

| | |
|----------------|----------------|
| Incident ID | nAPP2227233275 |
| District RP | |
| Facility ID | |
| Application ID | |


Closure

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

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

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

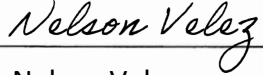
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public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

Printed Name: Jeff Ryan Title: Operations Manager
 Signature:  Date: 8/29/23
 email: jryan@hlboperating.com Telephone: (432) 683-5216

OCD Only

Received by: Shelly Wells Date: 8/29/2023

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

Closure Approved by:  Date: 12/11/2023
 Printed Name: Nelson Velez Title: Environmental Specialist - Adv

Remediation Summary & Soil Closure Request

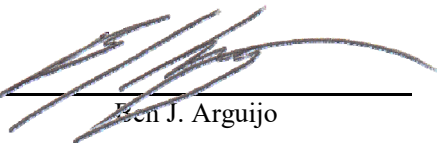
H.L. Brown Operating, LLC Federal G #001

Roosevelt County, New Mexico
Unit Letter "D", Section 3, Township 8 South, Range 37 East
Latitude 33.6546570 North, Longitude 103.146285 West
NMOCD Reference No. nAPP2227233275

Prepared By:

Etech Environmental & Safety Solutions, Inc.

6309 Indiana Ave., Ste. D
Lubbock, Texas 79413


Ben J. Arguijo
Zach Conder

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 (henceforth, "H.L. Brown"), has prepared this *Remediation Summary & Soil Closure Request* for the release site known as the Federal G #001. Details of the release are summarized below:

Location of Release Source

Latitude: 33.6546570 Longitude: -103.146285
Provided GPS are in WGS84 format.

| | | | |
|--------------------------|----------------|------------------------|--------------|
| Site Name: | Federal G #001 | Site Type: | Well Head |
| Date Release Discovered: | 9/7/2022 | API # (if applicable): | 30-041-20504 |

| Unit Letter | Section | Township | Range | County |
|-------------|---------|----------|-------|-----------|
| "D" | 3 | 8S | 37E | Roosevelt |

Surface Owner: ☒ State ☐ Federal ☐ Tribal ☐ Private (Name New Mexico Dept. of Game & Fish)

Nature and Volume of Release

| | | |
|---|---|--|
| <input checked="" type="checkbox"/> Crude Oil | Volume Released (bbls) <u>5</u> | Volume Recovered (bbls) <u>0</u> |
| <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 checked="" 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 historic 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 in the NMOCD Imaging System.

2.0 SITE CHARACTERIZATION

A search of groundwater databases maintained by the New Mexico Office of the State Engineer (NMOSE) and United States Geological Survey (USGS) was conducted in an effort to determine the horizontal distance to known water sources within a half-mile radius of the Federal G #001 release site. Probable groundwater depth was determined using data generated by numeric models based on available water well data and published information. Depth to groundwater information is provided as Appendix A.

| | | |
|---|---|--|
| What is the shallowest depth to groundwater beneath the area affected by the release? | 181' | |
| Did the release impact groundwater or surface water? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of any occupied permanent residence, school, hospital, institution or church? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| Are the lateral extents of the release within 1000 feet of any other fresh water well or spring? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within the incorporated municipal boundaries or within a defined municipal fresh water well field? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of a wetland? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release overlying a subsurface mine? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release overlying an unstable area such as karst geology? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within a 100-year floodplain? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Did the release impact areas not on an exploration, development, production or storage site? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |

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

3.0 CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE

Based on the volume and nature of the release, inferred depth to groundwater, and NMOCD Siting Criteria, the NMOCD Closure Criteria and NMOCD Reclamation Standards for the Federal G #001 release site are as follows:

| Probable Depth to Groundwater | Constituent | Laboratory Analytical Method | Closure Criteria*† | Reclamation Standard*‡ |
|-------------------------------|--|-----------------------------------|--------------------|------------------------|
| 181' | Chloride (Cl-) | EPA 300.0 or SM4500 Cl B | 600 | 600 |
| | Total Petroleum Hydrocarbons (TPH) | EPA SW-846 Method 8015M Ext | 100 | 100 |
| | Gas Range Organics + Diesel Range Organics (GRO + DRO) | EPA SW-846 Method 8015M | N/A | N/A |
| | Benzene | EPA SW-846 Methods 8021b or 8260b | 10 | 10 |
| | Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX) | EPA SW-846 Methods 8021b or 8260b | 50 | 50 |

* Measured in milligrams per kilogram (mg/kg)

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

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

4.0 REMEDIATION ACTIVITIES SUMMARY

On October 26, 2022, remediation activities commenced at the release site. In accordance with NMOCD regulatory guidelines, impacted soil affected above the NMOCD Closure Criteria and/or NMOCD Reclamation Standards was excavated and stockpiled on-site, pending transfer to an NMOCD-permitted surface waste facility for disposal. Olfactory/visual senses and/or a Hach Quantab® chloride test kit were utilized to field-screen the extent of impacted soil and to guide the excavation. The sidewalls of the excavation were advanced until field tests and field observations suggested BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standards. The excavation was initially advanced vertically to approximately four (4) feet below ground surface (bgs).

On November 8, 2022, Etech advanced a test trench (T.T. 1) in the floor of the excavated area in an effort to determine the vertical extent of impacted soil. During the advancement of the test trench, soil samples were collected and field-screened for concentrations of chloride utilizing a chloride test kit and/or the presence of Volatile Organic Compounds (VOCs) utilizing olfactory/visual senses. Based on field observations and field test data, five (5) delineation soil samples (T.T. 1 @ 4', T.T. 1 @ 6', T.T. 1 @ 8', T.T. 1 @ 10', and T.T. 1 @ 12') were submitted to a certified, commercial laboratory (henceforth, "the laboratory") for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX and TPH concentrations were below the applicable NMOCD Closure Criteria, NMOCD Reclamation Standards, and laboratory method detection limit (MDL) in each of the submitted soil samples. Chloride concentrations exceeded the NMOCD Closure Criterion in each of the submitted soil samples and ranged from 2,800 mg/kg in soil sample T.T. 1 @ 6' to 11,900 mg/kg in soil sample T.T. 1 @ 10'.

