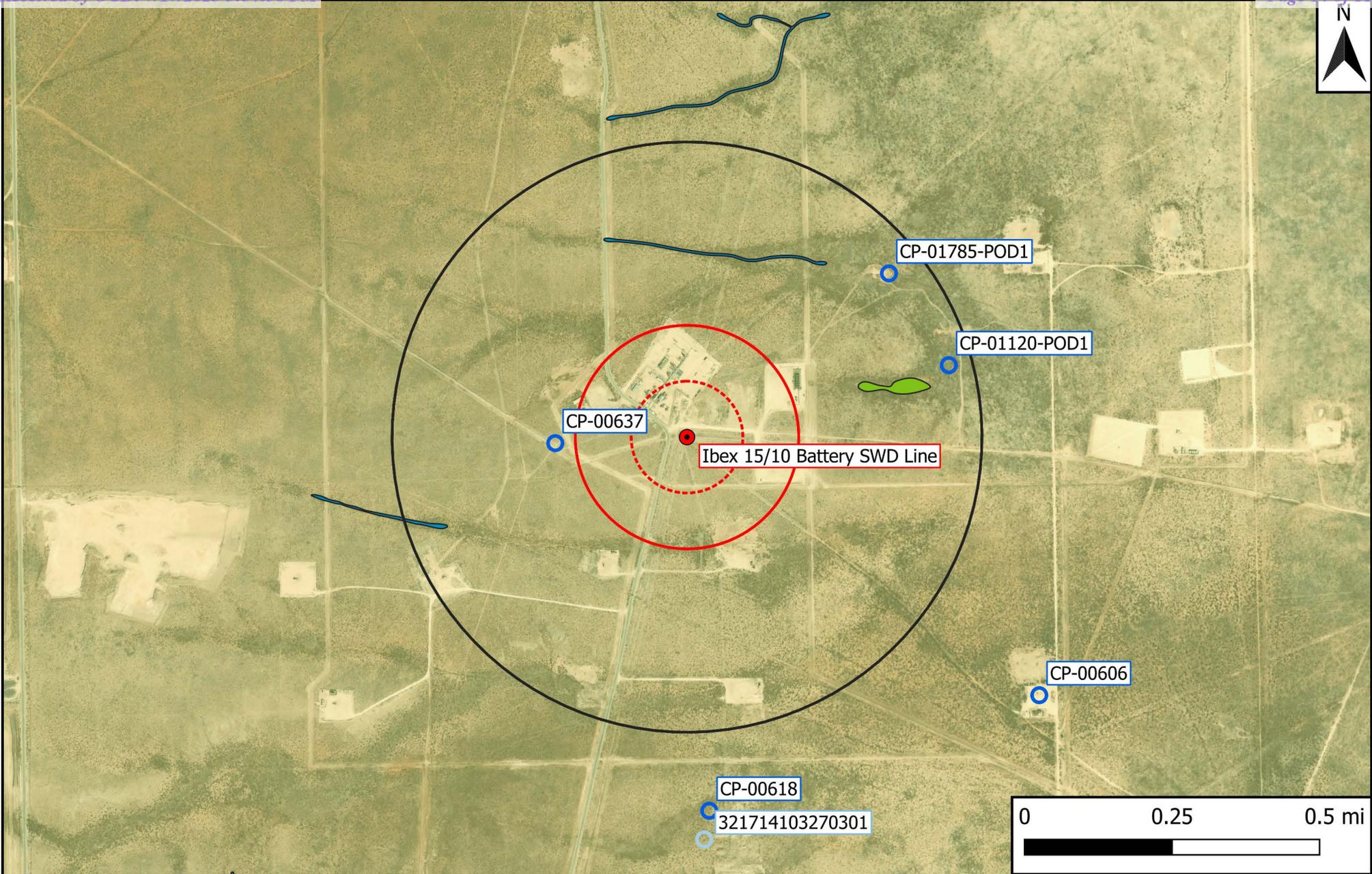


Drafted: bja

Checked: lc

Date: 6/19/23

Figure 2 Site Characterization Map



Legend

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

Figure 2
 Site Characterization Map
 Mewbourne Oil Company
 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

Table 1 Concentrations of BTEX, TPH & Chloride in Soil Mewbourne Oil Company Ibox 15/10 Battery SWD Line NMOCD Ref. #: nAPP2312357379											
NMOCD Closure Criteria				10	50	N/A	N/A	1,000	N/A	2,500	20,000
NMOCD Reclamation Standard				10	50	N/A	N/A	N/A	N/A	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
NW1	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.

