

# Remediation Summary & Deferral Request

**3R Operating, LLC**

**Igloo 19 24 State Federal Com #015H**

Lea County, New Mexico

Unit Letter J, Section 19, Township 20 South, Range 35 East

Latitude 32.555693° North, Longitude 103.495709° West

NMOCD Reference No. nAPP2524528282

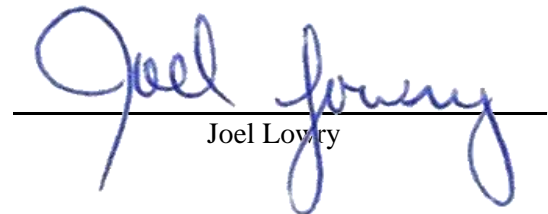
Prepared By:

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## 1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of 3R Operating, LLC, has prepared this *Remediation Summary & Deferral Request* for the release site known as the Igloo 19 24 State Federal Com #015H ("Site"). Details of the release are summarized below:

### Location of Release Source

Latitude: 32.555693° Longitude: -103.495709°

Provided GPS are in WGS84 format.

Site Name: Igloo 19 24 State Federal Com #015H	Site Type: Pumping Unit
Date Release Discovered: 8/29/2025	API # (if applicable): 30-025-46602

Unit Letter	Section	Township	Range	County
J	19	20S	35E	Lea

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (Name S & S, Inc.)

### Nature and Volume of Release

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 73	Volume Recovered (bbls) 15
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 15	Volume Recovered (bbls) 0
	Is the concentration of dissolved chloride in the produced water > 10,000 mg/L?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released	Volume/Weight Recovered
Cause of Release: Equipment failure.		

### 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 New Mexico Oil Conservation Division (NMOCD) Form C-141 are available in the NMOCD Permitting System.

## 2.0 SITE CHARACTERIZATION

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (bgs)?	Between 51 and 75 (ft.)
What method was used to determine the depth to groundwater?	Attached Document
Did the release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
What is the minimum distance between the closest lateral extents of the release and the following surface areas?	
A continuously flowing watercourse or any other significant watercourse?	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	Between ½ and 1 (mi.)
An occupied permanent residence, school, hospital, institution or church?	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	Between ½ and 1 (mi.)
Any other fresh water well or spring?	Between ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field?	Greater than 5 (mi.)
A wetland?	Between ½ and 1 (mi.)
A subsurface mine?	Greater than 5 (mi.)
A (non-karst) unstable area?	Between ½ and 1 (mi.)
Categorize the risk of this well/site being in a karst geology.	Low
A 100-year floodplain?	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production or storage site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

A search of groundwater databases maintained by the New Mexico Office of the State Engineer (NMOSE) and United States Geological Survey (USGS) was conducted in an effort to determine the horizontal distance to known water sources within a half-mile radius of the 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.

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

## 3.0 CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE

Based on the volume and nature of the release, inferred depth to groundwater, and NMOCD Siting Criteria, the NMOCD Closure Criteria and NMOCD Reclamation Standards for the Site are provided in the table on the following page:

Probable Depth to Groundwater	Constituent	Laboratory Analytical Method	Closure Criteria*†	Reclamation Standards*‡
Between 51 and 75 (ft.)	Chloride (Cl-)	EPA** 300.0 or SM4500 Cl B	10,000	600
	Total Petroleum Hydrocarbons (TPH)	EPA SW-846 Method 8015M Ext	2,500	100
	Gas Range Organics + Diesel Range Organics (GRO+DRO)	EPA SW-846 Method 8015M	1,000	N/A
	Benzene	EPA SW-846 Methods 8021b or 8260b	10	10
	Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX)	EPA SW-846 Methods 8021b or 8260b	50	50

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

\*\* Environmental Protection Agency

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

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



## 4.0 INITIAL SITE ASSESSMENT

On September 8, 2025, Etech conducted an initial site assessment. During the initial site assessment, a series of hand-augered soil bores were advanced within the release margins in an effort to determine the vertical extent of soil impacts. In addition, hand-augered soil bores were advanced at the inferred edges of the affected area in an effort to determine the horizontal extent of soil impacts. During the advancement of the hand-augered soil bores, field soil samples were collected and field-screened for the presence of Volatile Organic Compounds (VOCs) utilizing visual/olfactory senses and/or concentrations of chloride utilizing a Hach Quantab ® chloride test kit.

Based on field observations and field test data, eight (8) horizontal delineation soil samples (EH 1 @ SUR, NH 1 @ SUR, NH 2 @ SUR, NH 3 @ SUR, SH 1 @ SUR, SH 2 @ SUR, SH 3 @ SUR, and WH 1 @ SUR) and fourteen (14) vertical delineation soil samples (SP 1 @ SUR, SP 1 @ 1', SP 2 @ SUR, SP 2 @ 1', SP 3 @ SUR, SP 3 @ 1', SP 4 @ SUR, SP 4 @ 1', SP 5 @ SUR, SP 5 @ 5', SP 6 @ SUR, SP 6 @ 5', SP 7 @ SUR, and SP 7 @ 5') were submitted to a certified, commercial laboratory ("the laboratory") for analysis of BTEX, TPH, and chloride. Based on laboratory analytical results, soil was not affected above the NMOCD Closure Criteria and/or NMOCD Reclamation Standards beyond one (1) foot bgs in samples SP 1, SP 2, SP 3, and SP 4; or beyond five (5) feet bgs in samples SP 6 and SP 7. The vertical extent of affected soil impacted above the NMOCD Closure Criteria and/or NMOCD Reclamation Standards was adequately defined.

On September 25, 2025, Etech collected an additional eight (8) horizontal delineation soil samples (EH 1 @ SUR, EH 1 @ 1', NH 1 @ SUR, NH 1 @ 1', SH 1 @ SUR, SH 1 @ 1', WH 1 @ SUR, and WH 1 @ 1') and submitted them to the laboratory for analysis of BTEX, TPH, and chloride. Based on laboratory analytical results, soil was not affected above the NMOCD Closure Criteria and/or NMOCD Reclamation Standards in any of the soil samples. The horizontal extent of impacted soil was adequately defined.

A map of the initial release area and delineation soil sample locations is provided as Figure 3A. Copies of field data are provided in Appendix B. A soil chemistry table is provided as Table 1. Laboratory analytical reports are provided in Appendix D.

## 5.0 REMEDIATION ACTIVITIES SUMMARY

Requesting a remediation plan approval with this submission?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Have the lateral and vertical extents of contamination been fully delineated?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Was this release entirely contained within a lined containment area?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
On what estimated date will (or did) the remediation commence?	9/19/2025	
On what date will (or did) the final sampling or liner inspection occur?	9/26/2025	
On what date will (or was) the remediation complete(d)?	10/8/2025	
What is the total surface area (sq. ft.) in need of or that will <i>eventually</i> be reclaimed?	11,330	
What is the total volume (cy) in need of or that will <i>eventually</i> be reclaimed?	1,679	
What was the total surface area (sq. ft.) that has or will be remediated?	10,415	
What was the total volume (cy) that has or will be remediated?	1,226	
This remediation utilized the following processes to remediate/reduce contaminants:		
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
(In Situ) Soil Vapor Extraction	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
(In Situ) Biological processing (i.e. Microbes/Fertilizer, etc.)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Ground Water Abatement pursuant to 19.15.30 NMAC	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Other (Non-listed remedial process)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Which OCD approved facility was or will be used for off-site disposal?	Gandy Marley Inc.	
NMOCD Disposal Facility ID?	fEEM0112338393	
Summarize any additional remediation activities not included by answers above.	See below.	

On September 19, 2025, Etech commenced remediation activities at the 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 floor of the excavation were advanced until field tests and field observations suggested that BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standards. Representative five-point composite confirmation soil samples were collected every 200 square feet from the sidewalls and floor of the excavated area to be submitted for laboratory analysis. A summary of soil sampling events is provided in the following table:

Constituent	Highest Observable Concentration	Sample ID	Sample Date	Sample Depth (ft bgs)	Soil Status
Chloride	35,200	DEF 1 @ SUR	9/25/2025	0	Deferred
TPH	31,300	SP 7 @ SUR	9/8/2025	0	Excavated
GRO+DRO	27,500	SP 7 @ SUR	9/8/2025	0	Excavated
BTEX	160	SP 6 @ SUR	9/8/2025	0	Excavated
Benzene	<0.050	All Submitted Samples	All Sample Dates	0 to 8	Various - See Table 1

Please reference Table 1 for additional information.

On September 25, 2025, Etech collected 44 excavation confirmation soil samples (FL 1 @ 5' through FL 25 @ 2', NW 1 through NW 6, EW 1, EW 2, SW 1 through SW 6, and WW 1 through WW 5) from the floor and sidewalls of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standards in each of the submitted soil samples.

In addition, a hand-augered soil bore (DEF 1) was advanced within the area adjacent to the on-site equipment and appurtenances requiring deferral of remediation ("Deferral Area") in an effort to determine the vertical extent of soil impacts. During the advancement of the hand-augered soil bore, Etech collected three (3) deferral soil samples (DEF 1 @ SUR, DEF 1 @ 1', and DEF 1 @ 2') from the Deferral Area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that soil was not affected above the NMOCD Closure Criteria and/or NMOCD Reclamation Standards beyond two (2) feet bgs in the Deferral Area.

On September 26, 2025, Etech collected 27 excavation confirmation soil samples (FL 26 @ 2' through FL 45 @ 2', NW 7 through NW 9, EW 3 through EW 5, and SW 7) from the floor and sidewalls of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standards in each of the submitted soil samples.

The final dimensions of the excavated area were approximately ten (10) to eighty (80) feet in length, ten (10) to 310 feet in width, and two (2) to eight (8) feet in depth. During the course of remediation activities, Etech transported approximately 1,564 cubic yards of impacted soil to an NMOCD-permitted surface waste facility for disposal and imported approximately 1,544 cubic yards of locally sourced, non-impacted material to the Site for use as backfill.

Excavation confirmation soil sample locations, deferral soil sample locations, the extent of the excavated area, and the Deferral Area are depicted in Figure 3B. 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.

## 6.0 DEFERRAL REQUEST

Requesting a deferral of remediation closure due date with the approval of this submission?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Requesting a remediation closure approval with this submission?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Have the lateral and vertical extents of contamination been fully delineated?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Was this release entirely contained within a lined containment area?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the site's existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion.	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
What was the total surface area (sq. ft.) remediated?	10,415	
What was the total volume (cy) remediated?	1,226	

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 to the extent practicable and transported to an NMOCD-permitted disposal facility. Laboratory analytical results from confirmation soil samples indicate that in-situ concentrations of BTEX, TPH, and chloride outside of the Deferral Area are below the applicable NMOCD Closure Criteria

and/or NMOCD Reclamation Standards. Impacted soil remaining in-situ in the Deferral Area was horizontally and vertically delineated. Remediation of impacted soil affected above the NMOCD Closure Criteria and/or NMOCD Reclamation Standards remaining in-situ will be completed upon decommissioning and abandonment of the well in accordance with Sections 19.15.29.12 and 19.15.29.13 NMAC.

Based on laboratory analytical results and field activities conducted to date, Etech recommends 3R Operating, LLC, provide copies of this *Remediation Summary & Deferral Request* to the appropriate agencies and request remediation deferral approval be granted to the Site.

## 7.0 RESTORATION, RECLAMATION & RE-VEGETATION PLAN

All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste containing earthen material with concentrations of less than 600 mg/kg chloride, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg benzene?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Requesting a reclamation approval with this submission?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Requesting a restoration complete approval with this submission?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
What was the total surface area (in square feet) reclaimed?	3,633	
What was the total volume (in cubic yards) reclaimed?	712	

From October 3 to October 8, 2025, upon receiving laboratory analytical results from confirmation soil samples, the excavated area was backfilled with locally sourced, non-impacted "like" material characterized by the soil sample "Sims Ranch Pit". Excavation backfill was placed at or near original relative positions, then contoured and/or compacted to achieve erosion control, stability, and preservation of surface water flow to the extent practicable.

The portions of the reclaimed area in the pasture will be revegetated with an agency- and/or landowner-approved seed mix certified to be free from noxious weeds during the first favorable growing season following completion of reclamation. The seed will be installed at the prescribed rate utilizing either a seed drill or a broadcaster and harrow.

Final reclamation of the Deferral Area and the remediated area of the production pad will be conducted upon decommissioning and abandonment of the Site. The reclaimed areas will be revegetated with an agency- and/or landowner-approved seed mix certified to be free from noxious weeds during the first favorable growing season following closure of the facility. The seed will be installed at the prescribed rate utilizing either a seed drill or a broadcaster and harrow.

## 8.0 LIMITATIONS

Etech Environmental & Safety Solutions, Inc., has prepared this *Remediation Summary & Deferral 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 3R Operating, LLC. Use of the information contained in this report is prohibited without the consent of Etech and/or 3R Operating, LLC.

## **9.0 DISTRIBUTION**

***3R Operating, LLC***

*20405 State Highway 249*

*Ste 820*

*Houston, TX 77070*

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

*Oil Conservation Division, District 1*

*1220 South St. Francis Drive*

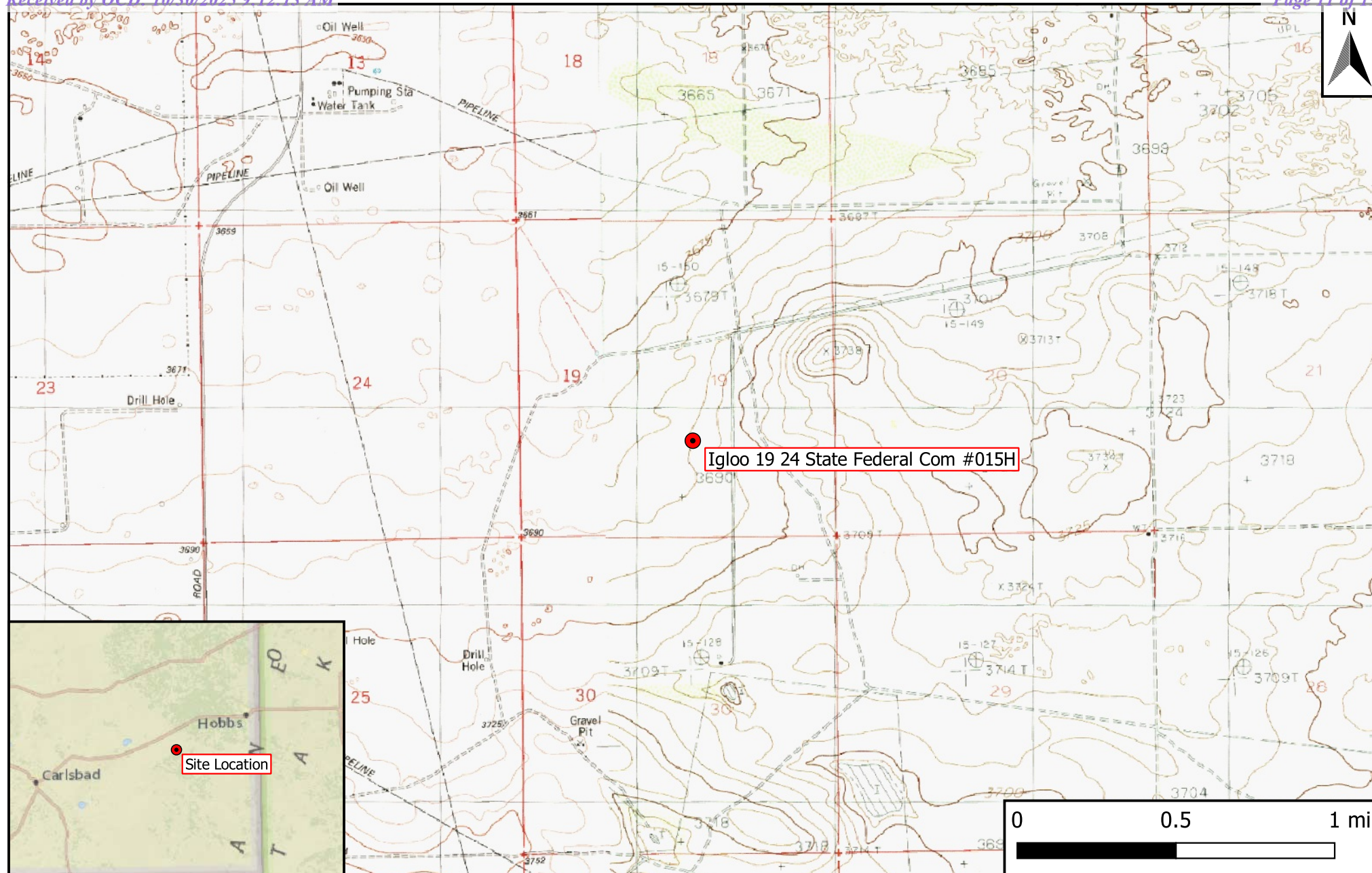
*Santa Fe, NM 87505*

*(Electronic Submission)*

## **Figure 1**

### **Site Location Map**





## Legend

- Site Location

## Figure 1

Site Location Map  
 3R Operating, LLC  
 Igloo 19 24 State Federal Com #015H  
 GPS: 32.555693, -103.495709  
 Lea County, New Mexico



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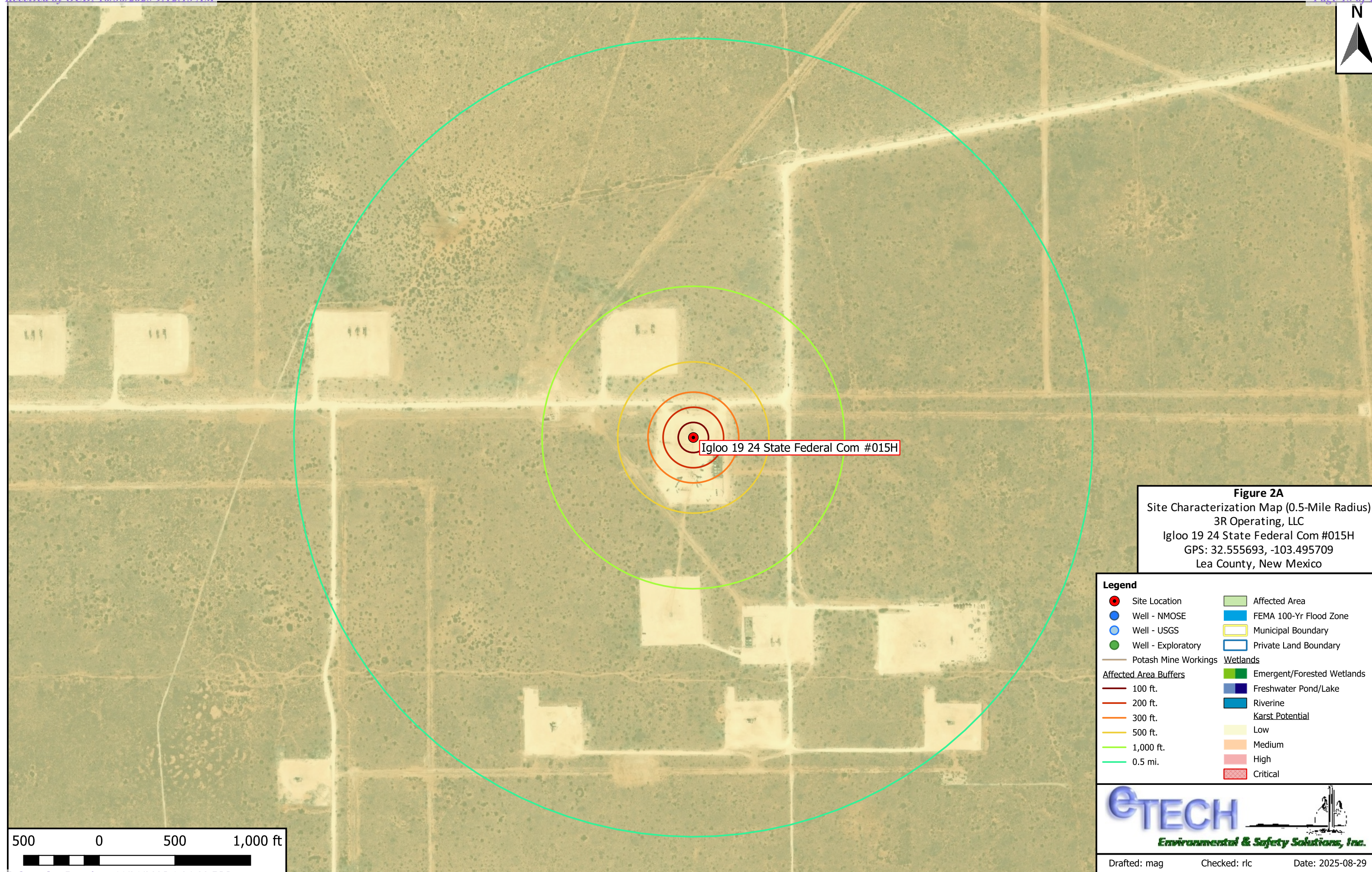
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## **Figures 2A & 2B**

### **Site Characterization Maps**





**Figure 2A**  
Site Characterization Map (0.5-Mile Radius)  
3R Operating, LLC  
Igloo 19 24 State Federal Com #015H  
GPS: 32.555693, -103.495709  
Lea County, New Mexico

Legend	
Site Location	Affected Area
Well - NMOSE	FEMA 100-Yr Flood Zone
Well - USGS	Municipal Boundary
Well - Exploratory	Private Land Boundary
Potash Mine Workings	<b>Wetlands</b>
<b>Affected Area Buffers</b>	
100 ft.	Emergent/Forested Wetlands
200 ft.	Freshwater Pond/Lake
300 ft.	Riverine
500 ft.	Karst Potential
1,000 ft.	Low
0.5 mi.	Medium
	High
	Critical

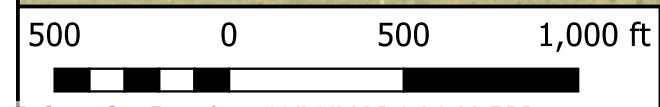


**Environmental & Safety Solutions, Inc.**

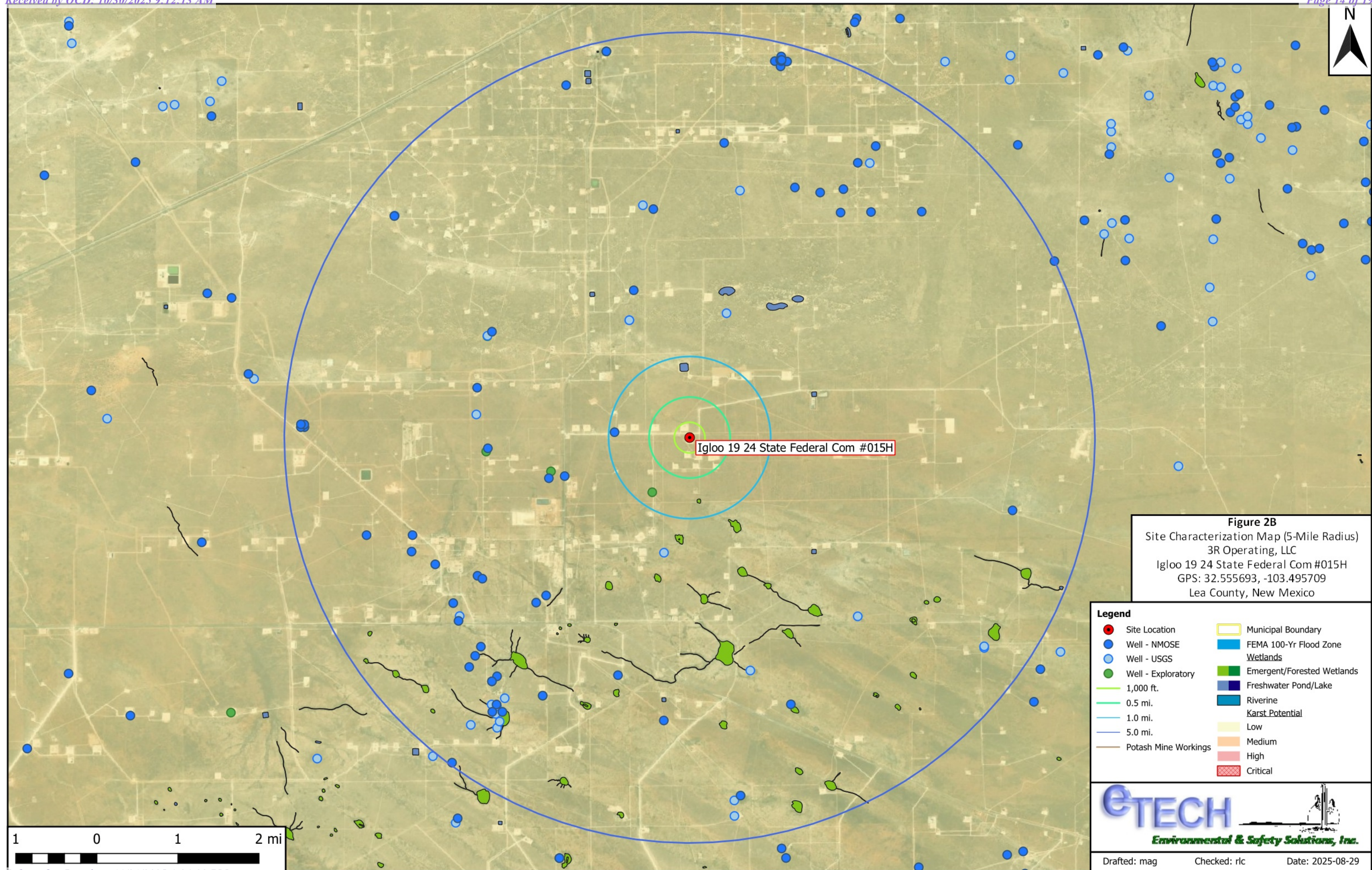
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Date: 2025-08-29



