

Incident ID	NAPP2227234168
District RP	
Facility ID	
Application ID	

## Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>180.0</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

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

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

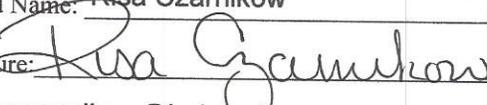
Form C-141

State of New Mexico  
Oil Conservation Division

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

Printed Name: Risa Czarnikow Title: Production Tech  
 Signature:  Date: 3-29-23  
 email: rczarnikow@helmsoil.com Telephone: (432) 688-3727

**OCD Only**

Received by: Jocelyn Harimon Date: 03/30/2023

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Oil Conservation Division

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### Closure

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

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

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

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

Printed Name: Risa Czarnikow Title: Production Tech  
 Signature: *Risa Czarnikow* Date: 3-29-23  
 email: rczarnikow@helmsoil.com Telephone: (432) 688-3727

**OCD Only**

Received by: Jocelyn Harimon Date: 03/30/2023

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

Closure Approved by: *Jennifer Nobui* Date: 05/04/2023  
 Printed Name: Jennifer Nobui Title: Environmental Specialist A

# Amended Remediation Summary and Soil Closure Request

## H.L. Brown Operating, LLC Federal H 002

Roosevelt County, New Mexico  
Unit Letter A, Section 5, Township 8 South, Range 37 East  
Latitude 33.655631 North, Longitude 103.169055 West  
NMOCD Reference No. nAPP2227234168

Prepared By:

**Etech Environmental & Safety Solutions, Inc.**  
2617 W. Marland  
Hobbs, New Mexico 88240



Zach Conder



Ben J. Arguijo



Midland • San Antonio • Lubbock • Hobbs • Lafayette

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### 1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of H.L. Brown Operating, LLC, has prepared this Amended Remediation Summary and Soil Closure Request for the release site known as the Federal H 002 (henceforth, "Site"). Details of the release are summarized below:

#### Location of Release Source

Latitude: 33.655631 Longitude: -103.169055  
 Provided GPS are in WGS84 format.

Site Name:	Federal H 002	Site Type:	Well Head
Date Release Discovered:	9/7/2022	API # (if applicable):	30-041-20934

Unit Letter	Section	Township	Range	County
A	5	8S	37E	Roosevelt

Surface Owner:  State  Federal  Tribal  Private (Name KIZER MACK LIFE ESTATE)

#### Nature and Volume of Release

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls)	5 bbls	Volume Recovered (bbls)	0 bbls
<input type="checkbox"/> Produced Water	Volume Released (bbls)		Volume Recovered (bbls)	
	Is the concentration of total dissolved solids (TDS) in the produced water > 10,000 mg/L?	<input 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:  
 Unknown. Historical release found during site inspection.

#### Initial Response

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

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

## 2.0 SITE CHARACTERIZATION

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

What is the shallowest depth to groundwater beneath the area affected by the release?	180 Feet	
Did the release impact groundwater or surface water?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of any occupied permanent residence, school, hospital, institution or church?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
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Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production or storage site?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

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

## 3.0 CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE

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

Probable Depth to Groundwater	Constituent	Method	Closure Criteria	Reclamation Standard*
180 Feet	Chloride	EPA 300.0 or SM4500 Cl B	20,000 mg/kg	600 mg/kg
	TPH (GRO + DRO + MRO)	EPA SW-846 Method 8015M Ext	2,500 mg/kg	100 mg/kg
	DRO + GRO	EPA SW-846 Method 8015M	1,000 mg/kg	-
	BTEX	EPA SW-846 Methods 8021b or 8260b	50 mg/kg	50 mg/kg
	Benzene	EPA SW-846 Methods 8021b or 8260b	10 mg/kg	10 mg/kg

\* The NMOCD Reclamation Standard applies only to the top 4' of soil in non-production areas.

## **4.0 REMEDIATION ACTIVITIES SUMMARY**

On November 7, 2022, remediation activities commenced at the Site. In accordance with NMOCD regulations, impacted soil affected above the NMOCD Closure Criteria was excavated and stockpiled on-site, pending transfer to an NMOCD-approved surface waste facility for disposal. The floor and sidewalls of the excavation were advanced until field observations and test results suggested BTEX, TPH, and chloride concentrations were below the NMOCD Closure Criteria.

Upon excavating impacted soil affected above the NMOCD Closure Criteria, Etech collected eighteen (18) confirmation soil samples. The collected soil samples were submitted to a certified, commercial laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the NMOCD Closure Criteria in all of the submitted soil samples.

In addition, Etech collected eight (8) horizontal delineation soil samples representative of each cardinal direction in an effort to further characterize the horizontal extent of the release. The collected soil samples were submitted to a certified, commercial laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the NMOCD Closure Criteria and NMOCD Reclamation standard in all of the submitted soil samples.

Site and sample location maps are provided as Figure 3A and Figure 3B. A soil chemistry table is provided as Table 1. Field data and soil profile logs are provided as Appendix B. Laboratory analytical reports are provided as Appendix C.

The final dimensions of the excavated areas ranged from ten (10) to thirty (30) feet in length, four (4) to twenty (20) feet in width and two (2) to four (4) feet in depth. During the course of remediation activities, approximately one hundred and forty (140) cubic yards of impacted soil were transported to an NMOCD-approved surface waste facility for disposal.

## **5.0 RESTORATION, RECLAMATION, AND RE-VEGETATION PLAN**

Upon receiving laboratory analytical results from confirmation soil samples, excavated areas were backfilled with locally sourced, non-impacted "like" material placed at or near original relative positions. The affected area was compacted and contoured to achieve erosion control, stability, and preservation of surface water flow, to the extent practicable. Re-vegetation at the site will not be necessary due to the fact all affected areas were on the production pad.

## **6.0 SOIL CLOSURE REQUEST**

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

Based on laboratory analytical results and field activities conducted to date, Etech recommends H.L. Brown Operating, LLC, provide copies of this Amended Remediation Summary and Soil Closure Request to the appropriate agencies and request closure be granted to the Federal H 002 Site.

## **7.0 LIMITATIONS**

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

This report has been prepared for the benefit of H.L. Brown Operating, LLC. Use of the information contained in this report is prohibited without the consent of Etech and/or H.L. Brown Operating, LLC.

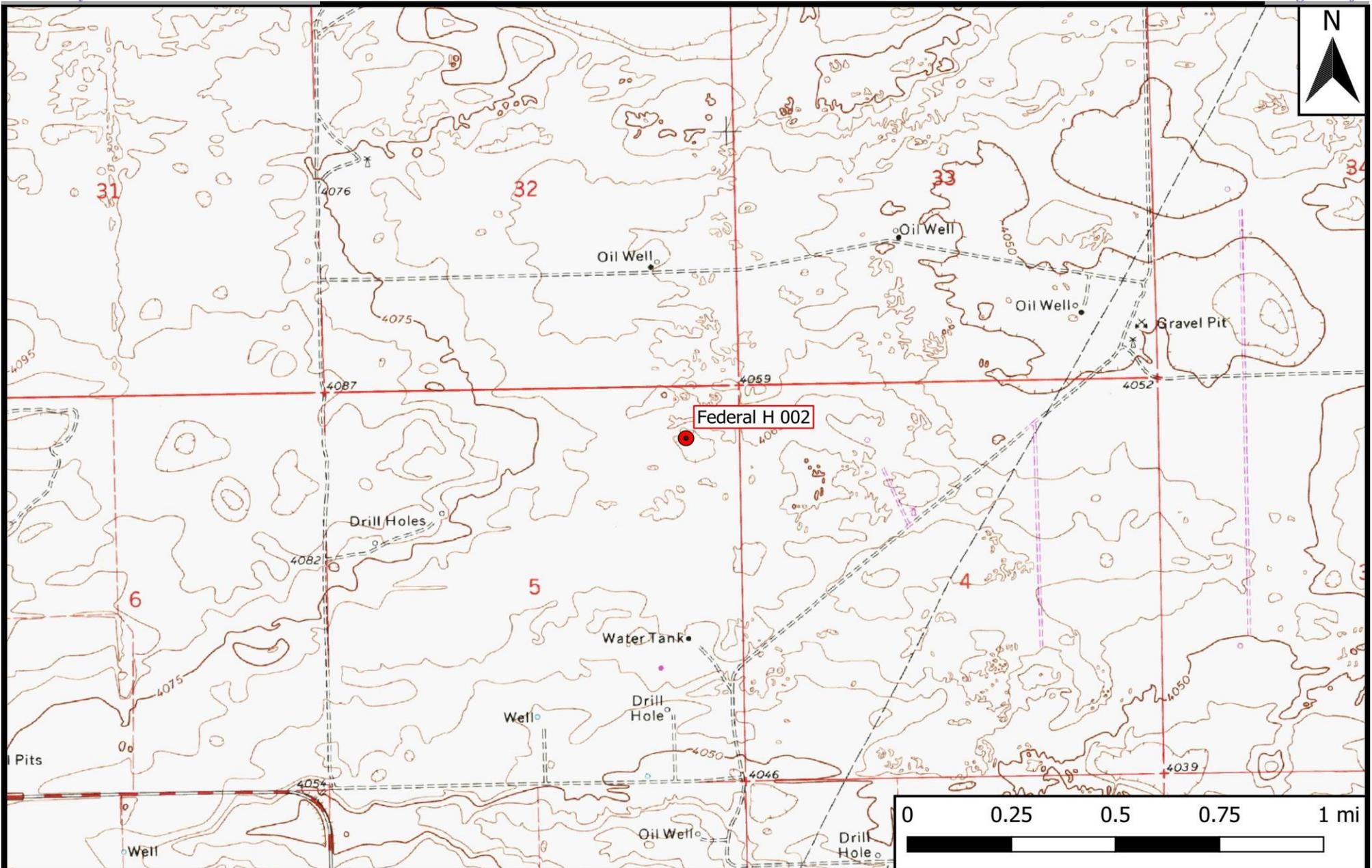
## **8.0 DISTRIBUTION**

***H.L. Brown Operating, LLC***  
*300 West Louisiana*  
*Midland, TX 79702-2237*

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

*(Electronic Submission)*

# Figure 1 Topographic Map



**Legend**

- Site Location

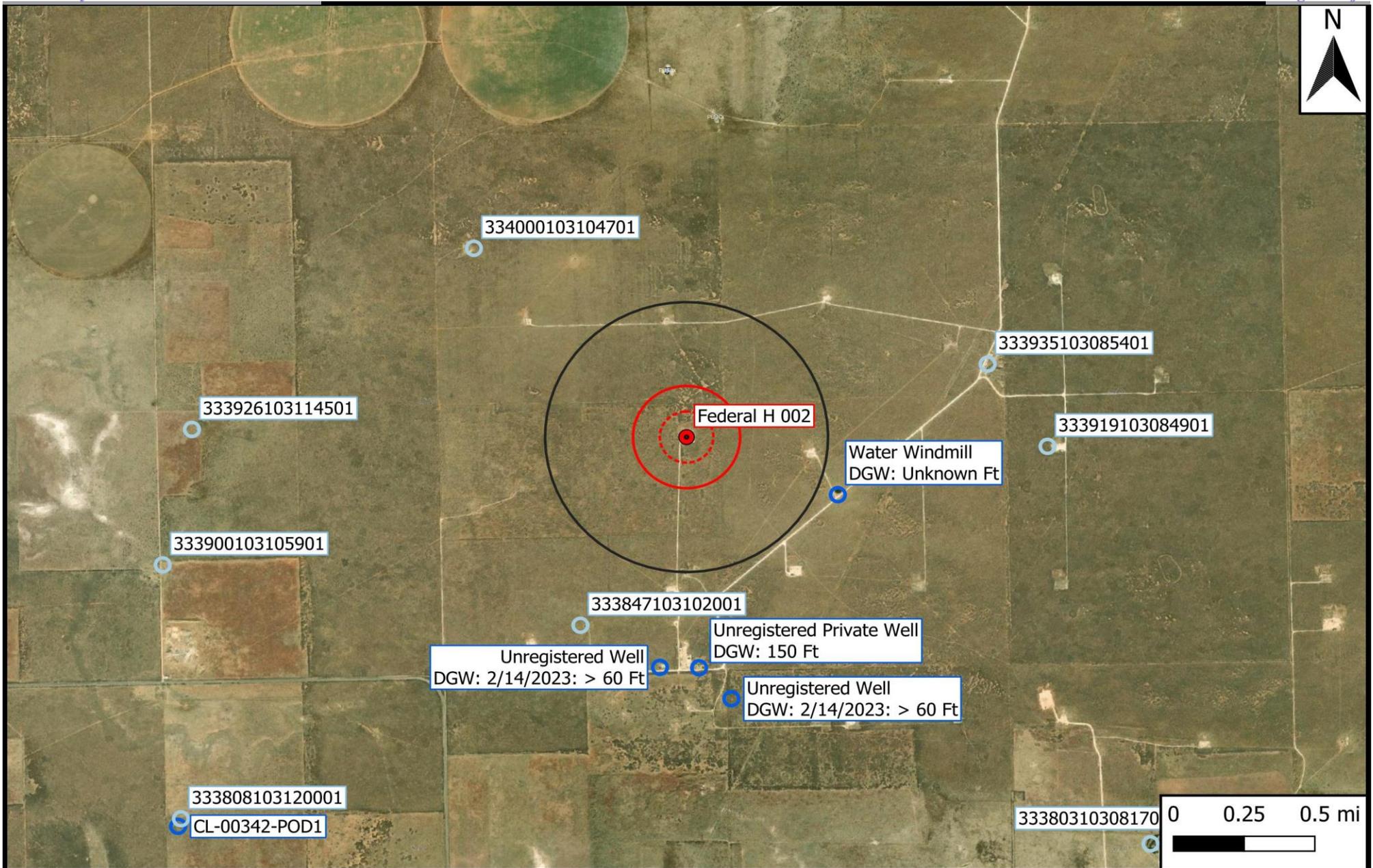
**Figure 1**  
 Topographic Map  
 H.L. Brown Operating, LLC  
 Federal H 002  
 GPS: 33.655631, -103.169055  
 Roosevelt County