Table 1 Concentrations of BTEX, TPH & Chloride in Soil Mewbourne Oil Company Ibex 15/10 Battery SWD Line NMOCD Ref. #: nAPP2312357379											
NMOCD Closure Criteria				10	50	N/A	N/A	1,000	N/A	2,500	20,000
NMOCD Reclamation Standard				10	50	N/A	N/A	N/A	N/A	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
FL 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

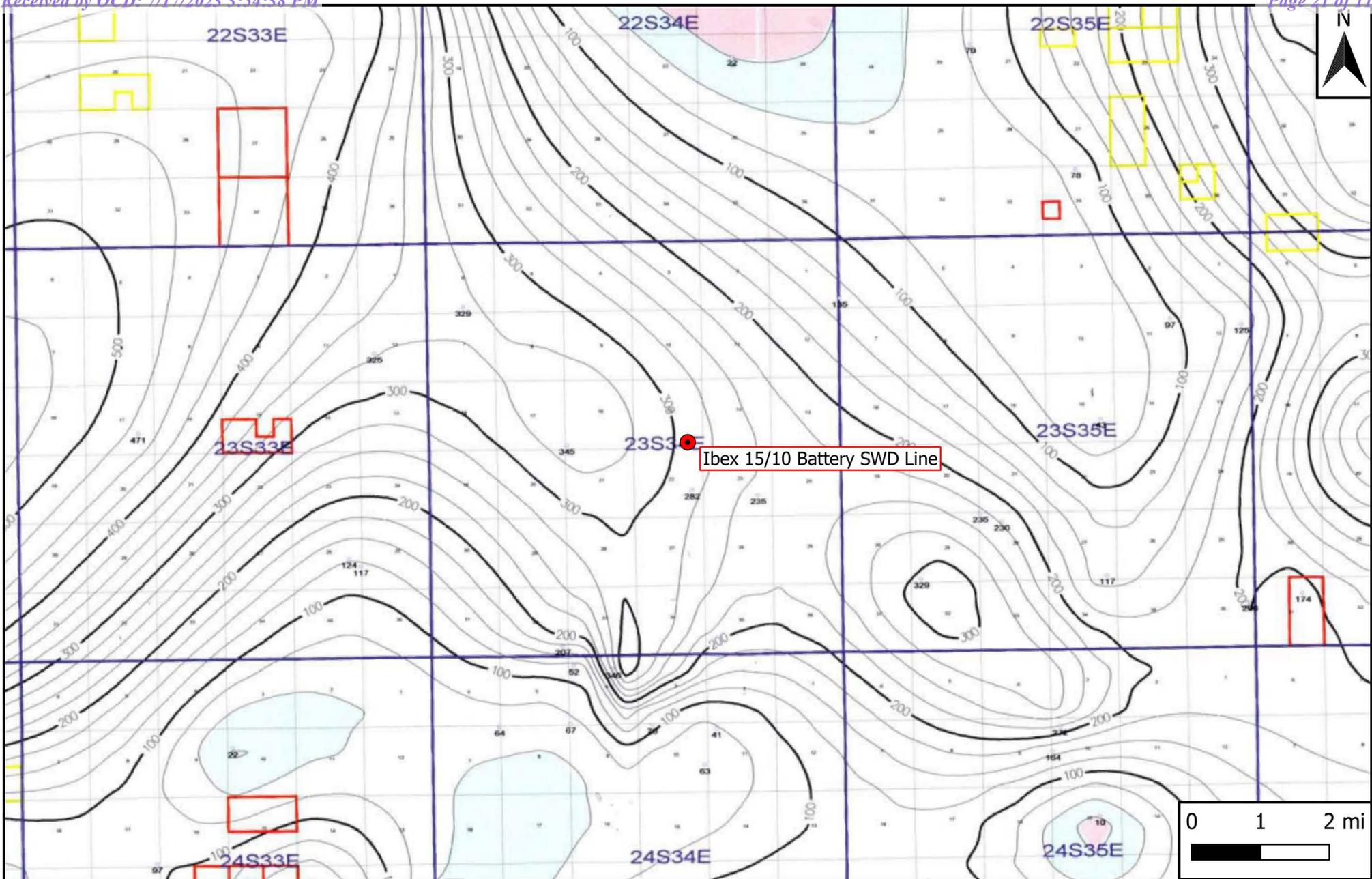
Dash (-): Sample not analyzed for that constituent.