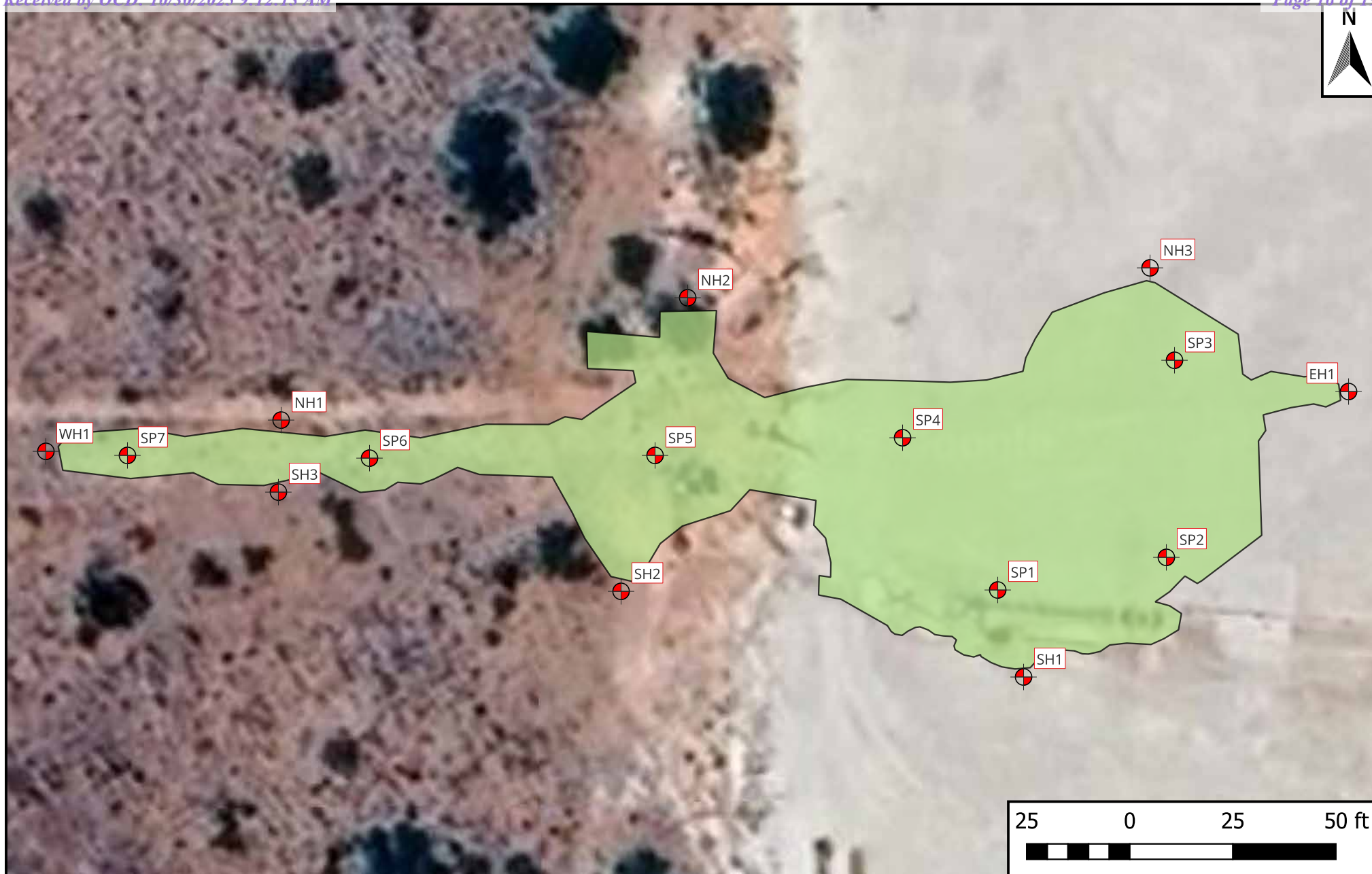








## **Figures 3A & 3B**

### **Sample Location Maps**



## Legend

-  Delineation Sample Point
-  Release Area - 11,330 Sq Ft

## Figure 3A

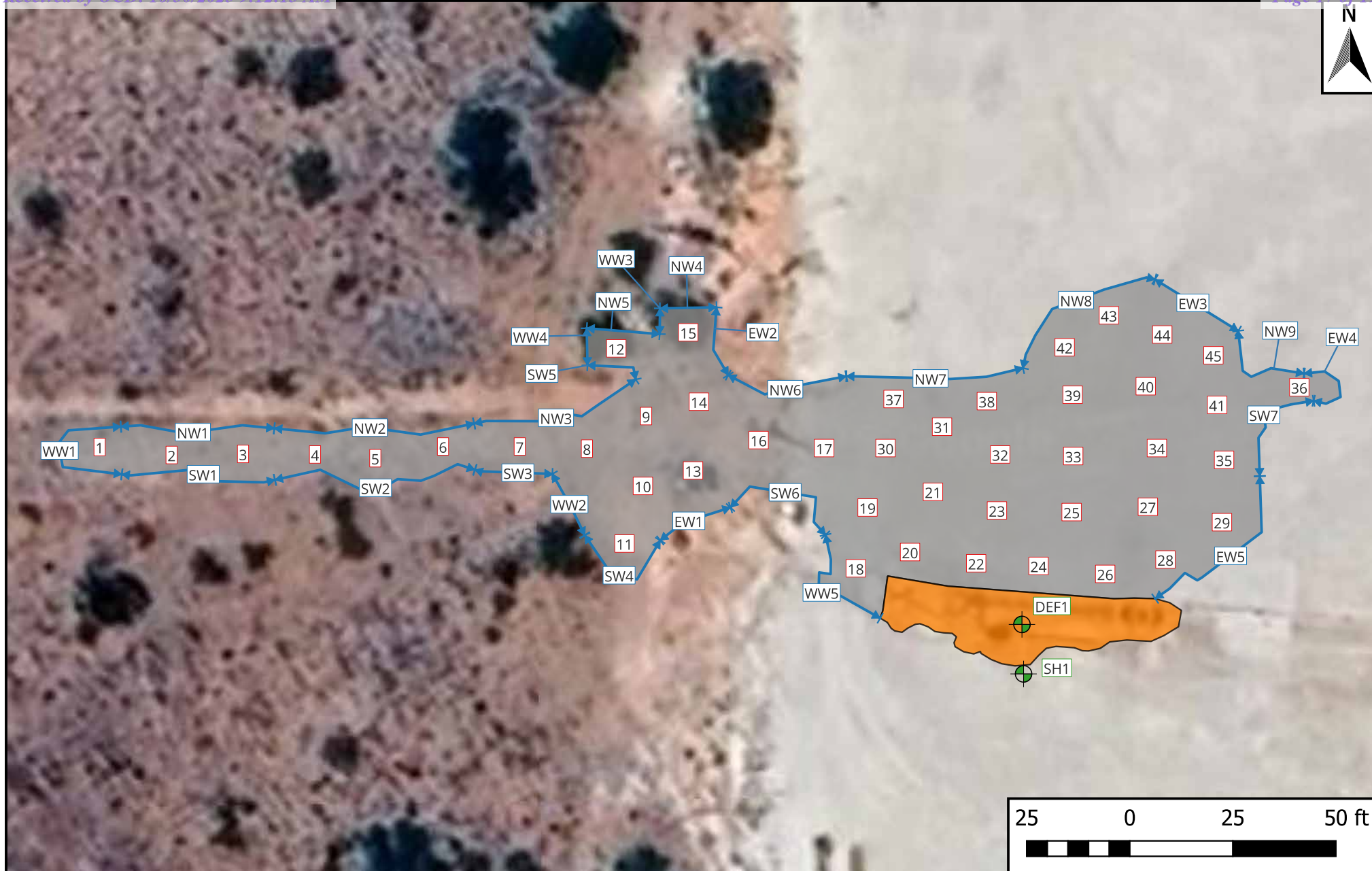
Sample Location Map - Delineation  
3R Operating, LLC  
Igloo 19 24 State Federal Com #015H  
GPS: 32.555693, -103.495709  
Lea County, New Mexico



Drafted: mag

Checked: rlc

Date: 2025-10-10



## Legend

- Floor Confirmation Sample
- ↔ Wall Confirmation Sample
- ⊕ Deferral Delineation Sample
- Excavated Area - 10,415 Sq Ft
- Deferral Area - 915 Sq Ft

## Figure 3B

Sample Location Map - Confirmation & Deferral  
 3R Operating, LLC  
 Igloo 19 24 State Federal Com #015H  
 GPS: 32.555693, -103.495709  
 Lea County, New Mexico



Drafted: mag

Checked: rlc

Date: 2025-10-20

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

**Table 1**  
**Concentrations of BTEX, TPH, and Chloride in Soil**  
**3R Operating, LLC**  
**Igloo 19 24 State Federal Com #015H**  
**NMOCD Ref. #: nAPP2524528282**

NMOCD Closure Criteria				10	50	-	-	1,000	-	2,500	10,000
NMOCD Reclamation Standard				10	50	-	-	-	-	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C <sub>6</sub> -C <sub>10</sub> (mg/kg)	DRO C <sub>10</sub> -C <sub>28</sub> (mg/kg)	GRO + DRO C <sub>6</sub> -C <sub>28</sub> (mg/kg)	ORO C <sub>28</sub> -C <sub>36</sub> (mg/kg)	TPH C <sub>6</sub> -C <sub>36</sub> (mg/kg)	Chloride (mg/kg)
Delineation Soil Sample Results											
EH 1 @ SUR	9/8/2025	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
EH 1 @ SUR	9/25/2025	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
EH 1 @ 1'	9/25/2025	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
NH 1 @ SUR	9/8/2025	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
NH 1 @ SUR	9/25/2025	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
NH 1 @ 1'	9/25/2025	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
NH 2 @ SUR	9/8/2025	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
NH 3 @ SUR	9/8/2025	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SH 1 @ SUR	9/8/2025	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SH 1 @ SUR	9/25/2025	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SH 1 @ 1'	9/25/2025	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SH 2 @ SUR	9/8/2025	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SH 3 @ SUR	9/8/2025	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
WH 1 @ SUR	9/8/2025	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
WH 1 @ SUR	9/25/2025	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
WH 1 @ 1'	9/25/2025	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SP 1 @ SUR	9/8/2025	0	Excavated	<0.050	<0.300	<10.0	225	225	20.6	246	34,400
SP 1 @ 1'	9/8/2025	1	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	416
SP 2 @ SUR	9/8/2025	0	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,740
SP 2 @ 1'	9/8/2025	1	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
SP 3 @ SUR	9/8/2025	0	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	4,240
SP 3 @ 1'	9/8/2025	1	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
SP 4 @ SUR	9/8/2025	0	Excavated	<0.050	<0.300	<10.0	14.0	14.0	<10.0	14.0	10,400
SP 4 @ 1'	9/8/2025	1	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
SP 5 @ SUR	9/8/2025	0	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	416
SP 5 @ 5'	9/8/2025	5	In-Situ	<0.050	<0.300	<10.0	29.9	29.9	<10.0	29.9	896
SP 6 @ SUR	9/8/2025	0	Excavated	<0.500	160	2,980	13,100	16,100	1,830	17,900	<16.0
SP 6 @ 5'	9/8/2025	5	In-Situ	<0.050	<0.300	<10.0	61.7	61.7	<10.0	61.7	<16.0
SP 7 @ SUR	9/8/2025	0	Excavated	<0.500	113	2,870	24,600	27,500	3,840	31,300	32.0
SP 7 @ 5'	9/8/2025	5	In-Situ	<0.050	2.92	43.1	481	524	89.5	614	32.0
Confirmation Soil Sample Results											
FL 1 @ 5'	9/25/2025	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 2 @ 5'	9/25/2025	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 3 @ 5'	9/25/2025	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL 4 @ 5'	9/25/2025	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL 5 @ 5'	9/25/2025	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 6 @ 5'	9/25/2025	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL 7 @ 5'	9/25/2025	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 8 @ 5'	9/25/2025	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 9 @ 5'	9/25/2025	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256

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

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

Red Border with Shading: Highest observed concentration.



**Table 1**  
**Concentrations of BTEX, TPH, and Chloride in Soil**  
**3R Operating, LLC**  
**Igloo 19 24 State Federal Com #015H**  
**NMOCD Ref. #: nAPP2524528282**

NMOCD Closure Criteria				10	50	-	-	1,000	-	2,500	10,000
NMOCD Reclamation Standard				10	50	-	-	-	-	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C <sub>6</sub> -C <sub>10</sub> (mg/kg)	DRO C <sub>10</sub> -C <sub>28</sub> (mg/kg)	GRO + DRO C <sub>6</sub> -C <sub>28</sub> (mg/kg)	ORO C <sub>28</sub> -C <sub>36</sub> (mg/kg)	TPH C <sub>6</sub> -C <sub>36</sub> (mg/kg)	Chloride (mg/kg)
FL 10 @ 5'	9/25/2025	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 11 @ 8'	9/25/2025	8	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 12 @ 5'	9/25/2025	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 13 @ 5'	9/25/2025	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 14 @ 5'	9/25/2025	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL 15 @ 5'	9/25/2025	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 16 @ 5'	9/25/2025	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL 17 @ 4'	9/25/2025	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL 18 @ 2'	9/25/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL 19 @ 2'	9/25/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 20 @ 2'	9/25/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 21 @ 2'	9/25/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL 22 @ 2'	9/25/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL 23 @ 2'	9/25/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL 24 @ 2'	9/25/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL 25 @ 2'	9/25/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL 26 @ 2'	9/26/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 27 @ 2'	9/26/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 28 @ 2'	9/26/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL 29 @ 2'	9/26/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 30 @ 2'	9/26/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 31 @ 2'	9/26/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 32 @ 2'	9/26/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 33 @ 2'	9/26/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 34 @ 2'	9/26/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 35 @ 2'	9/26/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 36 @ 2'	9/26/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 37 @ 2'	9/26/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 38 @ 2'	9/26/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 39 @ 2'	9/26/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 40 @ 2'	9/26/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 41 @ 2'	9/26/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 42 @ 2'	9/26/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 43 @ 2'	9/26/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 44 @ 2'	9/26/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 45 @ 2'	9/26/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
EW 1	9/25/2025	0-5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
EW 2	9/25/2025	0-5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
EW 3	9/26/2025	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
EW 4	9/26/2025	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
EW 5	9/26/2025	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0

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

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

Red Border with Shading: Highest observed concentration.



<b>Table 1</b> <b>Concentrations of BTEX, TPH, and Chloride in Soil</b> <b>3R Operating, LLC</b> <b>Igloo 19 24 State Federal Com #015H</b> <b>NMOCD Ref. #: nAPP2524528282</b>											
NMOCD Closure Criteria				10	50	-	-	1,000	-	2,500	10,000
NMOCD Reclamation Standard				10	50	-	-	-	-	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C <sub>6</sub> -C <sub>10</sub> (mg/kg)	DRO C <sub>10</sub> -C <sub>28</sub> (mg/kg)	GRO + DRO C <sub>6</sub> -C <sub>28</sub> (mg/kg)	ORO C <sub>28</sub> -C <sub>36</sub> (mg/kg)	TPH C <sub>6</sub> -C <sub>36</sub> (mg/kg)	Chloride (mg/kg)
NW 1	9/25/2025	0-5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
NW 2	9/25/2025	0-5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
NW 3	9/25/2025	0-5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
NW 4	9/25/2025	0-5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
NW 5	9/25/2025	0-5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
NW 6	9/25/2025	0-5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
NW 7	9/26/2025	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
NW 8	9/26/2025	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
NW 9	9/26/2025	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SW 1	9/25/2025	0-5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SW 2	9/25/2025	0-5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SW 3	9/25/2025	0-5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SW 4	9/25/2025	0-8	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SW 5	9/25/2025	0-5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SW 6	9/25/2025	0-5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SW 7	9/26/2025	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
WW 1	9/25/2025	0-5	In-Situ	<0.050	<0.300	<10.0	11.0	11.0	<10.0	11.0	48.0
WW 2	9/25/2025	0-8	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
WW 3	9/25/2025	0-5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
WW 4	9/25/2025	0-5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
WW 5	9/25/2025	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
Deferral Soil Sample Results											
DEF 1 @ SUR	9/25/2025	0	Deferred	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	35,200
DEF 1 @ 1'	9/25/2025	1	Deferred	<0.050	<0.300	<10.0	195	195	26.6	222	5,920
DEF 1 @ 2'	9/25/2025	2	Deferred	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
Backfill Soil Sample Results											
Sims Ranch Pit	8/16/2024	N/A	Backfilled	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0

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

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

Red Border with Shading: Highest observed concentration.

## **Appendix A**

### **Depth to Groundwater Information**



## Legend

- |                         |                 |
|-------------------------|-----------------|
| ● Active Site Locations | ■ Affected Area |
| ● Well - NMOSE          | — 500 ft.       |
| ● Well - USGS           | — 1,000 ft.     |
| ● Well - Exploratory    | — 0.5 mi.       |

## Figure 4

Inferred Depth to Groundwater Map  
3R Operating, LLC  
Igloo 19 24 State Federal Com #015H  
GPS: 32.555693, -103.495709  
Lea County, New Mexico



Drafted: mag

Checked: rlc

Date: 2025-08-29

CARMONA RESOURCES



Project Name :	Chief 30 State #3H	Date :	Tuesday, August 30, 2022
Project No. :	1120	Sampler :	A. Thielke
Location :	Lea County, New Mexico	Driller :	Scarborough Drilling
Coordinates :	32.54596, -103.50371	Method :	Air Rotary
Elevation :			

Depth (ft.)	WL	Soil Description	Lithology	Depth (ft.)	WL	Soil Description	Lithology
0		Silty/Sand. Red/Light brown sand. Fine Grain, Dry Poorly Cemented		50		Dark Brown Silty Sand w/clay. Poorly Cemented Dry Sand. Fine Grain.	
5				55			
10				60		TD: 55'	
15				65			
20				70			
25		Fine Grain Sand w/ 30% Caliche/Gravels. Pinkish/Red Sand. Medium/Coarse Grain Caliche. Well Sorted		75			
27		White. Coarse grained caliche gravel (80%) w/ silty sand (20%). Well Sorted		80			
30		Medium grained sand w/ gravel fragments. Light brown/red. Well Sorted.		85			
35				90			
40		Brown/ Red Dry Silty/ Sand. Very Fine Grain.		95			
45				100			
50		Fine Grain Sand w/ 30% Caliche/Gravels. Brown/Red Sand. Medium/Coarse Grain Caliche. Well Sorted and poorly cemented		105			

Comments : Boring terminated at 55' at 15:00 Central Time with no presence of groundwater or moisture, checked for moisture on 9/7/2022. No moisture present.

## **Appendix B**

### **Field Data**



KO  
3 Belly 2

Sample Log

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

Project: Igloo 19 24 State Federal Com #015H  
Project Number: 22882 Latitude: 32.555693 Longitude: -103.495709

Sample ID	PID/Odor	Chloride Conc.	GPS
SP1@Sur	-		
SP1@1'	-	896	
SP2@Sur	-	1600	
SP2@1'	-	828	
SP3@Sur	-	9156	
SP3@1'	-	1464	
SP4@Sur	-	9276	
SP4@1'	-	207	
SP5@Sur	-	4116	
SP5@5'	-	828	
SP6@Sur	-	210	
SP6@5'	-	204	
SP7@Sur	-		
SP7@5'	-		
NW1	3.2	428	
FL1@4	5.0 High	968	
WW1	3.8	580	
SW1	3.0	384	
FL1@5	3.2	428	
FL2@5	3.4	476	
FL3@5	2.0	204	
FL4@5	2.2	236	
FL5@5	3.0	384	
FL6@5	2.6	304	
NW2	2.0	204	
SW2	3.8	384	
FL7@5	3.0	384	
NW3	2.8	344	
SW3	2.6	304	
FL8@5	2.8	344	
FL9@5	2.2	236	
FL10@5	2.6	304	
FW1	3.2	428	
WW2	3.0	384	
SW4 HL	5.0	3744	
SW4	7.2	2104	

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



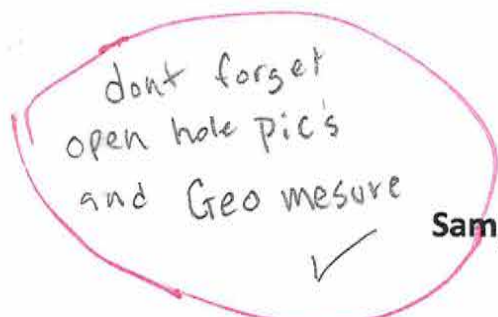
Sample Log

Project: Igloo 19 24 State Federal Com #015H  
Project Number: 22882 Latitude: 32.555693 Longitude: -103.495709  
Date: \_\_\_\_\_

Sample ID	PID/Odor	Chloride Conc.	GPS
FL1105 6.6	—	1704	
FL1106 6.2	—	1488	
FL1107 4.4	—	760	
FL1108 2.2	—	236	
SW4 3.8	—	580	
FL1205 2.6	—	304	
FL1305 3.0	—	384	
FL1405 3.0	—	384	
FL1505 2.8	—	344	
WW3 2.0	—	204	
NW4 2.6	—	304	
EW2 2.0	—	204	
WW4 2.0	—	204	
SW5 3.8	—	580	
NW5 3.8	—	580	
Def1 @ Sur HS 9.0	—	24,508	
Def1 @ 1 HS 6.0	—	5,584	
Def1 @ 2 3.0	—	384	
NH1 @ Sur 2.8	—	344	
NH1 @ 1 2.0	—	204	
EH1 @ Sur 3.0	—	384	
EH1 @ 1 2.0	—	204	
SH1 @ Sur 2.6	—	304	
SH1 @ 1 1.8	—	176	
WH1 @ Sur 2.8	—	344	
WH1 @ 1 1.8	—	176	
SW6 2.0	—	204	
NW6 2.2	—	236	
FL1605 2.6	—	304	
FL1704 1.8	—	176	
FL1802 2.0	—	304	
FL1902 3.0	—	384	
FL2002 2.0	—	304	
FL2102 1.4	—	128	
WW5 1.8	—	176	
FL2202 1.4	—	128	

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





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

Project Number: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

[illegible]

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

**Stockpile = Stockpile #1**


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



## **Appendix C**

### **Photographic Log**


## Photographic Log


<b>Photo Number:</b> 1	
<b>Photo Direction:</b> West	
<b>Photo GPS:</b> 32.55557, -103.49575	
<b>Photo Date:</b> 8/29/2025	
<b>Photo Description:</b>  Aerial view of release area.	

<b>Photo Number:</b> 2	
<b>Photo Direction:</b> East	
<b>Photo GPS:</b> 32.55581, -103.49722	
<b>Photo Date:</b> 8/29/2025	
<b>Photo Description:</b>  Aerial view of release area.	




## Photographic Log

<b>Photo Number:</b> 3	
<b>Photo Direction:</b> East	
<b>Photo GPS:</b> 32.55578, -103.49645	
<b>Photo Date:</b> 8/29/2025	
<b>Photo Description:</b>  Ground view of release area.	

<b>Photo Number:</b> 4	
<b>Photo Direction:</b> South	
<b>Photo GPS:</b> 32.55578, -103.49645	
<b>Photo Date:</b> 8/29/2025	
<b>Photo Description:</b>  Ground view of release area.	

## Photographic Log

<b>Photo Number:</b> 5	
<b>Photo Direction:</b> South	
<b>Photo GPS:</b> 32.55578, -103.49645	
<b>Photo Date:</b> 8/29/2025	
<b>Photo Description:</b>  Ground view of release area.	

<b>Photo Number:</b> 6	
<b>Photo Direction:</b> East	
<b>Photo GPS:</b> 32.55572, -103.49710	
<b>Photo Date:</b> 8/29/2025	
<b>Photo Description:</b>  Ground view of release area.	




## Photographic Log

<b>Photo Number:</b> 7	
<b>Photo Direction:</b> West	
<b>Photo Description:</b>  View of open excavation.	

<b>Photo Number:</b> 8	
<b>Photo Direction:</b> South	
<b>Photo Description:</b>  View of open excavation.	



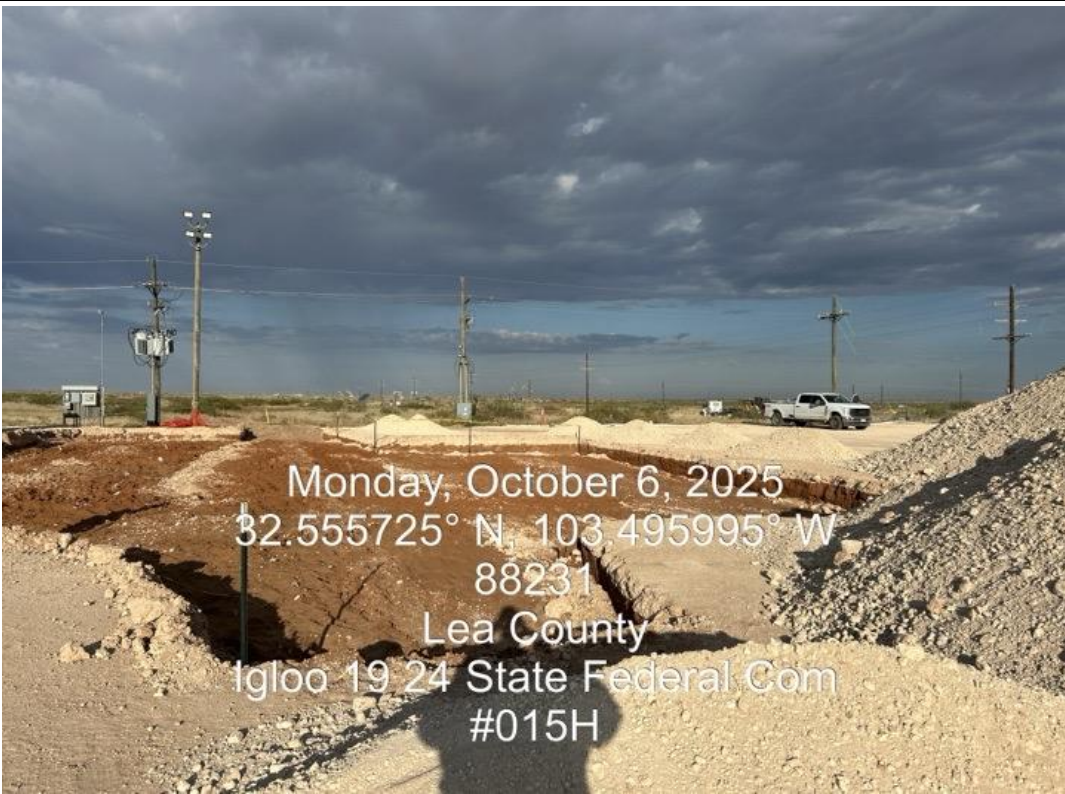
## Photographic Log

<b>Photo Number:</b> 9	 <p>Wednesday, October 1, 2025 32.555829° N, 103.496698° W 88231 Lea County Igloo 19 24 State Federal Com #015H</p>
<b>Photo Direction:</b> West	
<b>Photo Description:</b>  View of open excavation.	

<b>Photo Number:</b> 10	 <p>Wednesday, October 1, 2025 32.555829° N, 103.496698° W 88231 Lea County Igloo 19 24 State Federal Com #015H</p>
<b>Photo Direction:</b> East	
<b>Photo Description:</b>  View of open excavation.	




## Photographic Log

<b>Photo Number:</b> 11	 <p>Monday, October 6, 2025 32.555725° N, 103.495995° W 88231 Lea County Igloo 19 24 State Federal Com #015H</p>
<b>Photo Direction:</b> West	
<b>Photo Description:</b>  View of open excavation.	


<b>Photo Number:</b> 12	 <p>Monday, October 6, 2025 32.555725° N, 103.495995° W 88231 Lea County Igloo 19 24 State Federal Com #015H</p>
<b>Photo Direction:</b> West	
<b>Photo Description:</b>  View of open excavation.	



## Photographic Log

<b>Photo Number:</b> 13	
<b>Photo Direction:</b> West	
<b>Photo Description:</b>  View of remediated area after backfill and regrading.	

Wednesday, October 8, 2025  
32.555782° N, 103.496099° W  
88231  
Lea County  
Igloo 19 24 State Federal Com  
#015H


<b>Photo Number:</b> 14	
<b>Photo Direction:</b> East	
<b>Photo Description:</b>  View of remediated area after backfill and regrading.	

Wednesday, October 8, 2025  
32.555750° N, 103.496746° W  
88231  
Lea County  
Igloo 19 24 State Federal Com  
#015H

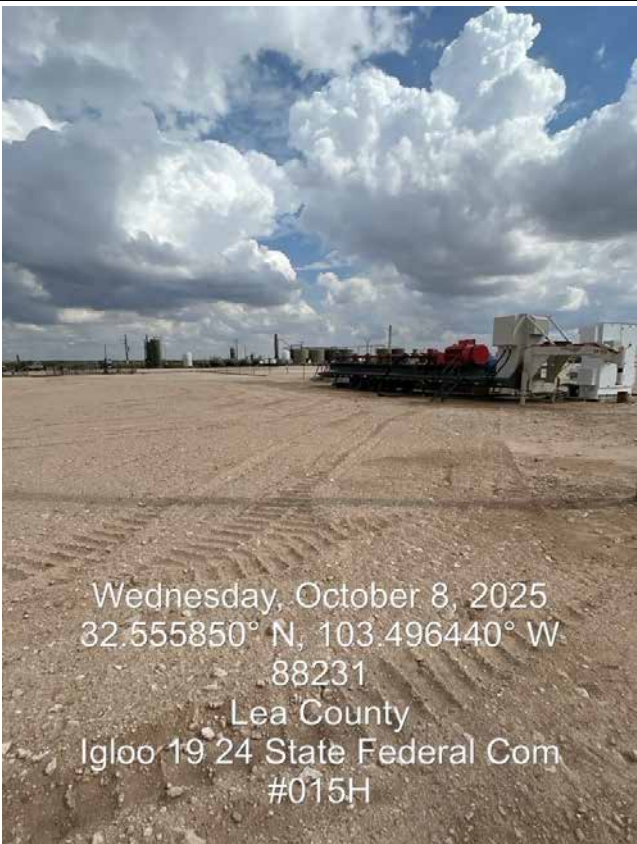



## Photographic Log

<b>Photo Number:</b> 15	
<b>Photo Direction:</b> West	
<b>Photo Description:</b>  View of remediated area after backfill and regrading.	

<b>Photo Number:</b> 16	
<b>Photo Direction:</b> West	
<b>Photo Description:</b>  View of remediated area after backfill and regrading.	

## Photographic Log

<b>Photo Number:</b> 17		<p>Wednesday, October 8, 2025 32.555850° N, 103.496440° W 88231 Lea County Igloo 19 24 State Federal Com #015H</p>
<b>Photo Direction:</b> Southeast		
<b>Photo Description:</b>  View of remediated area after backfill and regrading.		

<b>Photo Number:</b> 18		<p>Wednesday, October 8, 2025 32.555911° N, 103.496340° W 88231 Lea County Igloo 19 24 State Federal Com #015H</p>
<b>Photo Direction:</b> South		
<b>Photo Description:</b>  View of remediated area after backfill and regrading.		