On November 28, 2022, test trench T.T. 1 was re-entered and advanced to a total depth of 32 feet bgs in an effort to further investigate the vertical extent of impacted soil. To prevent sloughing and collapse of the open hole, the sidewalls of the trench were advanced horizontally in each cardinal direction, creating a "test pit" measuring approximately 25 feet in length, 25 feet in width, and 18 feet in depth. During the advancement of the test pit/trench, soil samples were collected and field-screened for concentrations of chloride utilizing a chloride test kit and/or the presence of VOCs utilizing olfactory/visual senses. Based on field observations and field test data, four (4) delineation soil samples (T.T. 1 @ 20', T.T. 1 @ 24', T.T. 1 @ 28', and T.T. 1 @ 32') were submitted to the laboratory for analysis of chloride. Laboratory analytical results indicated chloride concentrations exceeded the NMOCD Closure Criterion in each of the submitted soil samples and ranged from 4,040 mg/kg in soil sample T.T. 1 @ 32' to 9,330 mg/kg in soil sample T.T. 1 @ 24'.

On November 30, 2022, test pit/trench T.T. 1 was re-entered and advanced to a total depth of 40 feet bgs in an effort to further investigate the vertical extent of impacted soil. During the advancement of the test pit, soil samples were collected and field-screened for concentrations of chloride utilizing a chloride test kit and/or the presence of VOCs utilizing olfactory/visual senses. Based on field observations and field test data, one (1) delineation soil sample (T.T. 1 @ 40') was submitted to the laboratory for analysis of chloride. Laboratory analytical results indicated the chloride concentration was 48.0 mg/kg and below the NMOCD Closure Criterion. Based on these laboratory analytical results, the vertical extent of impacted soil was adequately defined.

On December 5, 2022, Etech advanced a series of test trenches (NH 1, EH 1, SH 1, and WH 1) along the inferred edges of the affected area in an effort to determine the horizontal extent of impacted soil. The test trenches were each advanced to a total depth of 18 feet bgs. During the advancement of the test trenches, soil samples were collected and field-screened for concentrations of chloride utilizing a chloride test kit and/or the presence of VOCs utilizing olfactory/visual senses. Based on field observations and field test data, four (4) delineation soil samples (NH 1 @ 18', EH 1 @ 18', SH 1 @ 18', and WH 1 @ 18') were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria in each of the submitted soil samples. BTEX and TPH concentrations were also below the laboratory MDL. Chloride concentrations ranged from 16.0 mg/kg in soil sample NH 1 @ 18' to 224 mg/kg in soil sample WH 1 @ 18'. Based on these laboratory analytical results, the horizontal extent of impacted soil was adequately defined.

On March 29, 2023, based on laboratory analytical results, field observations, and in-situ chloride migration modeling, H.L. Brown submitted a *Remediation Summary & Variance Request* to the NMOCD requesting a variance to install a 20-mil, string-reinforced liner at approximately six (6) feet bgs atop impacted soil affected above the NMOCD Closure Criteria. The variance request was subsequently approved by the NMOCD, with no added stipulations.

Please reference the *Remediation Summary & Variance Request* (henceforth, "*Variance Request*"), which is available in the NMOCD Imaging System, for additional details regarding the in-situ chloride migration modeling, variance request, and proposed remediation activities.

On June 19, 2023, Etech resumed remediation activities at the release site. In accordance with the NMOCD-approved Variance Request, the uppermost six (6) feet of the test pit sidewalls were advanced horizontally to the areas characterized by test trenches NH 1, EH 1, SH 1, and WH 1. Excavated soil was stockpiled on-site, pending transfer to an NMOCD-permitted surface waste facility for disposal.

On June 21, 2023, Etech collected four (4) composite confirmation soil samples (NW1, EW1, SW1, and WW1) from the sidewalls of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also less than the applicable laboratory MDL. Chloride concentrations ranged from less than the laboratory MDL in soil samples EW1 and SW1 to 144 mg/kg in soil sample WW1.

Upon receipt of laboratory analytical results from the confirmation soil samples, the test pit was backfilled with locally sourced, non-impacted material to approximately six (6) feet bgs. A 20-mil, string-reinforced liner was installed on the floor of the excavated area atop impacted soil affected above the NMOCD Closure Criteria. Approximately six (6) inches of pad material was installed both above and below the liner in an effort to maintain its integrity during backfilling activities. The liner was sloped to facilitate shedding of moisture outside both the footprint of the excavated area and the maximum horizontal extent of impacted soil. This engineered control is designed to inhibit the vertical migration of chloride contamination remaining in-situ.

The final dimensions of the excavated area were approximately 34 feet in length, 28 to 30 feet in width, and six (6) to 18 feet in depth. During the course of remediation activities, Etech transported approximately 544 cubic yards of impacted soil to an NMOCD-permitted surface waste facility for disposal and imported approximately 360 cubic yards of locally sourced, non-impacted material to the site for use as backfill.

The extent of the excavated area/liner and the locations of the test trenches are depicted in Figure 3, "Site & Sample Location Map". Soil chemistry data is summarized in Table 1. Field data is provided in Appendix B. General photographs of the site are provided in Appendix C. Laboratory analytical reports are provided in Appendix D.

5.0 RESTORATION, RECLAMATION & RE-VEGETATION PLAN

Following installation of the aforementioned liner, the excavated area was backfilled with locally sourced, non-impacted, "like" material placed at or near original relative positions. The affected area was contoured and compacted to fit the needs of the facility and to achieve erosion control, stability, and preservation of surface water flow to the extent practicable.

The release was limited to the production pad of an active well and tank battery. Final reclamation and re-vegetation of the affected area will be conducted in accordance with Section 19.15.29.13 NMAC upon decommission and abandonment of the facility.