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	Q 3	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
CP 00637		CP	LE	3	3	4	15	23S	34E		645293	3574541*	359	430	430	0
CP 01785 POD1		CP	LE	4	1	3	14	23S	34E		646203	3575003	708	488	245	243
CP 01120 POD1		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)

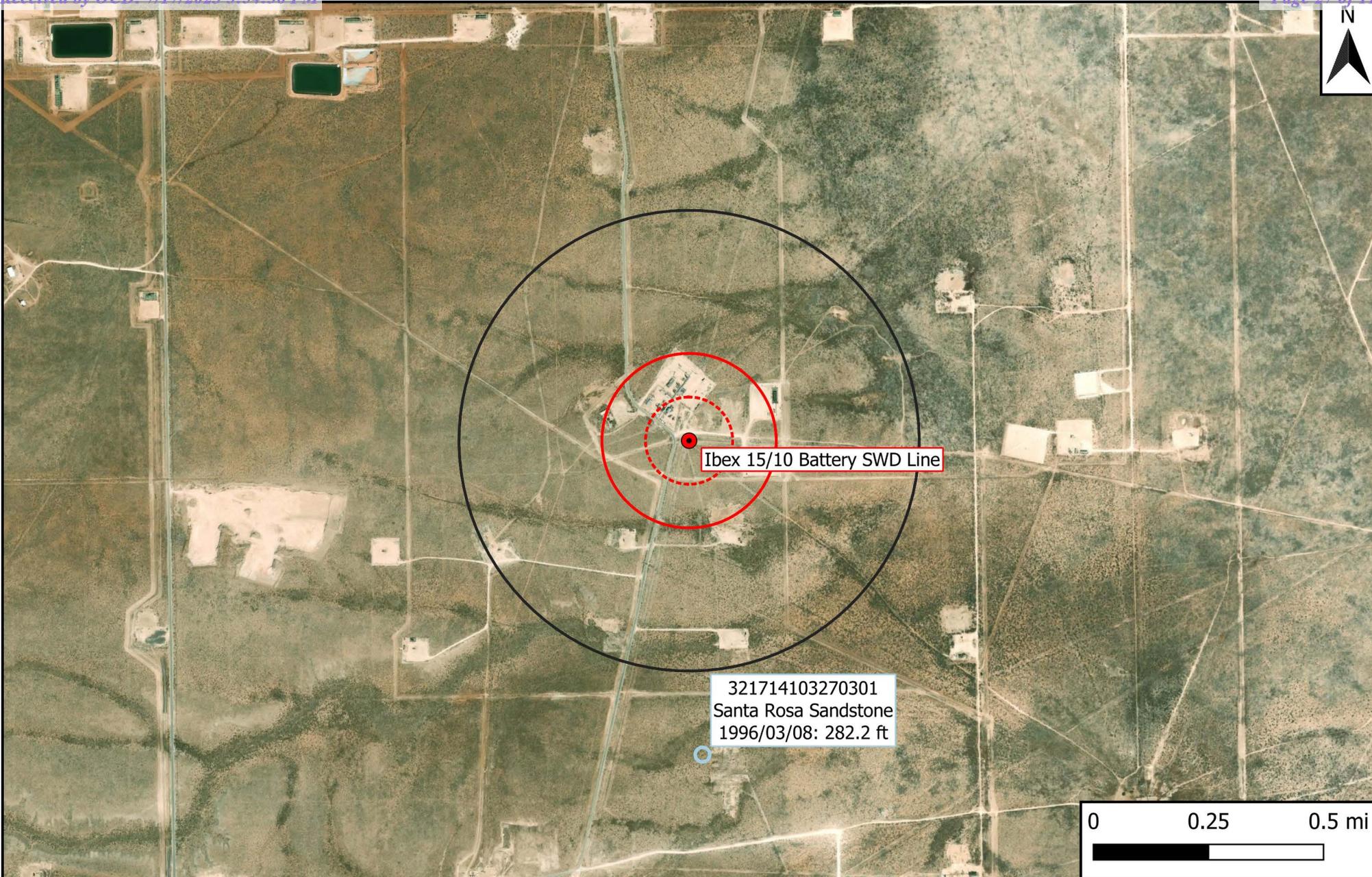
Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount Online
10/10/2020	2020	2320407	A	RPT	initial reading	0
11/06/2020	2020	2504095	A	RPT		23.676
12/15/2020	2020	2504095	A	RPT		0
01/07/2021	2020	2830778	A	RPT		42.107
02/05/2021	2021	3030795	A	RPT		25.781
08/02/2021	2021	4073778	A	ad		134.434
09/01/2021	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