## **Appendix D**

### **Laboratory Analytical Reports**



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

September 15, 2025

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: IGLOO 19 24 STATE FEDERAL COM #015H

Enclosed are the results of analyses for samples received by the laboratory on 09/09/25 14:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received:	09/09/2025	Sampling Date:	09/08/2025
Reported:	09/15/2025	Sampling Type:	Soil
Project Name:	IGLOO 19 24 STATE FEDERAL COM #01!	Sampling Condition:	Cool & Intact
Project Number:	22882	Sample Received By:	Alyssa Parras
Project Location:	3R OPERATING 32.555693-103.495709		

**Sample ID: SP 1 @ SUR (H255649-01)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/11/2025	ND	2.24	112	2.00	2.62		
Toluene*	<0.050	0.050	09/11/2025	ND	2.20	110	2.00	2.69		
Ethylbenzene*	<0.050	0.050	09/11/2025	ND	2.12	106	2.00	2.02		
Total Xylenes*	<0.150	0.150	09/11/2025	ND	6.63	111	6.00	1.96		
Total BTX	<0.300	0.300	09/11/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 122 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	34400	16.0	09/10/2025	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	09/10/2025	ND	196	98.0	200	0.142	
DRO >C10-C28*	225	10.0	09/10/2025	ND	174	87.2	200	1.45	
EXT DRO >C28-C36	20.6	10.0	09/10/2025	ND					

Surrogate: 1-Chlorooctane 89.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 98.8 % 40.6-153

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  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 09/09/2025  
 Reported: 09/15/2025  
 Project Name: IGLOO 19 24 STATE FEDERAL COM #01!  
 Project Number: 22882  
 Project Location: 3R OPERATING 32.555693-103.495709

Sampling Date: 09/08/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SP 2 @ SUR (H255649-02)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/11/2025	ND	2.24	112	2.00	2.62		
Toluene*	<0.050	0.050	09/11/2025	ND	2.20	110	2.00	2.69		
Ethylbenzene*	<0.050	0.050	09/11/2025	ND	2.12	106	2.00	2.02		
Total Xylenes*	<0.150	0.150	09/11/2025	ND	6.63	111	6.00	1.96		
Total BTX	<0.300	0.300	09/11/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1740	16.0	09/10/2025	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	09/10/2025	ND	196	98.0	200	0.142	
DRO >C10-C28*	<10.0	10.0	09/10/2025	ND	174	87.2	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	09/10/2025	ND					

Surrogate: 1-Chlorooctane 83.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 84.4 % 40.6-153

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  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 09/09/2025  
 Reported: 09/15/2025  
 Project Name: IGLOO 19 24 STATE FEDERAL COM #01!  
 Project Number: 22882  
 Project Location: 3R OPERATING 32.555693-103.495709

Sampling Date: 09/08/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SP 3 @ SUR (H255649-03)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/11/2025	ND	2.24	112	2.00	2.62		
Toluene*	<0.050	0.050	09/11/2025	ND	2.20	110	2.00	2.69		
Ethylbenzene*	<0.050	0.050	09/11/2025	ND	2.12	106	2.00	2.02		
Total Xylenes*	<0.150	0.150	09/11/2025	ND	6.63	111	6.00	1.96		
Total BTX	<0.300	0.300	09/11/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4240	16.0	09/10/2025	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	09/10/2025	ND	196	98.0	200	0.142	
DRO >C10-C28*	<10.0	10.0	09/10/2025	ND	174	87.2	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	09/10/2025	ND					

Surrogate: 1-Chlorooctane 84.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 85.4 % 40.6-153

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 09/09/2025  
 Reported: 09/15/2025  
 Project Name: IGLOO 19 24 STATE FEDERAL COM #01!  
 Project Number: 22882  
 Project Location: 3R OPERATING 32.555693-103.495709

Sampling Date: 09/08/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SP 4 @ SUR (H255649-04)**

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	09/11/2025	ND	2.24	112	2.00	2.62		
Toluene*	<0.050	0.050	09/11/2025	ND	2.20	110	2.00	2.69		
Ethylbenzene*	<0.050	0.050	09/11/2025	ND	2.12	106	2.00	2.02		
Total Xylenes*	<0.150	0.150	09/11/2025	ND	6.63	111	6.00	1.96		
Total BTEX	<0.300	0.300	09/11/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	10400	16.0	09/10/2025	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	09/10/2025	ND	196	98.0	200	0.142	
DRO >C10-C28*	14.0	10.0	09/10/2025	ND	174	87.2	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	09/10/2025	ND					

Surrogate: 1-Chlorooctane 83.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 85.4 % 40.6-153

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  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 09/09/2025  
 Reported: 09/15/2025  
 Project Name: IGLOO 19 24 STATE FEDERAL COM #01!  
 Project Number: 22882  
 Project Location: 3R OPERATING 32.555693-103.495709

Sampling Date: 09/08/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SP 5 @ SUR (H255649-05)**

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	09/11/2025	ND	2.24	112	2.00	2.62		
Toluene*	<0.050	0.050	09/11/2025	ND	2.20	110	2.00	2.69		
Ethylbenzene*	<0.050	0.050	09/11/2025	ND	2.12	106	2.00	2.02		
Total Xylenes*	<0.150	0.150	09/11/2025	ND	6.63	111	6.00	1.96		
Total BTEx	<0.300	0.300	09/11/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 126 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	416	16.0	09/10/2025	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	09/10/2025	ND	196	98.0	200	0.142	
DRO >C10-C28*	<10.0	10.0	09/10/2025	ND	174	87.2	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	09/10/2025	ND					

Surrogate: 1-Chlorooctane 85.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 85.4 % 40.6-153

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  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 09/09/2025  
 Reported: 09/15/2025  
 Project Name: IGLOO 19 24 STATE FEDERAL COM #01!  
 Project Number: 22882  
 Project Location: 3R OPERATING 32.555693-103.495709

Sampling Date: 09/08/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SP 6 @ SUR (H255649-06)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	09/11/2025	ND	2.24	112	2.00	2.62	
Toluene*	23.3	0.500	09/11/2025	ND	2.20	110	2.00	2.69	
Ethylbenzene*	33.4	0.500	09/11/2025	ND	2.12	106	2.00	2.02	
Total Xylenes*	103	1.50	09/11/2025	ND	6.63	111	6.00	1.96	
Total BTEX	160	3.00	09/11/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/10/2025	ND	416	104	400	0.00		

TPH 8015M	mg/kg		Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	2980	100	09/10/2025	ND	196	98.0	200	0.142	
DRO >C10-C28*	13100	100	09/10/2025	ND	174	87.2	200	1.45	
EXT DRO >C28-C36	1830	100	09/10/2025	ND					

Surrogate: 1-Chlorooctane 1120 % 44.4-145

Surrogate: 1-Chlorooctadecane 1140 % 40.6-153

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  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 09/09/2025  
 Reported: 09/15/2025  
 Project Name: IGLOO 19 24 STATE FEDERAL COM #01!  
 Project Number: 22882  
 Project Location: 3R OPERATING 32.555693-103.495709

Sampling Date: 09/08/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SP 7 @ SUR (H255649-07)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	09/11/2025	ND	2.24	112	2.00	2.62	
Toluene*	22.0	0.500	09/11/2025	ND	2.20	110	2.00	2.69	
Ethylbenzene*	24.6	0.500	09/11/2025	ND	2.12	106	2.00	2.02	
Total Xylenes*	66.8	1.50	09/11/2025	ND	6.63	111	6.00	1.96	
Total BTEX	113	3.00	09/11/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 126 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/10/2025	ND	416	104	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
				S-06					

Surrogate: 1-Chlorooctane 1330 % 44.4-145

Surrogate: 1-Chlorooctadecane 984 % 40.6-153

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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  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 09/09/2025  
 Reported: 09/15/2025  
 Project Name: IGLOO 19 24 STATE FEDERAL COM #01!  
 Project Number: 22882  
 Project Location: 3R OPERATING 32.555693-103.495709

Sampling Date: 09/08/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SP 1 @ 1' (H255649-08)**

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	09/11/2025	ND	2.24	112	2.00	2.62		
Toluene*	<0.050	0.050	09/11/2025	ND	2.20	110	2.00	2.69		
Ethylbenzene*	<0.050	0.050	09/11/2025	ND	2.12	106	2.00	2.02		
Total Xylenes*	<0.150	0.150	09/11/2025	ND	6.63	111	6.00	1.96		
Total BTEx	<0.300	0.300	09/11/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 122 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	416	16.0	09/10/2025	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	09/10/2025	ND	196	98.0	200	0.142	
DRO >C10-C28*	<10.0	10.0	09/10/2025	ND	174	87.2	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	09/10/2025	ND					

Surrogate: 1-Chlorooctane 86.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 87.5 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 09/09/2025  
 Reported: 09/15/2025  
 Project Name: IGLOO 19 24 STATE FEDERAL COM #01!  
 Project Number: 22882  
 Project Location: 3R OPERATING 32.555693-103.495709

Sampling Date: 09/08/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SP 2 @ 1' (H255649-09)**

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	09/11/2025	ND	2.24	112	2.00	2.62		
Toluene*	<0.050	0.050	09/11/2025	ND	2.20	110	2.00	2.69		
Ethylbenzene*	<0.050	0.050	09/11/2025	ND	2.12	106	2.00	2.02		
Total Xylenes*	<0.150	0.150	09/11/2025	ND	6.63	111	6.00	1.96		
Total BTEx	<0.300	0.300	09/11/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	09/10/2025	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	09/10/2025	ND	203	101	200	0.627	
DRO >C10-C28*	<10.0	10.0	09/10/2025	ND	206	103	200	0.0725	
EXT DRO >C28-C36	<10.0	10.0	09/10/2025	ND					

Surrogate: 1-Chlorooctane 120 % 44.4-145

Surrogate: 1-Chlorooctadecane 119 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 09/09/2025  
 Reported: 09/15/2025  
 Project Name: IGLOO 19 24 STATE FEDERAL COM #01!  
 Project Number: 22882  
 Project Location: 3R OPERATING 32.555693-103.495709

Sampling Date: 09/08/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SP 3 @ 1' (H255649-10)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/11/2025	ND	2.24	112	2.00	2.62		
Toluene*	<0.050	0.050	09/11/2025	ND	2.20	110	2.00	2.69		
Ethylbenzene*	<0.050	0.050	09/11/2025	ND	2.12	106	2.00	2.02		
Total Xylenes*	<0.150	0.150	09/11/2025	ND	6.63	111	6.00	1.96		
Total BTX	<0.300	0.300	09/11/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 122 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	09/10/2025	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	09/10/2025	ND	203	101	200	0.627	
DRO >C10-C28*	<10.0	10.0	09/10/2025	ND	206	103	200	0.0725	
EXT DRO >C28-C36	<10.0	10.0	09/10/2025	ND					

Surrogate: 1-Chlorooctane 95.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 93.7 % 40.6-153

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**Analytical Results For:**

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

Received: 09/09/2025  
 Reported: 09/15/2025  
 Project Name: IGLOO 19 24 STATE FEDERAL COM #01!  
 Project Number: 22882  
 Project Location: 3R OPERATING 32.555693-103.495709

Sampling Date: 09/08/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SP 4 @ 1' (H255649-11)**

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	09/11/2025	ND	2.24	112	2.00	2.62		
Toluene*	<0.050	0.050	09/11/2025	ND	2.20	110	2.00	2.69		
Ethylbenzene*	<0.050	0.050	09/11/2025	ND	2.12	106	2.00	2.02		
Total Xylenes*	<0.150	0.150	09/11/2025	ND	6.63	111	6.00	1.96		
Total BTEx	<0.300	0.300	09/11/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	09/10/2025	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	09/10/2025	ND	203	101	200	0.627	
DRO >C10-C28*	<10.0	10.0	09/10/2025	ND	206	103	200	0.0725	
EXT DRO >C28-C36	<10.0	10.0	09/10/2025	ND					

Surrogate: 1-Chlorooctane 96.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 94.0 % 40.6-153

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**Analytical Results For:**

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

Received: 09/09/2025  
 Reported: 09/15/2025  
 Project Name: IGLOO 19 24 STATE FEDERAL COM #01!  
 Project Number: 22882  
 Project Location: 3R OPERATING 32.555693-103.495709

Sampling Date: 09/08/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SP 5 @ 5' (H255649-12)**

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	09/11/2025	ND	2.17	108	2.00	1.85		
Toluene*	<0.050	0.050	09/11/2025	ND	2.49	125	2.00	1.57		
Ethylbenzene*	<0.050	0.050	09/11/2025	ND	2.57	129	2.00	1.42		
Total Xylenes*	<0.150	0.150	09/11/2025	ND	7.98	133	6.00	1.10		
Total BTEX	<0.300	0.300	09/11/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	896	16.0	09/10/2025	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	09/10/2025	ND	203	101	200	0.627	
DRO >C10-C28*	29.9	10.0	09/10/2025	ND	206	103	200	0.0725	
EXT DRO >C28-C36	<10.0	10.0	09/10/2025	ND					

Surrogate: 1-Chlorooctane 93.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 92.1 % 40.6-153

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**Analytical Results For:**

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

Received: 09/09/2025  
 Reported: 09/15/2025  
 Project Name: IGLOO 19 24 STATE FEDERAL COM #01!  
 Project Number: 22882  
 Project Location: 3R OPERATING 32.555693-103.495709

Sampling Date: 09/08/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SP 6 @ 5' (H255649-13)**

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	09/11/2025	ND	2.17	108	2.00	1.85		
Toluene*	<0.050	0.050	09/11/2025	ND	2.49	125	2.00	1.57		
Ethylbenzene*	<0.050	0.050	09/11/2025	ND	2.57	129	2.00	1.42		
Total Xylenes*	<0.150	0.150	09/11/2025	ND	7.98	133	6.00	1.10		
Total BTEX	<0.300	0.300	09/11/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/10/2025	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	09/10/2025	ND	203	101	200	0.627	
DRO >C10-C28*	61.7	10.0	09/10/2025	ND	206	103	200	0.0725	
EXT DRO >C28-C36	<10.0	10.0	09/10/2025	ND					

Surrogate: 1-Chlorooctane 95.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 94.8 % 40.6-153

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**Analytical Results For:**

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

Received: 09/09/2025  
 Reported: 09/15/2025  
 Project Name: IGLOO 19 24 STATE FEDERAL COM #01!  
 Project Number: 22882  
 Project Location: 3R OPERATING 32.555693-103.495709

Sampling Date: 09/08/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SP 7 @ 5' (H255649-14)**

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	09/11/2025	ND	2.07	104	2.00	5.68	
Toluene*	0.212	0.050	09/11/2025	ND	2.06	103	2.00	7.72	
Ethylbenzene*	0.570	0.050	09/11/2025	ND	2.02	101	2.00	8.77	
Total Xylenes*	2.14	0.150	09/11/2025	ND	6.38	106	6.00	9.85	
Total BTEX	2.92	0.300	09/11/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 132 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/10/2025	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*	43.1	10.0	09/10/2025	ND	203	101	200	0.627	
DRO >C10-C28*	481	10.0	09/10/2025	ND	206	103	200	0.0725	
EXT DRO >C28-C36	89.5	10.0	09/10/2025	ND					

Surrogate: 1-Chlorooctane 107 % 44.4-145

Surrogate: 1-Chlorooctadecane 107 % 40.6-153

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**Analytical Results For:**

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

Received: 09/09/2025  
 Reported: 09/15/2025  
 Project Name: IGLOO 19 24 STATE FEDERAL COM #01!  
 Project Number: 22882  
 Project Location: 3R OPERATING 32.555693-103.495709

Sampling Date: 09/08/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: NH 1 @ SUR (H255649-15)**

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	09/11/2025	ND	2.17	108	2.00	1.85		
Toluene*	<0.050	0.050	09/11/2025	ND	2.49	125	2.00	1.57		
Ethylbenzene*	<0.050	0.050	09/11/2025	ND	2.57	129	2.00	1.42		
Total Xylenes*	<0.150	0.150	09/11/2025	ND	7.98	133	6.00	1.10		
Total BTEx	<0.300	0.300	09/11/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/10/2025	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	09/10/2025	ND	203	101	200	0.627	
DRO >C10-C28*	<10.0	10.0	09/10/2025	ND	206	103	200	0.0725	
EXT DRO >C28-C36	<10.0	10.0	09/10/2025	ND					

Surrogate: 1-Chlorooctane 92.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 90.8 % 40.6-153

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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  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 09/09/2025  
 Reported: 09/15/2025  
 Project Name: IGLOO 19 24 STATE FEDERAL COM #01!  
 Project Number: 22882  
 Project Location: 3R OPERATING 32.555693-103.495709

Sampling Date: 09/08/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: NH 2 @ SUR (H255649-16)**

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	09/11/2025	ND	2.17	108	2.00	1.85		
Toluene*	<0.050	0.050	09/11/2025	ND	2.49	125	2.00	1.57		
Ethylbenzene*	<0.050	0.050	09/11/2025	ND	2.57	129	2.00	1.42		
Total Xylenes*	<0.150	0.150	09/11/2025	ND	7.98	133	6.00	1.10		
Total BTEx	<0.300	0.300	09/11/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/10/2025	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	09/10/2025	ND	203	101	200	0.627	
DRO >C10-C28*	<10.0	10.0	09/10/2025	ND	206	103	200	0.0725	
EXT DRO >C28-C36	<10.0	10.0	09/10/2025	ND					

Surrogate: 1-Chlorooctane 93.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 92.0 % 40.6-153

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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  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 09/09/2025  
 Reported: 09/15/2025  
 Project Name: IGLOO 19 24 STATE FEDERAL COM #01!  
 Project Number: 22882  
 Project Location: 3R OPERATING 32.555693-103.495709

Sampling Date: 09/08/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: NH 3 @ SUR (H255649-17)**

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	09/11/2025	ND	2.17	108	2.00	1.85		
Toluene*	<0.050	0.050	09/11/2025	ND	2.49	125	2.00	1.57		
Ethylbenzene*	<0.050	0.050	09/11/2025	ND	2.57	129	2.00	1.42		
Total Xylenes*	<0.150	0.150	09/11/2025	ND	7.98	133	6.00	1.10		
Total BTEX	<0.300	0.300	09/11/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/10/2025	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	09/10/2025	ND	203	101	200	0.627	
DRO >C10-C28*	<10.0	10.0	09/10/2025	ND	206	103	200	0.0725	
EXT DRO >C28-C36	<10.0	10.0	09/10/2025	ND					

Surrogate: 1-Chlorooctane 94.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 91.1 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 09/09/2025  
 Reported: 09/15/2025  
 Project Name: IGLOO 19 24 STATE FEDERAL COM #01!  
 Project Number: 22882  
 Project Location: 3R OPERATING 32.555693-103.495709

Sampling Date: 09/08/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: EH 1 @ SUR (H255649-18)**

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	09/11/2025	ND	2.17	108	2.00	1.85		
Toluene*	<0.050	0.050	09/11/2025	ND	2.49	125	2.00	1.57		
Ethylbenzene*	<0.050	0.050	09/11/2025	ND	2.57	129	2.00	1.42		
Total Xylenes*	<0.150	0.150	09/11/2025	ND	7.98	133	6.00	1.10		
Total BTEX	<0.300	0.300	09/11/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/10/2025	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	09/10/2025	ND	203	101	200	0.627	
DRO >C10-C28*	<10.0	10.0	09/10/2025	ND	206	103	200	0.0725	
EXT DRO >C28-C36	<10.0	10.0	09/10/2025	ND					

Surrogate: 1-Chlorooctane 94.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 91.6 % 40.6-153

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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  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 09/09/2025  
 Reported: 09/15/2025  
 Project Name: IGLOO 19 24 STATE FEDERAL COM #01!  
 Project Number: 22882  
 Project Location: 3R OPERATING 32.555693-103.495709

Sampling Date: 09/08/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SH 1 @ SUR (H255649-19)**

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	09/11/2025	ND	2.17	108	2.00	1.85		
Toluene*	<0.050	0.050	09/11/2025	ND	2.49	125	2.00	1.57		
Ethylbenzene*	<0.050	0.050	09/11/2025	ND	2.57	129	2.00	1.42		
Total Xylenes*	<0.150	0.150	09/11/2025	ND	7.98	133	6.00	1.10		
Total BTEX	<0.300	0.300	09/11/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/10/2025	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	09/10/2025	ND	203	101	200	0.627	
DRO >C10-C28*	<10.0	10.0	09/10/2025	ND	206	103	200	0.0725	
EXT DRO >C28-C36	<10.0	10.0	09/10/2025	ND					

Surrogate: 1-Chlorooctane 90.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 88.0 % 40.6-153

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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  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 09/09/2025  
 Reported: 09/15/2025  
 Project Name: IGLOO 19 24 STATE FEDERAL COM #01!  
 Project Number: 22882  
 Project Location: 3R OPERATING 32.555693-103.495709

Sampling Date: 09/08/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SH 2 @ SUR (H255649-20)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/11/2025	ND	2.17	108	2.00	1.85		
Toluene*	<0.050	0.050	09/11/2025	ND	2.49	125	2.00	1.57		
Ethylbenzene*	<0.050	0.050	09/11/2025	ND	2.57	129	2.00	1.42		
Total Xylenes*	<0.150	0.150	09/11/2025	ND	7.98	133	6.00	1.10		
Total BTEX	<0.300	0.300	09/11/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/10/2025	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	09/10/2025	ND	203	101	200	0.627	
DRO >C10-C28*	<10.0	10.0	09/10/2025	ND	206	103	200	0.0725	
EXT DRO >C28-C36	<10.0	10.0	09/10/2025	ND					

Surrogate: 1-Chlorooctane 91.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 88.8 % 40.6-153

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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  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 09/09/2025  
 Reported: 09/15/2025  
 Project Name: IGLOO 19 24 STATE FEDERAL COM #01!  
 Project Number: 22882  
 Project Location: 3R OPERATING 32.555693-103.495709

Sampling Date: 09/08/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SH 3 @ SUR (H255649-21)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/11/2025	ND	2.17	108	2.00	1.85		
Toluene*	<0.050	0.050	09/11/2025	ND	2.49	125	2.00	1.57		
Ethylbenzene*	<0.050	0.050	09/11/2025	ND	2.57	129	2.00	1.42		
Total Xylenes*	<0.150	0.150	09/11/2025	ND	7.98	133	6.00	1.10		
Total BTEX	<0.300	0.300	09/11/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/10/2025	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	09/10/2025	ND	203	101	200	0.627	
DRO >C10-C28*	<10.0	10.0	09/10/2025	ND	206	103	200	0.0725	
EXT DRO >C28-C36	<10.0	10.0	09/10/2025	ND					

Surrogate: 1-Chlorooctane 92.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 89.2 % 40.6-153

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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  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 09/09/2025  
 Reported: 09/15/2025  
 Project Name: IGLOO 19 24 STATE FEDERAL COM #01!  
 Project Number: 22882  
 Project Location: 3R OPERATING 32.555693-103.495709

Sampling Date: 09/08/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: WH 1 @ SUR (H255649-22)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/11/2025	ND	2.17	108	2.00	1.85		
Toluene*	<0.050	0.050	09/11/2025	ND	2.49	125	2.00	1.57		
Ethylbenzene*	<0.050	0.050	09/11/2025	ND	2.57	129	2.00	1.42		
Total Xylenes*	<0.150	0.150	09/11/2025	ND	7.98	133	6.00	1.10		
Total BTEX	<0.300	0.300	09/11/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/10/2025	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	09/11/2025	ND	203	101	200	0.627	
DRO >C10-C28*	<10.0	10.0	09/11/2025	ND	206	103	200	0.0725	
EXT DRO >C28-C36	<10.0	10.0	09/11/2025	ND					

Surrogate: 1-Chlorooctane 94.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 91.3 % 40.6-153

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---

### Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
BS1	Blank spike recovery above laboratory acceptance criteria. Results for analyte potentially biased high.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

---

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

---



Celey D. Keene, Lab Director/Quality Manager

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

Page 1 of 3

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Relinquished By: 		Date: 9-9-25		Received By: 		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
Relinquished By:		Time: 11:40		Received By:		All Results are emailed. Please provide Email address: pm@etechenv.com	
Relinquished By:		Date:		Received By:		REMARKS:	
Relinquished By:		Time:		Received By:		REMARKS:	
Delivered By: (Circle One)		Observed Temp. °C -79.2		Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: (Initials) AP	
Sampler - UPS - Bus - Other:		Corrected Temp. °C -76.1		Turnaround Time: Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/>		Bacteria (only) Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No	
FORM-006 R 3.5 08/05/24				Thermometer ID #140		Observed Temp. °C	
				Correction Factor -0.6°C		Corrected Temp. °C	

FORM-006 R 3.5 08/05/24

† Cardinal cannot accept verbal changes. Please email changes to [celey.keene@cardinallabsnm.com](mailto:celey.keene@cardinallabsnm.com)

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

Page 2 of 3

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Relinquished By: <i>M. M. M.</i>		Date: <i>9-9-25</i>		Received By: <i>A. P.</i>		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
		Time: <i>1450</i>				All Results are emailed. Please provide Email address: <a href="mailto:pm@etechenv.com">pm@etechenv.com</a>	
Relinquished By:		Date:		Received By:		REMARKS:	
		Time:					
Delivered By: (Circle One)		Observed Temp. °C <i>-7.9</i>		Sample Condition		CHECKED BY: (Initials) <i>AP</i>	
Sampler - UPS - Bus - Other:		Corrected Temp. °C <i>-7.6</i>		Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>	
						Bacteria (only) Sample Condition Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>	
						Thermometer ID #140 Correction Factor <i>-0.6°C</i> <i>+0.3</i>	
						Observed Temp. °C Corrected Temp. °C	



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

Page 3 of 3

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**Relinquished By:** \_\_\_\_\_ **Date:** \_\_\_\_\_ **Received By:** \_\_\_\_\_

Relinquished By: <i>Mth</i>		Date: <i>9-9-25</i>		Received By: <i>OnDarius</i>		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
Relinquished By:		Time: <i>1450</i>		Received By:		All Results are emailed. Please provide Email address: <a href="mailto:pm@etechenv.com">pm@etechenv.com</a>	
Relinquished By:		Date:		Received By:		REMARKS:	
Relinquished By:		Time:		Received By:		REMARKS:	
Delivered By: (Circle One)		Observed Temp. °C <i>-7.9</i>		Sample Condition		CHECKED BY: (Initials) <i>AP</i>	
Sampler - UPS - Bus - Other:		Corrected Temp. °C <i>-7.6</i>		Cool <input type="checkbox"/> Intact <input type="checkbox"/>		Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>	
				Yes <input type="checkbox"/> No <input type="checkbox"/>		Bacteria (only) Sample Condition	
				Cool <input type="checkbox"/> Intact <input type="checkbox"/>		Cool <input type="checkbox"/> Intact <input type="checkbox"/>	
				Yes <input type="checkbox"/> No <input type="checkbox"/>		Yes <input type="checkbox"/> No <input type="checkbox"/>	
				No <input type="checkbox"/> No <input type="checkbox"/>		No <input type="checkbox"/> No <input type="checkbox"/>	
						Observed Temp. °C	
						Corrected Temp. °C	





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

October 01, 2025

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: IGLOO 19 24 STATE FEDERAL COM #015H

Enclosed are the results of analyses for samples received by the laboratory on 09/25/25 14:53.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	09/25/2025	Sampling Date:	09/25/2025
Reported:	10/01/2025	Sampling Type:	Soil
Project Name:	IGLOO 19 24 STATE FEDERAL COM #01!	Sampling Condition:	Cool & Intact
Project Number:	22882	Sample Received By:	Alyssa Parras
Project Location:	3R OPERATING 32.555693-103.495709		

**Sample ID: FL 1 @ 5' (H256027-01)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/26/2025	ND	2.08	104	2.00	5.28	
Toluene*	<0.050	0.050	09/26/2025	ND	2.04	102	2.00	4.83	
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	1.98	99.1	2.00	4.60	
Total Xylenes*	<0.150	0.150	09/26/2025	ND	5.80	96.6	6.00	4.44	
Total BTX	<0.300	0.300	09/26/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.3 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/26/2025	ND	448	112	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2025	ND	194	97.1	200	4.84	
DRO >C10-C28*	<10.0	10.0	09/26/2025	ND	211	105	200	1.96	
EXT DRO >C28-C36	<10.0	10.0	09/26/2025	ND					

Surrogate: 1-Chlorooctane 83.7 % 52.4-130

Surrogate: 1-Chlorooctadecane 82.3 % 39.9-141

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 09/25/2025  
 Reported: 10/01/2025  
 Project Name: IGLOO 19 24 STATE FEDERAL COM #01!  
 Project Number: 22882  
 Project Location: 3R OPERATING 32.555693-103.495709

Sampling Date: 09/25/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: FL 2 @ 5' (H256027-02)**

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	09/26/2025	ND	2.08	104	2.00	5.28		
Toluene*	<0.050	0.050	09/26/2025	ND	2.04	102	2.00	4.83		
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	1.98	99.1	2.00	4.60		
Total Xylenes*	<0.150	0.150	09/26/2025	ND	5.80	96.6	6.00	4.44		
Total BTEX	<0.300	0.300	09/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.8 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	09/26/2025	ND	448	112	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2025	ND	194	97.1	200	4.84	
DRO >C10-C28*	<10.0	10.0	09/26/2025	ND	211	105	200	1.96	
EXT DRO >C28-C36	<10.0	10.0	09/26/2025	ND					

Surrogate: 1-Chlorooctane 86.0 % 52.4-130

Surrogate: 1-Chlorooctadecane 83.8 % 39.9-141

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 09/25/2025  
 Reported: 10/01/2025  
 Project Name: IGLOO 19 24 STATE FEDERAL COM #01!  
 Project Number: 22882  
 Project Location: 3R OPERATING 32.555693-103.495709

Sampling Date: 09/25/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: FL 3 @ 5' (H256027-03)**

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	09/26/2025	ND	2.08	104	2.00	5.28		
Toluene*	<0.050	0.050	09/26/2025	ND	2.04	102	2.00	4.83		
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	1.98	99.1	2.00	4.60		
Total Xylenes*	<0.150	0.150	09/26/2025	ND	5.80	96.6	6.00	4.44		
Total BTEx	<0.300	0.300	09/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.9 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/26/2025	ND	448	112	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2025	ND	194	97.1	200	4.84	
DRO >C10-C28*	<10.0	10.0	09/26/2025	ND	211	105	200	1.96	
EXT DRO >C28-C36	<10.0	10.0	09/26/2025	ND					