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

Drafted: mag    Checked: jk    Date: 3/17/23

## **Figure 2**

### **Aerial Proximity Map**



Legend	
	Site Location
	Well - NMOSE
	Well - USGS
	Potash Mine Workings
	Medium/High Karst
	500 Ft Radius
	1000 Ft Radius
	0.5 Mi Radius
	1% Annual Flood Chance
	Lake/Freshwater Pond
	Emergent/Forested Wetlands
	Riverine

**Figure 2**  
 Aerial Proximity Map  
 H.L. Brown Operating, LLC  
 Federal H 002  
 GPS: 33.655631, -103.169055  
 Roosevelt County

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

Drafted: mag      Checked: jk      Date: 3/17/23

**Figure 3A and Figure 3B  
Site and Sample Location Map**



Google Earth

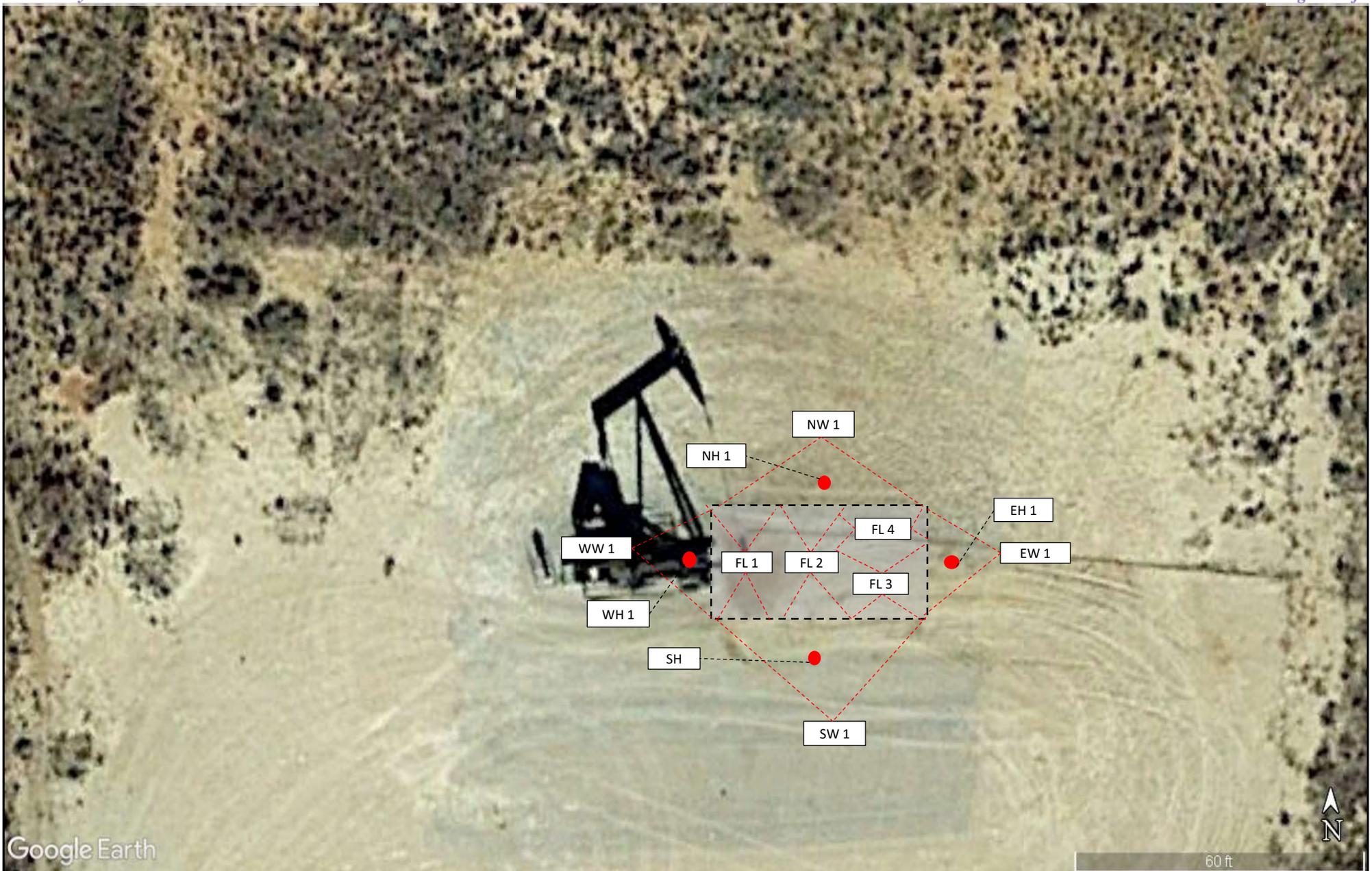
**Legend:**

	Confirmation Sample Location
	Horizontal Delineation Sample Point
	Excavated Area

**Figure 3A**  
 Site and Sample Location Map - Tank Battery  
 H.L. Brown Operating, LLC  
 Federal H 002  
 GPS: 33.647478, -103.170198  
 Roosevelt County


  
**Environmental & Safety Solutions, Inc.**

Drafted: \_\_\_\_\_ Checked: jwl Date: 1/17/23



Google Earth

**Legend:**

- Confirmation Sample Location
- Horizontal Delineation Sample Point
- Excavated Area

**Figure 3B**  
 Site and Sample Location Map - Wellhead  
 H.L. Brown Operating, LLC  
 Federal H 002  
 GPS: 33.647478, -103.170198  
 Roosevelt County

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



Drafted:                      Checked: jwl                      Date: 1/17/23

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

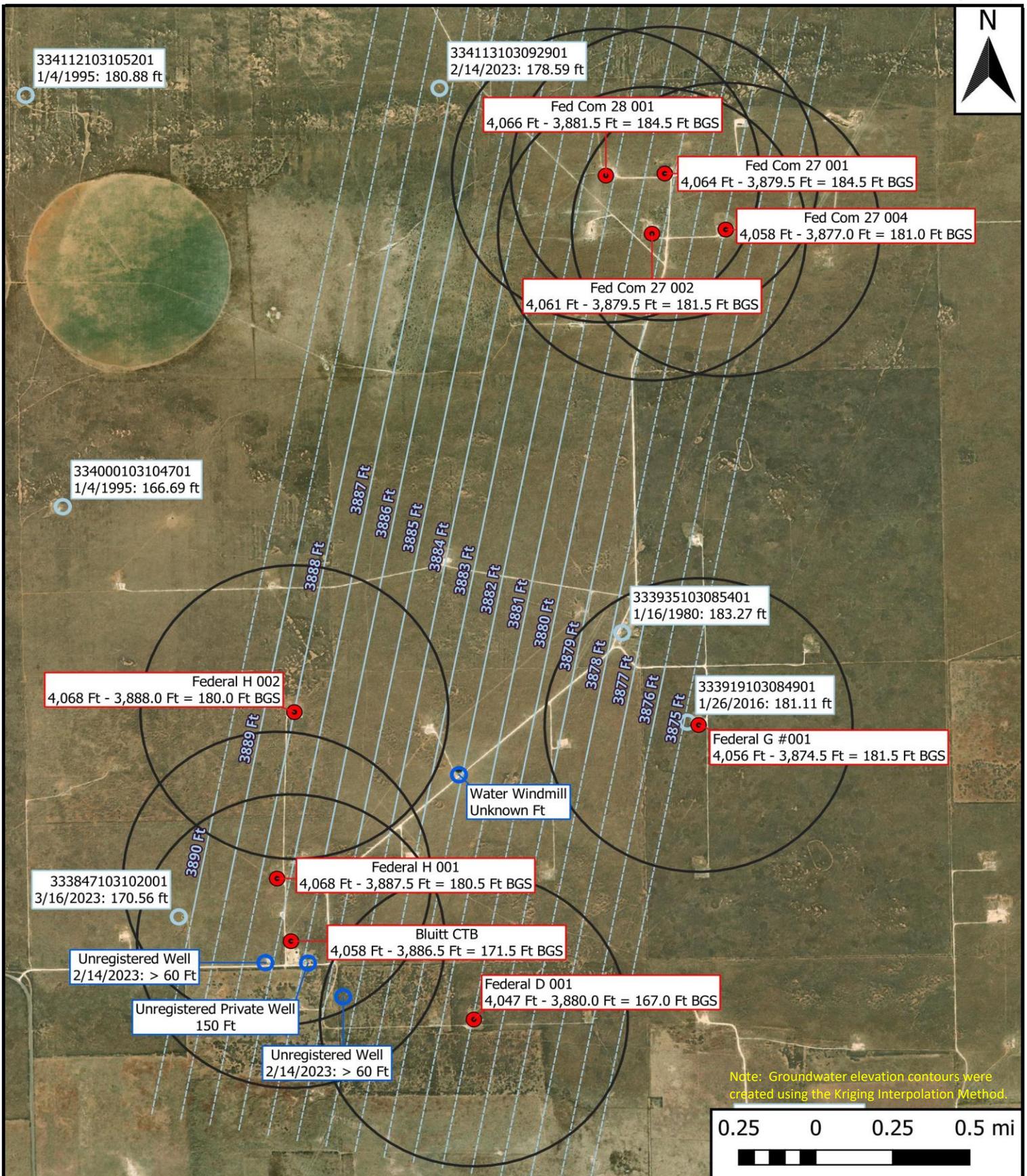
Table 1 Concentrations of BTEX, TPH, and Chloride in Soil H.L. Brown Operating, LLC Federal H 002 NMOCD Ref. #: nAPP2227234168											
NMOCD Closure Criteria				10	50	-	-	1,000	-	2,500	20,000
NMOCD Reclamation Standard				10	50	-	-	-	-	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		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)
EH 1 @ 1'	12/20/2022	1	In-Situ	<0.025	<0.150	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
EH 2 @ 1'	12/20/2022	1	In-Situ	<0.025	<0.150	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
NH 1 @ 1'	12/20/2022	1	In-Situ	<0.025	<0.150	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
NH 2 @ 1'	12/20/2022	1	In-Situ	<0.025	<0.150	<10.0	<10.0	<20.0	<10.0	<30.0	112
SH 1 @ 1'	12/20/2022	1	In-Situ	<0.025	<0.150	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SH 2 @ 1'	12/20/2022	1	In-Situ	<0.025	<0.150	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
WH 1 @ 1'	12/20/2022	1	In-Situ	<0.025	<0.150	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
WH 2 @ 1'	12/20/2022	1	In-Situ	<0.025	<0.150	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 1 @ 2'	11/7/2022	2	Excavated	<0.050	0.765	36.8	1,210	<b>1,250</b>	94.5	1,340	592
FL 1 @ 4'	11/22/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	-
FL 2 @ 3'	11/7/2022	3	Excavated	<0.050	1.85	108	3,340	<b>3,450</b>	427	<b>3,880</b>	768
FL 2 @ 4'	11/22/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	-
FL 3 @ 2'	11/7/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
FL 4 @ 2'	11/7/2022	2	Excavated	0.205	34.8	614	1,370	<b>1,980</b>	86.6	2,070	64.0
FL 4 @ 4'	11/22/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	-
FL 5 @ 2'	11/7/2022	2	In-Situ	<0.050	8.11	125	728	853	81.3	934	32.0
FL 6 @ 3'	11/22/2022	3	In-Situ	<0.050	<0.300	<10.0	31.5	31.5	<10.0	31.5	-
EW 1	11/7/2022	0-	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	768
EW 2	11/7/2022	0-	Excavated	0.449	46.6	1,020	15,900	<b>16,900</b>	1,930	<b>18,900</b>	80.0
EW 2 B	11/22/2022	0-	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	-
EW 3	11/7/2022	0-	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
NW 1	11/7/2022	0-	Excavated	<0.200	33.0	1,910	7,440	<b>9,350</b>	346	<b>9,700</b>	400
NW 1 B	11/22/2022	0-	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	-
NW 2	11/7/2022	0-	In-Situ	<0.050	<0.300	<10.0	201	201	36.7	238	160
NW 3	11/7/2022	0-	In-Situ	<0.050	<0.300	<10.0	12.6	12.6	<10.0	12.6	80.0
SW 1	11/7/2022	0-	Excavated	<0.500	<b>87.6</b>	1,360	6,300	<b>7,660</b>	655	<b>8,320</b>	592
SW 1 B	11/22/2022	0-	Excavated	<0.200	24.7	1,010	5,270	<b>6,280</b>	481	<b>6,760</b>	-
SW 1 C	12/7/2022	0-	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	-
SW 2	11/7/2022	0-	Excavated	2.55	<b>101</b>	1,650	5,540	<b>7,190</b>	544	<b>7,730</b>	32.0
SW 2 B	11/22/2022	0-	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	-
SW 3	11/7/2022	0-	Excavated	1.17	<b>162</b>	2,370	5,950	<b>8,320</b>	436	<b>8,760</b>	<16.0
SW 3 B	11/22/2022	0-	In-Situ	<0.050	21.6	61.2	223	284	13.1	297	-
WW 1	11/7/2022	0-	Excavated	<0.050	<0.300	<50.0	1,330	<b>1,330</b>	298	1,630	672
WW 1 B	11/22/2022	0-	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	-
WW 2	11/7/2022	0-	In-Situ	<0.050	0.321	<10.0	73.2	73.2	<10.0	73.2	112
WW 3	11/7/2022	0-	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0