6.0 SOIL CLOSURE REQUEST

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

A 20-mil, string-reinforced liner was installed on the floor of the excavated area, at approximately six (6) feet bgs, atop impacted soil affected above the NMOCD Closure Criteria. This engineered control is designed to inhibit the vertical migration of chloride contamination remaining in-situ.

Based on laboratory analytical results and field activities conducted to date, Etech recommends H.L. Brown provide copies of this *Remediation Summary & Soil Closure Request* to the appropriate agencies and request closure be granted to the Federal G #001 release site.

7.0 LIMITATIONS

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

This report has been prepared for the benefit of 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 1

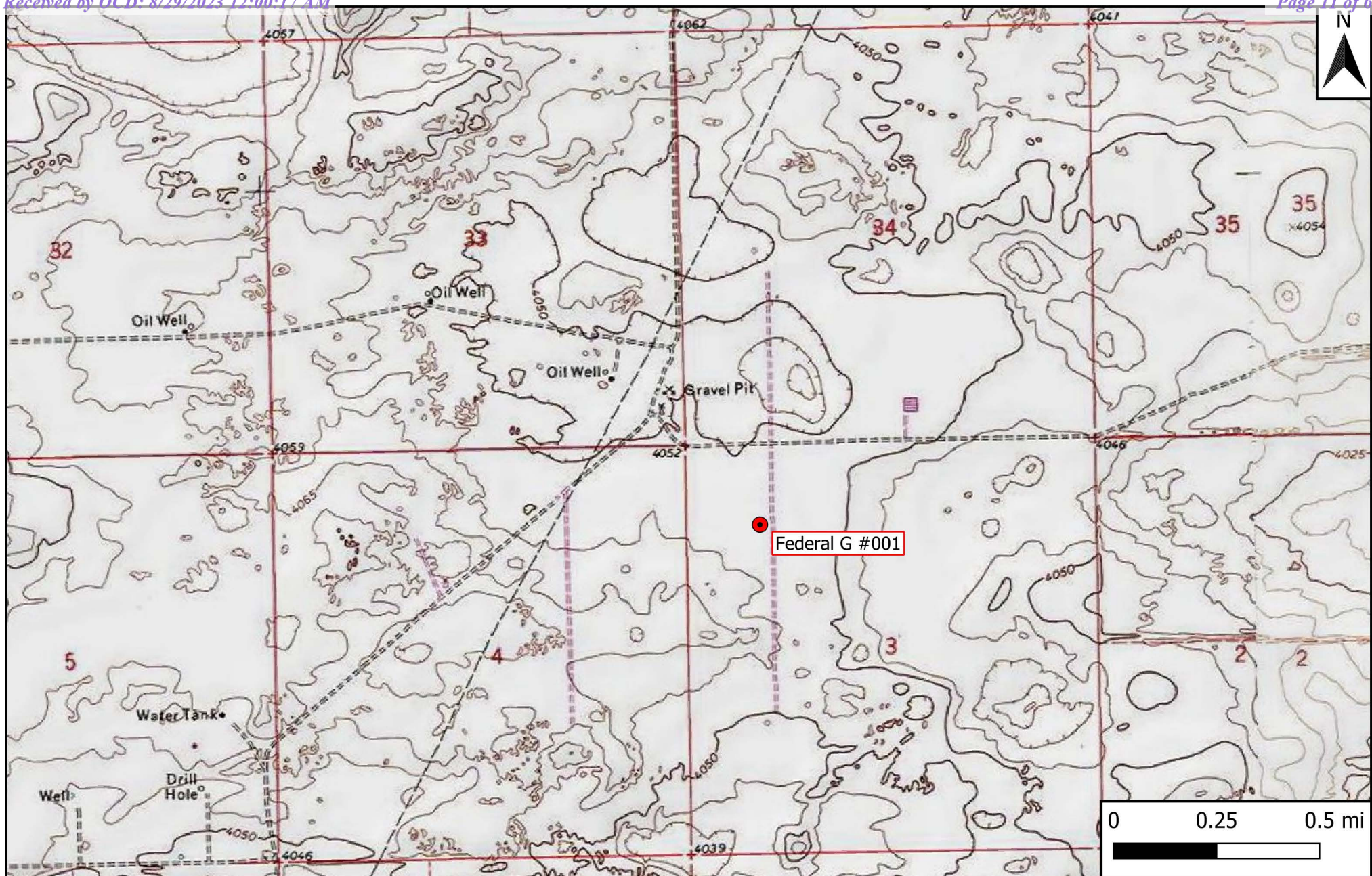
1220 South St. Francis Drive

Santa Fe, NM 87505

(Electronic Submission)

Figure 1

Topographic Map



Legend

- Site Location

Figure 1

Topographic Map
 H.L. Brown Operating, LLC
 Federal G #001
 GPS: 33.654657, -103.146285
 Roosevelt County