Surrogate: 1-Chlorooctane 80.7 % 52.4-130

Surrogate: 1-Chlorooctadecane 78.4 % 39.9-141

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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  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 09/25/2025  
 Reported: 10/01/2025  
 Project Name: IGLOO 19 24 STATE FEDERAL COM #01!  
 Project Number: 22882  
 Project Location: 3R OPERATING 32.555693-103.495709

Sampling Date: 09/25/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: FL 4 @ 5' (H256027-04)**

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	09/26/2025	ND	2.08	104	2.00	5.28		
Toluene*	<0.050	0.050	09/26/2025	ND	2.04	102	2.00	4.83		
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	1.98	99.1	2.00	4.60		
Total Xylenes*	<0.150	0.150	09/26/2025	ND	5.80	96.6	6.00	4.44		
Total BTEX	<0.300	0.300	09/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.2 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/26/2025	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	09/26/2025	ND	194	97.1	200	4.84	
DRO >C10-C28*	<10.0	10.0	09/26/2025	ND	211	105	200	1.96	
EXT DRO >C28-C36	<10.0	10.0	09/26/2025	ND					

Surrogate: 1-Chlorooctane 76.2 % 52.4-130

Surrogate: 1-Chlorooctadecane 76.3 % 39.9-141

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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  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	09/25/2025	Sampling Date:	09/25/2025
Reported:	10/01/2025	Sampling Type:	Soil
Project Name:	IGLOO 19 24 STATE FEDERAL COM #01!	Sampling Condition:	Cool & Intact
Project Number:	22882	Sample Received By:	Alyssa Parras
Project Location:	3R OPERATING 32.555693-103.495709		

**Sample ID: FL 5 @ 5' (H256027-05)**

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	09/26/2025	ND	2.08	104	2.00	5.28		
Toluene*	<0.050	0.050	09/26/2025	ND	2.04	102	2.00	4.83		
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	1.98	99.1	2.00	4.60		
Total Xylenes*	<0.150	0.150	09/26/2025	ND	5.80	96.6	6.00	4.44		
Total BTEX	<0.300	0.300	09/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.8 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	09/26/2025	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	09/26/2025	ND	194	97.1	200	4.84	
DRO >C10-C28*	<10.0	10.0	09/26/2025	ND	211	105	200	1.96	
EXT DRO >C28-C36	<10.0	10.0	09/26/2025	ND					

Surrogate: 1-Chlorooctane 77.7 % 52.4-130

Surrogate: 1-Chlorooctadecane 75.3 % 39.9-141

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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  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 09/25/2025  
 Reported: 10/01/2025  
 Project Name: IGLOO 19 24 STATE FEDERAL COM #01!  
 Project Number: 22882  
 Project Location: 3R OPERATING 32.555693-103.495709

Sampling Date: 09/25/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: FL 6 @ 5' (H256027-06)**

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	09/26/2025	ND	2.08	104	2.00	5.28		
Toluene*	<0.050	0.050	09/26/2025	ND	2.04	102	2.00	4.83		
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	1.98	99.1	2.00	4.60		
Total Xylenes*	<0.150	0.150	09/26/2025	ND	5.80	96.6	6.00	4.44		
Total BTEX	<0.300	0.300	09/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.2 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/26/2025	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	09/26/2025	ND	194	97.1	200	4.84	
DRO >C10-C28*	<10.0	10.0	09/26/2025	ND	211	105	200	1.96	
EXT DRO >C28-C36	<10.0	10.0	09/26/2025	ND					

Surrogate: 1-Chlorooctane 75.3 % 52.4-130

Surrogate: 1-Chlorooctadecane 73.3 % 39.9-141

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  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 09/25/2025  
 Reported: 10/01/2025  
 Project Name: IGLOO 19 24 STATE FEDERAL COM #01!  
 Project Number: 22882  
 Project Location: 3R OPERATING 32.555693-103.495709

Sampling Date: 09/25/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: FL 7 @ 5' (H256027-07)**

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	09/26/2025	ND	2.08	104	2.00	5.28		
Toluene*	<0.050	0.050	09/26/2025	ND	2.04	102	2.00	4.83		
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	1.98	99.1	2.00	4.60		
Total Xylenes*	<0.150	0.150	09/26/2025	ND	5.80	96.6	6.00	4.44		
Total BTEx	<0.300	0.300	09/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.0 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	09/26/2025	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	09/26/2025	ND	194	97.1	200	4.84	
DRO >C10-C28*	<10.0	10.0	09/26/2025	ND	211	105	200	1.96	
EXT DRO >C28-C36	<10.0	10.0	09/26/2025	ND					

Surrogate: 1-Chlorooctane 81.2 % 52.4-130

Surrogate: 1-Chlorooctadecane 79.9 % 39.9-141

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 09/25/2025  
 Reported: 10/01/2025  
 Project Name: IGLOO 19 24 STATE FEDERAL COM #01!  
 Project Number: 22882  
 Project Location: 3R OPERATING 32.555693-103.495709

Sampling Date: 09/25/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: FL 8 @ 5' (H256027-08)**

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	09/26/2025	ND	2.08	104	2.00	5.28		
Toluene*	<0.050	0.050	09/26/2025	ND	2.04	102	2.00	4.83		
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	1.98	99.1	2.00	4.60		
Total Xylenes*	<0.150	0.150	09/26/2025	ND	5.80	96.6	6.00	4.44		
Total BTEX	<0.300	0.300	09/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.8 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/26/2025	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	09/26/2025	ND	210	105	200	2.01	
DRO >C10-C28*	<10.0	10.0	09/26/2025	ND	200	100	200	2.88	
EXT DRO >C28-C36	<10.0	10.0	09/26/2025	ND					

Surrogate: 1-Chlorooctane 76.4 % 52.4-130

Surrogate: 1-Chlorooctadecane 71.1 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 09/25/2025  
 Reported: 10/01/2025  
 Project Name: IGLOO 19 24 STATE FEDERAL COM #01!  
 Project Number: 22882  
 Project Location: 3R OPERATING 32.555693-103.495709

Sampling Date: 09/25/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: FL 9 @ 5' (H256027-09)**

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	09/26/2025	ND	2.08	104	2.00	5.28		
Toluene*	<0.050	0.050	09/26/2025	ND	2.04	102	2.00	4.83		
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	1.98	99.1	2.00	4.60		
Total Xylenes*	<0.150	0.150	09/26/2025	ND	5.80	96.6	6.00	4.44		
Total BTEx	<0.300	0.300	09/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.6 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	09/26/2025	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	09/26/2025	ND	210	105	200	2.01	
DRO >C10-C28*	<10.0	10.0	09/26/2025	ND	200	100	200	2.88	
EXT DRO >C28-C36	<10.0	10.0	09/26/2025	ND					

Surrogate: 1-Chlorooctane 87.6 % 52.4-130

Surrogate: 1-Chlorooctadecane 81.7 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 09/25/2025  
 Reported: 10/01/2025  
 Project Name: IGLOO 19 24 STATE FEDERAL COM #01!  
 Project Number: 22882  
 Project Location: 3R OPERATING 32.555693-103.495709

Sampling Date: 09/25/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: FL 10 @ 5' (H256027-10)**

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	09/26/2025	ND	2.08	104	2.00	5.28		
Toluene*	<0.050	0.050	09/26/2025	ND	2.04	102	2.00	4.83		
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	1.98	99.1	2.00	4.60		
Total Xylenes*	<0.150	0.150	09/26/2025	ND	5.80	96.6	6.00	4.44		
Total BTEx	<0.300	0.300	09/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.1 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	09/26/2025	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	09/26/2025	ND	210	105	200	2.01	
DRO >C10-C28*	<10.0	10.0	09/26/2025	ND	200	100	200	2.88	
EXT DRO >C28-C36	<10.0	10.0	09/26/2025	ND					

Surrogate: 1-Chlorooctane 92.9 % 52.4-130

Surrogate: 1-Chlorooctadecane 86.7 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 09/25/2025  
 Reported: 10/01/2025  
 Project Name: IGLOO 19 24 STATE FEDERAL COM #01!  
 Project Number: 22882  
 Project Location: 3R OPERATING 32.555693-103.495709

Sampling Date: 09/25/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: FL 11 @ 8' (H256027-11)**

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	09/26/2025	ND	2.06	103	2.00	6.93		
Toluene*	<0.050	0.050	09/26/2025	ND	2.09	105	2.00	7.24		
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	2.08	104	2.00	7.15		
Total Xylenes*	<0.150	0.150	09/26/2025	ND	6.37	106	6.00	6.49		
Total BTEX	<0.300	0.300	09/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	09/26/2025	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	09/26/2025	ND	210	105	200	2.01	
DRO >C10-C28*	<10.0	10.0	09/26/2025	ND	200	100	200	2.88	
EXT DRO >C28-C36	<10.0	10.0	09/26/2025	ND					

Surrogate: 1-Chlorooctane 90.0 % 52.4-130

Surrogate: 1-Chlorooctadecane 85.5 % 39.9-141

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**Analytical Results For:**

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

Received: 09/25/2025  
 Reported: 10/01/2025  
 Project Name: IGLOO 19 24 STATE FEDERAL COM #01!  
 Project Number: 22882  
 Project Location: 3R OPERATING 32.555693-103.495709

Sampling Date: 09/25/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: FL 12 @ 5' (H256027-12)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/26/2025	ND	2.06	103	2.00	6.93		
Toluene*	<0.050	0.050	09/26/2025	ND	2.09	105	2.00	7.24		
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	2.08	104	2.00	7.15		
Total Xylenes*	<0.150	0.150	09/26/2025	ND	6.37	106	6.00	6.49		
Total BTX	<0.300	0.300	09/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/26/2025	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	09/26/2025	ND	210	105	200	2.01	
DRO >C10-C28*	<10.0	10.0	09/26/2025	ND	200	100	200	2.88	
EXT DRO >C28-C36	<10.0	10.0	09/26/2025	ND					

Surrogate: 1-Chlorooctane 95.4 % 52.4-130

Surrogate: 1-Chlorooctadecane 90.1 % 39.9-141

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**Analytical Results For:**

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

Received: 09/25/2025  
 Reported: 10/01/2025  
 Project Name: IGLOO 19 24 STATE FEDERAL COM #01!  
 Project Number: 22882  
 Project Location: 3R OPERATING 32.555693-103.495709

Sampling Date: 09/25/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: FL 13 @ 5' (H256027-13)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/26/2025	ND	2.06	103	2.00	6.93	
Toluene*	<0.050	0.050	09/26/2025	ND	2.09	105	2.00	7.24	
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	2.08	104	2.00	7.15	
Total Xylenes*	<0.150	0.150	09/26/2025	ND	6.37	106	6.00	6.49	
Total BTX	<0.300	0.300	09/26/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/26/2025	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	09/26/2025	ND	210	105	200	2.01	
DRO >C10-C28*	<10.0	10.0	09/26/2025	ND	200	100	200	2.88	
EXT DRO >C28-C36	<10.0	10.0	09/26/2025	ND					

Surrogate: 1-Chlorooctane 101 % 52.4-130

Surrogate: 1-Chlorooctadecane 93.9 % 39.9-141

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**Analytical Results For:**

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

Received: 09/25/2025  
 Reported: 10/01/2025  
 Project Name: IGLOO 19 24 STATE FEDERAL COM #01!  
 Project Number: 22882  
 Project Location: 3R OPERATING 32.555693-103.495709

Sampling Date: 09/25/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: FL 14 @ 5' (H256027-14)**

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	09/26/2025	ND	2.06	103	2.00	6.93		
Toluene*	<0.050	0.050	09/26/2025	ND	2.09	105	2.00	7.24		
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	2.08	104	2.00	7.15		
Total Xylenes*	<0.150	0.150	09/26/2025	ND	6.37	106	6.00	6.49		
Total BTEx	<0.300	0.300	09/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	09/26/2025	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	09/26/2025	ND	210	105	200	2.01	
DRO >C10-C28*	<10.0	10.0	09/26/2025	ND	200	100	200	2.88	
EXT DRO >C28-C36	<10.0	10.0	09/26/2025	ND					

Surrogate: 1-Chlorooctane 95.6 % 52.4-130

Surrogate: 1-Chlorooctadecane 90.8 % 39.9-141

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**Analytical Results For:**

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

Received: 09/25/2025  
 Reported: 10/01/2025  
 Project Name: IGLOO 19 24 STATE FEDERAL COM #01!  
 Project Number: 22882  
 Project Location: 3R OPERATING 32.555693-103.495709

Sampling Date: 09/25/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: FL 15 @ 5' (H256027-15)**

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	09/26/2025	ND	2.06	103	2.00	6.93		
Toluene*	<0.050	0.050	09/26/2025	ND	2.09	105	2.00	7.24		
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	2.08	104	2.00	7.15		
Total Xylenes*	<0.150	0.150	09/26/2025	ND	6.37	106	6.00	6.49		
Total BTEX	<0.300	0.300	09/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/26/2025	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	09/26/2025	ND	210	105	200	2.01	
DRO >C10-C28*	<10.0	10.0	09/26/2025	ND	200	100	200	2.88	
EXT DRO >C28-C36	<10.0	10.0	09/26/2025	ND					

Surrogate: 1-Chlorooctane 101 % 52.4-130

Surrogate: 1-Chlorooctadecane 94.7 % 39.9-141

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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  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 09/25/2025  
 Reported: 10/01/2025  
 Project Name: IGLOO 19 24 STATE FEDERAL COM #01!  
 Project Number: 22882  
 Project Location: 3R OPERATING 32.555693-103.495709

Sampling Date: 09/25/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: FL 16 @ 5' (H256027-16)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/26/2025	ND	2.06	103	2.00	6.93		
Toluene*	<0.050	0.050	09/26/2025	ND	2.09	105	2.00	7.24		
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	2.08	104	2.00	7.15		
Total Xylenes*	<0.150	0.150	09/26/2025	ND	6.37	106	6.00	6.49		
Total BTX	<0.300	0.300	09/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/26/2025	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	09/26/2025	ND	210	105	200	2.01	
DRO >C10-C28*	<10.0	10.0	09/26/2025	ND	200	100	200	2.88	
EXT DRO >C28-C36	<10.0	10.0	09/26/2025	ND					

Surrogate: 1-Chlorooctane 76.7 % 52.4-130

Surrogate: 1-Chlorooctadecane 70.6 % 39.9-141

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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  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 09/25/2025  
 Reported: 10/01/2025  
 Project Name: IGLOO 19 24 STATE FEDERAL COM #01!  
 Project Number: 22882  
 Project Location: 3R OPERATING 32.555693-103.495709

Sampling Date: 09/25/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: FL 17 @ 4' (H256027-17)**

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	09/26/2025	ND	2.06	103	2.00	6.93		
Toluene*	<0.050	0.050	09/26/2025	ND	2.09	105	2.00	7.24		
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	2.08	104	2.00	7.15		
Total Xylenes*	<0.150	0.150	09/26/2025	ND	6.37	106	6.00	6.49		
Total BTEx	<0.300	0.300	09/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/26/2025	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	09/26/2025	ND	210	105	200	2.01	
DRO >C10-C28*	<10.0	10.0	09/26/2025	ND	200	100	200	2.88	
EXT DRO >C28-C36	<10.0	10.0	09/26/2025	ND					

Surrogate: 1-Chlorooctane 96.9 % 52.4-130

Surrogate: 1-Chlorooctadecane 90.3 % 39.9-141

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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  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	09/25/2025	Sampling Date:	09/25/2025
Reported:	10/01/2025	Sampling Type:	Soil
Project Name:	IGLOO 19 24 STATE FEDERAL COM #01!	Sampling Condition:	Cool & Intact
Project Number:	22882	Sample Received By:	Alyssa Parras
Project Location:	3R OPERATING 32.555693-103.495709		

**Sample ID: FL 18 @ 2' (H256027-18)**

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	09/26/2025	ND	2.06	103	2.00	6.93		
Toluene*	<0.050	0.050	09/26/2025	ND	2.09	105	2.00	7.24		
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	2.08	104	2.00	7.15		
Total Xylenes*	<0.150	0.150	09/26/2025	ND	6.37	106	6.00	6.49		
Total BTEX	<0.300	0.300	09/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/26/2025	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	09/26/2025	ND	210	105	200	2.01	
DRO >C10-C28*	<10.0	10.0	09/26/2025	ND	200	100	200	2.88	
EXT DRO >C28-C36	<10.0	10.0	09/26/2025	ND					

Surrogate: 1-Chlorooctane 88.1 % 52.4-130

Surrogate: 1-Chlorooctadecane 83.4 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 09/25/2025  
 Reported: 10/01/2025  
 Project Name: IGLOO 19 24 STATE FEDERAL COM #01!  
 Project Number: 22882  
 Project Location: 3R OPERATING 32.555693-103.495709

Sampling Date: 09/25/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: FL 19 @ 2' (H256027-19)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/26/2025	ND	2.06	103	2.00	6.93		
Toluene*	<0.050	0.050	09/26/2025	ND	2.09	105	2.00	7.24		
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	2.08	104	2.00	7.15		
Total Xylenes*	<0.150	0.150	09/26/2025	ND	6.37	106	6.00	6.49		
Total BTX	<0.300	0.300	09/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/26/2025	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	09/26/2025	ND	210	105	200	2.01	
DRO >C10-C28*	<10.0	10.0	09/26/2025	ND	200	100	200	2.88	
EXT DRO >C28-C36	<10.0	10.0	09/26/2025	ND					

Surrogate: 1-Chlorooctane 83.6 % 52.4-130

Surrogate: 1-Chlorooctadecane 82.6 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 09/25/2025  
 Reported: 10/01/2025  
 Project Name: IGLOO 19 24 STATE FEDERAL COM #01!  
 Project Number: 22882  
 Project Location: 3R OPERATING 32.555693-103.495709

Sampling Date: 09/25/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: FL 20 @ 2' (H256027-20)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/26/2025	ND	2.06	103	2.00	6.93		
Toluene*	<0.050	0.050	09/26/2025	ND	2.09	105	2.00	7.24		
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	2.08	104	2.00	7.15		
Total Xylenes*	<0.150	0.150	09/26/2025	ND	6.37	106	6.00	6.49		
Total BTEx	<0.300	0.300	09/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	09/26/2025	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	09/26/2025	ND	210	105	200	2.01	
DRO >C10-C28*	<10.0	10.0	09/26/2025	ND	200	100	200	2.88	
EXT DRO >C28-C36	<10.0	10.0	09/26/2025	ND					

Surrogate: 1-Chlorooctane 94.6 % 52.4-130

Surrogate: 1-Chlorooctadecane 88.7 % 39.9-141

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**Analytical Results For:**

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

Received: 09/25/2025  
 Reported: 10/01/2025  
 Project Name: IGLOO 19 24 STATE FEDERAL COM #01!  
 Project Number: 22882  
 Project Location: 3R OPERATING 32.555693-103.495709

Sampling Date: 09/25/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: FL 21 @ 2' (H256027-21)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/26/2025	ND	2.06	103	2.00	6.93		
Toluene*	<0.050	0.050	09/26/2025	ND	2.09	105	2.00	7.24		
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	2.08	104	2.00	7.15		
Total Xylenes*	<0.150	0.150	09/26/2025	ND	6.37	106	6.00	6.49		
Total BTEx	<0.300	0.300	09/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/26/2025	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	09/26/2025	ND	210	105	200	2.01	
DRO >C10-C28*	<10.0	10.0	09/26/2025	ND	200	100	200	2.88	
EXT DRO >C28-C36	<10.0	10.0	09/26/2025	ND					

Surrogate: 1-Chlorooctane 99.5 % 52.4-130

Surrogate: 1-Chlorooctadecane 93.5 % 39.9-141

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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  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 09/25/2025  
 Reported: 10/01/2025  
 Project Name: IGLOO 19 24 STATE FEDERAL COM #01!  
 Project Number: 22882  
 Project Location: 3R OPERATING 32.555693-103.495709

Sampling Date: 09/25/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: FL 22 @ 2' (H256027-22)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/26/2025	ND	2.06	103	2.00	6.93		
Toluene*	<0.050	0.050	09/26/2025	ND	2.09	105	2.00	7.24		
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	2.08	104	2.00	7.15		
Total Xylenes*	<0.150	0.150	09/26/2025	ND	6.37	106	6.00	6.49		
Total BTEx	<0.300	0.300	09/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/26/2025	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	09/26/2025	ND	210	105	200	2.01	
DRO >C10-C28*	<10.0	10.0	09/26/2025	ND	200	100	200	2.88	
EXT DRO >C28-C36	<10.0	10.0	09/26/2025	ND					

Surrogate: 1-Chlorooctane 96.0 % 52.4-130

Surrogate: 1-Chlorooctadecane 90.1 % 39.9-141

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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  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	09/25/2025	Sampling Date:	09/25/2025
Reported:	10/01/2025	Sampling Type:	Soil
Project Name:	IGLOO 19 24 STATE FEDERAL COM #01!	Sampling Condition:	Cool & Intact
Project Number:	22882	Sample Received By:	Alyssa Parras
Project Location:	3R OPERATING 32.555693-103.495709		

**Sample ID: FL 23 @ 2' (H256027-23)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/26/2025	ND	2.06	103	2.00	6.93		
Toluene*	<0.050	0.050	09/26/2025	ND	2.09	105	2.00	7.24		
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	2.08	104	2.00	7.15		
Total Xylenes*	<0.150	0.150	09/26/2025	ND	6.37	106	6.00	6.49		
Total BTEx	<0.300	0.300	09/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/26/2025	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	09/26/2025	ND	210	105	200	2.01	
DRO >C10-C28*	<10.0	10.0	09/26/2025	ND	200	100	200	2.88	
EXT DRO >C28-C36	<10.0	10.0	09/26/2025	ND					

Surrogate: 1-Chlorooctane 98.4 % 52.4-130

Surrogate: 1-Chlorooctadecane 95.3 % 39.9-141

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**Analytical Results For:**

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

Received: 09/25/2025  
 Reported: 10/01/2025  
 Project Name: IGLOO 19 24 STATE FEDERAL COM #01!  
 Project Number: 22882  
 Project Location: 3R OPERATING 32.555693-103.495709

Sampling Date: 09/25/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: FL 24 @ 2' (H256027-24)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/26/2025	ND	2.06	103	2.00	6.93		
Toluene*	<0.050	0.050	09/26/2025	ND	2.09	105	2.00	7.24		
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	2.08	104	2.00	7.15		
Total Xylenes*	<0.150	0.150	09/26/2025	ND	6.37	106	6.00	6.49		
Total BTX	<0.300	0.300	09/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/26/2025	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	09/26/2025	ND	210	105	200	2.01	
DRO >C10-C28*	<10.0	10.0	09/26/2025	ND	200	100	200	2.88	
EXT DRO >C28-C36	<10.0	10.0	09/26/2025	ND					

Surrogate: 1-Chlorooctane 98.9 % 52.4-130

Surrogate: 1-Chlorooctadecane 92.9 % 39.9-141

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 09/25/2025  
 Reported: 10/01/2025  
 Project Name: IGLOO 19 24 STATE FEDERAL COM #01!  
 Project Number: 22882  
 Project Location: 3R OPERATING 32.555693-103.495709

Sampling Date: 09/25/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: FL 25 @ 2' (H256027-25)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/26/2025	ND	2.06	103	2.00	6.93		
Toluene*	<0.050	0.050	09/26/2025	ND	2.09	105	2.00	7.24		
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	2.08	104	2.00	7.15		
Total Xylenes*	<0.150	0.150	09/26/2025	ND	6.37	106	6.00	6.49		
Total BTX	<0.300	0.300	09/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/26/2025	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	09/26/2025	ND	210	105	200	2.01	
DRO >C10-C28*	<10.0	10.0	09/26/2025	ND	200	100	200	2.88	
EXT DRO >C28-C36	<10.0	10.0	09/26/2025	ND					

Surrogate: 1-Chlorooctane 101 % 52.4-130

Surrogate: 1-Chlorooctadecane 96.1 % 39.9-141

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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  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	09/25/2025	Sampling Date:	09/25/2025
Reported:	10/01/2025	Sampling Type:	Soil
Project Name:	IGLOO 19 24 STATE FEDERAL COM #01!	Sampling Condition:	Cool & Intact
Project Number:	22882	Sample Received By:	Alyssa Parras
Project Location:	3R OPERATING 32.555693-103.495709		

**Sample ID: NW 1 (H256027-26)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/26/2025	ND	2.06	103	2.00	6.93		
Toluene*	<0.050	0.050	09/26/2025	ND	2.09	105	2.00	7.24		
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	2.08	104	2.00	7.15		
Total Xylenes*	<0.150	0.150	09/26/2025	ND	6.37	106	6.00	6.49		
Total BTEX	<0.300	0.300	09/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	09/26/2025	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	09/26/2025	ND	210	105	200	2.01	
DRO >C10-C28*	<10.0	10.0	09/26/2025	ND	200	100	200	2.88	
EXT DRO >C28-C36	<10.0	10.0	09/26/2025	ND					

Surrogate: 1-Chlorooctane 101 % 52.4-130

Surrogate: 1-Chlorooctadecane 94.0 % 39.9-141

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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  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	09/25/2025	Sampling Date:	09/25/2025
Reported:	10/01/2025	Sampling Type:	Soil
Project Name:	IGLOO 19 24 STATE FEDERAL COM #01!	Sampling Condition:	Cool & Intact
Project Number:	22882	Sample Received By:	Alyssa Parras
Project Location:	3R OPERATING 32.555693-103.495709		

**Sample ID: NW 2 (H256027-27)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/26/2025	ND	2.06	103	2.00	6.93		
Toluene*	<0.050	0.050	09/26/2025	ND	2.09	105	2.00	7.24		
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	2.08	104	2.00	7.15		
Total Xylenes*	<0.150	0.150	09/26/2025	ND	6.37	106	6.00	6.49		
Total BTEX	<0.300	0.300	09/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/26/2025	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	09/26/2025	ND	210	105	200	2.01	
DRO >C10-C28*	<10.0	10.0	09/26/2025	ND	200	100	200	2.88	
EXT DRO >C28-C36	<10.0	10.0	09/26/2025	ND					

Surrogate: 1-Chlorooctane 101 % 52.4-130

Surrogate: 1-Chlorooctadecane 94.5 % 39.9-141

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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  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	09/25/2025	Sampling Date:	09/25/2025
Reported:	10/01/2025	Sampling Type:	Soil
Project Name:	IGLOO 19 24 STATE FEDERAL COM #01!	Sampling Condition:	Cool & Intact
Project Number:	22882	Sample Received By:	Alyssa Parras
Project Location:	3R OPERATING 32.555693-103.495709		

**Sample ID: NW 3 (H256027-28)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/26/2025	ND	2.06	103	2.00	6.93	
Toluene*	<0.050	0.050	09/26/2025	ND	2.09	105	2.00	7.24	
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	2.08	104	2.00	7.15	
Total Xylenes*	<0.150	0.150	09/26/2025	ND	6.37	106	6.00	6.49	
Total BTX	<0.300	0.300	09/26/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	09/26/2025	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	09/26/2025	ND	182	90.8	200	2.04	
DRO >C10-C28*	<10.0	10.0	09/26/2025	ND	190	95.1	200	3.47	
EXT DRO >C28-C36	<10.0	10.0	09/26/2025	ND					

Surrogate: 1-Chlorooctane 75.2 % 52.4-130

Surrogate: 1-Chlorooctadecane 77.0 % 39.9-141

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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  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 09/25/2025  
 Reported: 10/01/2025  
 Project Name: IGLOO 19 24 STATE FEDERAL COM #01!  
 Project Number: 22882  
 Project Location: 3R OPERATING 32.555693-103.495709

Sampling Date: 09/25/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: NW 4 (H256027-29)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/26/2025	ND	2.06	103	2.00	6.93	
Toluene*	<0.050	0.050	09/26/2025	ND	2.09	105	2.00	7.24	
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	2.08	104	2.00	7.15	
Total Xylenes*	<0.150	0.150	09/26/2025	ND	6.37	106	6.00	6.49	
Total BTEx	<0.300	0.300	09/26/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/26/2025	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	09/26/2025	ND	182	90.8	200	2.04	
DRO >C10-C28*	<10.0	10.0	09/26/2025	ND	190	95.1	200	3.47	
EXT DRO >C28-C36	<10.0	10.0	09/26/2025	ND					

Surrogate: 1-Chlorooctane 83.6 % 52.4-130

Surrogate: 1-Chlorooctadecane 85.9 % 39.9-141

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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  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	09/25/2025	Sampling Date:	09/25/2025
Reported:	10/01/2025	Sampling Type:	Soil
Project Name:	IGLOO 19 24 STATE FEDERAL COM #01!	Sampling Condition:	Cool & Intact
Project Number:	22882	Sample Received By:	Alyssa Parras
Project Location:	3R OPERATING 32.555693-103.495709		

**Sample ID: NW 5 (H256027-30)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/26/2025	ND	2.06	103	2.00	6.93		
Toluene*	<0.050	0.050	09/26/2025	ND	2.09	105	2.00	7.24		
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	2.08	104	2.00	7.15		
Total Xylenes*	<0.150	0.150	09/26/2025	ND	6.37	106	6.00	6.49		
Total BTEx	<0.300	0.300	09/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/26/2025	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	09/26/2025	ND	182	90.8	200	2.04	
DRO >C10-C28*	<10.0	10.0	09/26/2025	ND	190	95.1	200	3.47	
EXT DRO >C28-C36	<10.0	10.0	09/26/2025	ND					