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

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

# Appendix A

## Depth to Groundwater Information



- Site Location
- Half Mile Radius
- Well - USGS
- Well - Other
- Groundwater Contours (Ft MSL)
- Extended Groundwater Contours

**HL Brown Sites**  
 Inferred Depth to Groundwater Map  
 H.L. Brown Operating, LLC

Map GPS: 33.66350422, -103.15426221  
 Roosevelt County, NM

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

Drafted: mag  
 Checked: jwl Date: 3/17/23













# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD Number	POD Code	Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
<a href="#">CL 00342 POD1</a>	CL	RO		1	1	3	07	08S	37E	666880	3723166	3136	101		

Average Depth to Water: --

Minimum Depth: --

Maximum Depth: --

**Record Count:** 1

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

**Easting (X):** 669684.3

**Northing (Y):** 3724571.76

**Radius:** 3220

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

10/13/22 10:25 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER



# New Mexico Office of the State Engineer

## Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)							
		(quarters are smallest to largest)					(NAD83 UTM in meters)		
<b>Well Tag</b>	<b>POD Number</b>	<b>Q64</b>	<b>Q16</b>	<b>Q4</b>	<b>Sec</b>	<b>Tws</b>	<b>Rng</b>	<b>X</b>	<b>Y</b>
NA	CL 00342 POD1	1	1	3	07	08S	37E	666880	3723166

<b>Driller License:</b> 1145	<b>Driller Company:</b> GILCO DRILLING COMPANY	
<b>Driller Name:</b> GILLIAM, DUB ALLEN		
<b>Drill Start Date:</b> 09/15/2017	<b>Drill Finish Date:</b> 09/18/2017	<b>Plug Date:</b>
<b>Log File Date:</b> 10/02/2017	<b>PCW Rcv Date:</b>	<b>Source:</b> Shallow
<b>Pump Type:</b>	<b>Pipe Discharge Size:</b>	<b>Estimated Yield:</b> 1 GPM
<b>Casing Size:</b> 5.00	<b>Depth Well:</b> 101 feet	<b>Depth Water:</b>

Water Bearing Stratifications:	Top	Bottom	Description
	85	96	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	20	101

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

10/13/22 9:53 AM

POINT OF DIVERSION SUMMARY



# WELL RECORD & LOG

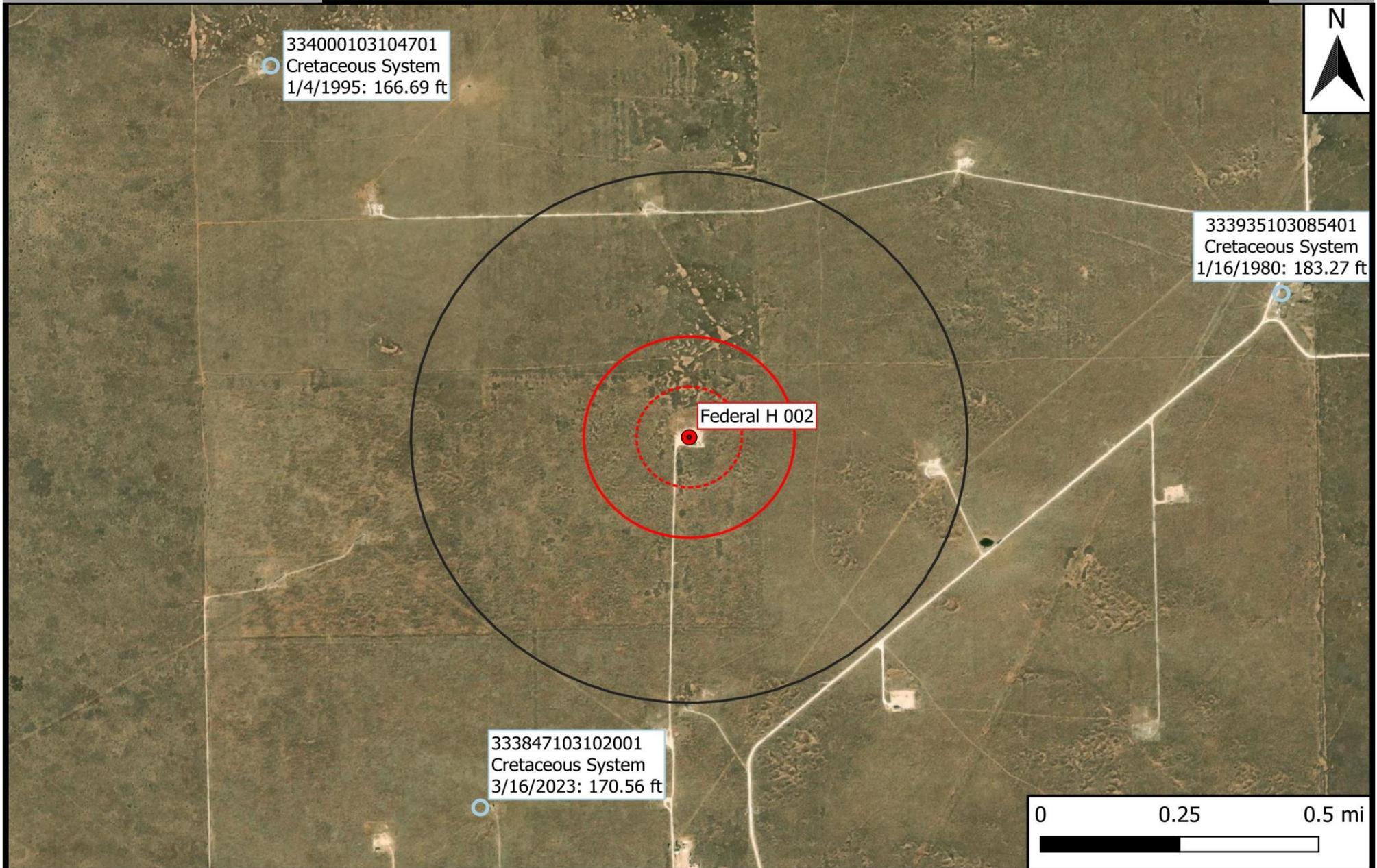
OFFICE OF THE STATE ENGINEER

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

1. GENERAL AND WELL LOCATION	OSE POD NUMBER (WELL NUMBER) <b>CL 00342 PDD1</b>				OSE FILE NUMBER(S) <b>CL 00342</b>					
	WELL OWNER NAME(S) <b>Steve R. Teston</b>				PHONE (OPTIONAL)					
	WELL OWNER MAILING ADDRESS <b>4098 S Roosevelt Rd L</b>				CITY <b>Milsand</b>		STATE <b>NM</b>		ZIP <b>88125</b>	
	WELL LOCATION (FROM GPS)		DEGREES LATITUDE <b>33°</b>	MINUTES <b>38.</b>	SECONDS <b>115</b>	ACCURACY REQUIRED: ONE TENTH OF A SECOND				
			LONGITUDE <b>103°</b>	<b>12.</b>	<b>0412</b>	* DATUM REQUIRED: WGS 84				
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE <b>NW NW SW 1/2 SEC 7 Township 8 S Range 37 E</b>										
2. DRILLING & CASING INFORMATION	LICENSE NUMBER <b>1145</b>		NAME OF LICENSED DRILLER <b>Dub Gilliam</b>				NAME OF WELL DRILLING COMPANY <b>Gileo Drilling Co.</b>			
	DRILLING STARTED <b>9-15-17</b>		DRILLING ENDED <b>9-18-17</b>		DEPTH OF COMPLETED WELL (FT) <b>101</b>		BORE HOLE DEPTH (FT) <b>101</b>		DEPTH WATER FIRST ENCOUNTERED (FT) <b>Unknown</b>	
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input type="checkbox"/> DRY HOLE <input checked="" type="checkbox"/> SHALLOW (UNCONFINED)								STATIC WATER LEVEL IN COMPLETED WELL (FT) <b>Unknown</b>	
	DRILLING FLUID: <input type="checkbox"/> AIR <input checked="" type="checkbox"/> MUD ADDITIVES - SPECIFY:									
	DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER - SPECIFY:									
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)		
	FROM	TO								
	<b>0</b>	<b>20</b>	<b>14</b>	<b>Plastic</b>	<b>Glue</b>	<b>5</b>	<b>160<sup>#</sup></b>			
	<b>20</b>	<b>101</b>	<b>8 3/4</b>	<b>Plastic</b>	<b>Glue</b>	<b>5</b>	<b>160<sup>#</sup></b>	<b>.035</b>		
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT				
	FROM	TO								
	<b>0</b>	<b>20</b>	<b>14</b>	<b>Cement</b>	<b>20</b>	<b>Wheel Barrel</b>				
	<b>20</b>	<b>101</b>	<b>8 3/4</b>	<b>Gravel Pack oo gravel</b>	<b>81</b>	<b>Shovel</b>				

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 10/29/15)			
FILE NUMBER	<b>CL-342</b>	POD NUMBER	<b>1</b>	TRN NUMBER	<b>605580</b>
LOCATION	<b>STR</b>	<b>85.37E.7.311</b>			PAGE 1 OF 2





Legend	
<span style="color: red;">●</span>	Site Location
<span style="color: blue;">○</span>	Well - USGS
<span style="border: 1px dashed red; border-radius: 50%; width: 20px; height: 20px; display: inline-block;"></span>	500 Ft Radius
<span style="border: 1px solid red; border-radius: 50%; width: 20px; height: 20px; display: inline-block;"></span>	1000 Ft Radius
<span style="border: 1px solid black; border-radius: 50%; width: 20px; height: 20px; display: inline-block;"></span>	0.5 Mi Radius

**Figure 4**  
 USGS Well Proximity Map  
 H.L. Brown Operating, LLC  
 Federal H 002  
 GPS: 33.655631, -103.169055  
 Roosevelt County

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

Drafted: mag      Checked: jk      Date: 3/17/23



USGS Home  
Contact USGS  
Search USGS

## National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater

Geographic Area:

United States

GO

Click for News Bulletins

Groundwater levels for the Nation

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

### Search Results -- 1 sites found

Agency code = usgs

site\_no list =

- 333847103102001

Minimum number of levels = 1

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

### USGS 333847103102001 08S.37E.05.43131

Available data for this site

Groundwater: Field measurements

GO

Roosevelt County, New Mexico

Hydrologic Unit Code 12080001

Latitude 33°38'44", Longitude 103°10'31" NAD27

Land-surface elevation 4,054.00 feet above NGVD29

The depth of the well is 219 feet below land surface.

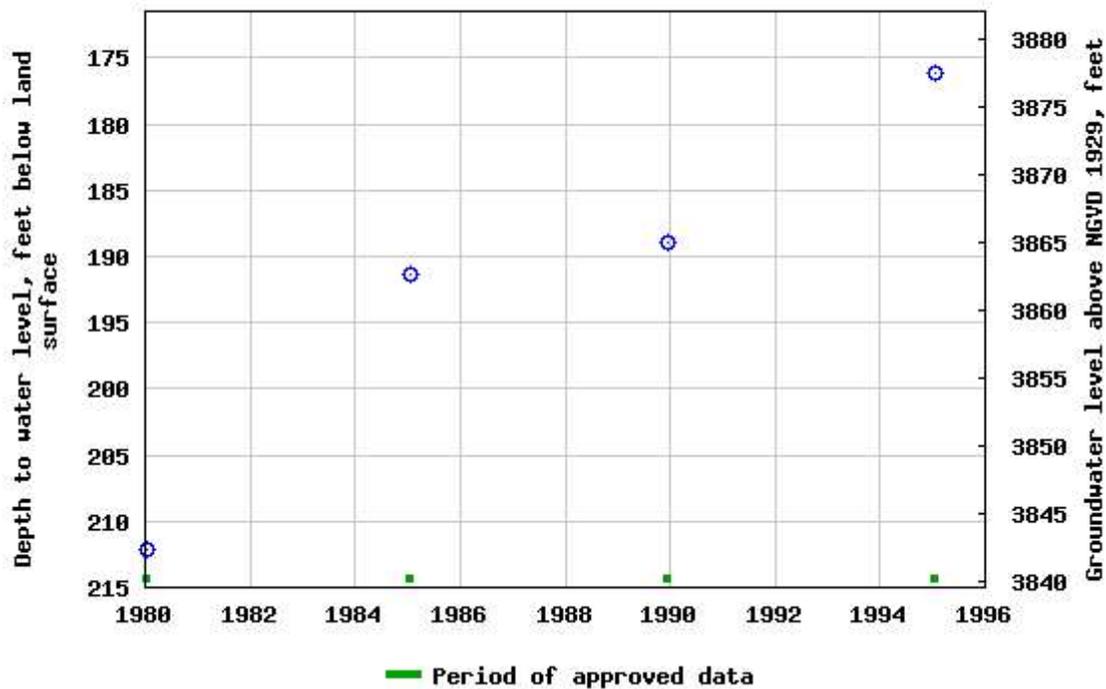
This well is completed in the High Plains aquifer (N100HGHPLN) national aquifer.