**YTD Meter Amounts:	Year	Amount
	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



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 for News Bulletins

Groundwater levels for the Nation



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

Search Results -- 1 sites found

Agency code = usgs

site_no list =

- 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.

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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
FL1@2'	-	408	
FL2@2'	-	284	
FL3@2'	-	364	
FL4@2'	-	364	
FL5@2'	-	408	
FL6@2'	-	364	
FL7@2'	-	364	
SW1	-	364	
SW2	-	324	
FL8@1'	-	408	
FL9@1'	-	500	
FL10@2'	-	1,052	
FL11@2'	-	364	
FL12@2' \ FL12@2.5	-	716 \ 552	
FL13@2'	-	552	
FL14@2' \ FL14 2.5	-	1,398 \ 452	
WW1	-	236	
WW2	-	180	
FL15@1'	-	412	
FL16@1' \ FL16@2'	-	656 \ 372	
FL17@1' \ FL17@2'	-	600 \ 412	
FL18@1' \ FL18@2'	-	656 \ 372	
FL19 @ 6inch \ FL19@1.5	-	2,588 \ 500	
FL20 @ 6. inch \ FL20@1.5	-	2,588 \ 372	
FL21 @ 6inch \ FL21@1.5	-	1,052 \ 552	
FL22 @ 6inch \ FL22@1.5	-	908 \ 552	
FL23 @ 6inch \ FL23@1.5	-	2,236 \ 552	
FL24 @ 6inch \ FL24@1.5	-	1,948 \ 552	
FL25 @ 6inch \ FL25@1.5	-	2,404 \ 456	
FL26 @ 6inch \ FL26@1.5	-	1,484 \ 372	
NW1 364	-	364	
NW2 364	-	364	
NW3 408	-	408	
NW4 552	-	552	
NW5 408	-	408	
EW1	-	412	