Surrogate: 1-Chlorooctane 78.1 % 52.4-130

Surrogate: 1-Chlorooctadecane 78.4 % 39.9-141

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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  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 09/25/2025  
 Reported: 10/01/2025  
 Project Name: IGLOO 19 24 STATE FEDERAL COM #01!  
 Project Number: 22882  
 Project Location: 3R OPERATING 32.555693-103.495709

Sampling Date: 09/25/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: NW 6 (H256027-31)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/26/2025	ND	2.34	117	2.00	3.42		
Toluene*	<0.050	0.050	09/26/2025	ND	2.15	108	2.00	3.93		
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	2.14	107	2.00	2.69		
Total Xylenes*	<0.150	0.150	09/26/2025	ND	6.48	108	6.00	4.14		
Total BTEx	<0.300	0.300	09/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.3 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	09/26/2025	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	09/26/2025	ND	182	90.8	200	2.04	
DRO >C10-C28*	<10.0	10.0	09/26/2025	ND	190	95.1	200	3.47	
EXT DRO >C28-C36	<10.0	10.0	09/26/2025	ND					

Surrogate: 1-Chlorooctane 85.4 % 52.4-130

Surrogate: 1-Chlorooctadecane 87.4 % 39.9-141

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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  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 09/25/2025  
 Reported: 10/01/2025  
 Project Name: IGLOO 19 24 STATE FEDERAL COM #01!  
 Project Number: 22882  
 Project Location: 3R OPERATING 32.555693-103.495709

Sampling Date: 09/25/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: EW 1 (H256027-32)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/26/2025	ND	2.34	117	2.00	3.42		
Toluene*	<0.050	0.050	09/26/2025	ND	2.15	108	2.00	3.93		
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	2.14	107	2.00	2.69		
Total Xylenes*	<0.150	0.150	09/26/2025	ND	6.48	108	6.00	4.14		
Total BTEx	<0.300	0.300	09/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 89.9 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	09/26/2025	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	09/26/2025	ND	182	90.8	200	2.04	
DRO >C10-C28*	<10.0	10.0	09/26/2025	ND	190	95.1	200	3.47	
EXT DRO >C28-C36	<10.0	10.0	09/26/2025	ND					

Surrogate: 1-Chlorooctane 84.3 % 52.4-130

Surrogate: 1-Chlorooctadecane 86.1 % 39.9-141

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 09/25/2025  
 Reported: 10/01/2025  
 Project Name: IGLOO 19 24 STATE FEDERAL COM #01!  
 Project Number: 22882  
 Project Location: 3R OPERATING 32.555693-103.495709

Sampling Date: 09/25/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: EW 2 (H256027-33)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/26/2025	ND	2.34	117	2.00	3.42		
Toluene*	<0.050	0.050	09/26/2025	ND	2.15	108	2.00	3.93		
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	2.14	107	2.00	2.69		
Total Xylenes*	<0.150	0.150	09/26/2025	ND	6.48	108	6.00	4.14		
Total BTEx	<0.300	0.300	09/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.4 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/26/2025	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	09/26/2025	ND	182	90.8	200	2.04	
DRO >C10-C28*	<10.0	10.0	09/26/2025	ND	190	95.1	200	3.47	
EXT DRO >C28-C36	<10.0	10.0	09/26/2025	ND					

Surrogate: 1-Chlorooctane 78.2 % 52.4-130

Surrogate: 1-Chlorooctadecane 84.4 % 39.9-141

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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  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	09/25/2025	Sampling Date:	09/25/2025
Reported:	10/01/2025	Sampling Type:	Soil
Project Name:	IGLOO 19 24 STATE FEDERAL COM #01!	Sampling Condition:	Cool & Intact
Project Number:	22882	Sample Received By:	Alyssa Parras
Project Location:	3R OPERATING 32.555693-103.495709		

**Sample ID: SW 1 (H256027-34)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/26/2025	ND	2.34	117	2.00	3.42		
Toluene*	<0.050	0.050	09/26/2025	ND	2.15	108	2.00	3.93		
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	2.14	107	2.00	2.69		
Total Xylenes*	<0.150	0.150	09/26/2025	ND	6.48	108	6.00	4.14		
Total BTEX	<0.300	0.300	09/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.5 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/26/2025	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	09/26/2025	ND	182	90.8	200	2.04		
DRO >C10-C28*	<10.0	10.0	09/26/2025	ND	190	95.1	200	3.47		
EXT DRO >C28-C36	<10.0	10.0	09/26/2025	ND						

Surrogate: 1-Chlorooctane 85.8 % 52.4-130

Surrogate: 1-Chlorooctadecane 87.3 % 39.9-141

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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  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 09/25/2025  
 Reported: 10/01/2025  
 Project Name: IGLOO 19 24 STATE FEDERAL COM #01!  
 Project Number: 22882  
 Project Location: 3R OPERATING 32.555693-103.495709

Sampling Date: 09/25/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SW 2 (H256027-35)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/26/2025	ND	2.34	117	2.00	3.42		
Toluene*	<0.050	0.050	09/26/2025	ND	2.15	108	2.00	3.93		
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	2.14	107	2.00	2.69		
Total Xylenes*	<0.150	0.150	09/26/2025	ND	6.48	108	6.00	4.14		
Total BTEX	<0.300	0.300	09/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.3 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	09/26/2025	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	09/26/2025	ND	182	90.8	200	2.04	
DRO >C10-C28*	<10.0	10.0	09/26/2025	ND	190	95.1	200	3.47	
EXT DRO >C28-C36	<10.0	10.0	09/26/2025	ND					

Surrogate: 1-Chlorooctane 80.7 % 52.4-130

Surrogate: 1-Chlorooctadecane 82.7 % 39.9-141

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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  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 09/25/2025  
 Reported: 10/01/2025  
 Project Name: IGLOO 19 24 STATE FEDERAL COM #01!  
 Project Number: 22882  
 Project Location: 3R OPERATING 32.555693-103.495709

Sampling Date: 09/25/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SW 3 (H256027-36)**

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	09/26/2025	ND	2.34	117	2.00	3.42		
Toluene*	<0.050	0.050	09/26/2025	ND	2.15	108	2.00	3.93		
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	2.14	107	2.00	2.69		
Total Xylenes*	<0.150	0.150	09/26/2025	ND	6.48	108	6.00	4.14		
Total BTEX	<0.300	0.300	09/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 90.9 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/26/2025	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	09/26/2025	ND	182	90.8	200	2.04	
DRO >C10-C28*	<10.0	10.0	09/26/2025	ND	190	95.1	200	3.47	
EXT DRO >C28-C36	<10.0	10.0	09/26/2025	ND					

Surrogate: 1-Chlorooctane 87.7 % 52.4-130

Surrogate: 1-Chlorooctadecane 89.3 % 39.9-141

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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  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	09/25/2025	Sampling Date:	09/25/2025
Reported:	10/01/2025	Sampling Type:	Soil
Project Name:	IGLOO 19 24 STATE FEDERAL COM #01!	Sampling Condition:	Cool & Intact
Project Number:	22882	Sample Received By:	Alyssa Parras
Project Location:	3R OPERATING 32.555693-103.495709		

**Sample ID: SW 4 (H256027-37)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/26/2025	ND	2.34	117	2.00	3.42		
Toluene*	<0.050	0.050	09/26/2025	ND	2.15	108	2.00	3.93		
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	2.14	107	2.00	2.69		
Total Xylenes*	<0.150	0.150	09/26/2025	ND	6.48	108	6.00	4.14		
Total BTEx	<0.300	0.300	09/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.3 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	09/26/2025	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	09/26/2025	ND	182	90.8	200	2.04	
DRO >C10-C28*	<10.0	10.0	09/26/2025	ND	190	95.1	200	3.47	
EXT DRO >C28-C36	<10.0	10.0	09/26/2025	ND					

Surrogate: 1-Chlorooctane 79.6 % 52.4-130

Surrogate: 1-Chlorooctadecane 80.9 % 39.9-141

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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  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	09/25/2025	Sampling Date:	09/25/2025
Reported:	10/01/2025	Sampling Type:	Soil
Project Name:	IGLOO 19 24 STATE FEDERAL COM #01!	Sampling Condition:	Cool & Intact
Project Number:	22882	Sample Received By:	Alyssa Parras
Project Location:	3R OPERATING 32.555693-103.495709		

**Sample ID: SW 5 (H256027-38)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/26/2025	ND	2.34	117	2.00	3.42		
Toluene*	<0.050	0.050	09/26/2025	ND	2.15	108	2.00	3.93		
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	2.14	107	2.00	2.69		
Total Xylenes*	<0.150	0.150	09/26/2025	ND	6.48	108	6.00	4.14		
Total BTEx	<0.300	0.300	09/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 90.3 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/26/2025	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	09/26/2025	ND	182	90.8	200	2.04	
DRO >C10-C28*	<10.0	10.0	09/26/2025	ND	190	95.1	200	3.47	
EXT DRO >C28-C36	<10.0	10.0	09/26/2025	ND					

Surrogate: 1-Chlorooctane 72.7 % 52.4-130

Surrogate: 1-Chlorooctadecane 71.8 % 39.9-141

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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  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	09/25/2025	Sampling Date:	09/25/2025
Reported:	10/01/2025	Sampling Type:	Soil
Project Name:	IGLOO 19 24 STATE FEDERAL COM #01!	Sampling Condition:	Cool & Intact
Project Number:	22882	Sample Received By:	Alyssa Parras
Project Location:	3R OPERATING 32.555693-103.495709		

**Sample ID: SW 6 (H256027-39)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/26/2025	ND	2.34	117	2.00	3.42		
Toluene*	<0.050	0.050	09/26/2025	ND	2.15	108	2.00	3.93		
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	2.14	107	2.00	2.69		
Total Xylenes*	<0.150	0.150	09/26/2025	ND	6.48	108	6.00	4.14		
Total BTEX	<0.300	0.300	09/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.0 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/26/2025	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	09/26/2025	ND	182	90.8	200	2.04	
DRO >C10-C28*	<10.0	10.0	09/26/2025	ND	190	95.1	200	3.47	
EXT DRO >C28-C36	<10.0	10.0	09/26/2025	ND					

Surrogate: 1-Chlorooctane 80.8 % 52.4-130

Surrogate: 1-Chlorooctadecane 83.1 % 39.9-141

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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  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	09/25/2025	Sampling Date:	09/25/2025
Reported:	10/01/2025	Sampling Type:	Soil
Project Name:	IGLOO 19 24 STATE FEDERAL COM #01!	Sampling Condition:	Cool & Intact
Project Number:	22882	Sample Received By:	Alyssa Parras
Project Location:	3R OPERATING 32.555693-103.495709		

**Sample ID: WW 1 (H256027-40)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/26/2025	ND	2.34	117	2.00	3.42		
Toluene*	<0.050	0.050	09/26/2025	ND	2.15	108	2.00	3.93		
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	2.14	107	2.00	2.69		
Total Xylenes*	<0.150	0.150	09/26/2025	ND	6.48	108	6.00	4.14		
Total BTEX	<0.300	0.300	09/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.4 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	09/26/2025	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	09/26/2025	ND	182	90.8	200	2.04		
DRO >C10-C28*	11.0	10.0	09/26/2025	ND	190	95.1	200	3.47		
EXT DRO >C28-C36	<10.0	10.0	09/26/2025	ND						

Surrogate: 1-Chlorooctane 80.0 % 52.4-130

Surrogate: 1-Chlorooctadecane 82.7 % 39.9-141

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	09/25/2025	Sampling Date:	09/25/2025
Reported:	10/01/2025	Sampling Type:	Soil
Project Name:	IGLOO 19 24 STATE FEDERAL COM #01!	Sampling Condition:	Cool & Intact
Project Number:	22882	Sample Received By:	Alyssa Parras
Project Location:	3R OPERATING 32.555693-103.495709		

**Sample ID: WW 2 (H256027-41)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/26/2025	ND	2.34	117	2.00	3.42		
Toluene*	<0.050	0.050	09/26/2025	ND	2.15	108	2.00	3.93		
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	2.14	107	2.00	2.69		
Total Xylenes*	<0.150	0.150	09/26/2025	ND	6.48	108	6.00	4.14		
Total BTEX	<0.300	0.300	09/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.4 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/26/2025	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	09/26/2025	ND	182	90.8	200	2.04	
DRO >C10-C28*	<10.0	10.0	09/26/2025	ND	190	95.1	200	3.47	
EXT DRO >C28-C36	<10.0	10.0	09/26/2025	ND					

Surrogate: 1-Chlorooctane 76.7 % 52.4-130

Surrogate: 1-Chlorooctadecane 78.4 % 39.9-141

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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  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 09/25/2025  
 Reported: 10/01/2025  
 Project Name: IGLOO 19 24 STATE FEDERAL COM #01!  
 Project Number: 22882  
 Project Location: 3R OPERATING 32.555693-103.495709

Sampling Date: 09/25/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: WW 3 (H256027-42)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/26/2025	ND	2.34	117	2.00	3.42		
Toluene*	<0.050	0.050	09/26/2025	ND	2.15	108	2.00	3.93		
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	2.14	107	2.00	2.69		
Total Xylenes*	<0.150	0.150	09/26/2025	ND	6.48	108	6.00	4.14		
Total BTEX	<0.300	0.300	09/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.3 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	09/26/2025	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	09/26/2025	ND	182	90.8	200	2.04	
DRO >C10-C28*	<10.0	10.0	09/26/2025	ND	190	95.1	200	3.47	
EXT DRO >C28-C36	<10.0	10.0	09/26/2025	ND					

Surrogate: 1-Chlorooctane 85.3 % 52.4-130

Surrogate: 1-Chlorooctadecane 86.7 % 39.9-141

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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  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 09/25/2025  
 Reported: 10/01/2025  
 Project Name: IGLOO 19 24 STATE FEDERAL COM #01!  
 Project Number: 22882  
 Project Location: 3R OPERATING 32.555693-103.495709

Sampling Date: 09/25/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: WW 4 (H256027-43)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/26/2025	ND	2.34	117	2.00	3.42		
Toluene*	<0.050	0.050	09/26/2025	ND	2.15	108	2.00	3.93		
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	2.14	107	2.00	2.69		
Total Xylenes*	<0.150	0.150	09/26/2025	ND	6.48	108	6.00	4.14		
Total BTEx	<0.300	0.300	09/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.1 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	09/26/2025	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	09/26/2025	ND	182	90.8	200	2.04	
DRO >C10-C28*	<10.0	10.0	09/26/2025	ND	190	95.1	200	3.47	
EXT DRO >C28-C36	<10.0	10.0	09/26/2025	ND					

Surrogate: 1-Chlorooctane 81.4 % 52.4-130

Surrogate: 1-Chlorooctadecane 81.9 % 39.9-141

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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  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 09/25/2025  
 Reported: 10/01/2025  
 Project Name: IGLOO 19 24 STATE FEDERAL COM #01!  
 Project Number: 22882  
 Project Location: 3R OPERATING 32.555693-103.495709

Sampling Date: 09/25/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: WW 5 (H256027-44)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/26/2025	ND	2.34	117	2.00	3.42		
Toluene*	<0.050	0.050	09/26/2025	ND	2.15	108	2.00	3.93		
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	2.14	107	2.00	2.69		
Total Xylenes*	<0.150	0.150	09/26/2025	ND	6.48	108	6.00	4.14		
Total BTEx	<0.300	0.300	09/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 90.2 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/26/2025	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	09/26/2025	ND	182	90.8	200	2.04	
DRO >C10-C28*	<10.0	10.0	09/26/2025	ND	190	95.1	200	3.47	
EXT DRO >C28-C36	<10.0	10.0	09/26/2025	ND					

Surrogate: 1-Chlorooctane 73.5 % 52.4-130

Surrogate: 1-Chlorooctadecane 75.2 % 39.9-141

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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  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	09/25/2025	Sampling Date:	09/25/2025
Reported:	10/01/2025	Sampling Type:	Soil
Project Name:	IGLOO 19 24 STATE FEDERAL COM #01!	Sampling Condition:	Cool & Intact
Project Number:	22882	Sample Received By:	Alyssa Parras
Project Location:	3R OPERATING 32.555693-103.495709		

**Sample ID: DEF 1 @ SUR (H256027-45)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/26/2025	ND	2.34	117	2.00	3.42		
Toluene*	<0.050	0.050	09/26/2025	ND	2.15	108	2.00	3.93		
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	2.14	107	2.00	2.69		
Total Xylenes*	<0.150	0.150	09/26/2025	ND	6.48	108	6.00	4.14		
Total BTEX	<0.300	0.300	09/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.1 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	35200	16.0	09/26/2025	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	09/26/2025	ND	182	90.8	200	2.04	
DRO >C10-C28*	<10.0	10.0	09/26/2025	ND	190	95.1	200	3.47	
EXT DRO >C28-C36	<10.0	10.0	09/26/2025	ND					

Surrogate: 1-Chlorooctane 75.5 % 52.4-130

Surrogate: 1-Chlorooctadecane 77.6 % 39.9-141

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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  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	09/25/2025	Sampling Date:	09/25/2025
Reported:	10/01/2025	Sampling Type:	Soil
Project Name:	IGLOO 19 24 STATE FEDERAL COM #01!	Sampling Condition:	Cool & Intact
Project Number:	22882	Sample Received By:	Alyssa Parras
Project Location:	3R OPERATING 32.555693-103.495709		

**Sample ID: DEF 1 @ 1' (H256027-46)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/26/2025	ND	2.34	117	2.00	3.42		
Toluene*	<0.050	0.050	09/26/2025	ND	2.15	108	2.00	3.93		
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	2.14	107	2.00	2.69		
Total Xylenes*	<0.150	0.150	09/26/2025	ND	6.48	108	6.00	4.14		
Total BTX	<0.300	0.300	09/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5920	16.0	09/26/2025	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	09/26/2025	ND	182	90.8	200	2.04	
DRO >C10-C28*	195	10.0	09/26/2025	ND	190	95.1	200	3.47	
EXT DRO >C28-C36	26.6	10.0	09/26/2025	ND					

Surrogate: 1-Chlorooctane 75.7 % 52.4-130

Surrogate: 1-Chlorooctadecane 82.0 % 39.9-141

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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  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 09/25/2025  
 Reported: 10/01/2025  
 Project Name: IGLOO 19 24 STATE FEDERAL COM #01!  
 Project Number: 22882  
 Project Location: 3R OPERATING 32.555693-103.495709

Sampling Date: 09/25/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: DEF 1 @ 2' (H256027-47)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/26/2025	ND	2.34	117	2.00	3.42		
Toluene*	<0.050	0.050	09/26/2025	ND	2.15	108	2.00	3.93		
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	2.14	107	2.00	2.69		
Total Xylenes*	<0.150	0.150	09/26/2025	ND	6.48	108	6.00	4.14		
Total BTEx	<0.300	0.300	09/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.9 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	09/26/2025	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	09/26/2025	ND	182	90.8	200	2.04	
DRO >C10-C28*	<10.0	10.0	09/26/2025	ND	190	95.1	200	3.47	
EXT DRO >C28-C36	<10.0	10.0	09/26/2025	ND					

Surrogate: 1-Chlorooctane 77.3 % 52.4-130

Surrogate: 1-Chlorooctadecane 78.1 % 39.9-141

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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  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 09/25/2025  
 Reported: 10/01/2025  
 Project Name: IGLOO 19 24 STATE FEDERAL COM #01!  
 Project Number: 22882  
 Project Location: 3R OPERATING 32.555693-103.495709

Sampling Date: 09/25/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: NH 1 @ SUR (H256027-48)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/26/2025	ND	2.34	117	2.00	3.42		
Toluene*	<0.050	0.050	09/26/2025	ND	2.15	108	2.00	3.93		
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	2.14	107	2.00	2.69		
Total Xylenes*	<0.150	0.150	09/26/2025	ND	6.48	108	6.00	4.14		
Total BTEX	<0.300	0.300	09/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.6 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	09/26/2025	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	09/26/2025	ND	184	91.8	200	3.44	
DRO >C10-C28*	<10.0	10.0	09/26/2025	ND	180	90.0	200	5.31	
EXT DRO >C28-C36	<10.0	10.0	09/26/2025	ND					

Surrogate: 1-Chlorooctane 82.8 % 52.4-130

Surrogate: 1-Chlorooctadecane 82.9 % 39.9-141

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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  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 09/25/2025  
 Reported: 10/01/2025  
 Project Name: IGLOO 19 24 STATE FEDERAL COM #01!  
 Project Number: 22882  
 Project Location: 3R OPERATING 32.555693-103.495709

Sampling Date: 09/25/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: NH 1 @ 1' (H256027-49)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/26/2025	ND	2.34	117	2.00	3.42		
Toluene*	<0.050	0.050	09/26/2025	ND	2.15	108	2.00	3.93		
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	2.14	107	2.00	2.69		
Total Xylenes*	<0.150	0.150	09/26/2025	ND	6.48	108	6.00	4.14		
Total BTEx	<0.300	0.300	09/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.7 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	09/26/2025	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	09/26/2025	ND	184	91.8	200	3.44	
DRO >C10-C28*	<10.0	10.0	09/26/2025	ND	180	90.0	200	5.31	
EXT DRO >C28-C36	<10.0	10.0	09/26/2025	ND					

Surrogate: 1-Chlorooctane 85.0 % 52.4-130

Surrogate: 1-Chlorooctadecane 85.4 % 39.9-141

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 09/25/2025  
 Reported: 10/01/2025  
 Project Name: IGLOO 19 24 STATE FEDERAL COM #01!  
 Project Number: 22882  
 Project Location: 3R OPERATING 32.555693-103.495709

Sampling Date: 09/25/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: EH 1 @ SUR (H256027-50)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/26/2025	ND	2.34	117	2.00	3.42		
Toluene*	<0.050	0.050	09/26/2025	ND	2.15	108	2.00	3.93		
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	2.14	107	2.00	2.69		
Total Xylenes*	<0.150	0.150	09/26/2025	ND	6.48	108	6.00	4.14		
Total BTEx	<0.300	0.300	09/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.9 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	09/26/2025	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	09/26/2025	ND	184	91.8	200	3.44	
DRO >C10-C28*	<10.0	10.0	09/26/2025	ND	180	90.0	200	5.31	
EXT DRO >C28-C36	<10.0	10.0	09/26/2025	ND					

Surrogate: 1-Chlorooctane 81.6 % 52.4-130

Surrogate: 1-Chlorooctadecane 83.7 % 39.9-141

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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  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 09/25/2025  
 Reported: 10/01/2025  
 Project Name: IGLOO 19 24 STATE FEDERAL COM #01!  
 Project Number: 22882  
 Project Location: 3R OPERATING 32.555693-103.495709

Sampling Date: 09/25/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: EH 1 @ 1' (H256027-51)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/26/2025	ND	1.98	98.8	2.00	2.38		
Toluene*	<0.050	0.050	09/26/2025	ND	2.05	102	2.00	1.33		
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	2.14	107	2.00	0.415		
Total Xylenes*	<0.150	0.150	09/26/2025	ND	6.16	103	6.00	0.0727		
Total BTX	<0.300	0.300	09/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/26/2025	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	09/26/2025	ND	184	91.8	200	3.44	
DRO >C10-C28*	<10.0	10.0	09/26/2025	ND	180	90.0	200	5.31	
EXT DRO >C28-C36	<10.0	10.0	09/26/2025	ND					

Surrogate: 1-Chlorooctane 84.4 % 52.4-130

Surrogate: 1-Chlorooctadecane 85.1 % 39.9-141

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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  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 09/25/2025  
 Reported: 10/01/2025  
 Project Name: IGLOO 19 24 STATE FEDERAL COM #01!  
 Project Number: 22882  
 Project Location: 3R OPERATING 32.555693-103.495709

Sampling Date: 09/25/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SH 1 @ SUR (H256027-52)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/26/2025	ND	1.98	98.8	2.00	2.38		
Toluene*	<0.050	0.050	09/26/2025	ND	2.05	102	2.00	1.33		
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	2.14	107	2.00	0.415		
Total Xylenes*	<0.150	0.150	09/26/2025	ND	6.16	103	6.00	0.0727		
Total BTEx	<0.300	0.300	09/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/26/2025	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	09/26/2025	ND	184	91.8	200	3.44	
DRO >C10-C28*	<10.0	10.0	09/26/2025	ND	180	90.0	200	5.31	
EXT DRO >C28-C36	<10.0	10.0	09/26/2025	ND					

Surrogate: 1-Chlorooctane 80.5 % 52.4-130

Surrogate: 1-Chlorooctadecane 81.0 % 39.9-141

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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  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	09/25/2025	Sampling Date:	09/25/2025
Reported:	10/01/2025	Sampling Type:	Soil
Project Name:	IGLOO 19 24 STATE FEDERAL COM #01!	Sampling Condition:	Cool & Intact
Project Number:	22882	Sample Received By:	Alyssa Parras
Project Location:	3R OPERATING 32.555693-103.495709		

**Sample ID: SH 1 @ 1' (H256027-53)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/26/2025	ND	1.98	98.8	2.00	2.38		
Toluene*	<0.050	0.050	09/26/2025	ND	2.05	102	2.00	1.33		
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	2.14	107	2.00	0.415		
Total Xylenes*	<0.150	0.150	09/26/2025	ND	6.16	103	6.00	0.0727		
Total BTEX	<0.300	0.300	09/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/26/2025	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	09/26/2025	ND	184	91.8	200	3.44	
DRO >C10-C28*	<10.0	10.0	09/26/2025	ND	180	90.0	200	5.31	
EXT DRO >C28-C36	<10.0	10.0	09/26/2025	ND					

Surrogate: 1-Chlorooctane 78.7 % 52.4-130

Surrogate: 1-Chlorooctadecane 78.6 % 39.9-141

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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  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	09/25/2025	Sampling Date:	09/25/2025
Reported:	10/01/2025	Sampling Type:	Soil
Project Name:	IGLOO 19 24 STATE FEDERAL COM #01!	Sampling Condition:	Cool & Intact
Project Number:	22882	Sample Received By:	Alyssa Parras
Project Location:	3R OPERATING 32.555693-103.495709		

**Sample ID: WH 1 @ SUR (H256027-54)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/26/2025	ND	1.98	98.8	2.00	2.38		
Toluene*	<0.050	0.050	09/26/2025	ND	2.05	102	2.00	1.33		
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	2.14	107	2.00	0.415		
Total Xylenes*	<0.150	0.150	09/26/2025	ND	6.16	103	6.00	0.0727		
Total BTX	<0.300	0.300	09/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/26/2025	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	09/26/2025	ND	184	91.8	200	3.44	
DRO >C10-C28*	<10.0	10.0	09/26/2025	ND	180	90.0	200	5.31	
EXT DRO >C28-C36	<10.0	10.0	09/26/2025	ND					

Surrogate: 1-Chlorooctane 83.4 % 52.4-130

Surrogate: 1-Chlorooctadecane 84.5 % 39.9-141

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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  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 09/25/2025  
 Reported: 10/01/2025  
 Project Name: IGLOO 19 24 STATE FEDERAL COM #01!  
 Project Number: 22882  
 Project Location: 3R OPERATING 32.555693-103.495709

Sampling Date: 09/25/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: WH 1 @ 1' (H256027-55)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/26/2025	ND	1.98	98.8	2.00	2.38		
Toluene*	<0.050	0.050	09/26/2025	ND	2.05	102	2.00	1.33		
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	2.14	107	2.00	0.415		
Total Xylenes*	<0.150	0.150	09/26/2025	ND	6.16	103	6.00	0.0727		
Total BTEx	<0.300	0.300	09/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/26/2025	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	09/26/2025	ND	184	91.8	200	3.44	
DRO >C10-C28*	<10.0	10.0	09/26/2025	ND	180	90.0	200	5.31	
EXT DRO >C28-C36	<10.0	10.0	09/26/2025	ND					

Surrogate: 1-Chlorooctane 76.1 % 52.4-130

Surrogate: 1-Chlorooctadecane 76.6 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- QM-13 Spike recovery for this analyte was bias high in the LCS and/or MS/MSD. Instrument blank, method blank and all sample were ND. No negative impact on data is expected.
- BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager

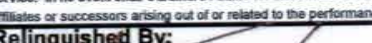

**101 East Marland, Hobbs, NM 88240**  
**(575) 393-2326 FAX (575) 393-2476**

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 6

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST													
Project Manager: Joel Lowry				P.O. #:				Chloride	TPH (8015M)	BTEX (8021B)											
Address: 2617 West Marland				Company: Etech																	
City: Hobbs State: NM Zip: 88240				Attn: Joel Lowry																	
Phone #: (575) 264-9884 Fax #:				Address:																	
Project #: 22882 Project Owner: 3R Operating, LLC				City:																	
Project Name: Igloo 19 24 State Federal Com #015H				State: Zip:																	
Project Location: 32.555693, -103.495709				Phone #:																	
Sampler Name: Dominic Casarez				Fax #:																	
FOR LAB USE ONLY				MATRIX				PRESERV.		SAMPLING											
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME							
H256027																					
1	FL 1 @ 5'	C	1			X					X		9/25/25		X	X	X				
2	FL 2 @ 5'	C	1			X					X		9/25/25		X	X	X				
3	FL 3 @ 5'	C	1			X					X		9/25/25		X	X	X				
4	FL 4 @ 5'	C	1			X					X		9/25/25		X	X	X				
5	FL 5 @ 5'	C	1			X					X		9/25/25		X	X	X				
6	FL 6 @ 5'	C	1			X					X		9/25/25		X	X	X				
7	FL 7 @ 5'	C	1			X					X		9/25/25		X	X	X				
8	FL 8 @ 5'	C	1			X					X		9/25/25		X	X	X				
9	FL 9 @ 5'	C	1			X					X		9/25/25		X	X	X				
10	FL 10 @ 5'	C	1			X					X		9/25/25		X	X	X				