This well is completed in the Cretaceous System (210CRCS) local aquifer.

#### Output formats

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

USGS 333847103102001 08S.37E.05.43131



Breaks in the plot represent a gap of at least one year between field measurements.  
[Download a presentation-quality graph](#)

- [Questions about sites/data?](#)
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[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)

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

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



Page Contact Information: [USGS Water Data Support Team](#)

Page Last Modified: 2022-10-13 11:50:56 EDT

0.56 0.51 nadww01

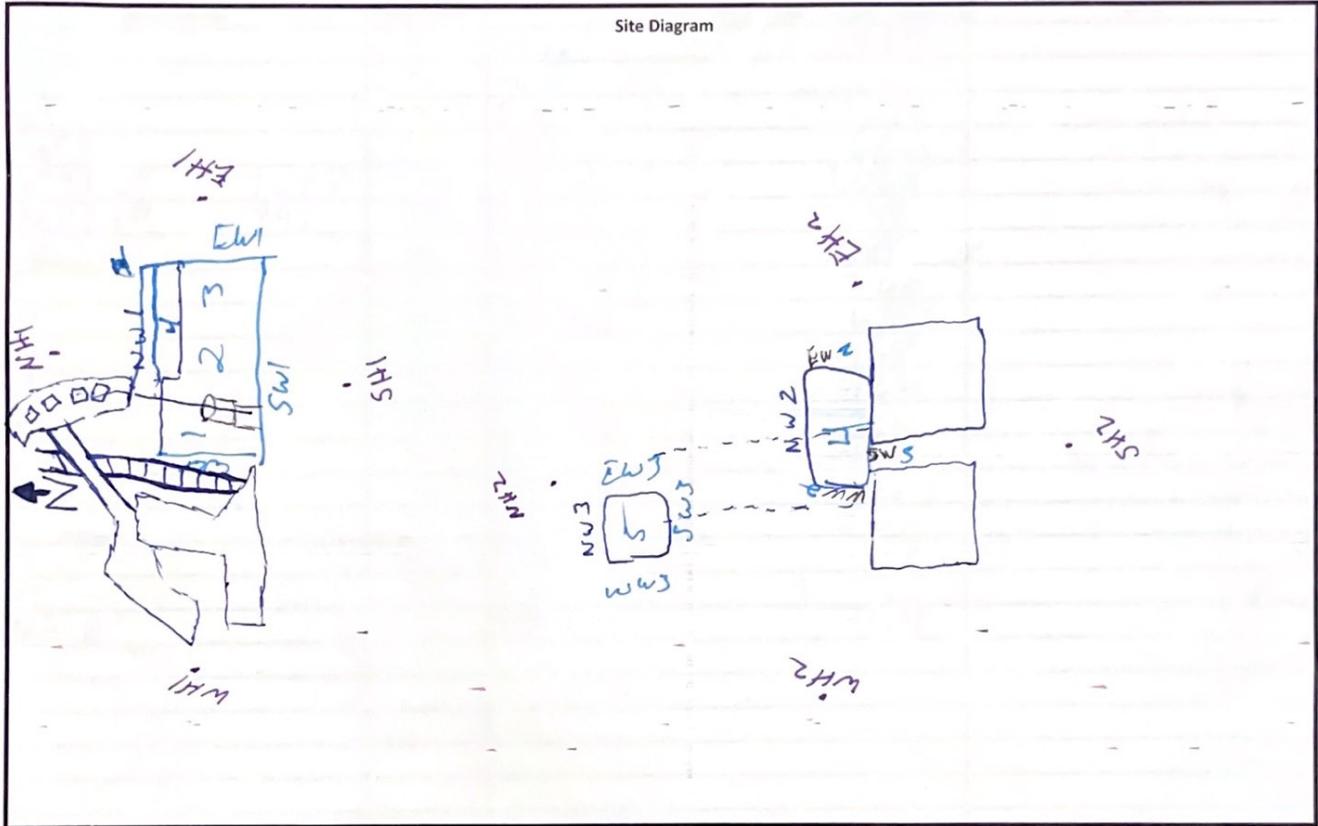
# **Appendix B**

## **Field Data and Soil Profile Logs**



### Initial Release Assessment Form

Project: Federal H 002      Clean Up Level: 20,000 mg/kg Cl-, 2,500 mg/kg TPH  
 Project Number: 16856      Latitude: 33.647478      Longitude: -103.170198  
 Date: 11/7/22



Notes:

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~Length:	~Width:	~Area:	~Depth:	Yes	No
3-4 Representative Pictures of the Affected Area including sample locations?				<input checked="" type="checkbox"/>	<input type="checkbox"/>
Necessary Samples Field Screened and on Ice?				<input checked="" type="checkbox"/>	<input type="checkbox"/>
Sample and Field Screen Data Entered on Sample Log?				<input checked="" type="checkbox"/>	<input type="checkbox"/>
Was horizontal and vertical delineation achieved?				<input checked="" type="checkbox"/>	<input type="checkbox"/>





### Soil Profile

Date: 11/7/22

Project: Federal H 002

Project Number: 16856 Latitude: 33.647478 Longitude: -103.170198

Depth (ft. bgs)	Caliche / Pad Material	Description
1	Red Sand	
2	Red Sand	
3	Red Sand	
4	Red Sand	
5		
6		
7		
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# **Appendix C**

## **Laboratory Analytical Reports**



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

---

December 27, 2022

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: FEDERAL H002

Enclosed are the results of analyses for samples received by the laboratory on 12/22/22 14:15.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	12/22/2022	Sampling Date:	12/20/2022
Reported:	12/27/2022	Sampling Type:	Soil
Project Name:	FEDERAL H002	Sampling Condition:	Cool & Intact
Project Number:	16856	Sample Received By:	Tamara Oldaker
Project Location:	HL BROWN - RURAL ROOSEVELT CO., NI		

**Sample ID: NH 1 @ 1' (H226052-01)**

BTEX 8260B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.025	0.025	12/22/2022	ND	2.25	112	2.00	2.63		
Toluene*	<0.025	0.025	12/22/2022	ND	2.35	118	2.00	4.80		
Ethylbenzene*	<0.025	0.025	12/22/2022	ND	2.39	120	2.00	3.95		
Total Xylenes*	<0.075	0.075	12/22/2022	ND	7.48	125	6.00	3.27		
Total BTEX	<0.150	0.150	12/22/2022	ND						

Surrogate: Dibromofluoromethane 92.5 % 86.7-111  
 Surrogate: Toluene-d8 97.9 % 89.3-110  
 Surrogate: 4-Bromofluorobenzene 99.9 % 88.2-108

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	12/22/2022	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	12/23/2022	ND	191	95.7	200	0.176		
DRO >C10-C28*	<10.0	10.0	12/23/2022	ND	172	86.1	200	1.89		
EXT DRO >C28-C36	<10.0	10.0	12/23/2022	ND						

Surrogate: 1-Chlorooctane 109 % 45.3-161  
 Surrogate: 1-Chlorooctadecane 121 % 46.3-178

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:	12/22/2022	Sampling Date:	12/20/2022
Reported:	12/27/2022	Sampling Type:	Soil
Project Name:	FEDERAL H002	Sampling Condition:	Cool & Intact
Project Number:	16856	Sample Received By:	Tamara Oldaker
Project Location:	HL BROWN - RURAL ROOSEVELT CO., NI		

**Sample ID: NH 2 @ 1' (H226052-02)**

BTEX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	12/22/2022	ND	2.25	112	2.00	2.63	
Toluene*	<0.025	0.025	12/22/2022	ND	2.35	118	2.00	4.80	
Ethylbenzene*	<0.025	0.025	12/22/2022	ND	2.39	120	2.00	3.95	
Total Xylenes*	<0.075	0.075	12/22/2022	ND	7.48	125	6.00	3.27	
Total BTEX	<0.150	0.150	12/22/2022	ND					

Surrogate: Dibromofluoromethane 94.5 % 86.7-111  
 Surrogate: Toluene-d8 98.7 % 89.3-110  
 Surrogate: 4-Bromofluorobenzene 100 % 88.2-108

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>112</b>	16.0	12/22/2022	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	12/23/2022	ND	191	95.7	200	0.176	
DRO >C10-C28*	<10.0	10.0	12/23/2022	ND	172	86.1	200	1.89	
EXT DRO >C28-C36	<10.0	10.0	12/23/2022	ND					

Surrogate: 1-Chlorooctane 92.0 % 45.3-161  
 Surrogate: 1-Chlorooctadecane 103 % 46.3-178

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:	12/22/2022	Sampling Date:	12/20/2022
Reported:	12/27/2022	Sampling Type:	Soil
Project Name:	FEDERAL H002	Sampling Condition:	Cool & Intact
Project Number:	16856	Sample Received By:	Tamara Oldaker
Project Location:	HL BROWN - RURAL ROOSEVELT CO., NI		

**Sample ID: EH 1 @ 1' (H226052-03)**

BTEX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	12/22/2022	ND	2.25	112	2.00	2.63	
Toluene*	<0.025	0.025	12/22/2022	ND	2.35	118	2.00	4.80	
Ethylbenzene*	<0.025	0.025	12/22/2022	ND	2.39	120	2.00	3.95	
Total Xylenes*	<0.075	0.075	12/22/2022	ND	7.48	125	6.00	3.27	
Total BTEX	<0.150	0.150	12/22/2022	ND					

Surrogate: Dibromofluoromethane 97.3 % 86.7-111  
 Surrogate: Toluene-d8 101 % 89.3-110  
 Surrogate: 4-Bromofluorobenzene 102 % 88.2-108

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>32.0</b>	16.0	12/22/2022	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	12/23/2022	ND	191	95.7	200	0.176	
DRO >C10-C28*	<10.0	10.0	12/23/2022	ND	172	86.1	200	1.89	
EXT DRO >C28-C36	<10.0	10.0	12/23/2022	ND					

Surrogate: 1-Chlorooctane 93.8 % 45.3-161  
 Surrogate: 1-Chlorooctadecane 104 % 46.3-178

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:	12/22/2022	Sampling Date:	12/20/2022
Reported:	12/27/2022	Sampling Type:	Soil
Project Name:	FEDERAL H002	Sampling Condition:	Cool & Intact
Project Number:	16856	Sample Received By:	Tamara Oldaker
Project Location:	HL BROWN - RURAL ROOSEVELT CO., NI		

**Sample ID: EH 2 @ 1' (H226052-04)**

BTEX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	12/22/2022	ND	2.25	112	2.00	2.63	
Toluene*	<0.025	0.025	12/22/2022	ND	2.35	118	2.00	4.80	
Ethylbenzene*	<0.025	0.025	12/22/2022	ND	2.39	120	2.00	3.95	
Total Xylenes*	<0.075	0.075	12/22/2022	ND	7.48	125	6.00	3.27	
Total BTEX	<0.150	0.150	12/22/2022	ND					

Surrogate: Dibromofluoromethane      91.7 %      86.7-111  
 Surrogate: Toluene-d8      99.0 %      89.3-110  
 Surrogate: 4-Bromofluorobenzene      101 %      88.2-108

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>96.0</b>	16.0	12/22/2022	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	12/23/2022	ND	191	95.7	200	0.176	
DRO >C10-C28*	<10.0	10.0	12/23/2022	ND	172	86.1	200	1.89	
EXT DRO >C28-C36	<10.0	10.0	12/23/2022	ND					

Surrogate: 1-Chlorooctane      117 %      45.3-161  
 Surrogate: 1-Chlorooctadecane      128 %      46.3-178

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:	12/22/2022	Sampling Date:	12/20/2022
Reported:	12/27/2022	Sampling Type:	Soil
Project Name:	FEDERAL H002	Sampling Condition:	Cool & Intact
Project Number:	16856	Sample Received By:	Tamara Oldaker
Project Location:	HL BROWN - RURAL ROOSEVELT CO., NI		

**Sample ID: SH 1 @ 1' (H226052-05)**

BTEX 8260B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.025	0.025	12/22/2022	ND	2.25	112	2.00	2.63		
Toluene*	<0.025	0.025	12/22/2022	ND	2.35	118	2.00	4.80		
Ethylbenzene*	<0.025	0.025	12/22/2022	ND	2.39	120	2.00	3.95		
Total Xylenes*	<0.075	0.075	12/22/2022	ND	7.48	125	6.00	3.27		
Total BTEX	<0.150	0.150	12/22/2022	ND						

Surrogate: Dibromofluoromethane 94.0 % 86.7-111  
 Surrogate: Toluene-d8 99.1 % 89.3-110  
 Surrogate: 4-Bromofluorobenzene 101 % 88.2-108