Sample Point = SP #1 @ ## etc

Test Trench = TT #1 @ ##

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

Floor = FL #1 etc

Refusal = SP #1 @ 4'-R

Stockpile = Stockpile #1

Sidewall = SW #1 etc

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

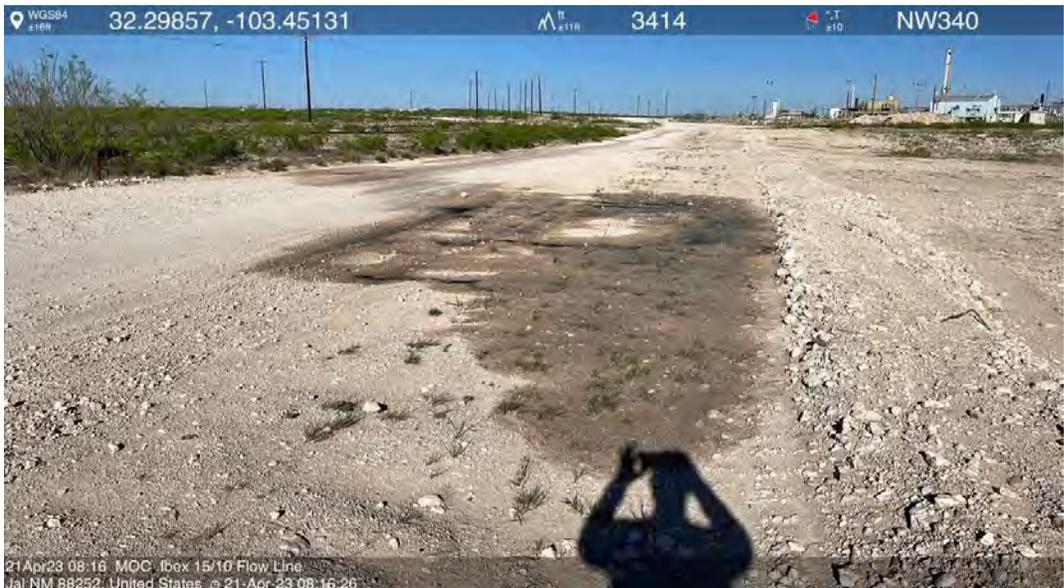
GPS Sample Points, Center of Comp Areas

Appendix C

Photographic Log

Photographic Log

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

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

Photographic Log

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

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

Photographic Log

Photo Number: 5	
Photo Direction: East	
Photo Description: View of the affected area.	

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

Photographic Log

Photo Number: 7	
Photo Direction: South	
Photo Description: View of the excavated area.	

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

Photographic Log

Photo Number: 9	 <p>5/22/23, 8:39 AM +32.298597,-103.452474 NM, Jal</p>
Photo Direction: South	
Photo Description: View of the excavated area.	

Photo Number: 10	 <p>5/22/23, 8:40 AM +32.298539,-103.451651 NM, Jal</p>
Photo Direction: South	
Photo Description: View of the excavated area.	

Photographic Log

Photo Number: 11	 <p>6/5/23, 1:48 PM +32.298756,-103.453134 NM,Jal,Adobe Rd</p>
Photo Direction: Southeast	
Photo Description: View of the remediated area after backfill and regrading.	

Photo Number: 12	 <p>6/5/23, 1:48 PM +32.298664,-103.453092 NM,Jal,Adobe Rd</p>
Photo Direction: East	
Photo Description: View of the remediated area after backfill and regrading.	

Photographic Log

Photo Number: 13	
Photo Direction: Southwest	
Photo Description: View of the remediated area after backfill and regrading.	

Photo Number: 14	
Photo Direction: West	
Photo Description: 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.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/16/2023	Sampling Date:	05/16/2023
Reported:	05/22/2023	Sampling Type:	Soil
Project Name:	IBEX 15/10	Sampling Condition:	Cool & Intact
Project Number:	18110	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

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

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:	05/16/2023	Sampling Date:	05/16/2023
Reported:	05/22/2023	Sampling Type:	Soil
Project Name:	IBEX 15/10	Sampling Condition:	Cool & Intact
Project Number:	18110	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

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, 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	05/17/2023	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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Analytical Results For:

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

Received:	05/16/2023	Sampling Date:	05/16/2023
Reported:	05/22/2023	Sampling Type:	Soil
Project Name:	IBEX 15/10	Sampling Condition:	Cool & Intact
Project Number:	18110	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

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, 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	05/17/2023	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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Analytical Results For:

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

Received:	05/16/2023	Sampling Date:	05/16/2023
Reported:	05/22/2023	Sampling Type:	Soil
Project Name:	IBEX 15/10	Sampling Condition:	Cool & Intact
Project Number:	18110	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

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, 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	05/17/2023	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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Analytical Results For:

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

Received:	05/16/2023	Sampling Date:	05/16/2023
Reported:	05/22/2023	Sampling Type:	Soil
Project Name:	IBEX 15/10	Sampling Condition:	Cool & Intact
Project Number:	18110	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

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, 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 76.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.2 % 49.1-148

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Analytical Results For:

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

Received: 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, 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	05/17/2023	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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Analytical Results For:

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

Received:	05/16/2023	Sampling Date:	05/16/2023
Reported:	05/22/2023	Sampling Type:	Soil
Project Name:	IBEX 15/10	Sampling Condition:	Cool & Intact
Project Number:	18110	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

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, 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	05/17/2023	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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Analytical Results For:

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

Received:	05/16/2023	Sampling Date:	05/16/2023
Reported:	05/22/2023	Sampling Type:	Soil
Project Name:	IBEX 15/10	Sampling Condition:	Cool & Intact
Project Number:	18110	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

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, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	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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Analytical Results For:

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 Fax To:

Received:	05/16/2023	Sampling Date:	05/16/2023
Reported:	05/22/2023	Sampling Type:	Soil
Project Name:	IBEX 15/10	Sampling Condition:	Cool & Intact
Project Number:	18110	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

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, SM4500CI-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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Analytical Results For:

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

Received:	05/16/2023	Sampling Date:	05/16/2023
Reported:	05/22/2023	Sampling Type:	Soil
Project Name:	IBEX 15/10	Sampling Condition:	Cool & Intact
Project Number:	18110	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

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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Analytical Results For:

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

Received:	05/16/2023	Sampling Date:	05/16/2023
Reported:	05/22/2023	Sampling Type:	Soil
Project Name:	IBEX 15/10	Sampling Condition:	Cool & Intact
Project Number:	18110	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

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, 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 65.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 66.4 % 49.1-148

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Analytical Results For:

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 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	05/16/2023	Sampling Date:	05/16/2023
Reported:	05/22/2023	Sampling Type:	Soil
Project Name:	IBEX 15/10	Sampling Condition:	Cool & Intact
Project Number:	18110	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

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:

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 2617 W MARLAND
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 Fax To:

Received:	05/16/2023	Sampling Date:	05/16/2023
Reported:	05/22/2023	Sampling Type:	Soil
Project Name:	IBEX 15/10	Sampling Condition:	Cool & Intact
Project Number:	18110	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

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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Received:	05/16/2023	Sampling Date:	05/16/2023
Reported:	05/22/2023	Sampling Type:	Soil
Project Name:	IBEX 15/10	Sampling Condition:	Cool & Intact
Project Number:	18110	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

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:

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Received:	05/16/2023	Sampling Date:	05/16/2023
Reported:	05/22/2023	Sampling Type:	Soil
Project Name:	IBEX 15/10	Sampling Condition:	Cool & Intact
Project Number:	18110	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

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, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	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:

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 Fax To:

Received:	05/16/2023	Sampling Date:	05/16/2023
Reported:	05/22/2023	Sampling Type:	Soil
Project Name:	IBEX 15/10	Sampling Condition:	Cool & Intact
Project Number:	18110	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

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, 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	05/17/2023	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:

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Received:	05/16/2023	Sampling Date:	05/16/2023
Reported:	05/22/2023	Sampling Type:	Soil
Project Name:	IBEX 15/10	Sampling Condition:	Cool & Intact
Project Number:	18110	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

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, 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 78.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.1 % 49.1-148

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Analytical Results For:

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 Fax To:

Received:	05/16/2023	Sampling Date:	05/16/2023
Reported:	05/22/2023	Sampling Type:	Soil
Project Name:	IBEX 15/10	Sampling Condition:	Cool & Intact
Project Number:	18110	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

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, 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	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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Analytical Results For:

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

Received:	05/16/2023	Sampling Date:	05/16/2023
Reported:	05/22/2023	Sampling Type:	Soil
Project Name:	IBEX 15/10	Sampling Condition:	Cool & Intact
Project Number:	18110	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