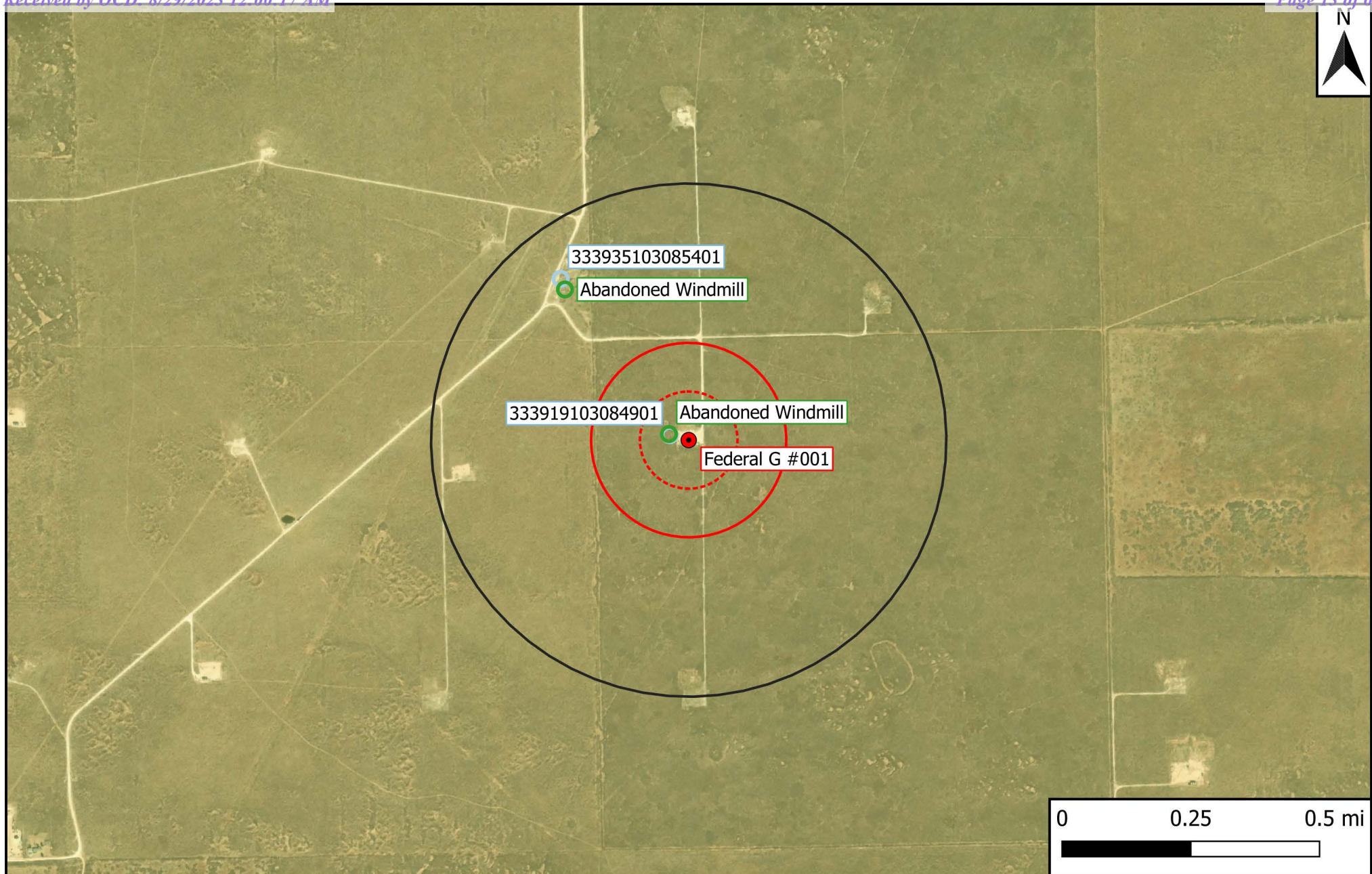
Drafted: bja

Checked: zc

Date: 1/9/23

Figure 2

Site Characterization Map



Legend

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

Figure 2

Site Characterization Map
H.L. Brown Operating, LLC
Federal G #001
GPS: 33.654657, -103.146285
Roosevelt County



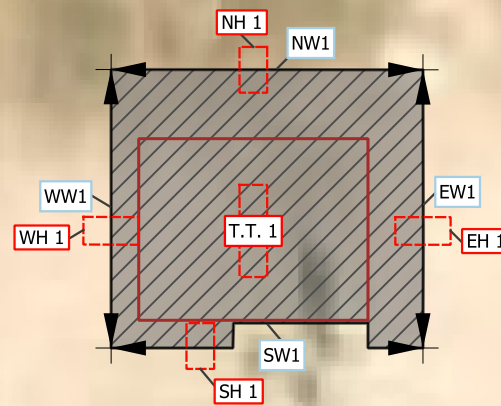
Drafted: bja

Checked: zc

Date: 3/9/23

Figure 3

Site & Sample Location Map



Legend

- | | |
|------------------------|-----------------------|
| Excavation Extent | Composite Wall Sample |
| Historical Reserve Pit | Test Pit (≈18' bgs) |
| Liner (≈6' bgs) | Test Trench |
| Pipeline | |

Figure 3

Site & Sample Location Map
 H.L. Brown Operating, LLC
 Federal G #001
 GPS: 33.654657, -103.146285
 Roosevelt County