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>32.0</b>	16.0	12/22/2022	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	12/23/2022	ND	191	95.7	200	0.176		
DRO >C10-C28*	<10.0	10.0	12/23/2022	ND	172	86.1	200	1.89		
EXT DRO >C28-C36	<10.0	10.0	12/23/2022	ND						

Surrogate: 1-Chlorooctane 90.4 % 45.3-161  
 Surrogate: 1-Chlorooctadecane 101 % 46.3-178

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:	12/22/2022	Sampling Date:	12/20/2022
Reported:	12/27/2022	Sampling Type:	Soil
Project Name:	FEDERAL H002	Sampling Condition:	Cool & Intact
Project Number:	16856	Sample Received By:	Tamara Oldaker
Project Location:	HL BROWN - RURAL ROOSEVELT CO., NI		

**Sample ID: SH 2 @ 1' (H226052-06)**

BTEX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	12/22/2022	ND	2.25	112	2.00	2.63	
Toluene*	<0.025	0.025	12/22/2022	ND	2.35	118	2.00	4.80	
Ethylbenzene*	<0.025	0.025	12/22/2022	ND	2.39	120	2.00	3.95	
Total Xylenes*	<0.075	0.075	12/22/2022	ND	7.48	125	6.00	3.27	
Total BTEX	<0.150	0.150	12/22/2022	ND					

Surrogate: Dibromofluoromethane 96.3 % 86.7-111  
 Surrogate: Toluene-d8 99.6 % 89.3-110  
 Surrogate: 4-Bromofluorobenzene 101 % 88.2-108

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>64.0</b>	16.0	12/22/2022	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	12/23/2022	ND	191	95.7	200	0.176	
DRO >C10-C28*	<10.0	10.0	12/23/2022	ND	172	86.1	200	1.89	
EXT DRO >C28-C36	<10.0	10.0	12/23/2022	ND					

Surrogate: 1-Chlorooctane 87.1 % 45.3-161  
 Surrogate: 1-Chlorooctadecane 97.0 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	12/22/2022	Sampling Date:	12/20/2022
Reported:	12/27/2022	Sampling Type:	Soil
Project Name:	FEDERAL H002	Sampling Condition:	Cool & Intact
Project Number:	16856	Sample Received By:	Tamara Oldaker
Project Location:	HL BROWN - RURAL ROOSEVELT CO., NI		

**Sample ID: WH 1 @ 1' (H226052-07)**

BTEX 8260B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.025	0.025	12/22/2022	ND	2.25	112	2.00	2.63		
Toluene*	<0.025	0.025	12/22/2022	ND	2.35	118	2.00	4.80		
Ethylbenzene*	<0.025	0.025	12/22/2022	ND	2.39	120	2.00	3.95		
Total Xylenes*	<0.075	0.075	12/22/2022	ND	7.48	125	6.00	3.27		
Total BTEX	<0.150	0.150	12/22/2022	ND						

Surrogate: Dibromofluoromethane 92.6 % 86.7-111  
 Surrogate: Toluene-d8 98.2 % 89.3-110  
 Surrogate: 4-Bromofluorobenzene 100 % 88.2-108

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	12/22/2022	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	12/23/2022	ND	191	95.7	200	0.176		
DRO >C10-C28*	<10.0	10.0	12/23/2022	ND	172	86.1	200	1.89		
EXT DRO >C28-C36	<10.0	10.0	12/23/2022	ND						

Surrogate: 1-Chlorooctane 120 % 45.3-161  
 Surrogate: 1-Chlorooctadecane 133 % 46.3-178

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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:	12/22/2022	Sampling Date:	12/20/2022
Reported:	12/27/2022	Sampling Type:	Soil
Project Name:	FEDERAL H002	Sampling Condition:	Cool & Intact
Project Number:	16856	Sample Received By:	Tamara Oldaker
Project Location:	HL BROWN - RURAL ROOSEVELT CO., NI		

**Sample ID: WH 2 @ 1' (H226052-08)**

BTEX 8260B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.025	0.025	12/22/2022	ND	2.25	112	2.00	2.63		
Toluene*	<0.025	0.025	12/22/2022	ND	2.35	118	2.00	4.80		
Ethylbenzene*	<0.025	0.025	12/22/2022	ND	2.39	120	2.00	3.95		
Total Xylenes*	<0.075	0.075	12/22/2022	ND	7.48	125	6.00	3.27		
Total BTEX	<0.150	0.150	12/22/2022	ND						

Surrogate: Dibromofluoromethane      92.5 %      86.7-111  
 Surrogate: Toluene-d8      96.4 %      89.3-110  
 Surrogate: 4-Bromofluorobenzene      100 %      88.2-108

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>48.0</b>	16.0	12/22/2022	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	12/23/2022	ND	191	95.7	200	0.176		
DRO >C10-C28*	<10.0	10.0	12/23/2022	ND	172	86.1	200	1.89		
EXT DRO >C28-C36	<10.0	10.0	12/23/2022	ND						

Surrogate: 1-Chlorooctane      87.0 %      45.3-161  
 Surrogate: 1-Chlorooctadecane      94.8 %      46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

Celey D. Keene, Lab Director/Quality Manager





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

---

December 14, 2022

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: FEDERAL H002

Enclosed are the results of analyses for samples received by the laboratory on 12/07/22 15:35.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	12/07/2022	Sampling Date:	12/07/2022
Reported:	12/14/2022	Sampling Type:	Soil
Project Name:	FEDERAL H002	Sampling Condition:	** (See Notes)
Project Number:	16856	Sample Received By:	Tamara Oldaker
Project Location:	HL BROWN - RURAL ROOSEVELT CO., NI		

**Sample ID: SW 1 C (H225766-01)**

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	12/11/2022	ND	2.14	107	2.00	9.26		
Toluene*	<0.050	0.050	12/11/2022	ND	2.17	108	2.00	8.52		
Ethylbenzene*	<0.050	0.050	12/11/2022	ND	2.16	108	2.00	9.67		
Total Xylenes*	<0.150	0.150	12/11/2022	ND	6.75	112	6.00	11.4		
Total BTEX	<0.300	0.300	12/11/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	12/09/2022	ND	166	82.8	200	2.86		
DRO >C10-C28*	<10.0	10.0	12/09/2022	ND	165	82.7	200	6.17		
EXT DRO >C28-C36	<10.0	10.0	12/09/2022	ND						

Surrogate: 1-Chlorooctane 92.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 95.1 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Notes and Definitions**

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

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

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

Company Name: Etech Environmental & Safety Solutions, Inc. Project Manager: Joel Lewny Address: 2617 W Marland City: Hobbs State: NM Zip: 88240 Phone #: (575) 264-9884 Fax #: Project #: 16856 Project Owner: H.L. Brown Project Name: Federal H 002 Project Location: Rural Roosevelt Co, NM Sampler Name: Miguel Ramirez FOR LAB USE ONLY		<b>BILL TO</b> P.O. #: Company H.L. Brown Attn: Address: City: State: Zip: Phone #: Fax #:		<b>ANALYSIS REQUEST</b>	
Lab I.D. <u>H2257165</u> Sample I.D. <u>1 SWIC</u>	(G)RAB OR (C)OMP. <input type="checkbox"/> # CONTAINERS <u>1</u>	MATRIX GROUNDWATER <input type="checkbox"/> WASTEWATER <input type="checkbox"/> SOIL <input checked="" type="checkbox"/> OIL <input type="checkbox"/> SLUDGE <input type="checkbox"/> OTHER :	PRESERV/ <input type="checkbox"/> ACID/BASE: <input type="checkbox"/> ICE / COOL <input checked="" type="checkbox"/> OTHER :	DATE <u>12/9/22</u> TIME	Chloride <input type="checkbox"/> TPH (8015M) <input checked="" type="checkbox"/> BTEX (8021B) <input checked="" type="checkbox"/>
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 analysis. 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: <u>[Signature]</u> Date: <u>12-7-22</u> Time:	Received By: <u>[Signature]</u> Date: <u>12-9-22</u> Time:	REMARKS:			
Delivered By: (Circle One) Sampler - UPS - Bus - Other: <u>23.1°/22.5°</u>		Sample Condition Cool <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Impact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	CHECKED BY: <u>[Signature]</u> (Initials)	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:	

FORM-006  
 Revision 1.0

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

Please email results and copy of CoC to pm@etechnv.com.



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

---

December 07, 2022

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: FEDERAL H002

Enclosed are the results of analyses for samples received by the laboratory on 11/30/22 15:25.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Mike Snyder". The signature is fluid and cursive.

Mike Snyder For 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:	11/30/2022	Sampling Date:	11/22/2022
Reported:	12/07/2022	Sampling Type:	Soil
Project Name:	FEDERAL H002	Sampling Condition:	Cool & Intact
Project Number:	16856	Sample Received By:	Tamara Oldaker
Project Location:	HL BROWN - RURAL ROOSEVELT CO., NI		

**Sample ID: SW 2 B (H225612-01)**

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	12/03/2022	ND	2.01	101	2.00	11.2		
Toluene*	<0.050	0.050	12/03/2022	ND	2.10	105	2.00	10.8		
Ethylbenzene*	<0.050	0.050	12/03/2022	ND	2.04	102	2.00	10.9		
Total Xylenes*	<0.150	0.150	12/03/2022	ND	6.25	104	6.00	11.1		
Total BTEX	<0.300	0.300	12/03/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	12/02/2022	ND	202	101	200	3.25		
DRO >C10-C28*	<10.0	10.0	12/02/2022	ND	222	111	200	3.73		
EXT DRO >C28-C36	<10.0	10.0	12/02/2022	ND						

Surrogate: 1-Chlorooctane 92.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 93.9 % 46.3-178

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Mike Snyder For 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:	11/30/2022	Sampling Date:	11/22/2022
Reported:	12/07/2022	Sampling Type:	Soil
Project Name:	FEDERAL H002	Sampling Condition:	Cool & Intact
Project Number:	16856	Sample Received By:	Tamara Oldaker
Project Location:	HL BROWN - RURAL ROOSEVELT CO., NI		

**Sample ID: NW 1 B (H225612-02)**

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	12/03/2022	ND	2.01	101	2.00	11.2		
Toluene*	<0.050	0.050	12/03/2022	ND	2.10	105	2.00	10.8		
Ethylbenzene*	<0.050	0.050	12/03/2022	ND	2.04	102	2.00	10.9		
Total Xylenes*	<0.150	0.150	12/03/2022	ND	6.25	104	6.00	11.1		
Total BTEX	<0.300	0.300	12/03/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	12/03/2022	ND	202	101	200	3.25		
DRO >C10-C28*	<10.0	10.0	12/03/2022	ND	222	111	200	3.73		
EXT DRO >C28-C36	<10.0	10.0	12/03/2022	ND						

Surrogate: 1-Chlorooctane 105 % 45.3-161

Surrogate: 1-Chlorooctadecane 107 % 46.3-178

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**Analytical Results For:**

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

Received:	11/30/2022	Sampling Date:	11/22/2022
Reported:	12/07/2022	Sampling Type:	Soil
Project Name:	FEDERAL H002	Sampling Condition:	Cool & Intact
Project Number:	16856	Sample Received By:	Tamara Oldaker
Project Location:	HL BROWN - RURAL ROOSEVELT CO., NI		

**Sample ID: FL 2 @ 4' (H225612-03)**

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	12/03/2022	ND	2.01	101	2.00	11.2	
Toluene*	<0.050	0.050	12/03/2022	ND	2.10	105	2.00	10.8	
Ethylbenzene*	<0.050	0.050	12/03/2022	ND	2.04	102	2.00	10.9	
Total Xylenes*	<0.150	0.150	12/03/2022	ND	6.25	104	6.00	11.1	
Total BTEX	<0.300	0.300	12/03/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/03/2022	ND	202	101	200	3.25	
DRO >C10-C28*	<10.0	10.0	12/03/2022	ND	222	111	200	3.73	
EXT DRO >C28-C36	<10.0	10.0	12/03/2022	ND					

Surrogate: 1-Chlorooctane 113 % 45.3-161

Surrogate: 1-Chlorooctadecane 113 % 46.3-178

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**Analytical Results For:**

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

Received:	11/30/2022	Sampling Date:	11/22/2022
Reported:	12/07/2022	Sampling Type:	Soil
Project Name:	FEDERAL H002	Sampling Condition:	Cool & Intact
Project Number:	16856	Sample Received By:	Tamara Oldaker
Project Location:	HL BROWN - RURAL ROOSEVELT CO., NI		

**Sample ID: SW 1 B (H225612-04)**

BTEX 8021B		mg/kg		Analyzed By: JH				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.200	0.200	12/03/2022	ND	2.01	101	2.00	11.2		
<b>Toluene*</b>	<b>0.690</b>	0.200	12/03/2022	ND	2.10	105	2.00	10.8	GC-NC1	
<b>Ethylbenzene*</b>	<b>1.90</b>	0.200	12/03/2022	ND	2.04	102	2.00	10.9		
<b>Total Xylenes*</b>	<b>22.1</b>	0.600	12/03/2022	ND	6.25	104	6.00	11.1		
<b>Total BTEX</b>	<b>24.7</b>	1.20	12/03/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 291 % 69.9-140

TPH 8015M		mg/kg		Analyzed By: MS				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10*</b>	<b>1010</b>	10.0	12/03/2022	ND	202	101	200	3.25		
<b>DRO &gt;C10-C28*</b>	<b>5270</b>	10.0	12/03/2022	ND	222	111	200	3.73		
<b>EXT DRO &gt;C28-C36</b>	<b>481</b>	10.0	12/03/2022	ND						