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

Cardinal Laboratories

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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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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																			
Project Manager: <i>Lance Crenshaw</i>				P.O. #:				Chloride	TPH (8015M)	BTEX (8021B)																	
Address: 2617 W Marland				Company: <i>Mexbourne</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 Box 15/10</i>				State: Zip:																							
Project Location:				Phone #:																							
Sampler Name: <i>Penita Reyna</i>				Fax #:																							
FOR LAB USE ONLY																											
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.		SAMPLING													
<i>H232454</i>						GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME											
<i>FL102'</i>		<i>1</i>		<i>0</i>									<i>5/16/23</i>														
<i>FL202'</i>		<i>2</i>																									
<i>FL302'</i>		<i>3</i>																									
<i>FL402'</i>		<i>4</i>																									
<i>FL502'</i>		<i>5</i>																									
<i>FL602'</i>		<i>6</i>																									
<i>FL702'</i>		<i>7</i>																									
<i>SW1</i>		<i>8</i>																									
<i>SW2</i>		<i>9</i>																									
<i>FL801'</i>		<i>10</i>																									
<small>PLEASE NOTE: Liability and Damages, Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</small>																											
Relinquished By: <i>Reyna</i>				Date: <i>5/16/23</i>		Received By: <i>Jamara Delgado</i>				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:															
				Time: <i>1515</i>						Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:															
Relinquished By:				Date:		Received By:				REMARKS:																	
				Time:						Please email results and copy of CoC to pm@etechenv.com.																	
Delivered By: (Circle One)				#13		Sample Condition				CHECKED BY: (Initials)																	
Sampler - UPS - Bus - Other:				<i>9.7c / 9.1c</i>		Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				<i>JD</i>																	



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.				BILL TO				ANALYSIS REQUEST																			
Project Manager: <i>Lance Crenshaw</i>				P.O. #:				Chloride - TPH (8015M) BTEX (8021B)																			
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	Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX			PRESERV.		SAMPLING																	
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME												
	<i>H232454</i>													<i>5/16/23</i>													
		<i>11 FL9 @ 1'</i>																									
		<i>12 FL10 @ 2'</i>																									
		<i>13 FL11 @ 2'</i>																									
		<i>14 FL12 @ 2'</i>																									
		<i>15 FL13 @ 2'</i>																									
		<i>16 FL14 @ 2'</i>																									
		<i>17 WW1</i>																									
		<i>18 WW2</i>																									
		<i>19 FL15 @ 1'</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>Devlin Regan</i>				Date: <i>5/16/23</i>		Received By: <i>Jamara [Signature]</i>				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:															
				Time: <i>1:57</i>						Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:															
Relinquished By:				Date:		Received By:				REMARKS:																	
				Time:																							
Delivered By: (Circle One)						Sample Condition				CHECKED BY: (Initials)																	
Sampler - UPS - Bus - Other: <i>9.7c / 9.1c</i>				<i>#13</i>		Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				<i>YO</i>																	

FORM-006
Revision 1.0

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



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 05/17/23 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.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, flowing "C" 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:	05/17/2023	Sampling Date:	05/17/2023
Reported:	05/23/2023	Sampling Type:	Soil
Project Name:	IBEX 15/10	Sampling Condition:	Cool & Intact
Project Number:	18110	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE		

Sample ID: NW 1 (H232504-01)

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	05/20/2023	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) 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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*=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:	05/17/2023	Sampling Date:	05/17/2023
Reported:	05/23/2023	Sampling Type:	Soil
Project Name:	IBEX 15/10	Sampling Condition:	Cool & Intact
Project Number:	18110	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE		

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, SM4500CI-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	Sampling Date:	05/17/2023
Reported:	05/23/2023	Sampling Type:	Soil
Project Name:	IBEX 15/10	Sampling Condition:	Cool & Intact
Project Number:	18110	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE		

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, SM4500Cl-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

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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	Sampling Date:	05/17/2023
Reported:	05/23/2023	Sampling Type:	Soil
Project Name:	IBEX 15/10	Sampling Condition:	Cool & Intact
Project Number:	18110	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE		

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, SM4500CI-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