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Relinquished By: 		Date: 9-25-25	Time: 2:53	Received By: 	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	All Results are emailed. Please provide Email address: <a href="mailto:pm@etechnv.com">pm@etechnv.com</a>
Relinquished By:		Date: 11/17	Time: 1453	Received By:	REMARKS:	
Delivered By: (Circle One)	Observed Temp. °C 2.42	Sample Condition Cool Intact	CHECKED BY: (Initials) AT	Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C	
Sampler - UPS - Bus - Other:	Corrected Temp. °C 2.92	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Thermometer ID #140 Correction Factor -0.6°C +0.3	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No	Corrected Temp. °C



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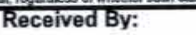
## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Company Name: Etech Environmental & Safety Solutions, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																		
Project Manager: Joel Lowry				P.O. #:				Chloride TPH (8015M) BTEX (8021B)																		
Address: 2617 West Marland				Company: Etech																						
City: Hobbs State: NM Zip: 88240				Attn: Joel Lowry																						
Phone #: (575) 264-9884 Fax #:				Address:																						
Project #: 22882 Project Owner: 3R Operating, LLC				City:																						
Project Name: Igloo 19 24 State Federal Com #015H				State: Zip:																						
Project Location: 32.555693, -103.495709				Phone #:																						
Sampler Name: Dominic Casarez				Fax #:																						
FOR LAB USE ONLY				MATRIX				PRESERV.		SAMPLING																
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME												
4250027																										
11	FL 11 @ 8'	C	1			X				X			9/25/25		X	X	X									
12	FL 12 @ 5'	C	1			X				X			9/25/25		X	X	X									
13	FL 13 @ 5'	C	1			X				X			9/25/25		X	X	X									
14	FL 14 @ 5'	C	1			X				X			9/25/25		X	X	X									
15	FL 15 @ 5'	C	1			X				X			9/25/25		X	X	X									
16	FL 16 @ 5'	C	1			X				X			9/25/25		X	X	X									
17	FL 17 @ 4'	C	1			X				X			9/25/25		X	X	X									
18	FL 18 @ 2'	C	1			X				X			9/25/25		X	X	X									
19	FL 19 @ 2'	C	1			X				X			9/25/25		X	X	X									
20	FL 20 @ 2'	C	1			X				X			9/25/25		X	X	X									

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Relinquished By: 		Date: 9.25.25 Time: 1453		Received By: 		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: All Results are emailed. Please provide Email address: <a href="mailto:pm@etechnv.com">pm@etechnv.com</a>	
Relinquished By:		Date:		Received By:		REMARKS:	
		Time:					
Delivered By: (Circle One)		Observed Temp. °C 2.6		Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: (Initials) 	
Sampler - UPS - Bus - Other:		Corrected Temp. °C 2.9				Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Thermometer ID #140 A7 Correction Factor -0.6°C 10-3	
						Bacteria (only) Sample Condition Cool Intact Observed Temp. °C <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No Corrected Temp. °C	



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# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 3 of 6

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<b>Company Name:</b> Etech Environmental & Safety Solutions, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																																									
<b>Project Manager:</b> Joel Lowry				<b>P.O. #:</b>				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																																									
<b>Address:</b> 2617 West Marland				<b>Company:</b> Etech																																													
<b>City:</b> Hobbs <b>State:</b> NM <b>Zip:</b> 88240				<b>Attn:</b> Joel Lowry																																													
<b>Phone #:</b> (575) 264-9884 <b>Fax #:</b>				<b>Address:</b>																																													
<b>Project #:</b> 22882 <b>Project Owner:</b> 3R Operating, LLC				<b>City:</b>																																													
<b>Project Name:</b> Igloo 19 24 State Federal Com #015H				<b>State:</b> <b>Zip:</b>																																													
<b>Project Location:</b> 32.555693, -103.495709				<b>Phone #:</b>																																													
<b>Sampler Name:</b> Dominic Casarez				<b>Fax #:</b>																																													
<b>FOR LAB USE ONLY</b>		<b>Lab I.D.</b>		<b>Sample I.D.</b>		<b>GRAB OR (COMP. # CONTAINERS)</b>		<b>MATRIX</b>		<b>PRESERV.</b>		<b>SAMPLING</b>																																					
								GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME																					
		H2560027																																															
		21		FL 21 @ 2'		C 1						X										X				9/25/25						X		X		X													
		22		FL 22 @ 2'		C 1						X										X				9/25/25						X		X		X													
		23		FL 23 @ 2'		C 1						X										X				9/25/25						X		X		X													
		24		FL 24 @ 2'		C 1						X										X				9/25/25						X		X		X													
		25		FL 25 @ 2'		C 1						X										X				9/25/25						X		X		X													
		26		NW 1		C 1						X										X				9/25/25						X		X		X													
		27		NW 2		C 1						X										X				9/25/25						X		X		X													
		28		NW 3		C 1						X										X				9/25/25						X		X		X													
		29		NW 4		C 1						X										X				9/25/25						X		X		X													
		30		NW 5		C 1						X										X				9/25/25						X		X		X													

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<b>Relinquished By:</b>		<b>Date:</b>		<b>Received By:</b>		<b>Verbal Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>Add'l Phone #:</b>	
		9-25-25				All Results are emailed. Please provide Email address:	
<b>Relinquished By:</b>		<b>Time:</b>		<b>Received By:</b>		<a href="mailto:pm@etechenv.com">pm@etechenv.com</a>	
		1453				<b>REMARKS:</b>	
<b>Delivered By: (Circle One)</b>		<b>Observed Temp. °C</b>		<b>Sample Condition</b>		<b>Turnaround Time:</b>	
Sampler - UPS - Bus - Other:		2.6		Cool Intact		Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>	
		2.9		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Bacteria (only) Sample Condition	
				<input type="checkbox"/> Yes <input type="checkbox"/> No		Cool Intact Observed Temp. °C	
				<input type="checkbox"/> No <input type="checkbox"/> No		Corrected Temp. °C	
				<b>CHECKED BY:</b>		<b>Thermometer ID #140</b>	
				(Initials)		Correction Factor -0.6°C	
						AD	



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<b>Company Name:</b> Etech Environmental & Safety Solutions, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																		
<b>Project Manager:</b> Joel Lowry				<b>P.O. #:</b>				<b>Chloride TPH (8015M) BTEX (8021B)</b>																		
<b>Address:</b> 2617 West Marland				<b>Company:</b> Etech																						
<b>City:</b> Hobbs <b>State:</b> NM <b>Zip:</b> 88240				<b>Attn:</b> Joel Lowry																						
<b>Phone #:</b> (575) 264-9884 <b>Fax #:</b>				<b>Address:</b>																						
<b>Project #:</b> 22882 <b>Project Owner:</b> 3R Operating, LLC				<b>City:</b>																						
<b>Project Name:</b> Igloo 19 24 State Federal Com #015H				<b>State:</b> <b>Zip:</b>																						
<b>Project Location:</b> 32.555693, -103.495709				<b>Phone #:</b>																						
<b>Sampler Name:</b> Dominic Casarez				<b>Fax #:</b>																						
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											
H256037				C 1		X					X		9/25/25		X	X	X									
31	NW 6	C 1			X					X		9/25/25		X	X	X										
32	EW 1	C 1			X					X		9/25/25		X	X	X										
33	EW 2	C 1			X					X		9/25/25		X	X	X										
34	SW 1	C 1			X					X		9/25/25		X	X	X										
35	SW 2	C 1			X					X		9/25/25		X	X	X										
36	SW 3	C 1			X					X		9/25/25		X	X	X										
37	SW 4	C 1			X					X		9/25/25		X	X	X										
38	SW 5	C 1			X					X		9/25/25		X	X	X										
39	SW 6	C 1			X					X		9/25/25		X	X	X										
40	WW 1	C 1			X					X		9/25/25		X	X	X										

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<b>Relinquished By:</b> [Signature]		<b>Date:</b> 9-25-25	<b>Received By:</b> [Signature]		<b>Verbal Result:</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No    Add'l Phone #:	
		<b>Time:</b> 1453			<b>All Results are emailed. Please provide Email address:</b> <a href="mailto:pm@etechenv.com">pm@etechenv.com</a>	
<b>Relinquished By:</b>		<b>Date:</b>	<b>Received By:</b>		<b>REMARKS:</b>	
		<b>Time:</b>				

<b>Delivered By: (Circle One)</b>		<b>Observed Temp. °C</b> 24.0	<b>Sample Condition</b>		<b>CHECKED BY:</b> [Initials] DP	<b>Turnaround Time:</b> Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>	<b>Bacteria (only) Sample Condition</b>
<b>Sampler - UPS - Bus - Other:</b>		<b>Corrected Temp. °C</b> 2.9	Cool Intact	Yes <input type="checkbox"/> No <input type="checkbox"/>			Cool Intact Observed Temp. °C
			Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>			Yes <input type="checkbox"/> No <input type="checkbox"/> Corrected Temp. °C

Thermometer ID #140 Correction Factor -0.6°C



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# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 5 of 6

<b>Company Name:</b> Etech Environmental & Safety Solutions, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																				
<b>Project Manager:</b> Joel Lowry				<b>P.O. #:</b>				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																				
<b>Address:</b> 2617 West Marland				<b>Company:</b> Etech																								
<b>City:</b> Hobbs <b>State:</b> NM <b>Zip:</b> 88240				<b>Attn:</b> Joel Lowry																								
<b>Phone #:</b> (575) 264-9884 <b>Fax #:</b>				<b>Address:</b>																								
<b>Project #:</b> 22882 <b>Project Owner:</b> 3R Operating, LLC				<b>City:</b>																								
<b>Project Name:</b> Igloo 19 24 State Federal Com #015H				<b>State:</b> <b>Zip:</b>																								
<b>Project Location:</b> 32.555693, -103.495709				<b>Phone #:</b>																								
<b>Sampler Name:</b> Dominic Casarez				<b>Fax #:</b>																								
<b>FOR LAB USE ONLY</b>				<b>MATRIX</b>		<b>PRESERV.</b>		<b>SAMPLING</b>																				
<b>Lab I.D.</b>	<b>Sample I.D.</b>	<b>GRAB OR (C)OMP.</b>	<b># CONTAINERS</b>	<b>GROUNDWATER</b>	<b>WASTEWATER</b>	<b>SOIL</b>	<b>OIL</b>	<b>SLUDGE</b>	<b>OTHER :</b>	<b>ACID/BASE:</b>	<b>ICE / COOL</b>	<b>OTHER :</b>	<b>DATE</b>	<b>TIME</b>														
H2SL0027	WW 2	C	1			X					X		9/25/25		X	X	X											
41	WW 3	C	1			X					X		9/25/25		X	X	X											
42	WW 4	C	1			X					X		9/25/25		X	X	X											
43	WW 5	C	1			X					X		9/25/25		X	X	X											
44	Def 1 @ Sur	G	1			X					X		9/25/25		X	X	X											
45	Def 1 @ 1'	G	1			X					X		9/25/25		X	X	X											
46	Def 1 @ 2'	G	1			X					X		9/25/25		X	X	X											
47	NH 1 @ Sur	G	1			X					X		9/25/25		X	X	X											
48	NH 1 @ 1'	G	1			X					X		9/25/25		X	X	X											
49	EH 1 @ Sur	G	1			X					X		9/25/25		X	X	X											
50																												

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<b>Relinquished By:</b>		<b>Date:</b> 9-25-25	<b>Received By:</b>		<b>Verbal Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>Add'l Phone #:</b>	
		<b>Time:</b> 1453			<b>All Results are emailed. Please provide Email address:</b> <a href="mailto:pm@etechenv.com">pm@etechenv.com</a>	
<b>Relinquished By:</b>		<b>Date:</b>	<b>Received By:</b>		<b>REMARKS:</b>	
		<b>Time:</b>				
<b>Delivered By: (Circle One)</b>	<b>Observed Temp. °C</b> 2.6	<b>Sample Condition</b>	<b>CHECKED BY:</b>	<b>Turnaround Time:</b>	<b>Standard</b> <input checked="" type="checkbox"/> <b>Rush</b> <input type="checkbox"/>	<b>Bacteria (only) Sample Condition</b>
<b>Sampler - UPS - Bus - Other:</b>	<b>Corrected Temp. °C</b> 2.9	<b>Cool</b> <input type="checkbox"/> <b>Intact</b> <input type="checkbox"/>	<b>(Initials)</b>	<b>Thermometer ID</b> #140	<b>Correction Factor</b> -0.6°C	<b>Cool</b> <input type="checkbox"/> <b>Intact</b> <input type="checkbox"/>
		<input type="checkbox"/> <b>Yes</b> <input type="checkbox"/> <b>No</b>				<input type="checkbox"/> <b>Yes</b> <input type="checkbox"/> <b>No</b>
		<input type="checkbox"/> <b>Yes</b> <input type="checkbox"/> <b>No</b>				<input type="checkbox"/> <b>Yes</b> <input type="checkbox"/> <b>No</b>
						<b>Observed Temp. °C</b>
						<b>Corrected Temp. °C</b>





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# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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<b>Project Manager:</b> Joel Lowry				<b>P.O. #:</b>				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																					
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<b>Project Location:</b> 32.555693, -103.495709				<b>Phone #:</b>																									
<b>Sampler Name:</b> Dominic Casarez				<b>Fax #:</b>																									
<b>FOR LAB USE ONLY</b>		<b>Lab I.D.</b>		<b>Sample I.D.</b>		<b>(G)RAB OR (C)OMP.</b>		<b># CONTAINERS</b>		<b>MATRIX</b>				<b>PRESERV.</b>		<b>SAMPLING</b>													
										GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:				ACID/BASE: ICE / COOL OTHER:		DATE TIME													
		#250027																											
		S1		EH 1 @ 1'		G 1				X				X		9/25/25		X X X											
		S2		SH 1 @ Sur		G 1				X				X		9/25/25		X X X											
		S3		SH 1 @ 1'		G 1				X				X		9/25/25		X X X											
		S4		WH 1 @ Sur		G 1				X				X		9/25/25		X X X											
		S5		WH 1 @ 1'		G 1				X				X		9/25/25		X X X											

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<b>Relinquished By:</b>		<b>Date:</b>		<b>Received By:</b>		<b>Verbal Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>Add'l Phone #:</b>	
		9/25/25				All Results are emailed. Please provide Email address: <a href="mailto:pm@etechenv.com">pm@etechenv.com</a>	
<b>Relinquished By:</b>		<b>Date:</b>		<b>Received By:</b>		<b>REMARKS:</b>	
<b>Delivered By: (Circle One)</b>		<b>Observed Temp. °C</b>		<b>Sample Condition</b>		<b>CHECKED BY:</b>	
Sampler - UPS - Bus - Other:		20.5		Cool Intact		(Initials)	
		Corrected Temp. °C		<input type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No		Turnaround Time: <b>Standard</b> <input checked="" type="checkbox"/> <b>Rush</b> <input type="checkbox"/> Thermometer ID #140 Correction Factor -0.6°C	
		2.9				Bacteria (only) Sample Condition Cool Intact Observed Temp. °C <input type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No Corrected Temp. °C	





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

October 02, 2025

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: IGLOO 19 24 STATE FEDERAL COM #015H

Enclosed are the results of analyses for samples received by the laboratory on 09/26/25 15:47.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	09/26/2025	Sampling Date:	09/26/2025
Reported:	10/02/2025	Sampling Type:	Soil
Project Name:	IGLOO 19 24 STATE FEDERAL COM #01!	Sampling Condition:	Cool & Intact
Project Number:	22882	Sample Received By:	Alyssa Parras
Project Location:	3R OPERATING 32.555693-103.495709		

**Sample ID: FL 26 2' (H256070-01)**

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	09/29/2025	ND	1.87	93.6	2.00	1.60	
Toluene*	<0.050	0.050	09/29/2025	ND	1.90	95.1	2.00	0.930	
Ethylbenzene*	<0.050	0.050	09/29/2025	ND	1.91	95.3	2.00	0.364	
Total Xylenes*	<0.150	0.150	09/29/2025	ND	5.89	98.2	6.00	0.242	
Total BTEX	<0.300	0.300	09/29/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/29/2025	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	09/29/2025	ND	205	102	200	1.00	
DRO >C10-C28*	<10.0	10.0	09/29/2025	ND	218	109	200	0.121	
EXT DRO >C28-C36	<10.0	10.0	09/29/2025	ND					

Surrogate: 1-Chlorooctane 80.2 % 52.4-130

Surrogate: 1-Chlorooctadecane 79.3 % 39.9-141

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 09/26/2025  
 Reported: 10/02/2025  
 Project Name: IGLOO 19 24 STATE FEDERAL COM #01!  
 Project Number: 22882  
 Project Location: 3R OPERATING 32.555693-103.495709

Sampling Date: 09/26/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: FL 27 2' (H256070-02)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/29/2025	ND	1.87	93.6	2.00	1.60	
Toluene*	<0.050	0.050	09/29/2025	ND	1.90	95.1	2.00	0.930	
Ethylbenzene*	<0.050	0.050	09/29/2025	ND	1.91	95.3	2.00	0.364	
Total Xylenes*	<0.150	0.150	09/29/2025	ND	5.89	98.2	6.00	0.242	
Total BTX	<0.300	0.300	09/29/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 70.4-141

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	09/29/2025	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	09/29/2025	ND	205	102	200	1.00	
DRO >C10-C28*	<10.0	10.0	09/29/2025	ND	218	109	200	0.121	
EXT DRO >C28-C36	<10.0	10.0	09/29/2025	ND					

Surrogate: 1-Chlorooctane 94.1 % 52.4-130

Surrogate: 1-Chlorooctadecane 91.6 % 39.9-141

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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  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 09/26/2025  
 Reported: 10/02/2025  
 Project Name: IGLOO 19 24 STATE FEDERAL COM #01!  
 Project Number: 22882  
 Project Location: 3R OPERATING 32.555693-103.495709

Sampling Date: 09/26/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: FL 28 2' (H256070-03)**

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	09/29/2025	ND	1.87	93.6	2.00	1.60		
Toluene*	<0.050	0.050	09/29/2025	ND	1.90	95.1	2.00	0.930		
Ethylbenzene*	<0.050	0.050	09/29/2025	ND	1.91	95.3	2.00	0.364		
Total Xylenes*	<0.150	0.150	09/29/2025	ND	5.89	98.2	6.00	0.242		
Total BTEx	<0.300	0.300	09/29/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 70.4-141

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	09/29/2025	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	09/29/2025	ND	205	102	200	1.00	
DRO >C10-C28*	<10.0	10.0	09/29/2025	ND	218	109	200	0.121	
EXT DRO >C28-C36	<10.0	10.0	09/29/2025	ND					

Surrogate: 1-Chlorooctane 88.4 % 52.4-130

Surrogate: 1-Chlorooctadecane 85.3 % 39.9-141

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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  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	09/26/2025	Sampling Date:	09/26/2025
Reported:	10/02/2025	Sampling Type:	Soil
Project Name:	IGLOO 19 24 STATE FEDERAL COM #01!	Sampling Condition:	Cool & Intact
Project Number:	22882	Sample Received By:	Alyssa Parras
Project Location:	3R OPERATING 32.555693-103.495709		

**Sample ID: FL 29 2' (H256070-04)**

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	09/29/2025	ND	1.87	93.6	2.00	1.60		
Toluene*	<0.050	0.050	09/29/2025	ND	1.90	95.1	2.00	0.930		
Ethylbenzene*	<0.050	0.050	09/29/2025	ND	1.91	95.3	2.00	0.364		
Total Xylenes*	<0.150	0.150	09/29/2025	ND	5.89	98.2	6.00	0.242		
Total BTEX	<0.300	0.300	09/29/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 70.4-141

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	09/29/2025	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	09/29/2025	ND	205	102	200	1.00	
DRO >C10-C28*	<10.0	10.0	09/29/2025	ND	218	109	200	0.121	
EXT DRO >C28-C36	<10.0	10.0	09/29/2025	ND					

Surrogate: 1-Chlorooctane 92.5 % 52.4-130

Surrogate: 1-Chlorooctadecane 88.4 % 39.9-141

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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  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	09/26/2025	Sampling Date:	09/26/2025
Reported:	10/02/2025	Sampling Type:	Soil
Project Name:	IGLOO 19 24 STATE FEDERAL COM #01!	Sampling Condition:	Cool & Intact
Project Number:	22882	Sample Received By:	Alyssa Parras
Project Location:	3R OPERATING 32.555693-103.495709		

**Sample ID: FL 30 2' (H256070-05)**

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	09/29/2025	ND	1.87	93.6	2.00	1.60		
Toluene*	<0.050	0.050	09/29/2025	ND	1.90	95.1	2.00	0.930		
Ethylbenzene*	<0.050	0.050	09/29/2025	ND	1.91	95.3	2.00	0.364		
Total Xylenes*	<0.150	0.150	09/29/2025	ND	5.89	98.2	6.00	0.242		
Total BTEX	<0.300	0.300	09/29/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 70.4-141

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	09/29/2025	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	09/29/2025	ND	205	102	200	1.00	
DRO >C10-C28*	<10.0	10.0	09/29/2025	ND	218	109	200	0.121	
EXT DRO >C28-C36	<10.0	10.0	09/29/2025	ND					

Surrogate: 1-Chlorooctane 104 % 52.4-130

Surrogate: 1-Chlorooctadecane 99.9 % 39.9-141

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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  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	09/26/2025	Sampling Date:	09/26/2025
Reported:	10/02/2025	Sampling Type:	Soil
Project Name:	IGLOO 19 24 STATE FEDERAL COM #01!	Sampling Condition:	Cool & Intact
Project Number:	22882	Sample Received By:	Alyssa Parras
Project Location:	3R OPERATING 32.555693-103.495709		

**Sample ID: FL 31 2' (H256070-06)**

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	09/29/2025	ND	1.87	93.6	2.00	1.60		
Toluene*	<0.050	0.050	09/29/2025	ND	1.90	95.1	2.00	0.930		
Ethylbenzene*	<0.050	0.050	09/29/2025	ND	1.91	95.3	2.00	0.364		
Total Xylenes*	<0.150	0.150	09/29/2025	ND	5.89	98.2	6.00	0.242		
Total BTEx	<0.300	0.300	09/29/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 70.4-141

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	09/29/2025	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	09/29/2025	ND	205	102	200	1.00	
DRO >C10-C28*	<10.0	10.0	09/29/2025	ND	218	109	200	0.121	
EXT DRO >C28-C36	<10.0	10.0	09/29/2025	ND					

Surrogate: 1-Chlorooctane 85.9 % 52.4-130

Surrogate: 1-Chlorooctadecane 82.0 % 39.9-141

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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  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 09/26/2025  
 Reported: 10/02/2025  
 Project Name: IGLOO 19 24 STATE FEDERAL COM #01!  
 Project Number: 22882  
 Project Location: 3R OPERATING 32.555693-103.495709

Sampling Date: 09/26/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: FL 32 2' (H256070-07)**

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	09/29/2025	ND	1.87	93.6	2.00	1.60		
Toluene*	<0.050	0.050	09/29/2025	ND	1.90	95.1	2.00	0.930		
Ethylbenzene*	<0.050	0.050	09/29/2025	ND	1.91	95.3	2.00	0.364		
Total Xylenes*	<0.150	0.150	09/29/2025	ND	5.89	98.2	6.00	0.242		
Total BTEX	<0.300	0.300	09/29/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 70.4-141

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	09/29/2025	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	09/29/2025	ND	205	102	200	1.00	
DRO >C10-C28*	<10.0	10.0	09/29/2025	ND	218	109	200	0.121	
EXT DRO >C28-C36	<10.0	10.0	09/29/2025	ND					

Surrogate: 1-Chlorooctane 97.5 % 52.4-130

Surrogate: 1-Chlorooctadecane 93.1 % 39.9-141

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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  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 09/26/2025  
 Reported: 10/02/2025  
 Project Name: IGLOO 19 24 STATE FEDERAL COM #01!  
 Project Number: 22882  
 Project Location: 3R OPERATING 32.555693-103.495709

Sampling Date: 09/26/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: FL 33 2' (H256070-08)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/29/2025	ND	1.87	93.6	2.00	1.60	
Toluene*	<0.050	0.050	09/29/2025	ND	1.90	95.1	2.00	0.930	
Ethylbenzene*	<0.050	0.050	09/29/2025	ND	1.91	95.3	2.00	0.364	
Total Xylenes*	<0.150	0.150	09/29/2025	ND	5.89	98.2	6.00	0.242	
Total BTX	<0.300	0.300	09/29/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/29/2025	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	09/29/2025	ND	205	102	200	1.00	
DRO >C10-C28*	<10.0	10.0	09/29/2025	ND	218	109	200	0.121	
EXT DRO >C28-C36	<10.0	10.0	09/29/2025	ND					

Surrogate: 1-Chlorooctane 90.2 % 52.4-130

Surrogate: 1-Chlorooctadecane 86.4 % 39.9-141

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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  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	09/26/2025	Sampling Date:	09/26/2025
Reported:	10/02/2025	Sampling Type:	Soil
Project Name:	IGLOO 19 24 STATE FEDERAL COM #01!	Sampling Condition:	Cool & Intact
Project Number:	22882	Sample Received By:	Alyssa Parras
Project Location:	3R OPERATING 32.555693-103.495709		

**Sample ID: FL 34 2' (H256070-09)**

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	09/29/2025	ND	1.87	93.6	2.00	1.60		
Toluene*	<0.050	0.050	09/29/2025	ND	1.90	95.1	2.00	0.930		
Ethylbenzene*	<0.050	0.050	09/29/2025	ND	1.91	95.3	2.00	0.364		
Total Xylenes*	<0.150	0.150	09/29/2025	ND	5.89	98.2	6.00	0.242		
Total BTEX	<0.300	0.300	09/29/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/29/2025	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	09/29/2025	ND	205	102	200	1.00	
DRO >C10-C28*	<10.0	10.0	09/29/2025	ND	218	109	200	0.121	
EXT DRO >C28-C36	<10.0	10.0	09/29/2025	ND					

Surrogate: 1-Chlorooctane 90.8 % 52.4-130

Surrogate: 1-Chlorooctadecane 86.6 % 39.9-141

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received:	09/26/2025	Sampling Date:	09/26/2025
Reported:	10/02/2025	Sampling Type:	Soil
Project Name:	IGLOO 19 24 STATE FEDERAL COM #01!	Sampling Condition:	Cool & Intact
Project Number:	22882	Sample Received By:	Alyssa Parras
Project Location:	3R OPERATING 32.555693-103.495709		

**Sample ID: FL 35 2' (H256070-10)**

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	09/29/2025	ND	1.87	93.6	2.00	1.60		
Toluene*	<0.050	0.050	09/29/2025	ND	1.90	95.1	2.00	0.930		
Ethylbenzene*	<0.050	0.050	09/29/2025	ND	1.91	95.3	2.00	0.364		
Total Xylenes*	<0.150	0.150	09/29/2025	ND	5.89	98.2	6.00	0.242		
Total BTEX	<0.300	0.300	09/29/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/29/2025	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	09/29/2025	ND	205	102	200	1.00	
DRO >C10-C28*	<10.0	10.0	09/29/2025	ND	218	109	200	0.121	
EXT DRO >C28-C36	<10.0	10.0	09/29/2025	ND					

Surrogate: 1-Chlorooctane 93.5 % 52.4-130

Surrogate: 1-Chlorooctadecane 90.4 % 39.9-141

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 09/26/2025  
 Reported: 10/02/2025  
 Project Name: IGLOO 19 24 STATE FEDERAL COM #01!  
 Project Number: 22882  
 Project Location: 3R OPERATING 32.555693-103.495709

Sampling Date: 09/26/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: FL 36 2' (H256070-11)**

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	09/29/2025	ND	1.87	93.6	2.00	1.60	
Toluene*	<0.050	0.050	09/29/2025	ND	1.90	95.1	2.00	0.930	
Ethylbenzene*	<0.050	0.050	09/29/2025	ND	1.91	95.3	2.00	0.364	
Total Xylenes*	<0.150	0.150	09/29/2025	ND	5.89	98.2	6.00	0.242	
Total BTEX	<0.300	0.300	09/29/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/29/2025	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	09/29/2025	ND	205	102	200	1.00	
DRO >C10-C28*	<10.0	10.0	09/29/2025	ND	218	109	200	0.121	
EXT DRO >C28-C36	<10.0	10.0	09/29/2025	ND					

Surrogate: 1-Chlorooctane 81.0 % 52.4-130

Surrogate: 1-Chlorooctadecane 79.3 % 39.9-141

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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  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 09/26/2025  
 Reported: 10/02/2025  
 Project Name: IGLOO 19 24 STATE FEDERAL COM #01!  
 Project Number: 22882  
 Project Location: 3R OPERATING 32.555693-103.495709