Surrogate: 1-Chlorooctane 201 % 45.3-161

Surrogate: 1-Chlorooctadecane 204 % 46.3-178

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**Analytical Results For:**

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

Received:	11/30/2022	Sampling Date:	11/22/2022
Reported:	12/07/2022	Sampling Type:	Soil
Project Name:	FEDERAL H002	Sampling Condition:	Cool & Intact
Project Number:	16856	Sample Received By:	Tamara Oldaker
Project Location:	HL BROWN - RURAL ROOSEVELT CO., NI		

**Sample ID: FL 1 @ 4' (H225612-05)**

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	12/03/2022	ND	2.01	101	2.00	11.2		
Toluene*	<0.050	0.050	12/03/2022	ND	2.10	105	2.00	10.8		
Ethylbenzene*	<0.050	0.050	12/03/2022	ND	2.04	102	2.00	10.9		
Total Xylenes*	<0.150	0.150	12/03/2022	ND	6.25	104	6.00	11.1		
Total BTEX	<0.300	0.300	12/03/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	12/03/2022	ND	202	101	200	3.25		
DRO >C10-C28*	<10.0	10.0	12/03/2022	ND	222	111	200	3.73		
EXT DRO >C28-C36	<10.0	10.0	12/03/2022	ND						

Surrogate: 1-Chlorooctane 102 % 45.3-161

Surrogate: 1-Chlorooctadecane 102 % 46.3-178

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**Analytical Results For:**

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

Received:	11/30/2022	Sampling Date:	11/22/2022
Reported:	12/07/2022	Sampling Type:	Soil
Project Name:	FEDERAL H002	Sampling Condition:	Cool & Intact
Project Number:	16856	Sample Received By:	Tamara Oldaker
Project Location:	HL BROWN - RURAL ROOSEVELT CO., NI		

**Sample ID: FL 4 @ 4' (H225612-06)**

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	12/03/2022	ND	2.01	101	2.00	11.2	
Toluene*	<0.050	0.050	12/03/2022	ND	2.10	105	2.00	10.8	
Ethylbenzene*	<0.050	0.050	12/03/2022	ND	2.04	102	2.00	10.9	
Total Xylenes*	<0.150	0.150	12/03/2022	ND	6.25	104	6.00	11.1	
Total BTEX	<0.300	0.300	12/03/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/03/2022	ND	202	101	200	3.25	
DRO >C10-C28*	<10.0	10.0	12/03/2022	ND	222	111	200	3.73	
EXT DRO >C28-C36	<10.0	10.0	12/03/2022	ND					

Surrogate: 1-Chlorooctane 108 % 45.3-161

Surrogate: 1-Chlorooctadecane 107 % 46.3-178

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**Analytical Results For:**

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

Received:	11/30/2022	Sampling Date:	11/22/2022
Reported:	12/07/2022	Sampling Type:	Soil
Project Name:	FEDERAL H002	Sampling Condition:	Cool & Intact
Project Number:	16856	Sample Received By:	Tamara Oldaker
Project Location:	HL BROWN - RURAL ROOSEVELT CO., NI		

**Sample ID: FL 6 @ 3' (H225612-07)**

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	12/03/2022	ND	2.01	101	2.00	11.2	
Toluene*	<0.050	0.050	12/03/2022	ND	2.10	105	2.00	10.8	
Ethylbenzene*	<0.050	0.050	12/03/2022	ND	2.04	102	2.00	10.9	
Total Xylenes*	<0.150	0.150	12/03/2022	ND	6.25	104	6.00	11.1	
Total BTEX	<0.300	0.300	12/03/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/03/2022	ND	202	101	200	3.25	
<b>DRO &gt;C10-C28*</b>	<b>31.5</b>	10.0	12/03/2022	ND	222	111	200	3.73	
EXT DRO >C28-C36	<10.0	10.0	12/03/2022	ND					

Surrogate: 1-Chlorooctane 99.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 101 % 46.3-178

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**Analytical Results For:**

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

Received:	11/30/2022	Sampling Date:	11/22/2022
Reported:	12/07/2022	Sampling Type:	Soil
Project Name:	FEDERAL H002	Sampling Condition:	Cool & Intact
Project Number:	16856	Sample Received By:	Tamara Oldaker
Project Location:	HL BROWN - RURAL ROOSEVELT CO., NI		

**Sample ID: EW 2 B (H225612-08)**

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	12/03/2022	ND	2.01	101	2.00	11.2	
Toluene*	<0.050	0.050	12/03/2022	ND	2.10	105	2.00	10.8	
Ethylbenzene*	<0.050	0.050	12/03/2022	ND	2.04	102	2.00	10.9	
Total Xylenes*	<0.150	0.150	12/03/2022	ND	6.25	104	6.00	11.1	
Total BTEX	<0.300	0.300	12/03/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/03/2022	ND	202	101	200	3.25	
DRO >C10-C28*	<10.0	10.0	12/03/2022	ND	222	111	200	3.73	
EXT DRO >C28-C36	<10.0	10.0	12/03/2022	ND					

Surrogate: 1-Chlorooctane 107 % 45.3-161

Surrogate: 1-Chlorooctadecane 107 % 46.3-178

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**Analytical Results For:**

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

Received:	11/30/2022	Sampling Date:	11/22/2022
Reported:	12/07/2022	Sampling Type:	Soil
Project Name:	FEDERAL H002	Sampling Condition:	Cool & Intact
Project Number:	16856	Sample Received By:	Tamara Oldaker
Project Location:	HL BROWN - RURAL ROOSEVELT CO., NI		

**Sample ID: SW 3 B (H225612-09)**

BTEX 8021B		mg/kg		Analyzed By: JH				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/03/2022	ND	2.01	101	2.00	11.2		
<b>Toluene*</b>	<b>1.55</b>	0.050	12/03/2022	ND	2.10	105	2.00	10.8	GC-NC1	
<b>Ethylbenzene*</b>	<b>2.37</b>	0.050	12/03/2022	ND	2.04	102	2.00	10.9		
<b>Total Xylenes*</b>	<b>17.6</b>	0.150	12/03/2022	ND	6.25	104	6.00	11.1		
<b>Total BTEX</b>	<b>21.6</b>	0.300	12/03/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 288 % 69.9-140

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10*</b>	<b>61.2</b>	10.0	12/03/2022	ND	202	101	200	3.25		
<b>DRO &gt;C10-C28*</b>	<b>223</b>	10.0	12/03/2022	ND	222	111	200	3.73		
<b>EXT DRO &gt;C28-C36</b>	<b>13.1</b>	10.0	12/03/2022	ND						

Surrogate: 1-Chlorooctane 105 % 45.3-161

Surrogate: 1-Chlorooctadecane 107 % 46.3-178

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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:	11/30/2022	Sampling Date:	11/22/2022
Reported:	12/07/2022	Sampling Type:	Soil
Project Name:	FEDERAL H002	Sampling Condition:	Cool & Intact
Project Number:	16856	Sample Received By:	Tamara Oldaker
Project Location:	HL BROWN - RURAL ROOSEVELT CO., NI		

**Sample ID: WW 1 B (H225612-10)**

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	12/03/2022	ND	2.01	101	2.00	11.2	
Toluene*	<0.050	0.050	12/03/2022	ND	2.10	105	2.00	10.8	
Ethylbenzene*	<0.050	0.050	12/03/2022	ND	2.04	102	2.00	10.9	
Total Xylenes*	<0.150	0.150	12/03/2022	ND	6.25	104	6.00	11.1	
Total BTEX	<0.300	0.300	12/03/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/03/2022	ND	202	101	200	3.25	
DRO >C10-C28*	<10.0	10.0	12/03/2022	ND	222	111	200	3.73	
EXT DRO >C28-C36	<10.0	10.0	12/03/2022	ND					

Surrogate: 1-Chlorooctane 73.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 73.8 % 46.3-178

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\* = Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
GC-NC1 8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
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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Handwritten signature of Mike Snyder

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



**CARDINAL LABORATORIES**

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

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

Company Name: Etech Environmental & Safety Solutions, Inc.  
 Project Manager: Joe Leary  
 Address: 2617 W Marland  
 City: Hobbs State: NM Zip: 88240  
 Phone #: (575) 264-9884 Fax #:   
 Project #: 16851 Project Owner: H.L. Brown  
 Project Name: Federal H 002  
 Project Location: Rura I Roosevelt Co, NM  
 Sampler Name: Paula Rogers

**BILL TO**  
 P.O. #: 1  
 Company: H.L. Brown  
 Attn:   
 Address:   
 City:   
 State: Zip:   
 Phone #:   
 Fax #:   
**ANALYSIS REQUEST**

FOR LAB USE ONLY  
 Lab I.D. Sample I.D.  
 H25612

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	Chloride	TPH (8015M)	BTEX (8021B)
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:					
1.	SW2b	C	1			X					11/22/24		X	X	
2.	NW1b	C	1												
3.	FL204'	C	1												
4.	SW1b	C	1												
5.	FL104'	C	1												
6.	WAB FL404'	C	1												
7.	FL603.	C	1												
8.	FL2b	C	1												
9.	SW3b	C	1												
10.	NW1b	C	1												

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Relinquished By: W. Leary  
 Date: 11-30-22  
 Time: 1:25  
 Received By: [Signature]  
 Date: 1/22/24  
 Time:   
 Delivered By: (Circle One) UPS #113  
 Sampler - UPS - Bus - Other: 4.8e/4.2e  
 Sample Condition:  Intact  Broken  
 Cool:  Yes  No  
 CHECKED BY: [Signature]  
 FORM-006  
 Revision 1.0

Phone Result:  Yes  No  
 Fax Result:  Yes  No  
 Add'l Phone #:   
 Add'l Fax #:   
 REMARKS:   
 Please email results and copy of CoC to pm@etechnv.com.  
 † Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476



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

---

November 14, 2022

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: FEDERAL H002

Enclosed are the results of analyses for samples received by the laboratory on 11/07/22 15:42.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	11/07/2022	Sampling Date:	11/07/2022
Reported:	11/14/2022	Sampling Type:	Soil
Project Name:	FEDERAL H002	Sampling Condition:	** (See Notes)
Project Number:	16856	Sample Received By:	Tamara Oldaker
Project Location:	HL BROWN - RURAL ROOSEVELT CO., NI		

**Sample ID: FL 1 @ 2' (H225249-01)**

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	11/11/2022	ND	1.90	94.9	2.00	4.23	
Toluene*	<0.050	0.050	11/11/2022	ND	2.04	102	2.00	3.77	
<b>Ethylbenzene*</b>	<b>0.120</b>	0.050	11/11/2022	ND	1.99	99.6	2.00	3.73	
<b>Total Xylenes*</b>	<b>0.645</b>	0.150	11/11/2022	ND	6.06	101	6.00	3.65	
<b>Total BTEX</b>	<b>0.765</b>	0.300	11/11/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 125 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>592</b>	16.0	11/08/2022	ND	384	96.0	400	4.08	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>36.8</b>	10.0	11/08/2022	ND	202	101	200	3.79	
<b>DRO &gt;C10-C28*</b>	<b>1210</b>	10.0	11/08/2022	ND	195	97.5	200	2.83	QM-07
<b>EXT DRO &gt;C28-C36</b>	<b>94.5</b>	10.0	11/08/2022	ND					

Surrogate: 1-Chlorooctane 89.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 131 % 46.3-178

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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:	11/07/2022	Sampling Date:	11/07/2022
Reported:	11/14/2022	Sampling Type:	Soil
Project Name:	FEDERAL H002	Sampling Condition:	** (See Notes)
Project Number:	16856	Sample Received By:	Tamara Oldaker
Project Location:	HL BROWN - RURAL ROOSEVELT CO., NI		

**Sample ID: FL 2 @ 3' (H225249-02)**

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	11/11/2022	ND	1.90	94.9	2.00	4.23	
Toluene*	<0.050	0.050	11/11/2022	ND	2.04	102	2.00	3.77	
<b>Ethylbenzene*</b>	<b>0.165</b>	0.050	11/11/2022	ND	1.99	99.6	2.00	3.73	
<b>Total Xylenes*</b>	<b>1.69</b>	0.150	11/11/2022	ND	6.06	101	6.00	3.65	
<b>Total BTEX</b>	<b>1.85</b>	0.300	11/11/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 137 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>768</b>	16.0	11/08/2022	ND	384	96.0	400	4.08	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10*</b>	<b>108</b>	50.0	11/09/2022	ND	202	101	200	3.79		
<b>DRO &gt;C10-C28*</b>	<b>3340</b>	50.0	11/09/2022	ND	195	97.5	200	2.83		
<b>EXT DRO &gt;C28-C36</b>	<b>427</b>	50.0	11/09/2022	ND						

Surrogate: 1-Chlorooctane 119 % 45.3-161

Surrogate: 1-Chlorooctadecane 212 % 46.3-178

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:	11/07/2022	Sampling Date:	11/07/2022
Reported:	11/14/2022	Sampling Type:	Soil
Project Name:	FEDERAL H002	Sampling Condition:	** (See Notes)
Project Number:	16856	Sample Received By:	Tamara Oldaker
Project Location:	HL BROWN - RURAL ROOSEVELT CO., NI		