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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	Sampling Date:	05/17/2023
Reported:	05/23/2023	Sampling Type:	Soil
Project Name:	IBEX 15/10	Sampling Condition:	Cool & Intact
Project Number:	18110	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE		

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, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	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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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																							
Project Manager: <i>Lance Crenshaw</i>				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Chloride</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH (8015M)</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX (8021B)</div> </div>																							
Address: 2617 W Marland				Company: <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>IBex 15/10</i>				State: Zip:																											
Project Location:				Phone #:																											
Sampler Name: <i>Justin Rezac</i>				Fax #:																											
FOR LAB USE ONLY																															
Lab I.D.		Sample I.D.				# CONTAINERS	MATRIX			PRESERV.		SAMPLING																			
						(G/RAB OR (C)OMP.	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE/COOL	OTHER:	DATE		TIME													
<i>4232804</i>						<i>0</i>										<i>5/17/23</i>															
<i>1 NW1</i>																															
<i>2 NW2</i>																															
<i>3 NW3</i>																															
<i>4 NW4</i>																															
<i>5 NWS</i>																															
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Relinquished By: <i>[Signature]</i>				Date: <i>5/17/23</i>		Received By: <i>[Signature]</i>				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:																			
				Time: <i>1459</i>						Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:																			
Relinquished By:				Date:		Received By:				REMARKS:																					
				Time:						Please email results and copy of CoC to pm@etechenv.com.																					
Delivered By: (Circle One) <i>4.8 - C.O.U.</i>				Sample Condition				CHECKED BY:																							
Sampler - UPS - Bus - Other: <i>4.2 - #113</i>				Cool Intact				(Initials)																							
				<input type="checkbox"/> Yes <input type="checkbox"/> No				<i>[Signature]</i>																							
				<input type="checkbox"/> No <input type="checkbox"/> No																											



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.

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:	05/19/2023	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)

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	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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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	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 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, 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	05/19/2023	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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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 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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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 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, 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 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	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 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, 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	05/19/2023	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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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 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

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	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 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, 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	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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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	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 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, 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 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	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 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, 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	05/19/2023	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:

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 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	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 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, 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 81.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.3 % 49.1-148

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Analytical Results For:

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

Received:	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 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, 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 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	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 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, SM4500CI-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, SM4500CI-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

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Analytical Results For:

Etech Environmental & Safety Solutions
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 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: 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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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	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: 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, 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 90.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.6 % 49.1-148

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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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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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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.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/22/2023	Sampling Date:	05/22/2023
Reported:	05/25/2023	Sampling Type:	Soil
Project Name:	IBEX 15/10	Sampling Condition:	Cool & Intact
Project Number:	18110	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - LEA CO, NM		

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	

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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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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.

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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,

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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:	05/23/2023	Sampling Date:	05/23/2023
Reported:	05/23/2023	Sampling Type:	Soil
Project Name:	IBEX 15/10	Sampling Condition:	Cool & Intact
Project Number:	18110	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: NW1A (H232618-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/23/2023	ND	416	104	400	0.00	

Sample ID: NW3A (H232618-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	05/23/2023	ND	416	104	400	0.00	

Sample ID: NW4A (H232618-03)

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	05/23/2023	ND	416	104	400	0.00	

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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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Celey D. Keene, Lab Director/Quality Manager



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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.

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



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Analytical Results For:

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

Received:	05/24/2023	Sampling Date:	05/24/2023
Reported:	05/25/2023	Sampling Type:	Soil
Project Name:	IBEX 15/10	Sampling Condition:	** (See Notes)
Project Number:	18110	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - LEA CO, NM		

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
Chloride	208	16.0	05/25/2023	ND	416	104	400	3.77	

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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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May 26, 2023

LANCE CRENSHAW

Etech Environmental & Safety Solutions

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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.

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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,

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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 16 @ 2' (H232666-01)

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	05/25/2023	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) 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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*=Accredited Analyte

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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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Celey D. Keene

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
Subject: Sampling notification
Date: Tuesday, May 23, 2023 11:12:06 AM

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 –lbex 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@etechnv.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
nvelez	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