Drafted: bja

Checked: zc

Date: 8/23/23

Table 1
Concentrations of BTEX, TPH & Chloride in Soil

| Table 1 Concentrations of BTEX, TPH & Chloride in Soil H.L. Brown Operating, LLC Federal G #001 NMOCD Ref. #: nAPP2227233275 | | | | | | | | | | | |
|--|------------|--------------|-------------|-----------------|--------------|---|--|---|--|---|------------------|
| NMOCD Closure Criteria | | | | 10 | 50 | N/A | N/A | N/A | N/A | 100 | 600 |
| NMOCD Reclamation Standard | | | | 10 | 50 | N/A | N/A | N/A | N/A | 100 | 600 |
| Sample ID | Date | Depth (Feet) | Soil Status | SW 846 8021B | | SW 846 8015M Ext. | | | | | 4500 Cl |
| | | | | Benzene (mg/kg) | BTEX (mg/kg) | GRO C ₆ -C ₁₀ (mg/kg) | DRO C ₁₀ -C ₂₈ (mg/kg) | GRO + DRO C ₆ -C ₂₈ (mg/kg) | ORO C ₂₈ -C ₃₆ (mg/kg) | TPH C ₆ -C ₃₆ (mg/kg) | Chloride (mg/kg) |
| Delineation Samples | | | | | | | | | | | |
| T.T. 1 @ 4' | 11/8/2022 | 4 | Excavated | <0.050 | <0.300 | <10.0 | <10.0 | <20.0 | <10.0 | <30.0 | 7,200 |
| T.T. 1 @ 6' | 11/8/2022 | 6 | Excavated | <0.050 | <0.300 | <10.0 | <10.0 | <20.0 | <10.0 | <30.0 | 2,800 |
| T.T. 1 @ 8' | 11/8/2022 | 8 | Excavated | <0.050 | <0.300 | <10.0 | <10.0 | <20.0 | <10.0 | <30.0 | 11,300 |
| T.T. 1 @ 10' | 11/8/2022 | 10 | Excavated | <0.050 | <0.300 | <10.0 | <10.0 | <20.0 | <10.0 | <30.0 | 11,900 |
| T.T. 1 @ 12' | 11/8/2022 | 12 | Excavated | <0.050 | <0.300 | <10.0 | <10.0 | <20.0 | <10.0 | <30.0 | 11,800 |
| T.T. 1 @ 20' | 11/28/2022 | 20 | In-Situ | - | - | - | - | - | - | - | 7,680 |
| T.T. 1 @ 24' | 11/28/2022 | 24 | In-Situ | - | - | - | - | - | - | - | 9,330 |
| T.T. 1 @ 28' | 11/28/2022 | 28 | In-Situ | - | - | - | - | - | - | - | 7,200 |
| T.T. 1 @ 32' | 11/28/2022 | 32 | In-Situ | - | - | - | - | - | - | - | 4,040 |
| T.T. 1 @ 40' | 11/30/2022 | 40 | In-Situ | - | - | - | - | - | - | - | 48.0 |
| NH 1 @ 18' | 12/5/2022 | 18 | In-Situ | <0.050 | <0.300 | <10.0 | <10.0 | <20.0 | <10.0 | <30.0 | 16.0 |
| EH 1 @ 18' | 12/5/2022 | 18 | In-Situ | <0.050 | <0.300 | <10.0 | <10.0 | <20.0 | <10.0 | <30.0 | 176 |
| SH 1 @ 18' | 12/5/2022 | 18 | In-Situ | <0.050 | <0.300 | <10.0 | <10.0 | <20.0 | <10.0 | <30.0 | 192 |
| WH 1 @ 18' | 12/5/2022 | 18 | In-Situ | <0.050 | <0.300 | <10.0 | <10.0 | <20.0 | <10.0 | <30.0 | 224 |
| Excavation Samples | | | | | | | | | | | |
| NW1 | 6/21/2023 | 0-6 | In-Situ | <0.050 | <0.300 | <10.0 | <10.0 | <20.0 | <10.0 | <30.0 | 48.0 |
| EW1 | 6/21/2023 | 0-6 | In-Situ | <0.050 | <0.300 | <10.0 | <10.0 | <20.0 | <10.0 | <30.0 | <16 |
| SW1 | 6/21/2023 | 0-6 | In-Situ | <0.050 | <0.300 | <10.0 | <10.0 | <20.0 | <10.0 | <30.0 | <16 |
| WW1 | 6/21/2023 | 0-6 | In-Situ | <0.050 | <0.300 | <10.0 | <10.0 | <20.0 | <10.0 | <30.0 | 144 |

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

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

Appendix A

Depth to Groundwater Information



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

No records found.

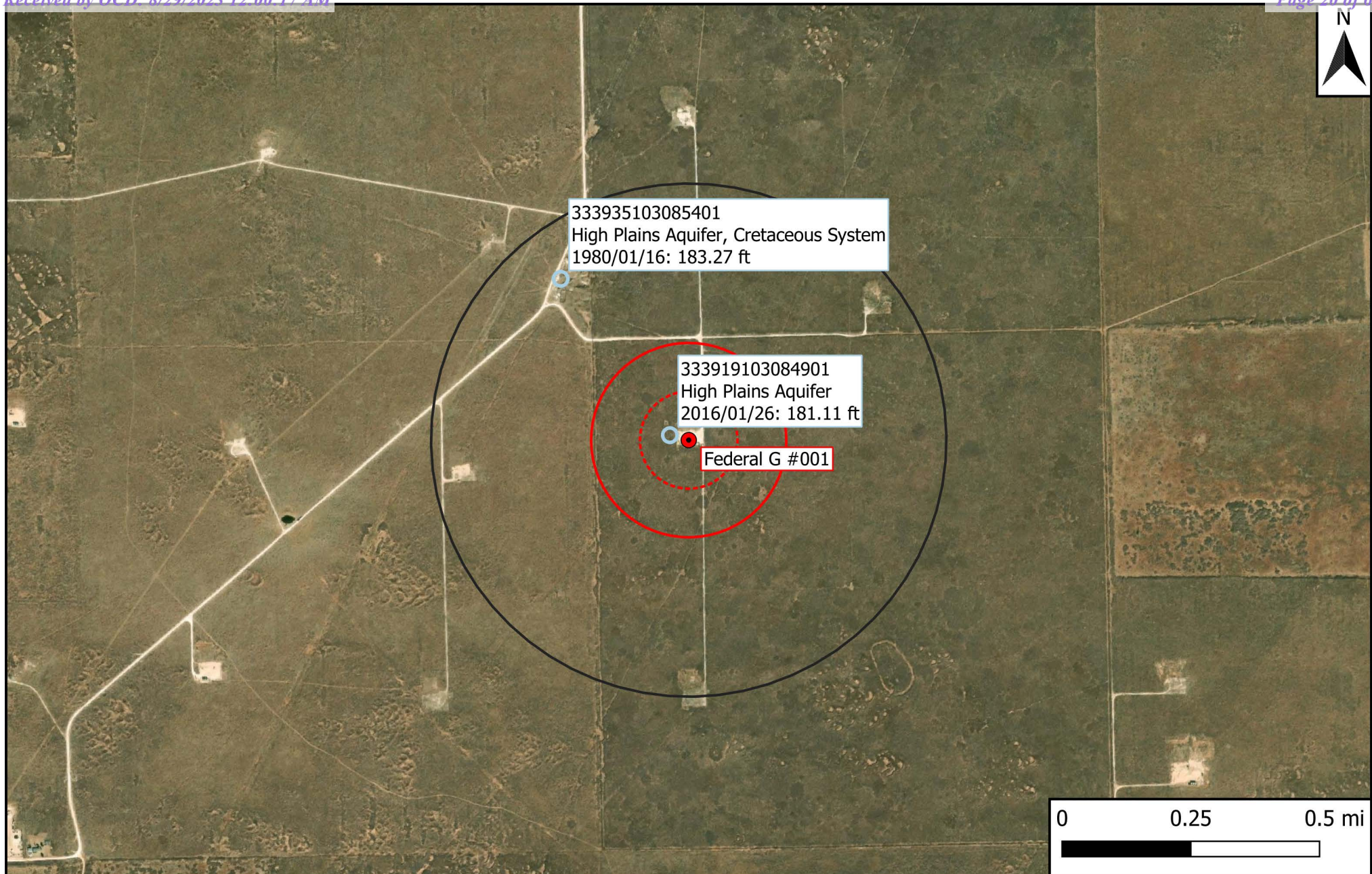
UTMNAD83 Radius Search (in meters):