**Sample ID: FL 3 @ 2' (H225249-03)**

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	11/11/2022	ND	1.90	94.9	2.00	4.23	
Toluene*	<0.050	0.050	11/11/2022	ND	2.04	102	2.00	3.77	
Ethylbenzene*	<0.050	0.050	11/11/2022	ND	1.99	99.6	2.00	3.73	
Total Xylenes*	<0.150	0.150	11/11/2022	ND	6.06	101	6.00	3.65	
Total BTEX	<0.300	0.300	11/11/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 87.9 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	11/08/2022	ND	384	96.0	400	4.08	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2022	ND	202	101	200	3.79	
DRO >C10-C28*	<10.0	10.0	11/08/2022	ND	195	97.5	200	2.83	
EXT DRO >C28-C36	<10.0	10.0	11/08/2022	ND					

Surrogate: 1-Chlorooctane 111 % 45.3-161

Surrogate: 1-Chlorooctadecane 121 % 46.3-178

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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:	11/07/2022	Sampling Date:	11/07/2022
Reported:	11/14/2022	Sampling Type:	Soil
Project Name:	FEDERAL H002	Sampling Condition:	** (See Notes)
Project Number:	16856	Sample Received By:	Tamara Oldaker
Project Location:	HL BROWN - RURAL ROOSEVELT CO., NI		

**Sample ID: FL 4 @ 2' (H225249-04)**

BTEX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.205</b>	0.050	11/11/2022	ND	1.90	94.9	2.00	4.23	
<b>Toluene*</b>	<b>5.17</b>	0.050	11/11/2022	ND	2.04	102	2.00	3.77	
<b>Ethylbenzene*</b>	<b>4.58</b>	0.050	11/11/2022	ND	1.99	99.6	2.00	3.73	
<b>Total Xylenes*</b>	<b>24.9</b>	0.150	11/11/2022	ND	6.06	101	6.00	3.65	
<b>Total BTEX</b>	<b>34.8</b>	0.300	11/11/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 289 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>64.0</b>	16.0	11/08/2022	ND	384	96.0	400	4.08	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>614</b>	10.0	11/08/2022	ND	202	101	200	3.79	
<b>DRO &gt;C10-C28*</b>	<b>1370</b>	10.0	11/08/2022	ND	195	97.5	200	2.83	
<b>EXT DRO &gt;C28-C36</b>	<b>86.6</b>	10.0	11/08/2022	ND					

Surrogate: 1-Chlorooctane 190 % 45.3-161

Surrogate: 1-Chlorooctadecane 136 % 46.3-178

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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:	11/07/2022	Sampling Date:	11/07/2022
Reported:	11/14/2022	Sampling Type:	Soil
Project Name:	FEDERAL H002	Sampling Condition:	** (See Notes)
Project Number:	16856	Sample Received By:	Tamara Oldaker
Project Location:	HL BROWN - RURAL ROOSEVELT CO., NI		

**Sample ID: NW 1 (H225249-05)**

BTEX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	11/12/2022	ND	1.90	94.9	2.00	4.23	
<b>Toluene*</b>	<b>2.48</b>	0.200	11/12/2022	ND	2.04	102	2.00	3.77	
Ethylbenzene*	<0.200	0.200	11/12/2022	ND	1.99	99.6	2.00	3.73	
<b>Total Xylenes*</b>	<b>30.5</b>	0.600	11/12/2022	ND	6.06	101	6.00	3.65	GC-NC1
<b>Total BTEX</b>	<b>33.0</b>	1.20	11/12/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 272 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>400</b>	16.0	11/08/2022	ND	384	96.0	400	4.08	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>1910</b>	50.0	11/09/2022	ND	202	101	200	3.79	
<b>DRO &gt;C10-C28*</b>	<b>7440</b>	50.0	11/09/2022	ND	195	97.5	200	2.83	
<b>EXT DRO &gt;C28-C36</b>	<b>346</b>	50.0	11/09/2022	ND					

Surrogate: 1-Chlorooctane 371 % 45.3-161

Surrogate: 1-Chlorooctadecane 162 % 46.3-178

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:	11/07/2022	Sampling Date:	11/07/2022
Reported:	11/14/2022	Sampling Type:	Soil
Project Name:	FEDERAL H002	Sampling Condition:	** (See Notes)
Project Number:	16856	Sample Received By:	Tamara Oldaker
Project Location:	HL BROWN - RURAL ROOSEVELT CO., NI		

**Sample ID: EW 1 (H225249-06)**

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	11/11/2022	ND	1.90	94.9	2.00	4.23	
Toluene*	<0.050	0.050	11/11/2022	ND	2.04	102	2.00	3.77	
Ethylbenzene*	<0.050	0.050	11/11/2022	ND	1.99	99.6	2.00	3.73	
<b>Total Xylenes*</b>	<b>0.179</b>	0.150	11/11/2022	ND	6.06	101	6.00	3.65	
Total BTEX	<0.300	0.300	11/11/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.1 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>768</b>	16.0	11/08/2022	ND	384	96.0	400	4.08	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2022	ND	202	101	200	3.79	
DRO >C10-C28*	<10.0	10.0	11/08/2022	ND	195	97.5	200	2.83	
EXT DRO >C28-C36	<10.0	10.0	11/08/2022	ND					

Surrogate: 1-Chlorooctane 101 % 45.3-161

Surrogate: 1-Chlorooctadecane 111 % 46.3-178

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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:	11/07/2022	Sampling Date:	11/07/2022
Reported:	11/14/2022	Sampling Type:	Soil
Project Name:	FEDERAL H002	Sampling Condition:	** (See Notes)
Project Number:	16856	Sample Received By:	Tamara Oldaker
Project Location:	HL BROWN - RURAL ROOSEVELT CO., NI		

**Sample ID: SW 1 (H225249-07)**

BTEX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	11/12/2022	ND	1.90	94.9	2.00	4.23	
<b>Toluene*</b>	<b>4.30</b>	0.500	11/12/2022	ND	2.04	102	2.00	3.77	
<b>Ethylbenzene*</b>	<b>10.7</b>	0.500	11/12/2022	ND	1.99	99.6	2.00	3.73	
<b>Total Xylenes*</b>	<b>72.6</b>	1.50	11/12/2022	ND	6.06	101	6.00	3.65	
<b>Total BTEX</b>	<b>87.6</b>	3.00	11/12/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 168 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>592</b>	16.0	11/08/2022	ND	384	96.0	400	4.08	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>1360</b>	10.0	11/08/2022	ND	202	101	200	3.79	
<b>DRO &gt;C10-C28*</b>	<b>6300</b>	10.0	11/08/2022	ND	195	97.5	200	2.83	
<b>EXT DRO &gt;C28-C36</b>	<b>655</b>	10.0	11/08/2022	ND					

Surrogate: 1-Chlorooctane 164 % 45.3-161

Surrogate: 1-Chlorooctadecane 171 % 46.3-178

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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:	11/07/2022	Sampling Date:	11/07/2022
Reported:	11/14/2022	Sampling Type:	Soil
Project Name:	FEDERAL H002	Sampling Condition:	** (See Notes)
Project Number:	16856	Sample Received By:	Tamara Oldaker
Project Location:	HL BROWN - RURAL ROOSEVELT CO., NI		

**Sample ID: WW 1 (H225249-08)**

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	11/11/2022	ND	1.90	94.9	2.00	4.23	
Toluene*	<0.050	0.050	11/11/2022	ND	2.04	102	2.00	3.77	
Ethylbenzene*	<0.050	0.050	11/11/2022	ND	1.99	99.6	2.00	3.73	
Total Xylenes*	<0.150	0.150	11/11/2022	ND	6.06	101	6.00	3.65	
Total BTEX	<0.300	0.300	11/11/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.3 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>672</b>	16.0	11/08/2022	ND	384	96.0	400	4.08	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	11/09/2022	ND	202	101	200	3.79	
<b>DRO &gt;C10-C28*</b>	<b>1330</b>	50.0	11/09/2022	ND	195	97.5	200	2.83	
<b>EXT DRO &gt;C28-C36</b>	<b>298</b>	50.0	11/09/2022	ND					

Surrogate: 1-Chlorooctane 91.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 142 % 46.3-178

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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:	11/07/2022	Sampling Date:	11/07/2022
Reported:	11/14/2022	Sampling Type:	Soil
Project Name:	FEDERAL H002	Sampling Condition:	** (See Notes)
Project Number:	16856	Sample Received By:	Tamara Oldaker
Project Location:	HL BROWN - RURAL ROOSEVELT CO., NI		

**Sample ID: FL 5 @ 2' (H225249-09)**

BTEX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/11/2022	ND	1.90	94.9	2.00	4.23	
<b>Toluene*</b>	<b>0.260</b>	0.050	11/11/2022	ND	2.04	102	2.00	3.77	
<b>Ethylbenzene*</b>	<b>0.667</b>	0.050	11/11/2022	ND	1.99	99.6	2.00	3.73	
<b>Total Xylenes*</b>	<b>7.19</b>	0.150	11/11/2022	ND	6.06	101	6.00	3.65	
<b>Total BTEX</b>	<b>8.11</b>	0.300	11/11/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 210 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>32.0</b>	16.0	11/08/2022	ND	384	96.0	400	4.08	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>125</b>	10.0	11/09/2022	ND	202	101	200	3.79	
<b>DRO &gt;C10-C28*</b>	<b>728</b>	10.0	11/09/2022	ND	195	97.5	200	2.83	
<b>EXT DRO &gt;C28-C36</b>	<b>81.3</b>	10.0	11/09/2022	ND					

Surrogate: 1-Chlorooctane 133 % 45.3-161

Surrogate: 1-Chlorooctadecane 133 % 46.3-178

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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:	11/07/2022	Sampling Date:	11/07/2022
Reported:	11/14/2022	Sampling Type:	Soil
Project Name:	FEDERAL H002	Sampling Condition:	** (See Notes)
Project Number:	16856	Sample Received By:	Tamara Oldaker
Project Location:	HL BROWN - RURAL ROOSEVELT CO., NI		

**Sample ID: NW 2 (H225249-10)**

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	11/11/2022	ND	1.90	94.9	2.00	4.23	
Toluene*	<0.050	0.050	11/11/2022	ND	2.04	102	2.00	3.77	
Ethylbenzene*	<0.050	0.050	11/11/2022	ND	1.99	99.6	2.00	3.73	
Total Xylenes*	<0.150	0.150	11/11/2022	ND	6.06	101	6.00	3.65	
Total BTEX	<0.300	0.300	11/11/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.0 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>160</b>	16.0	11/08/2022	ND	384	96.0	400	4.08	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/09/2022	ND	202	101	200	3.79	
<b>DRO &gt;C10-C28*</b>	<b>201</b>	10.0	11/09/2022	ND	195	97.5	200	2.83	
<b>EXT DRO &gt;C28-C36</b>	<b>36.7</b>	10.0	11/09/2022	ND					

Surrogate: 1-Chlorooctane 92.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 107 % 46.3-178

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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:	11/07/2022	Sampling Date:	11/07/2022
Reported:	11/14/2022	Sampling Type:	Soil
Project Name:	FEDERAL H002	Sampling Condition:	** (See Notes)
Project Number:	16856	Sample Received By:	Tamara Oldaker
Project Location:	HL BROWN - RURAL ROOSEVELT CO., NI		

**Sample ID: EW 2 (H225249-11)**

BTEX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.449</b>	0.200	11/12/2022	ND	1.90	94.9	2.00	4.23	
<b>Toluene*</b>	<b>6.23</b>	0.200	11/12/2022	ND	2.04	102	2.00	3.77	
<b>Ethylbenzene*</b>	<b>6.01</b>	0.200	11/12/2022	ND	1.99	99.6	2.00	3.73	
<b>Total Xylenes*</b>	<b>33.9</b>	0.600	11/12/2022	ND	6.06	101	6.00	3.65	
<b>Total BTEX</b>	<b>46.6</b>	1.20	11/12/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 182 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>80.0</b>	16.0	11/08/2022	ND	384	96.0	400	4.08	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>1020</b>	50.0	11/09/2022	ND	202	101	200	3.79	
<b>DRO &gt;C10-C28*</b>	<b>15900</b>	50.0	11/09/2022	ND	195	97.5	200	2.83	
<b>EXT DRO &gt;C28-C36</b>	<b>1930</b>	50.0	11/09/2022	ND					

Surrogate: 1-Chlorooctane 162 % 45.3-161

Surrogate: 1-Chlorooctadecane 358 % 46.3-178

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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:	11/07/2022	Sampling Date:	11/07/2022
Reported:	11/14/2022	Sampling Type:	Soil
Project Name:	FEDERAL H002	Sampling Condition:	** (See Notes)
Project Number:	16856	Sample Received By:	Tamara Oldaker
Project Location:	HL BROWN - RURAL ROOSEVELT CO., NI		