Sampling Date: 09/26/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: FL 37 2' (H256070-12)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/29/2025	ND	1.87	93.6	2.00	1.60	
Toluene*	<0.050	0.050	09/29/2025	ND	1.90	95.1	2.00	0.930	
Ethylbenzene*	<0.050	0.050	09/29/2025	ND	1.91	95.3	2.00	0.364	
Total Xylenes*	<0.150	0.150	09/29/2025	ND	5.89	98.2	6.00	0.242	
Total BTX	<0.300	0.300	09/29/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/29/2025	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	09/29/2025	ND	205	102	200	1.00	
DRO >C10-C28*	<10.0	10.0	09/29/2025	ND	218	109	200	0.121	
EXT DRO >C28-C36	<10.0	10.0	09/29/2025	ND					

Surrogate: 1-Chlorooctane 80.1 % 52.4-130

Surrogate: 1-Chlorooctadecane 76.3 % 39.9-141

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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  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 09/26/2025  
 Reported: 10/02/2025  
 Project Name: IGLOO 19 24 STATE FEDERAL COM #01!  
 Project Number: 22882  
 Project Location: 3R OPERATING 32.555693-103.495709

Sampling Date: 09/26/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: FL 38 2' (H256070-13)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/29/2025	ND	1.87	93.6	2.00	1.60		
Toluene*	<0.050	0.050	09/29/2025	ND	1.90	95.1	2.00	0.930		
Ethylbenzene*	<0.050	0.050	09/29/2025	ND	1.91	95.3	2.00	0.364		
Total Xylenes*	<0.150	0.150	09/29/2025	ND	5.89	98.2	6.00	0.242		
Total BTX	<0.300	0.300	09/29/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	09/29/2025	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	09/29/2025	ND	205	102	200	1.00	
DRO >C10-C28*	<10.0	10.0	09/29/2025	ND	218	109	200	0.121	
EXT DRO >C28-C36	<10.0	10.0	09/29/2025	ND					

Surrogate: 1-Chlorooctane 95.1 % 52.4-130

Surrogate: 1-Chlorooctadecane 90.7 % 39.9-141

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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  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	09/26/2025	Sampling Date:	09/26/2025
Reported:	10/02/2025	Sampling Type:	Soil
Project Name:	IGLOO 19 24 STATE FEDERAL COM #01!	Sampling Condition:	Cool & Intact
Project Number:	22882	Sample Received By:	Alyssa Parras
Project Location:	3R OPERATING 32.555693-103.495709		

**Sample ID: FL 39 2' (H256070-14)**

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	09/29/2025	ND	1.87	93.6	2.00	1.60		
Toluene*	<0.050	0.050	09/29/2025	ND	1.90	95.1	2.00	0.930		
Ethylbenzene*	<0.050	0.050	09/29/2025	ND	1.91	95.3	2.00	0.364		
Total Xylenes*	<0.150	0.150	09/29/2025	ND	5.89	98.2	6.00	0.242		
Total BTEX	<0.300	0.300	09/29/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/29/2025	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	09/29/2025	ND	205	102	200	1.00	
DRO >C10-C28*	<10.0	10.0	09/29/2025	ND	218	109	200	0.121	
EXT DRO >C28-C36	<10.0	10.0	09/29/2025	ND					

Surrogate: 1-Chlorooctane 91.0 % 52.4-130

Surrogate: 1-Chlorooctadecane 91.7 % 39.9-141

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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  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 09/26/2025  
 Reported: 10/02/2025  
 Project Name: IGLOO 19 24 STATE FEDERAL COM #01!  
 Project Number: 22882  
 Project Location: 3R OPERATING 32.555693-103.495709

Sampling Date: 09/26/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: FL 40 2' (H256070-15)**

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	09/29/2025	ND	1.87	93.6	2.00	1.60	
Toluene*	<0.050	0.050	09/29/2025	ND	1.90	95.1	2.00	0.930	
Ethylbenzene*	<0.050	0.050	09/29/2025	ND	1.91	95.3	2.00	0.364	
Total Xylenes*	<0.150	0.150	09/29/2025	ND	5.89	98.2	6.00	0.242	
Total BTEX	<0.300	0.300	09/29/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/29/2025	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	09/29/2025	ND	205	102	200	1.00	
DRO >C10-C28*	<10.0	10.0	09/29/2025	ND	218	109	200	0.121	
EXT DRO >C28-C36	<10.0	10.0	09/29/2025	ND					

Surrogate: 1-Chlorooctane 88.8 % 52.4-130

Surrogate: 1-Chlorooctadecane 85.0 % 39.9-141

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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  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	09/26/2025	Sampling Date:	09/26/2025
Reported:	10/02/2025	Sampling Type:	Soil
Project Name:	IGLOO 19 24 STATE FEDERAL COM #01!	Sampling Condition:	Cool & Intact
Project Number:	22882	Sample Received By:	Alyssa Parras
Project Location:	3R OPERATING 32.555693-103.495709		

**Sample ID: FL 41 2' (H256070-16)**

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	09/29/2025	ND	1.87	93.6	2.00	1.60		
Toluene*	<0.050	0.050	09/29/2025	ND	1.90	95.1	2.00	0.930		
Ethylbenzene*	<0.050	0.050	09/29/2025	ND	1.91	95.3	2.00	0.364		
Total Xylenes*	<0.150	0.150	09/29/2025	ND	5.89	98.2	6.00	0.242		
Total BTEX	<0.300	0.300	09/29/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	09/29/2025	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	09/29/2025	ND	205	102	200	1.00	
DRO >C10-C28*	<10.0	10.0	09/29/2025	ND	218	109	200	0.121	
EXT DRO >C28-C36	<10.0	10.0	09/29/2025	ND					

Surrogate: 1-Chlorooctane 96.5 % 52.4-130

Surrogate: 1-Chlorooctadecane 92.4 % 39.9-141

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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  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	09/26/2025	Sampling Date:	09/26/2025
Reported:	10/02/2025	Sampling Type:	Soil
Project Name:	IGLOO 19 24 STATE FEDERAL COM #01!	Sampling Condition:	Cool & Intact
Project Number:	22882	Sample Received By:	Alyssa Parras
Project Location:	3R OPERATING 32.555693-103.495709		

**Sample ID: FL 42 2' (H256070-17)**

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	09/29/2025	ND	1.87	93.6	2.00	1.60		
Toluene*	<0.050	0.050	09/29/2025	ND	1.90	95.1	2.00	0.930		
Ethylbenzene*	<0.050	0.050	09/29/2025	ND	1.91	95.3	2.00	0.364		
Total Xylenes*	<0.150	0.150	09/29/2025	ND	5.89	98.2	6.00	0.242		
Total BTEX	<0.300	0.300	09/29/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	09/29/2025	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	09/29/2025	ND	205	102	200	1.00	
DRO >C10-C28*	<10.0	10.0	09/29/2025	ND	218	109	200	0.121	
EXT DRO >C28-C36	<10.0	10.0	09/29/2025	ND					

Surrogate: 1-Chlorooctane 100 % 52.4-130

Surrogate: 1-Chlorooctadecane 98.0 % 39.9-141

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  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 09/26/2025  
 Reported: 10/02/2025  
 Project Name: IGLOO 19 24 STATE FEDERAL COM #01!  
 Project Number: 22882  
 Project Location: 3R OPERATING 32.555693-103.495709

Sampling Date: 09/26/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: FL 43 2' (H256070-18)**

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	09/29/2025	ND	1.91	95.6	2.00	0.465		
Toluene*	<0.050	0.050	09/29/2025	ND	2.05	102	2.00	0.850		
Ethylbenzene*	<0.050	0.050	09/29/2025	ND	2.14	107	2.00	2.04		
Total Xylenes*	<0.150	0.150	09/29/2025	ND	6.11	102	6.00	1.83		
Total BTEX	<0.300	0.300	09/29/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/29/2025	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	09/29/2025	ND	205	102	200	1.00	
DRO >C10-C28*	<10.0	10.0	09/29/2025	ND	218	109	200	0.121	
EXT DRO >C28-C36	<10.0	10.0	09/29/2025	ND					

Surrogate: 1-Chlorooctane 86.4 % 52.4-130

Surrogate: 1-Chlorooctadecane 86.1 % 39.9-141

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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  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 09/26/2025  
 Reported: 10/02/2025  
 Project Name: IGLOO 19 24 STATE FEDERAL COM #01!  
 Project Number: 22882  
 Project Location: 3R OPERATING 32.555693-103.495709

Sampling Date: 09/26/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: FL 44 2' (H256070-19)**

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	09/29/2025	ND	1.91	95.6	2.00	0.465		
Toluene*	<0.050	0.050	09/29/2025	ND	2.05	102	2.00	0.850		
Ethylbenzene*	<0.050	0.050	09/29/2025	ND	2.14	107	2.00	2.04		
Total Xylenes*	<0.150	0.150	09/29/2025	ND	6.11	102	6.00	1.83		
Total BTEX	<0.300	0.300	09/29/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	09/29/2025	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	09/29/2025	ND	205	102	200	1.00	
DRO >C10-C28*	<10.0	10.0	09/29/2025	ND	218	109	200	0.121	
EXT DRO >C28-C36	<10.0	10.0	09/29/2025	ND					

Surrogate: 1-Chlorooctane 93.6 % 52.4-130

Surrogate: 1-Chlorooctadecane 88.5 % 39.9-141

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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  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 09/26/2025  
 Reported: 10/02/2025  
 Project Name: IGLOO 19 24 STATE FEDERAL COM #01!  
 Project Number: 22882  
 Project Location: 3R OPERATING 32.555693-103.495709

Sampling Date: 09/26/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: FL 45 2' (H256070-20)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/29/2025	ND	1.91	95.6	2.00	0.465		
Toluene*	<0.050	0.050	09/29/2025	ND	2.05	102	2.00	0.850		
Ethylbenzene*	<0.050	0.050	09/29/2025	ND	2.14	107	2.00	2.04		
Total Xylenes*	<0.150	0.150	09/29/2025	ND	6.11	102	6.00	1.83		
Total BTX	<0.300	0.300	09/29/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/29/2025	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	09/29/2025	ND	205	102	200	1.00	
DRO >C10-C28*	<10.0	10.0	09/29/2025	ND	218	109	200	0.121	
EXT DRO >C28-C36	<10.0	10.0	09/29/2025	ND					

Surrogate: 1-Chlorooctane 81.3 % 52.4-130

Surrogate: 1-Chlorooctadecane 76.8 % 39.9-141

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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  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 09/26/2025  
 Reported: 10/02/2025  
 Project Name: IGLOO 19 24 STATE FEDERAL COM #01!  
 Project Number: 22882  
 Project Location: 3R OPERATING 32.555693-103.495709

Sampling Date: 09/26/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: NW 7 (H256070-21)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/29/2025	ND	1.91	95.6	2.00	0.465		
Toluene*	<0.050	0.050	09/29/2025	ND	2.05	102	2.00	0.850		
Ethylbenzene*	<0.050	0.050	09/29/2025	ND	2.14	107	2.00	2.04		
Total Xylenes*	<0.150	0.150	09/29/2025	ND	6.11	102	6.00	1.83		
Total BTEX	<0.300	0.300	09/29/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	09/29/2025	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	09/29/2025	ND	226	113	200	1.94	
DRO >C10-C28*	<10.0	10.0	09/29/2025	ND	217	108	200	2.05	
EXT DRO >C28-C36	<10.0	10.0	09/29/2025	ND					

Surrogate: 1-Chlorooctane 94.6 % 52.4-130

Surrogate: 1-Chlorooctadecane 89.2 % 39.9-141

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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  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	09/26/2025	Sampling Date:	09/26/2025
Reported:	10/02/2025	Sampling Type:	Soil
Project Name:	IGLOO 19 24 STATE FEDERAL COM #01!	Sampling Condition:	Cool & Intact
Project Number:	22882	Sample Received By:	Alyssa Parras
Project Location:	3R OPERATING 32.555693-103.495709		

**Sample ID: NW 8 (H256070-22)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/29/2025	ND	1.91	95.6	2.00	0.465		
Toluene*	<0.050	0.050	09/29/2025	ND	2.05	102	2.00	0.850		
Ethylbenzene*	<0.050	0.050	09/29/2025	ND	2.14	107	2.00	2.04		
Total Xylenes*	<0.150	0.150	09/29/2025	ND	6.11	102	6.00	1.83		
Total BTEX	<0.300	0.300	09/29/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/29/2025	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	09/29/2025	ND	226	113	200	1.94	
DRO >C10-C28*	<10.0	10.0	09/29/2025	ND	217	108	200	2.05	
EXT DRO >C28-C36	<10.0	10.0	09/29/2025	ND					

Surrogate: 1-Chlorooctane 96.0 % 52.4-130

Surrogate: 1-Chlorooctadecane 89.2 % 39.9-141

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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  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	09/26/2025	Sampling Date:	09/26/2025
Reported:	10/02/2025	Sampling Type:	Soil
Project Name:	IGLOO 19 24 STATE FEDERAL COM #01!	Sampling Condition:	Cool & Intact
Project Number:	22882	Sample Received By:	Alyssa Parras
Project Location:	3R OPERATING 32.555693-103.495709		

**Sample ID: NW 9 (H256070-23)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/29/2025	ND	1.91	95.6	2.00	0.465		
Toluene*	<0.050	0.050	09/29/2025	ND	2.05	102	2.00	0.850		
Ethylbenzene*	<0.050	0.050	09/29/2025	ND	2.14	107	2.00	2.04		
Total Xylenes*	<0.150	0.150	09/29/2025	ND	6.11	102	6.00	1.83		
Total BTEX	<0.300	0.300	09/29/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	09/29/2025	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	09/29/2025	ND	226	113	200	1.94	
DRO >C10-C28*	<10.0	10.0	09/29/2025	ND	217	108	200	2.05	
EXT DRO >C28-C36	<10.0	10.0	09/29/2025	ND					

Surrogate: 1-Chlorooctane 90.2 % 52.4-130

Surrogate: 1-Chlorooctadecane 82.9 % 39.9-141

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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  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	09/26/2025	Sampling Date:	09/26/2025
Reported:	10/02/2025	Sampling Type:	Soil
Project Name:	IGLOO 19 24 STATE FEDERAL COM #01!	Sampling Condition:	Cool & Intact
Project Number:	22882	Sample Received By:	Alyssa Parras
Project Location:	3R OPERATING 32.555693-103.495709		

**Sample ID: EW 3 (H256070-24)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/29/2025	ND	1.91	95.6	2.00	0.465		
Toluene*	<0.050	0.050	09/29/2025	ND	2.05	102	2.00	0.850		
Ethylbenzene*	<0.050	0.050	09/29/2025	ND	2.14	107	2.00	2.04		
Total Xylenes*	<0.150	0.150	09/29/2025	ND	6.11	102	6.00	1.83		
Total BTEx	<0.300	0.300	09/29/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/29/2025	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	09/29/2025	ND	226	113	200	1.94	
DRO >C10-C28*	<10.0	10.0	09/29/2025	ND	217	108	200	2.05	
EXT DRO >C28-C36	<10.0	10.0	09/29/2025	ND					

Surrogate: 1-Chlorooctane 97.0 % 52.4-130

Surrogate: 1-Chlorooctadecane 89.6 % 39.9-141

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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  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	09/26/2025	Sampling Date:	09/26/2025
Reported:	10/02/2025	Sampling Type:	Soil
Project Name:	IGLOO 19 24 STATE FEDERAL COM #01!	Sampling Condition:	Cool & Intact
Project Number:	22882	Sample Received By:	Alyssa Parras
Project Location:	3R OPERATING 32.555693-103.495709		

**Sample ID: EW 4 (H256070-25)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/29/2025	ND	1.91	95.6	2.00	0.465		
Toluene*	<0.050	0.050	09/29/2025	ND	2.05	102	2.00	0.850		
Ethylbenzene*	<0.050	0.050	09/29/2025	ND	2.14	107	2.00	2.04		
Total Xylenes*	<0.150	0.150	09/29/2025	ND	6.11	102	6.00	1.83		
Total BTEX	<0.300	0.300	09/29/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/29/2025	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	09/29/2025	ND	226	113	200	1.94	
DRO >C10-C28*	<10.0	10.0	09/29/2025	ND	217	108	200	2.05	
EXT DRO >C28-C36	<10.0	10.0	09/29/2025	ND					

Surrogate: 1-Chlorooctane 97.6 % 52.4-130

Surrogate: 1-Chlorooctadecane 91.5 % 39.9-141

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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  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	09/26/2025	Sampling Date:	09/26/2025
Reported:	10/02/2025	Sampling Type:	Soil
Project Name:	IGLOO 19 24 STATE FEDERAL COM #01!	Sampling Condition:	Cool & Intact
Project Number:	22882	Sample Received By:	Alyssa Parras
Project Location:	3R OPERATING 32.555693-103.495709		

**Sample ID: EW 5 (H256070-26)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/29/2025	ND	1.91	95.6	2.00	0.465		
Toluene*	<0.050	0.050	09/29/2025	ND	2.05	102	2.00	0.850		
Ethylbenzene*	<0.050	0.050	09/29/2025	ND	2.14	107	2.00	2.04		
Total Xylenes*	<0.150	0.150	09/29/2025	ND	6.11	102	6.00	1.83		
Total BTEX	<0.300	0.300	09/29/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/29/2025	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	09/29/2025	ND	226	113	200	1.94	
DRO >C10-C28*	<10.0	10.0	09/29/2025	ND	217	108	200	2.05	
EXT DRO >C28-C36	<10.0	10.0	09/29/2025	ND					

Surrogate: 1-Chlorooctane 105 % 52.4-130

Surrogate: 1-Chlorooctadecane 96.0 % 39.9-141

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  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 09/26/2025  
 Reported: 10/02/2025  
 Project Name: IGLOO 19 24 STATE FEDERAL COM #01!  
 Project Number: 22882  
 Project Location: 3R OPERATING 32.555693-103.495709

Sampling Date: 09/26/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SW 7 (H256070-27)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/29/2025	ND	1.91	95.6	2.00	0.465		
Toluene*	<0.050	0.050	09/29/2025	ND	2.05	102	2.00	0.850		
Ethylbenzene*	<0.050	0.050	09/29/2025	ND	2.14	107	2.00	2.04		
Total Xylenes*	<0.150	0.150	09/29/2025	ND	6.11	102	6.00	1.83		
Total BTEx	<0.300	0.300	09/29/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/29/2025	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	09/29/2025	ND	226	113	200	1.94	
DRO >C10-C28*	<10.0	10.0	09/29/2025	ND	217	108	200	2.05	
EXT DRO >C28-C36	<10.0	10.0	09/29/2025	ND					

Surrogate: 1-Chlorooctane 103 % 52.4-130

Surrogate: 1-Chlorooctadecane 94.8 % 39.9-141

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



---

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

---

### Notes and Definitions

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

---

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\*=Accredited Analyte

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

---

Celey D. Keene, Lab Director/Quality Manager



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

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 3

Page 30 of 32

Company Name: Etech Environmental & Safety Solutions, Inc.

Project Manager: Joel Lowry

Address: 2617 West Marland

City: Hobbs State: NM Zip: 88240

Phone #: (575) 264-9884 Fax #:

Project #: 22882 Project Owner: 3R Operating, LLC

Project Name: Igloo 19 24 State Federal Com #015H

Project Location: 32.555693, -103.495709

Sampler Name: Martin Sepulveda

## BILL TO

P.O. #:

Company: Etech

Attn: Joel Lowry

Address:

City:

State: Zip:

Phone #:

Fax #:

## ANALYSIS REQUEST

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

Chloride

TPH (8015M)

BTEX (8021B)

FL 26 @ 2'

FL 27 @ 2'

FL 28 @ 2'

FL 29 @ 2'

FL 30 @ 2'

FL 31 @ 2'

FL 32 @ 2'

FL 33 @ 2'

FL 34 @ 2'

FL 35 @ 2'

C

1

X

X

X

X

X

X

X

X

X

9/26/25

X

X

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C

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9/26/25

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X

9/26/25

X

X

X

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Relinquished By:

Date:

Time:

Date:

Time:

Received By:

Received By:

Verbal Result: ☐ Yes ☐ No

Add'l Phone #:

All Results are emailed. Please provide Email address:

pm@etechenv.com

REMARKS:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Observed Temp. °C

Corrected Temp. °C

Sample Condition

Cool Intact

☒ Yes ☐ No

CHECKED BY:

(Initials)

Turnaround Time:

Standard

Rush

Thermometer ID #140

Correction Factor -0.6°C

Bacteria (only) Sample Condition

Cool Intact Observed Temp. °C

☐ Yes ☐ No

Corrected Temp. °C





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# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 2 of 3

Company Name: Etech Environmental & Safety Solutions, Inc.

Project Manager: Joel Lowry

Address: 2617 West Marland

City: Hobbs State: NM Zip: 88240

Phone #: (575) 264-9884 Fax #:

Project #: 22882 Project Owner: 3R Operating, LLC

Project Name: Igloo 19 24 State Federal Com #015H

Project Location: 32.555693, -103.495709

Sampler Name: Martin Sepulveda

## BILL TO

P.O. #:

Company: Etech

Attn: Joel Lowry

Address:

City:

State: Zip:

Phone #:

Fax #:

## ANALYSIS REQUEST

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
C 1	1		X					X	9/26/25	
C 1	1		X					X	9/26/25	
C 1	1		X					X	9/26/25	
C 1	1		X					X	9/26/25	
C 1	1		X					X	9/26/25	
C 1	1		X					X	9/26/25	
C 1	1		X					X	9/26/25	
C 1	1		X					X	9/26/25	
C 1	1		X					X	9/26/25	

Chloride

TPH (8015M)

BTEX (8021B)

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Relinquished By:

Date: 9/26/25  
Time: 1547

Received By:

Received By:

Relinquished By:

Date:

Time:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Observed Temp. °C -8.9

Corrected Temp. °C -8.0

Sample Condition  
Cool Intact  
☒ Yes ☒ Yes  
☐ No ☐ No

CHECKED BY:  
(Initials)  
AP

Verbal Result: ☐ Yes ☐ No Add'l Phone #:

All Results are emailed. Please provide Email address:

pm@etechenv.com

REMARKS:

Turnaround Time:

Standard ☒  
Rush ☐

Thermometer ID #140

Correction Factor -0.6°C +0.3

Bacteria (only) Sample Condition  
Cool Intact Observed Temp. °C  
☐ Yes ☐ Yes  
☐ No ☐ No Corrected Temp. °C



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

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 3 of 3

Company Name: Etech Environmental & Safety Solutions, Inc.

Project Manager: Joel Lowry

Address: 2617 West Marland

City: Hobbs State: NM Zip: 88240

Phone #: (575) 264-9884 Fax #:

Project #: 22882 Project Owner: 3R Operating, LLC

Project Name: Igloo 19 24 State Federal Com #015H

Project Location: 32.555693, -103.495709

Sampler Name: Martin Sepulveda

## BILL TO

P.O. #:

Company: Etech

Attn: Joel Lowry

Address:

City:

State: Zip:

Phone #:

Fax #:

## ANALYSIS REQUEST

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

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
21	NW 7	C	1			X				X	9/26/25	
22	NW 8	C	1			X				X	9/26/25	
23	NW 9	C	1			X				X	9/26/25	
24	EW 3	C	1			X				X	9/26/25	
25	EW 4	C	1			X				X	9/26/25	
26	EW 5	C	1			X				X	9/26/25	
27	SW 7	C	1			X				X	9/26/25	

Chloride

TPH (8015M)

BTEX (8021B)

USE 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 services. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:

Date:

Time:

Date:

Time:

Received By:

Received By:

Verbal Result: ☐ Yes ☐ No Add'l Phone #:

All Results are emailed. Please provide Email address:

pm@etechenv.com

REMARKS:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Observed Temp. °C

Corrected Temp. °C

Sample Condition

Cool Intact

☐ Yes ☐ Yes

☐ No ☐ No

CHECKED BY:

(Initials)

Turnaround Time:

Standard

Rush

☒

Bacteria (only) Sample Condition

Cool Intact

☐ Yes ☐ Yes

☐ No ☐ No

Observed Temp. °C

Corrected Temp. °C

Thermometer ID #140

Correction Factor -0.6°C

+0.3°C





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

August 21, 2024

ROBBIE RUNNELS

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: WOODY 22 FED COM CTB 1

Enclosed are the results of analyses for samples received by the laboratory on 08/19/24 14:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	08/19/2024	Sampling Date:	08/16/2024
Reported:	08/21/2024	Sampling Type:	Soil
Project Name:	WOODY 22 FED COM CTB 1	Sampling Condition:	Cool & Intact
Project Number:	20204	Sample Received By:	Alyssa Parras
Project Location:	32.55729, -103.44071		

**Sample ID: SIMS RANCH PIT (H245023-01)**

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	08/21/2024	ND	2.07	103	2.00	2.29		
Toluene*	<0.050	0.050	08/21/2024	ND	1.92	96.2	2.00	3.73		
Ethylbenzene*	<0.050	0.050	08/21/2024	ND	2.02	101	2.00	5.89		
Total Xylenes*	<0.150	0.150	08/21/2024	ND	6.30	105	6.00	6.51		
Total BTEX	<0.300	0.300	08/21/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	08/21/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/20/2024	ND	226	113	200	0.562	
DRO >C10-C28*	<10.0	10.0	08/20/2024	ND	210	105	200	1.26	
EXT DRO >C28-C36	<10.0	10.0	08/20/2024	ND					

Surrogate: 1-Chlorooctane 66.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.9 % 49.1-148

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



---

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### Notes and Definitions

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

---

Cardinal Laboratories

\*=Accredited Analyte

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

---

Celey D. Keene, Lab Director/Quality Manager





# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Page 1 of 1

Page 4 of 4

Company Name: Etech Environmental & Safety Solutions, Inc.

Project Manager: Robbie Runnels

Address: 2617 West Marland

City: Hobbs

State: NM Zip: 88240

Phone #: (575) 264-9884

Fax #:

Project #: 20204

Project Owner: Permian Resources

Project Name: Woody 22 Fed Com CTB 1

Project Location: 32.55729, -103.44071

Sampler Name: Tania Felts

## BILL TO

P.O. #:

Company: Permian Resources

Attn: Montgomery Floyd

Address:

City:

State: Zip:

Phone #:

Fax #:

## ANALYSIS REQUEST

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

(G)RAB OR (C)OMP.