Easting (X): 671889.86 **Northing (Y):** 3725414.63 **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 9:20 AM

WATER COLUMN/ AVERAGE
DEPTH TO WATER



Legend

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

Figure 4

USGS Well Proximity Map
H.L. Brown Operating, LLC
Federal G #001
GPS: 33.654657, -103.146285
Roosevelt County



Drafted: bja

Checked: zc

Date: 1/9/23



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[Contact USGS](#)
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National Water Information System: Web Interface

[USGS Water Resources](#)

Data Category:

Groundwater

Geographic Area:

United States

GO



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Groundwater levels for the Nation



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

Search Results -- 1 sites found

Agency code = usgs

site_no list =

• 333919103084901

Minimum number of levels = 1

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

USGS 333919103084901 08S.37E.03.11322

Roosevelt County, New Mexico

Latitude 33°39'17.3", Longitude 103°08'48.9" NAD83

Land-surface elevation 4,055 feet above NAVD88

The depth of the well is 184 feet below land surface.

This well is completed in the High Plains aquifer (N100HGHPN) national aquifer.

Output formats

[Table of data](#)

[Tab-separated data](#)

[Graph of data](#)

[Reselect period](#)

| Date | Time | Water-level date-time accuracy | Parameter code | Water level, feet below land surface | Water level, feet above specific vertical datum | Referenced vertical datum | Status | Method of measurement | Measuring agency | Source of measurement | Water-level approval status |
|------------|-----------|--------------------------------|----------------|--------------------------------------|---|---------------------------|--------|-----------------------|------------------|-----------------------|-----------------------------|
| 1995-02-08 | | D | 72019 | 177.76 | | | 1 | S | USGS | S | A |
| 2016-01-26 | 18:00 UTC | m | 72019 | 181.11 | | | 1 | S | USGS | S | A |

| Explanation | | |
|--------------------------------|--------|--|
| Section | Code | Description |
| Water-level date-time accuracy | D | Date is accurate to the Day |
| Water-level date-time accuracy | m | Date is accurate to the Minute |
| Parameter code | 62610 | Groundwater level above NGVD 1929, feet |
| Parameter code | 62611 | Groundwater level above NAVD 1988, feet |
| Parameter code | 72019 | Depth to water level, feet below land surface |
| Referenced vertical datum | NAVD88 | North American Vertical Datum of 1988 |
| Referenced vertical datum | NGVD29 | National Geodetic Vertical Datum of 1929 |
| Status | 1 | Static |
| Method of measurement | S | Steel-tape measurement. |
| Measuring agency | USGS | U.S. Geological Survey |
| Source of measurement | S | Measured by personnel of reporting agency. |
| Water-level approval status | A | Approved for publication -- Processing and review completed. |

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[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)

Title: Groundwater for USA: Water Levels

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



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

Page Last Modified: 2023-01-16 21:12:18 EST

0.3 0.25 nadww01



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National Water Information System: Web Interface

[USGS Water Resources](#)

Data Category:

Groundwater

Geographic Area:

United States

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Groundwater levels for the Nation



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

Search Results -- 1 sites found

Agency code = usgs

site_no list =

- 333935103085401

Minimum number of levels = 1

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

USGS 333935103085401 07S.37E.33.444213

Roosevelt County, New Mexico

Latitude 33°39'33", Longitude 103°09'00" NAD27

Land-surface elevation 4,049.00 feet above NGVD29

The depth of the well is 208 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

[Table of data](#)

[Tab-separated data](#)

[Graph of data](#)

[Reselect period](#)

| Date | Time | Water-level date-time accuracy | Parameter code | Water level, feet below land surface | Water level, feet above specific vertical datum | Referenced vertical datum | Status | Method of measurement | Measuring agency | Source of measurement | Water-level approval status |
|------------|------|--------------------------------|----------------|--------------------------------------|---|---------------------------|--------|-----------------------|------------------|-----------------------|-----------------------------|
| 1980-01-16 | | D | 72019 | 183.27 | | | 1 | Z | | | A |

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

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

Page Last Modified: 2023-01-16 21:13:29 EST

0.32 0.24 nadww01

Appendix B

Field Data



10/20/22

$$600 / 100$$

-103.146262

Appendix C

Photographic Log

Photographic Log

| | |
|---|--|
| Photo Number: 1 |  <p>9/7/2022 33.654829,-103.146299</p> |
| Photo Direction: North-Northeast | |
| Photo Description: View of the affected area. | |


| | |
|---|--|
| Photo Number: 2 |  <p>9/7/2022 33.654869,-103.146307</p> |
| Photo Direction: Northeast | |
| Photo Description: View of the affected area. | |


Photographic Log

| | |
|--|--|
| Photo Number: 3 |  |
| Photo Direction: Southwest | |
| Photo Description: View of the excavated area & test pit/trench. | |

| | |
|---|--|
| Photo Number: 4 |  |
| Photo Direction: South | |
| Photo Description: View of the advancement of test trench T.T. 1. | |

Photographic Log

| | |
|--|---|
| Photo Number: 5 | <div>Jun 27, 2023 at 9:04:10 AM +33.654986,-103.146097</div>  |
| Photo Direction: West | |
| Photo Description: View of the excavated area. | |

| | |
|---|--|
| Photo Number: 6 | <div>Jun 27, 2023 at 10:32:11 AM +33.654986,-103.146097</div>  |
| Photo Direction: Northwest | |
| Photo Description: View of the installed liner. | |