**Sample ID: SW 2 (H225249-12)**

BTEX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>2.55</b>	0.200	11/12/2022	ND	1.90	94.9	2.00	4.23	
<b>Toluene*</b>	<b>18.2</b>	0.200	11/12/2022	ND	2.04	102	2.00	3.77	
<b>Ethylbenzene*</b>	<b>12.9</b>	0.200	11/12/2022	ND	1.99	99.6	2.00	3.73	
<b>Total Xylenes*</b>	<b>67.5</b>	0.600	11/12/2022	ND	6.06	101	6.00	3.65	
<b>Total BTEX</b>	<b>101</b>	1.20	11/12/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 212 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>32.0</b>	16.0	11/08/2022	ND	384	96.0	400	4.08	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>1650</b>	50.0	11/09/2022	ND	202	101	200	3.79	
<b>DRO &gt;C10-C28*</b>	<b>5540</b>	50.0	11/09/2022	ND	195	97.5	200	2.83	
<b>EXT DRO &gt;C28-C36</b>	<b>544</b>	50.0	11/09/2022	ND					

Surrogate: 1-Chlorooctane 310 % 45.3-161

Surrogate: 1-Chlorooctadecane 386 % 46.3-178

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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:	11/07/2022	Sampling Date:	11/07/2022
Reported:	11/14/2022	Sampling Type:	Soil
Project Name:	FEDERAL H002	Sampling Condition:	** (See Notes)
Project Number:	16856	Sample Received By:	Tamara Oldaker
Project Location:	HL BROWN - RURAL ROOSEVELT CO., NI		

**Sample ID: WW 2 (H225249-13)**

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	11/08/2022	ND	1.94	96.9	2.00	5.61	
Toluene*	<0.050	0.050	11/08/2022	ND	2.09	105	2.00	6.43	
<b>Ethylbenzene*</b>	<b>0.059</b>	0.050	11/08/2022	ND	2.05	102	2.00	7.40	
<b>Total Xylenes*</b>	<b>0.263</b>	0.150	11/08/2022	ND	6.23	104	6.00	7.42	
<b>Total BTEX</b>	<b>0.321</b>	0.300	11/08/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.0 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>112</b>	16.0	11/08/2022	ND	384	96.0	400	4.08	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/09/2022	ND	202	101	200	3.79	
<b>DRO &gt;C10-C28*</b>	<b>73.2</b>	10.0	11/09/2022	ND	195	97.5	200	2.83	
EXT DRO >C28-C36	<10.0	10.0	11/09/2022	ND					

Surrogate: 1-Chlorooctane 83.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 90.7 % 46.3-178

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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:	11/07/2022	Sampling Date:	11/07/2022
Reported:	11/14/2022	Sampling Type:	Soil
Project Name:	FEDERAL H002	Sampling Condition:	** (See Notes)
Project Number:	16856	Sample Received By:	Tamara Oldaker
Project Location:	HL BROWN - RURAL ROOSEVELT CO., NI		

**Sample ID: NW 3 (H225249-14)**

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	11/08/2022	ND	1.94	96.9	2.00	5.61	
Toluene*	<0.050	0.050	11/08/2022	ND	2.09	105	2.00	6.43	
Ethylbenzene*	<0.050	0.050	11/08/2022	ND	2.05	102	2.00	7.40	
Total Xylenes*	<0.150	0.150	11/08/2022	ND	6.23	104	6.00	7.42	
Total BTEX	<0.300	0.300	11/08/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 90.6 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>80.0</b>	16.0	11/08/2022	ND	384	96.0	400	4.08	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/09/2022	ND	202	101	200	3.79	
<b>DRO &gt;C10-C28*</b>	<b>12.6</b>	10.0	11/09/2022	ND	195	97.5	200	2.83	
EXT DRO >C28-C36	<10.0	10.0	11/09/2022	ND					

Surrogate: 1-Chlorooctane 84.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 92.9 % 46.3-178

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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:	11/07/2022	Sampling Date:	11/07/2022
Reported:	11/14/2022	Sampling Type:	Soil
Project Name:	FEDERAL H002	Sampling Condition:	** (See Notes)
Project Number:	16856	Sample Received By:	Tamara Oldaker
Project Location:	HL BROWN - RURAL ROOSEVELT CO., NI		

**Sample ID: EW 3 (H225249-15)**

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	11/08/2022	ND	1.94	96.9	2.00	5.61	
Toluene*	<0.050	0.050	11/08/2022	ND	2.09	105	2.00	6.43	
Ethylbenzene*	<0.050	0.050	11/08/2022	ND	2.05	102	2.00	7.40	
Total Xylenes*	<0.150	0.150	11/08/2022	ND	6.23	104	6.00	7.42	
Total BTEX	<0.300	0.300	11/08/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 88.9 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>80.0</b>	16.0	11/08/2022	ND	384	96.0	400	4.08	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/09/2022	ND	202	101	200	3.79	
DRO >C10-C28*	<10.0	10.0	11/09/2022	ND	195	97.5	200	2.83	
EXT DRO >C28-C36	<10.0	10.0	11/09/2022	ND					

Surrogate: 1-Chlorooctane 95.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 106 % 46.3-178

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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:	11/07/2022	Sampling Date:	11/07/2022
Reported:	11/14/2022	Sampling Type:	Soil
Project Name:	FEDERAL H002	Sampling Condition:	** (See Notes)
Project Number:	16856	Sample Received By:	Tamara Oldaker
Project Location:	HL BROWN - RURAL ROOSEVELT CO., NI		

**Sample ID: SW 3 (H225249-16)**

BTEX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>1.17</b>	0.500	11/08/2022	ND	1.94	96.9	2.00	5.61	
<b>Toluene*</b>	<b>22.0</b>	0.500	11/08/2022	ND	2.09	105	2.00	6.43	
<b>Ethylbenzene*</b>	<b>18.8</b>	0.500	11/08/2022	ND	2.05	102	2.00	7.40	
<b>Total Xylenes*</b>	<b>120</b>	1.50	11/08/2022	ND	6.23	104	6.00	7.42	
<b>Total BTEX</b>	<b>162</b>	3.00	11/08/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 168 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/08/2022	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>2370</b>	10.0	11/09/2022	ND	202	101	200	3.79	
<b>DRO &gt;C10-C28*</b>	<b>5950</b>	10.0	11/09/2022	ND	195	97.5	200	2.83	
<b>EXT DRO &gt;C28-C36</b>	<b>436</b>	10.0	11/09/2022	ND					

Surrogate: 1-Chlorooctane 472 % 45.3-161

Surrogate: 1-Chlorooctadecane 331 % 46.3-178

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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:	11/07/2022	Sampling Date:	11/07/2022
Reported:	11/14/2022	Sampling Type:	Soil
Project Name:	FEDERAL H002	Sampling Condition:	** (See Notes)
Project Number:	16856	Sample Received By:	Tamara Oldaker
Project Location:	HL BROWN - RURAL ROOSEVELT CO., NI		

**Sample ID: WW 3 (H225249-17)**

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	11/08/2022	ND	1.94	96.9	2.00	5.61	
Toluene*	<0.050	0.050	11/08/2022	ND	2.09	105	2.00	6.43	
Ethylbenzene*	<0.050	0.050	11/08/2022	ND	2.05	102	2.00	7.40	
Total Xylenes*	<0.150	0.150	11/08/2022	ND	6.23	104	6.00	7.42	
Total BTEX	<0.300	0.300	11/08/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 89.4 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	11/08/2022	ND	416	104	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	11/09/2022	ND	202	101	200	3.79	
DRO >C10-C28*	<10.0	10.0	11/09/2022	ND	195	97.5	200	2.83	
EXT DRO >C28-C36	<10.0	10.0	11/09/2022	ND					

Surrogate: 1-Chlorooctane 103 % 45.3-161

Surrogate: 1-Chlorooctadecane 113 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- GC-NC1 8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

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*Celey D. Keene*

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1/2

BILL TO

ANALYSIS REQUEST

Company Name: *Stech Environmental Safety Solutions*  
 Project Manager: *Joel Leary*  
 Address: *2617 W. Marland*  
 City: *Hobbs* State: *NM* zip: *88240*  
 Phone #: *—* Fax #: *—*  
 Project #: *16856* Project Owner: *H.L. Brown*  
 Project Name: *Federal H 002*  
 Project Location: *Rural Roosevelt Co., NM*  
 Sampler Name: *Debra Keene*

P.O. #:   
 Company: *H.L. Brown*  
 Attn:   
 Address:   
 City:   
 State:   
 Zip:   
 Phone #:   
 Fax #:   
 PRESERV:   
 SAMPLING:   
 FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	ANALYSIS
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :			
<i>H225249</i>	<i>1 F11 21</i>	<i>C</i>	<i>1</i>			<i>X</i>				<i>11/7/12</i>		<i>Chlorides</i>
	<i>2 F12 31</i>	<i>C</i>	<i>1</i>									<i>BTEX</i>
	<i>3 F13 21</i>	<i>C</i>	<i>1</i>									<i>TPH</i>
	<i>4 F14 21</i>	<i>C</i>	<i>1</i>									
	<i>5 NW1</i>	<i>C</i>	<i>1</i>									
	<i>6 EW1</i>	<i>C</i>	<i>1</i>									
	<i>7 SW1</i>	<i>C</i>	<i>1</i>									
	<i>8 WW1</i>	<i>C</i>	<i>1</i>									
	<i>9 F15 21</i>	<i>C</i>	<i>1</i>									
	<i>10 NW2</i>	<i>C</i>	<i>1</i>									

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Relinquished By: *Debra Keene* Date: *11-7-22* Received By: *Debra Keene*  
 Relinquished By: *Debra Keene* Date: *11-7-22* Received By: *Debra Keene*

Delivered By: (Circle One) Observed Temp. °C: *24.9* Sample Condition:  Cool  Intact  
 Sampler - UPS - Bus - Other: Corrected Temp. °C: *24.3*  Yes  No  
 CHECKED BY: (Initials) *DK*  
 Turndown Time: *PM @ etechenv.com*  
 Thermometer ID #113 Standard  *Rush* Bacteria (only)   
 Correction Factor -0.6°C Cool  Intact   
 Corrected Temp. °C:  Yes  No Sample Condition:  Observed Temp. °C:  Corrected Temp. °C:

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



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

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

2/2

**BILL TO**

**ANALYSIS REQUEST**

Company Name: Etech Environmental & Safety Solutions  
 Project Manager: Jed Lowry  
 Address: 2617 W. Marland  
 City: Hobbs State: NM Zip: 88240  
 Phone #: - Fax #: -  
 Project #: 16856 Project Owner: H.L. Brown  
 Project Name: Federal 4602  
 Project Location: Rural Roosevelt Co, NM  
 Sampler Name: \_\_\_\_\_  
 FOR LAB USE ONLY

P.O. #: \_\_\_\_\_  
 Company: H.L. Brown  
 Attn: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 City: \_\_\_\_\_  
 State: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Phone #: \_\_\_\_\_  
 Fax #: \_\_\_\_\_

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	ANALYSIS
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :			
H225249	EW2	0	1			X				11/7/22		Chlorides
	12 SW2		1			X						BTEX
	13 WW3		1			X						TPH
	14 NW3		1			X						
	15 EW3		1			X						
	16 SW3		1			X						
	17 WW3		1			X						

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Relinquished By: \_\_\_\_\_ Date: 11-7-22 Received By: \_\_\_\_\_  
 Relinquished By: Deborah Keene Date: 11-7-22 Received By: Heather Black  
 Turnaround Time: \_\_\_\_\_  
 Verbal Result:  Yes  No Add'l Phone #: \_\_\_\_\_  
 All Results are emailed. Please provide Email address: \_\_\_\_\_  
 REMARKS: pm@etechenv.com

Delivered By: (Circle One)  UPS  Bus  Other: \_\_\_\_\_  
 Observed Temp. °C: 24.9 Corrected Temp. °C: 24.3  
 Sample Condition:  Cool  Intact  Yes  No  
 CHECKED BY: (Initials) JK  
 Bacteria (only) Sample Condition:  Cool  Intact  Yes  No  
 Thermometer ID #113 Correction Factor -0.6°C  
 Standard  Bacteria (only) Sample Condition:  Cool  Intact  Yes  No  
 Rush  Observed Temp. °C: \_\_\_\_\_ Corrected Temp. °C: \_\_\_\_\_

# **Appendix D**

## **Photographic Log**

### Photographic Log

<b>Photo Number:</b> #1	
<b>Photo Direction:</b> Northwest	
<b>Photo Description:</b> Initial release area.	

<b>Photo Number:</b> #2	
<b>Photo Direction:</b> Southeast	
<b>Photo Description:</b> Initial release area.	

### Photographic Log

<b>Photo Number:</b> #3	
<b>Photo Direction:</b> Southeast	
<b>Photo Description:</b> Open remediation excavation.	

<b>Photo Number:</b> #4	
<b>Photo Direction:</b> Northwest	
<b>Photo Description:</b> Open remediation excavation.	

### Photographic Log

<b>Photo Number:</b> #5	
<b>Photo Direction:</b> East	
<b>Photo Description:</b> After completion of remediation activities.	

<b>Photo Number:</b> #6	
<b>Photo Direction:</b> Northwest	
<b>Photo Description:</b> After completion of remediation activities.	

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

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

CONDITIONS

Action 202108

**CONDITIONS**

Operator: H L BROWN OPERATING, LLC P.O. Box 2237 Midland, TX 79702	OGRID: 213179
	Action Number: 202108
	Action Type: [C-141] Release Corrective Action (C-141)

**CONDITIONS**

Created By	Condition	Condition Date
jnobui	Closure Report Approved. Please implement 19.15.29.13 NMAC when completing P&A.	5/4/2023