# CONTAINERS

### MATRIX

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER:

ACID/BASE:

ICE / COOL

OTHER:

✓  
X

X

### PRESERV. SAMPLING

DATE

TIME

8/16/24

Chloride

TPH (8015M)

BTEX (8021B)

X

X

X

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:

*[Signature]*

Relinquished By:

*[Signature]*

*[Signature]*

*[Signature]*

*[Signature]*

*[Signature]*

*[Signature]*

*[Signature]*

*[Signature]*

*[Signature]*

Date:

8/19/24

Time:

1445

Date:

*[Signature]*

*[Signature]*

*[Signature]*

*[Signature]*

*[Signature]*

*[Signature]*

*[Signature]*

*[Signature]*

Received By:

*[Signature]*

*[Signature]*

*[Signature]*

*[Signature]*

*[Signature]*

*[Signature]*

*[Signature]*

*[Signature]*

*[Signature]*

*[Signature]*

*[Signature]*

*[Signature]*

Verbal Result: ☐ Yes ☐ No

Add'l Phone #:

All Results are emailed. Please provide Email address:

[pm@etechenv.com](mailto:pm@etechenv.com)

REMARKS:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Observed Temp. °C

8.1

Corrected Temp. °C

8.7

Sample Condition

Cool Intact

☐ Yes ☒ Yes

☐ No ☐ No

CHECKED BY:

(Initials)

*[Signature]*

*[Signature]*

*[Signature]*

*[Signature]*

Turnaround Time:

Standard

Rush

Thermometer ID #140

Correction Factor -0.6°C

Bacteria (only) Sample Condition

Cool Intact Observed Temp. °C

☐ Yes ☐ Yes

☐ No ☐ No

☐ No ☐ No

☐ No ☐ No

FORM-006 R 3.5 08/05/24

† Cardinal cannot accept verbal changes. Please email changes to [celey.keene@cardinallabsnm.com](mailto:celey.keene@cardinallabsnm.com)

## **Appendix E**

### **Regulatory Correspondence**

Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

Online Phone Directory  
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS

Action 508078

**QUESTIONS**

Operator: 3R Operating, LLC 20405 State Highway 249 Houston, TX 77070	OGRID: 331569
	Action Number: 508078
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

**QUESTIONS**

Prerequisites	
Incident ID (n#)	nAPP2524528282
Incident Name	NAPP2524528282 IGLOO 19 24 STATE FED COM 15 - H-PUMP @ 30-025-46602
Incident Type	Oil Release
Incident Status	Notification Accepted
Incident Well	[30-025-46602] IGLOO 19 24 STATE FEDERAL COM #015H

Location of Release Source	
Site Name	Igloo 19 24 State Fed Com 15 - H-Pump
Date Release Discovered	08/29/2025
Surface Owner	Private

Sampling Event General Information	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	11,400
What is the estimated number of samples that will be gathered	65
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/25/2025
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Dominic Casarez, 432-813-1036
Please provide any information necessary for navigation to sampling site	32.555693 -103.495709

Sante Fe Main Office  
Phone: (505) 476-3441

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

CONDITIONS

Action 508078

CONDITIONS

Operator: 3R Operating, LLC 20405 State Highway 249 Houston, TX 77070	OGRID: 331569
	Action Number: 508078
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
atramell01	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	9/22/2025
atramell01	If confirmation sampling is going to take place over multiple days, individual C-141N applications must be submitted for each sampling date. Date ranges are not currently accepted on the C-141N application.	9/22/2025

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

QUESTIONS

Action 508082

**QUESTIONS**

Operator: 3R Operating, LLC 20405 State Highway 249 Houston, TX 77070	OGRID: 331569
	Action Number: 508082
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

**QUESTIONS**

Prerequisites	
Incident ID (n#)	nAPP2524528282
Incident Name	NAPP2524528282 IGLOO 19 24 STATE FED COM 15 - H-PUMP @ 30-025-46602
Incident Type	Oil Release
Incident Status	Notification Accepted
Incident Well	[30-025-46602] IGLOO 19 24 STATE FEDERAL COM #015H

Location of Release Source	
Site Name	Igloo 19 24 State Fed Com 15 - H-Pump
Date Release Discovered	08/29/2025
Surface Owner	Private

Sampling Event General Information	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	11,400
What is the estimated number of samples that will be gathered	65
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/26/2025
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Dominic Casarez, 432-813-1036
Please provide any information necessary for navigation to sampling site	32.555693 -103.495709



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

CONDITIONS

Action 508082

CONDITIONS

Operator: 3R Operating, LLC 20405 State Highway 249 Houston, TX 77070	OGRID: 331569
	Action Number: 508082
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
atramell01	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	9/22/2025
atramell01	If confirmation sampling is going to take place over multiple days, individual C-141N applications must be submitted for each sampling date. Date ranges are not currently accepted on the C-141N application.	9/22/2025

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

QUESTIONS

Action 508084

**QUESTIONS**

Operator: 3R Operating, LLC 20405 State Highway 249 Houston, TX 77070	OGRID: 331569
	Action Number: 508084
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

**QUESTIONS**

Prerequisites	
Incident ID (n#)	nAPP2524528282
Incident Name	NAPP2524528282 IGLOO 19 24 STATE FED COM 15 - H-PUMP @ 30-025-46602
Incident Type	Oil Release
Incident Status	Notification Accepted
Incident Well	[30-025-46602] IGLOO 19 24 STATE FEDERAL COM #015H

Location of Release Source	
Site Name	Igloo 19 24 State Fed Com 15 - H-Pump
Date Release Discovered	08/29/2025
Surface Owner	Private

Sampling Event General Information	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	11,400
What is the estimated number of samples that will be gathered	65
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/30/2025
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Dominic Casarez, 432-813-1036
Please provide any information necessary for navigation to sampling site	32.555693 -103.495709

Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

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

CONDITIONS

Action 508084

CONDITIONS

Operator: 3R Operating, LLC 20405 State Highway 249 Houston, TX 77070	OGRID: 331569
	Action Number: 508084
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
atramell01	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	9/22/2025
atramell01	If confirmation sampling is going to take place over multiple days, individual C-141N applications must be submitted for each sampling date. Date ranges are not currently accepted on the C-141N application.	9/22/2025

**From:** [Joel Lowry](#)  
**To:** [Wells, Shelly, EMNRD](#); [Ben Arguijo](#)  
**Cc:** [Matthew A. Grieco](#); [Tamarah Kendrick](#)  
**Subject:** RE: [EXTERNAL] RE: nAPP2524528282 Igloo 19 24 State Fed Com 15 - H-Pump  
**Date:** Friday, November 21, 2025 10:32:07 AM  
**Attachments:** [image002.png](#)  
[image003.png](#)  
[image004.png](#)  
[image005.png](#)  
[image006.png](#)  
[image007.png](#)  
[Igloo 19 24 - Chemistry Table.pdf](#)  
[H257080. ETECH.pdf](#)

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Shelly,

Pleasure speaking to you. My apologies. I was tied up in the field all day yesterday. As for your question, we went in and did some additional excavation by hand right up to the equipment after presenting the deferral request documentation that we had provided to the NMOCD to the landowner. It is our practice to collect deferral characterization samples that are representative of "worst case" impacts remaining in-situ (typically very shallow and right next to the equipment) and providing those to the agency and/or landowner, as necessary. In this case, the surface chloride concentrations were too high for everyone's comfort level so we went out with shovels and pick axes to take it down a little more after submitting the official Deferral Request to the NMOCD. After the hand excavation, the in-situ chloride concentrations decreased from 35,200 mg/kg at the surface to 6,800 mg/kg at 6 inches and were concurrent with background concentrations by 2 ft. bgs.

If it would help on your end, we can resubmit the Deferral Request with the updated data. It is also worth noting that we plan to drill a depth-to-groundwater determination well in the area, which I expect will bring the Site into compliance for closure. We also do not anticipate the H-Pump remaining in place much longer, at which point we will address any temporarily deferred impacts.

Thanks!



Respectfully,

Joel Lowry

---

**From:** Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>  
**Sent:** Friday, November 21, 2025 10:32 AM  
**To:** Ben Arguijo <ben@etechnv.com>  
**Cc:** Joel Lowry <joel@etechnv.com>; Matthew A. Grieco <matthewg@etechnv.com>; Lance Crenshaw <lance@etechnv.com>; Tamarah Kendrick <tamarah@etechnv.com>  
**Subject:** RE: [EXTERNAL] RE: nAPP2524528282 Igloo 19 24 State Fed Com 15 - H-Pump

Good morning Ben,

I have a followup question for you. When you say Etech returned to the site and excavated DEF 1 down by 6". How was this done? Was the equipment able to be moved? Was it the entire requested deferral area that was surface scraped?

Thank you,

Shelly

Shelly Wells \* Senior Environmental Scientist  
Environmental Bureau  
EMNRD-Oil Conservation Division  
1220 S. St. Francis Drive|Santa Fe, NM 87505  
(505)469-7520 [Shelly.Wells@emnrd.nm.gov](mailto:Shelly.Wells@emnrd.nm.gov)  
<http://www.emnrd.state.nm.us/OCD/>

---

**From:** Ben Arguijo <[ben@etechnv.com](mailto:ben@etechnv.com)>  
**Sent:** Thursday, November 20, 2025 4:03 PM  
**To:** Wells, Shelly, EMNRD <[Shelly.Wells@emnrd.nm.gov](mailto:Shelly.Wells@emnrd.nm.gov)>  
**Cc:** Joel Lowry <[joel@etechnv.com](mailto:joel@etechnv.com)>; Matthew A. Grieco <[matthewg@etechnv.com](mailto:matthewg@etechnv.com)>; Lance Crenshaw <[lance@etechnv.com](mailto:lance@etechnv.com)>; Tamarah Kendrick <[tamarah@etechnv.com](mailto:tamarah@etechnv.com)>  
**Subject:** [EXTERNAL] RE: nAPP2524528282 Igloo 19 24 State Fed Com 15 - H-Pump

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

Shelly,

Joel is out in the field today and asked me to respond to you.

You can see the equipment and appurtenances in a few pictures in the "Photographic Log" included in the report as Appendix C (see screenshots below). I've attached a few more (post-backfill) for your convenience.

Picture #1 (drone image):

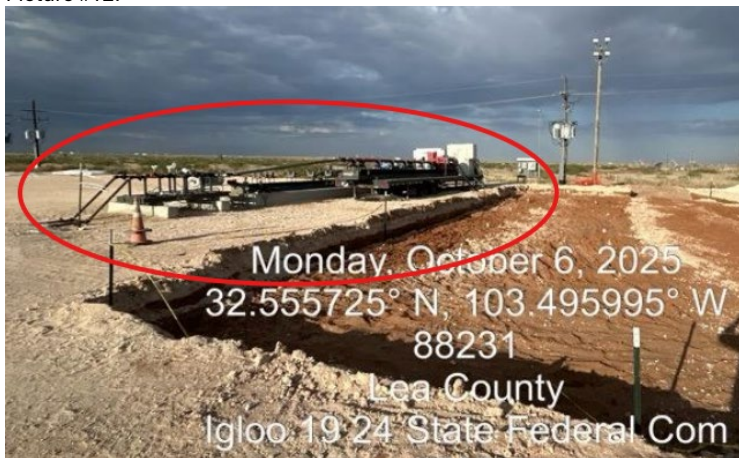




Picture #4:



Picture #12:



Picture #18 (post-backfill):



Based on Figure 3B, "Sample Location Map – Confirmation & Deferral," it doesn't look like either EW 5 or WW 5 included the area characterized by DEF 1. However, the adjacent composite floor samples FL 18, 20, 22, 24, and 26 were all collected at two feet bgs (i.e., the depth to be deferred), and at least a handful of the subcomposites from those samples (and possibly one from FL 28) would have been collected at floor level along the wall of the Deferral Area to ensure that we had it fully delineated.

Additionally, at the request of the landowner, Etech returned to the Site on 11/7/25 and excavated DEF 1 down to six inches bgs. A replacement deferral sample (DEF 1B @ 6") was then collected and submitted to the laboratory:

Deferral Soil Sample Results											
DEF 1 @ SUR	9/25/2025	0	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	35,200
DEF 1B @ 6"	11/7/2025	0.5	Deferred	<0.050	<0.300	<10.0	205	205	46.9	252	6,800
DEF 1 @ 1'	9/25/2025	1	Deferred	<0.050	<0.300	<10.0	195	195	26.6	222	5,920
DEF 1 @ 2'	9/25/2025	2	Deferred	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112

A lab report for DEF 1B @ 6" and an updated soil chemistry data table are attached. Joel or I will forward you a picture or two of the DEF 1 excavation when/if we receive some from the field guys.

Let me know if you have any more questions or need any additional information.

Thank you.

Respectfully,  
Ben J. Arguijo

**Ben J. Arguijo**  
Project Manager



6309 Indiana Ave., Ste. D  
Lubbock, TX 79413  
(432) 813-1592

---

**From:** Joel Lowry <[joel@etechenv.com](mailto:joel@etechenv.com)>  
**Sent:** Thursday, November 20, 2025 3:15 PM  
**To:** Ben Arguijo <[ben@etechenv.com](mailto:ben@etechenv.com)>; Matthew A. Grieco <[matthewg@etechenv.com](mailto:matthewg@etechenv.com)>; Lance Crenshaw <[lance@etechenv.com](mailto:lance@etechenv.com)>  
**Subject:** Fwd: nAPP2524528282 Igloo 19 24 State Fed Com 15 - H-Pump

Begin forwarded message:

**From:** "Wells, Shelly, EMNRD" <[Shelly.Wells@emnrd.nm.gov](mailto:Shelly.Wells@emnrd.nm.gov)>  
**Date:** November 20, 2025 at 1:58:01 PM MST  
**To:** Joel Lowry <[joel@etechenv.com](mailto:joel@etechenv.com)>  
**Subject:** nAPP2524528282 Igloo 19 24 State Fed Com 15 - H-Pump

Hi Joel,

I am reviewing the deferral request submitted for nAPP2524528282 Igloo 19 24 State Fed Com 15 - H-Pump and have some questions for you. Were either EW5 or WW5 collected along the DEF1 sidewall? In addition, can you provide a photo clearly showing all the "on-site equipment and appurtenances" (good word btw) that prohibit remediation taking place? I look forward to hearing back from you.

Kind regards,

Shelly

Shelly Wells \* Senior Environmental Scientist  
Environmental Bureau  
EMNRD-Oil Conservation Division

1220 S. St. Francis Drive|Santa Fe, NM 87505  
(505)469-7520 [Shelly.Wells@emnrd.nm.gov](mailto:Shelly.Wells@emnrd.nm.gov)  
<http://www.emnrd.state.nm.us/OCD/>

**Table 1**  
**Concentrations of BTEX, TPH, and Chloride in Soil**  
**3R Operating, LLC**  
**Igloo 19 24 State Federal Com #015H**  
**NMOCD Ref. #: nAPP2524528282**

NMOCD Closure Criteria				10	50	-	-	1,000	-	2,500	10,000
NMOCD Reclamation Standard				10	50	-	-	-	-	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C <sub>6</sub> -C <sub>10</sub> (mg/kg)	DRO C <sub>10</sub> -C <sub>28</sub> (mg/kg)	GRO + DRO C <sub>6</sub> -C <sub>28</sub> (mg/kg)	ORO C <sub>28</sub> -C <sub>36</sub> (mg/kg)	TPH C <sub>6</sub> -C <sub>36</sub> (mg/kg)	Chloride (mg/kg)
Delineation Soil Sample Results											
EH 1 @ SUR	9/8/2025	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
EH 1 @ SUR	9/25/2025	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
EH 1 @ 1'	9/25/2025	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
NH 1 @ SUR	9/8/2025	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
NH 1 @ SUR	9/25/2025	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
NH 1 @ 1'	9/25/2025	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
NH 2 @ SUR	9/8/2025	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
NH 3 @ SUR	9/8/2025	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SH 1 @ SUR	9/8/2025	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SH 1 @ SUR	9/25/2025	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SH 1 @ 1'	9/25/2025	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SH 2 @ SUR	9/8/2025	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SH 3 @ SUR	9/8/2025	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
WH 1 @ SUR	9/8/2025	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
WH 1 @ SUR	9/25/2025	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
WH 1 @ 1'	9/25/2025	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SP 1 @ SUR	9/8/2025	0	Excavated	<0.050	<0.300	<10.0	225	225	20.6	246	34,400
SP 1 @ 1'	9/8/2025	1	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	416
SP 2 @ SUR	9/8/2025	0	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,740
SP 2 @ 1'	9/8/2025	1	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
SP 3 @ SUR	9/8/2025	0	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	4,240
SP 3 @ 1'	9/8/2025	1	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
SP 4 @ SUR	9/8/2025	0	Excavated	<0.050	<0.300	<10.0	14.0	14.0	<10.0	14.0	10,400
SP 4 @ 1'	9/8/2025	1	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
SP 5 @ SUR	9/8/2025	0	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	416
SP 5 @ 5'	9/8/2025	5	In-Situ	<0.050	<0.300	<10.0	29.9	29.9	<10.0	29.9	896
SP 6 @ SUR	9/8/2025	0	Excavated	<0.500	160	2,980	13,100	16,100	1,830	17,900	<16.0
SP 6 @ 5'	9/8/2025	5	In-Situ	<0.050	<0.300	<10.0	61.7	61.7	<10.0	61.7	<16.0
SP 7 @ SUR	9/8/2025	0	Excavated	<0.500	113	2,870	24,600	27,500	3,840	31,300	32.0
SP 7 @ 5'	9/8/2025	5	In-Situ	<0.050	2.92	43.1	481	524	89.5	614	32.0
Confirmation Soil Sample Results											
FL 1 @ 5'	9/25/2025	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 2 @ 5'	9/25/2025	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 3 @ 5'	9/25/2025	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL 4 @ 5'	9/25/2025	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL 5 @ 5'	9/25/2025	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 6 @ 5'	9/25/2025	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL 7 @ 5'	9/25/2025	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 8 @ 5'	9/25/2025	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 9 @ 5'	9/25/2025	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
FL 10 @ 5'	9/25/2025	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 11 @ 8'	9/25/2025	8	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 12 @ 5'	9/25/2025	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0

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

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

Red Border with Shading: Highest observed concentration.

**Table 1**  
**Concentrations of BTEX, TPH, and Chloride in Soil**  
**3R Operating, LLC**  
**Igloo 19 24 State Federal Com #015H**  
**NMOCD Ref. #: nAPP2524528282**

NMOCD Closure Criteria				10	50	-	-	1,000	-	2,500	10,000
NMOCD Reclamation Standard				10	50	-	-	-	-	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C <sub>6</sub> -C <sub>10</sub> (mg/kg)	DRO C <sub>10</sub> -C <sub>28</sub> (mg/kg)	GRO + DRO C <sub>6</sub> -C <sub>28</sub> (mg/kg)	ORO C <sub>28</sub> -C <sub>36</sub> (mg/kg)	TPH C <sub>6</sub> -C <sub>36</sub> (mg/kg)	Chloride (mg/kg)
FL 13 @ 5'	9/25/2025	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 14 @ 5'	9/25/2025	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL 15 @ 5'	9/25/2025	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 16 @ 5'	9/25/2025	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL 17 @ 4'	9/25/2025	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL 18 @ 2'	9/25/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL 19 @ 2'	9/25/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 20 @ 2'	9/25/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 21 @ 2'	9/25/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL 22 @ 2'	9/25/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL 23 @ 2'	9/25/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL 24 @ 2'	9/25/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL 25 @ 2'	9/25/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL 26 @ 2'	9/26/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 27 @ 2'	9/26/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 28 @ 2'	9/26/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL 29 @ 2'	9/26/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 30 @ 2'	9/26/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 31 @ 2'	9/26/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 32 @ 2'	9/26/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 33 @ 2'	9/26/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 34 @ 2'	9/26/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 35 @ 2'	9/26/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 36 @ 2'	9/26/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 37 @ 2'	9/26/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 38 @ 2'	9/26/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 39 @ 2'	9/26/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 40 @ 2'	9/26/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 41 @ 2'	9/26/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 42 @ 2'	9/26/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 43 @ 2'	9/26/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 44 @ 2'	9/26/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 45 @ 2'	9/26/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
EW 1	9/25/2025	0-5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
EW 2	9/25/2025	0-5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
EW 3	9/26/2025	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
EW 4	9/26/2025	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
EW 5	9/26/2025	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
NW 1	9/25/2025	0-5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
NW 2	9/25/2025	0-5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
NW 3	9/25/2025	0-5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
NW 4	9/25/2025	0-5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
NW 5	9/25/2025	0-5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
NW 6	9/25/2025	0-5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0

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

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

Red Border with Shading: Highest observed concentration.



<b>Table 1</b> <b>Concentrations of BTEX, TPH, and Chloride in Soil</b> <b>3R Operating, LLC</b> <b>Igloo 19 24 State Federal Com #015H</b> <b>NMOCD Ref. #: nAPP2524528282</b>											
NMOCD Closure Criteria				10	50	-	-	1,000	-	2,500	10,000
NMOCD Reclamation Standard				10	50	-	-	-	-	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C <sub>6</sub> -C <sub>10</sub> (mg/kg)	DRO C <sub>10</sub> -C <sub>28</sub> (mg/kg)	GRO + DRO C <sub>6</sub> -C <sub>28</sub> (mg/kg)	ORO C <sub>28</sub> -C <sub>36</sub> (mg/kg)	TPH C <sub>6</sub> -C <sub>36</sub> (mg/kg)	Chloride (mg/kg)
NW 7	9/26/2025	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
NW 8	9/26/2025	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
NW 9	9/26/2025	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SW 1	9/25/2025	0-5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SW 2	9/25/2025	0-5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SW 3	9/25/2025	0-5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SW 4	9/25/2025	0-8	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SW 5	9/25/2025	0-5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SW 6	9/25/2025	0-5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SW 7	9/26/2025	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
WW 1	9/25/2025	0-5	In-Situ	<0.050	<0.300	<10.0	11.0	11.0	<10.0	11.0	48.0
WW 2	9/25/2025	0-8	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
WW 3	9/25/2025	0-5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
WW 4	9/25/2025	0-5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
WW 5	9/25/2025	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
Deferral Soil Sample Results											
DEF 1 @ SUR	9/25/2025	0	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	35,200
DEF 1B @ 6"	11/7/2025	0.5	Deferred	<0.050	<0.300	<10.0	205	205	46.9	252	6,800
DEF 1 @ 1'	9/25/2025	1	Deferred	<0.050	<0.300	<10.0	195	195	26.6	222	5,920
DEF 1 @ 2'	9/25/2025	2	Deferred	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
Backfill Soil Sample Results											
Sims Ranch Pit	8/16/2024	N/A	Backfill	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0

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

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

Red Border with Shading: Highest observed concentration.



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

November 14, 2025

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: IGLOO 19 24 STATE FEDERAL COM #015H

Enclosed are the results of analyses for samples received by the laboratory on 11/10/25 14:52.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celely D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	11/10/2025	Sampling Date:	11/07/2025
Reported:	11/14/2025	Sampling Type:	Soil
Project Name:	IGLOO 19 24 STATE FEDERAL COM #01!	Sampling Condition:	Cool & Intact
Project Number:	22882	Sample Received By:	Alyssa Parras
Project Location:	3R OPERATING 32.555693-103.495709		

**Sample ID: DEF 1B @ 6" (H257080-01)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/12/2025	ND	2.23	112	2.00	5.14		
Toluene*	<0.050	0.050	11/12/2025	ND	2.15	107	2.00	1.30		
Ethylbenzene*	<0.050	0.050	11/12/2025	ND	2.26	113	2.00	1.43		
Total Xylenes*	<0.150	0.150	11/12/2025	ND	7.09	118	6.00	1.53		
Total BTX	<0.300	0.300	11/12/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6800	16.0	11/11/2025	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	11/11/2025	ND	212	106	200	2.73	
DRO >C10-C28*	205	10.0	11/11/2025	ND	227	114	200	2.30	
EXT DRO >C28-C36	46.9	10.0	11/11/2025	ND					

Surrogate: 1-Chlorooctane 109 % 52.4-130

Surrogate: 1-Chlorooctadecane 121 % 39.9-141

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

---

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Page 1 of 1

Company Name: Etech Environmental & Safety Solutions, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>															
Project Manager: Joel Lowry				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>															
Address: 2617 West Marland				Company: Etech																			
City: Hobbs State: NM Zip: 88240				Attn: Joel Lowry																			
Phone #: (575) 264-9884 Fax #:				Address:																			
Project #: 22882 Project Owner: 3R Operating, LLC				City:																			
Project Name: Igloo 19 24 State Federal Com #015H				State: Zip:																			
Project Location: 32.555693, -103.495709				Phone #:																			
Sampler Name: Dominic Casarez				Fax #:																			
FOR LAB USE ONLY																							
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX		PRESERV.		SAMPLING											
				GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER:		ACID/BASE:		ICE / COOL		OTHER:		DATE	
425-7080		DEF 1B @ 6"		G		1		X								X		11/7/25					

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: <i>[Signature]</i>		Date: 11-10-25		Received By: <i>[Signature]</i>		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
Time: 1452		Date: 11-10-25		Received By: <i>[Signature]</i>		All Results are emailed. Please provide Email address: <a href="mailto:pm@etechenv.com">pm@etechenv.com</a>	
Relinquished By:		Date:		Received By:		REMARKS:	
Time:							
Delivered By: (Circle One)		Observed Temp. °C -2.7		Sample Condition Cool Intact		CHECKED BY: (Initials) <i>[Signature]</i>	
Sampler - UPS - Bus - Other:		Corrected Temp. °C -2.4		<input type="checkbox"/> Yes <input type="checkbox"/> No		Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>	
				<input type="checkbox"/> Yes <input type="checkbox"/> No		Thermometer ID #140 Correction Factor -0.6°C +0.3	
				<input type="checkbox"/> Yes <input type="checkbox"/> No		Bacteria (only) Sample Condition Cool Intact Observed Temp. °C	
				<input type="checkbox"/> Yes <input type="checkbox"/> No		Corrected Temp. °C	



Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

Online Phone Directory  
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS

Action 520487

**QUESTIONS**

Operator: 3R Operating, LLC 20405 State Highway 249 Houston, TX 77070	OGRID: 331569
	Action Number: 520487
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nAPP2524528282
Incident Name	NAPP2524528282 IGLOO 19 24 STATE FED COM 15 - H-PUMP @ 30-025-46602
Incident Type	Oil Release
Incident Status	Deferral Request Received
Incident Well	[30-025-46602] IGLOO 19 24 STATE FEDERAL COM #015H

**Location of Release Source**

Please answer all the questions in this group.

Site Name	Igloo 19 24 State Fed Com 15 - H-Pump
Date Release Discovered	08/29/2025
Surface Owner	Private

**Incident Details**

Please answer all the questions in this group.

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

**Nature and Volume of Release**

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.

Crude Oil Released (bbls) Details	Cause: Equipment Failure   Pump   Crude Oil   Released: 73 BBL   Recovered: 15 BBL   Lost: 58 BBL.
Produced Water Released (bbls) Details	Cause: Equipment Failure   Pump   Produced Water   Released: 15 BBL   Recovered: 0 BBL   Lost: 15 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

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

QUESTIONS, Page 2

Action 520487

**QUESTIONS (continued)**

Operator: 3R Operating, LLC 20405 State Highway 249 Houston, TX 77070	OGRID: 331569
	Action Number: 520487
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

**Initial Response**

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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

I hereby agree and sign off to the above statement	Name: Austin Trammell Title: Director of environmental and regulatory Email: atrammell@3roperating.com Date: 10/28/2025
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**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

QUESTIONS, Page 3

Action 520487

**QUESTIONS (continued)**

Operator: 3R Operating, LLC 20405 State Highway 249 Houston, TX 77070	OGRID:
	331569
	Action Number: 520487
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

**QUESTIONS****Site Characterization**

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 51 and 75 (ft.)
What method was used to determine the depth to ground water	Attached Document
Did this release impact groundwater or surface water	No
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between ½ and 1 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between ½ and 1 (mi.)
Any other fresh water well or spring	Between ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between ½ and 1 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between ½ and 1 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

**Remediation Plan**

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

**Soil Contamination Sampling:** (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride (EPA 300.0 or SM4500 Cl B)	35200
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	31300
GRO+DRO (EPA SW-846 Method 8015M)	27500
BTEX (EPA SW-846 Method 8021B or 8260B)	160
Benzene (EPA SW-846 Method 8021B or 8260B)	0

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

On what estimated date will the remediation commence	09/19/2025
On what date will (or did) the final sampling or liner inspection occur	09/26/2025
On what date will (or was) the remediation complete(d)	10/08/2025
What is the estimated surface area (in square feet) that will be reclaimed	11330
What is the estimated volume (in cubic yards) that will be reclaimed	1679
What is the estimated surface area (in square feet) that will be remediated	10415
What is the estimated volume (in cubic yards) that will be remediated	1226

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

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

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QUESTIONS, Page 4

Action 520487

**QUESTIONS (continued)**

Operator: 3R Operating, LLC 20405 State Highway 249 Houston, TX 77070	OGRID:	331569
	Action Number:	520487
	Action Type:	[C-141] Deferral Request C-141 (C-141-v-Deferral)

**QUESTIONS**

<b>Remediation Plan (continued)</b>	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
<b>This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:</b>	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for <b>off-site</b> disposal	fEEM0112338393 GANDY MARLEY LANDFARM/LANDFILL
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Austin Tramell Title: Director of environmental and regulatory Email: atramell@3roperating.com Date: 10/30/2025
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 520487

**QUESTIONS (continued)**

Operator: 3R Operating, LLC 20405 State Highway 249 Houston, TX 77070	OGRID: 331569
	Action Number: 520487
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

**QUESTIONS**

<b>Deferral Requests Only</b>	
<i>Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.</i>	
Requesting a deferral of the remediation closure due date with the approval of this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Is the remaining contamination in areas immediately under or around production equipment where remediation could cause a major facility deconstruction	Yes
Please list or describe the production equipment and how (re)moving the equipment would cause major facility deconstruction	H-Pump and electrical equipment would have to be disconnected and removed.
What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted	915
What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted	453
<i>Per Paragraph (2) of Subsection C of 19.15.29.12 NMAC if contamination is located in areas immediately under or around production equipment such as production tanks, wellheads and pipelines where remediation could cause a major facility deconstruction, the remediation, restoration and reclamation may be deferred with division written approval until the equipment is removed during other operations, or when the well or facility is plugged or abandoned, whichever comes first.</i>	
Enter the facility ID (f#) on which this deferral should be granted	Not answered.
Enter the well API (30-) on which this deferral should be granted	30-025-46602 IGLOO 19 24 STATE FEDERAL COM #015H
Contamination does not cause an imminent risk to human health, the environment, or groundwater	True
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Austin Trammell Title: Director of environmental and regulatory Email: atrammell@3roperating.com Date: 10/30/2025



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QUESTIONS, Page 6

Action 520487

**QUESTIONS (continued)**

Operator: 3R Operating, LLC 20405 State Highway 249 Houston, TX 77070	OGRID: 331569
	Action Number: 520487
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

**QUESTIONS**

Sampling Event Information	
Last sampling notification (C-141N) recorded	508084
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/30/2025
What was the (estimated) number of samples that were to be gathered	65
What was the sampling surface area in square feet	11400

**Remediation Closure Request**

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

Requesting a remediation closure approval with this submission	No
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CONDITIONS

Action 520487

CONDITIONS

Operator:  3R Operating, LLC 20405 State Highway 249 Houston, TX 77070	OGRID:  331569
	Action Number:  520487
	Action Type:  [C-141] Deferral Request C-141 (C-141-v-Deferral)

CONDITIONS

Created By	Condition	Condition Date
scwells	Deferral approved. Deferral of DEF 1 is approved until plugging and abandonment or a major facility deconstruction, whichever comes first. A complete and accurate remediation report and/or reclamation report will need to be submitted at that time.	11/21/2025