Photographic Log

| | |
|--|--|
| Photo Number: 7 | <div>Jun 30, 2023 at 12:35:34 PM +33.654978,-103.145829</div>  |
| Photo Direction: West | |
| Photo Description: View of the remediated area after backfill and regrading. | |

Appendix D

Laboratory Analytical Reports



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

November 14, 2022

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: FEDERAL G 001

Enclosed are the results of analyses for samples received by the laboratory on 11/10/22 8:59.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

| | | | |
|-------------------|----------------------------------|---------------------|------------------|
| Received: | 11/10/2022 | Sampling Date: | 11/08/2022 |
| Reported: | 11/14/2022 | Sampling Type: | Soil |
| Project Name: | FEDERAL G 001 | Sampling Condition: | Cool & Intact |
| Project Number: | 16854 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | HL BROWN-RURAL ROOSEVELT CO., NM | | |

Sample ID: T.T. 1 @ 4' (H225314-01)

| BTX 8021B | | mg/kg | | Analyzed By: JH | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 11/12/2022 | ND | 2.01 | 101 | 2.00 | 6.63 | |
| Toluene* | <0.050 | 0.050 | 11/12/2022 | ND | 2.11 | 105 | 2.00 | 5.27 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/12/2022 | ND | 2.01 | 101 | 2.00 | 4.22 | |
| Total Xylenes* | <0.150 | 0.150 | 11/12/2022 | ND | 6.06 | 101 | 6.00 | 3.01 | |
| Total BTX | <0.300 | 0.300 | 11/12/2022 | ND | | | | | |

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

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 7200 | 16.0 | 11/11/2022 | ND | 416 | 104 | 400 | 0.00 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 11/11/2022 | ND | 193 | 96.3 | 200 | 3.74 | |
| DRO >C10-C28* | <10.0 | 10.0 | 11/11/2022 | ND | 203 | 102 | 200 | 6.14 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 11/11/2022 | ND | | | | | |

Surrogate: 1-Chlorooctane 96.3 % 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



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

| | | | |
|-------------------|----------------------------------|---------------------|------------------|
| Received: | 11/10/2022 | Sampling Date: | 11/08/2022 |
| Reported: | 11/14/2022 | Sampling Type: | Soil |
| Project Name: | FEDERAL G 001 | Sampling Condition: | Cool & Intact |
| Project Number: | 16854 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | HL BROWN-RURAL ROOSEVELT CO., NM | | |

Sample ID: T.T. 1 @ 6' (H225314-02)

| 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 | 11/12/2022 | ND | 2.01 | 101 | 2.00 | 6.63 | | |
| Toluene* | <0.050 | 0.050 | 11/12/2022 | ND | 2.11 | 105 | 2.00 | 5.27 | | |
| Ethylbenzene* | <0.050 | 0.050 | 11/12/2022 | ND | 2.01 | 101 | 2.00 | 4.22 | | |
| Total Xylenes* | <0.150 | 0.150 | 11/12/2022 | ND | 6.06 | 101 | 6.00 | 3.01 | | |
| Total BTEx | <0.300 | 0.300 | 11/12/2022 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 87.8 % 69.9-140

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 2800 | 16.0 | 11/11/2022 | ND | 416 | 104 | 400 | 0.00 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 11/11/2022 | ND | 193 | 96.3 | 200 | 3.74 | |
| DRO >C10-C28* | <10.0 | 10.0 | 11/11/2022 | ND | 203 | 102 | 200 | 6.14 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 11/11/2022 | ND | | | | | |

Surrogate: 1-Chlorooctane 98.0 % 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: | 11/10/2022 | Sampling Date: | 11/08/2022 |
| Reported: | 11/14/2022 | Sampling Type: | Soil |
| Project Name: | FEDERAL G 001 | Sampling Condition: | Cool & Intact |
| Project Number: | 16854 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | HL BROWN-RURAL ROOSEVELT CO., NM | | |

Sample ID: T.T. 1 @ 8' (H225314-03)

| 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 | 11/12/2022 | ND | 2.01 | 101 | 2.00 | 6.63 | | |
| Toluene* | <0.050 | 0.050 | 11/12/2022 | ND | 2.11 | 105 | 2.00 | 5.27 | | |
| Ethylbenzene* | <0.050 | 0.050 | 11/12/2022 | ND | 2.01 | 101 | 2.00 | 4.22 | | |
| Total Xylenes* | <0.150 | 0.150 | 11/12/2022 | ND | 6.06 | 101 | 6.00 | 3.01 | | |
| Total BTEx | <0.300 | 0.300 | 11/12/2022 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 85.3 % 69.9-140

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 11300 | 16.0 | 11/11/2022 | ND | 416 | 104 | 400 | 0.00 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 11/11/2022 | ND | 193 | 96.3 | 200 | 3.74 | |
| DRO >C10-C28* | <10.0 | 10.0 | 11/11/2022 | ND | 203 | 102 | 200 | 6.14 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 11/11/2022 | ND | | | | | |

Surrogate: 1-Chlorooctane 90.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 100 % 46.3-178

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 HOBBS NM, 88240
 Fax To:

| | | | |
|-------------------|----------------------------------|---------------------|------------------|
| Received: | 11/10/2022 | Sampling Date: | 11/08/2022 |
| Reported: | 11/14/2022 | Sampling Type: | Soil |
| Project Name: | FEDERAL G 001 | Sampling Condition: | Cool & Intact |
| Project Number: | 16854 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | HL BROWN-RURAL ROOSEVELT CO., NM | | |

Sample ID: T.T. 1 @ 10' (H225314-04)

| BTEx 8021B | | mg/kg | | Analyzed By: JH | | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 11/12/2022 | ND | 2.01 | 101 | 2.00 | 6.63 | | |
| Toluene* | <0.050 | 0.050 | 11/12/2022 | ND | 2.11 | 105 | 2.00 | 5.27 | | |
| Ethylbenzene* | <0.050 | 0.050 | 11/12/2022 | ND | 2.01 | 101 | 2.00 | 4.22 | | |
| Total Xylenes* | <0.150 | 0.150 | 11/12/2022 | ND | 6.06 | 101 | 6.00 | 3.01 | | |
| Total BTEx | <0.300 | 0.300 | 11/12/2022 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 87.3 % 69.9-140

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 11900 | 16.0 | 11/11/2022 | ND | 416 | 104 | 400 | 0.00 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 11/11/2022 | ND | 193 | 96.3 | 200 | 3.74 | |
| DRO >C10-C28* | <10.0 | 10.0 | 11/11/2022 | ND | 203 | 102 | 200 | 6.14 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 11/11/2022 | ND | | | | | |

Surrogate: 1-Chlorooctane 85.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 91.9 % 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: | 11/10/2022 | Sampling Date: | 11/08/2022 |
| Reported: | 11/14/2022 | Sampling Type: | Soil |
| Project Name: | FEDERAL G 001 | Sampling Condition: | Cool & Intact |
| Project Number: | 16854 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | HL BROWN-RURAL ROOSEVELT CO., NM | | |

Sample ID: T.T. 1 @ 12' (H225314-05)

| 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 | 11/12/2022 | ND | 2.01 | 101 | 2.00 | 6.63 | |
| Toluene* | <0.050 | 0.050 | 11/12/2022 | ND | 2.11 | 105 | 2.00 | 5.27 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/12/2022 | ND | 2.01 | 101 | 2.00 | 4.22 | |
| Total Xylenes* | <0.150 | 0.150 | 11/12/2022 | ND | 6.06 | 101 | 6.00 | 3.01 | |
| Total BTEx | <0.300 | 0.300 | 11/12/2022 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 82.9 % 69.9-140

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 11800 | 16.0 | 11/11/2022 | ND | 416 | 104 | 400 | 0.00 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 11/11/2022 | ND | 193 | 96.3 | 200 | 3.74 | |
| DRO >C10-C28* | <10.0 | 10.0 | 11/11/2022 | ND | 203 | 102 | 200 | 6.14 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 11/11/2022 | ND | | | | | |

Surrogate: 1-Chlorooctane 82.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 88.0 % 46.3-178

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

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*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603
(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7020

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1/1

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|-------------|--|---------------------|--|--------------|--|---|--|------------|--|---------|--|-----|--|-------------------------|--|--------|--|------------|--|------------|--|---------|--|------|--|------|--|
| Company Name: Etech Environmental & Safety Solutions | | | | BILL TO | | | | | | | | | | | | ANALYSIS REQUEST | | | | | | | | | | | | | |
| Project Manager: Joe L. Lowry | | | | P.O. #: | | | | <div style="display: flex; flex-direction: column; align-items: center;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div> | | | | | | | | | | | | | | | | | | | | | |
| Address: 2617 West Marland | | | | Company: H.L. Brown | | | | | | | | | | | | | | | | | | | | | | | | | |
| City: Hobbs State: NM Zip: 88240 | | | | Attn: | | | | | | | | | | | | | | | | | | | | | | | | | |
| Phone #: (575) 264-9884 Fax #: | | | | Address: | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project #: 16854 Project Owner: | | | | City: | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project Name: Federal G 001 | | | | State: Zip: | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project Location: Rural Roosevelt Co, NM | | | | Phone #: | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sampler Name: Miguel Ramirez | | | | Fax #: | | | | | | | | | | | | | | | | | | | | | | | | | |
| FOR LAB USE ONLY | | | | | | | | MATRIX | | | | PRESERV | | | | SAMPLING | | | | | | | | | | | | | |
| Lab I.D. | | Sample I.D. | | (G)RAB OR (C)OMP. | | # CONTAINERS | | GROUNDWATER | | WASTEWATER | | SOIL | | OIL | | SLUDGE | | OTHER: | | ACID/BASE: | | ICE / COOL | | OTHER: | | DATE | | TIME | |
| H225314 | | | | G | | 1 | | | | | | X | | | | | | | | X | | X | | 11/9/22 | | | | | |
| 1 | | T.T. 104' | | ↓ | | ↓ | | | | | | | | | | | | | | ↓ | | ↓ | | ↓ | | | | | |
| 2 | | T.T. 106' | | ↓ | | ↓ | | | | | | | | | | | | | | ↓ | | ↓ | | ↓ | | | | | |
| 3 | | T.T. 108' | | ↓ | | ↓ | | | | | | | | | | | | | | ↓ | | ↓ | | ↓ | | | | | |
| 4 | | T.T. 1010' | | ↓ | | ↓ | | | | | | | | | | | | | | ↓ | | ↓ | | ↓ | | | | | |
| 5 | | T.T. 1012' | | ↓ | | ↓ | | | | | | | | | | | | | | ↓ | | ↓ | | ↓ | | | | | |

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| | | | | | | | | | |
|------------------------------|--|----------------|--|------------------------|--|---|--|----------------|--|
| Relinquished By: | | Date: 11/10/22 | | Received By: | | Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | Add'l Phone #: | |
| Time: 1:59 | | Time: 1:59 | | | | Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | Add'l Fax #: | |
| Relinquished By: | | Date: | | Received By: | | REMARKS: email results pm@etechenv.com Standard | | | |
| Time: | | Time: | | Time: | | | | | |
| Delivered By: (Circle One) | | -4.12°C 0.112 | | Sample Condition | | | | | |
| Sampler - UPS - Bus - Other: | | -4.72°C #113 | | Cool Intact | | | | | |
| | | | | Yes Yes | | | | | |
| | | | | No No | | | | | |
| | | | | CHECKED BY: (initials) | | | | | |
| | | | | SK | | | | | |

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



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

November 30, 2022

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: FEDERAL G 001

Enclosed are the results of analyses for samples received by the laboratory on 11/28/22 15:55.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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: | 11/28/2022 | Sampling Date: | 11/28/2022 |
| Reported: | 11/30/2022 | Sampling Type: | Soil |
| Project Name: | FEDERAL G 001 | Sampling Condition: | ** (See Notes) |
| Project Number: | 16854 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | HL BROWN-RURAL ROOSEVELT CO., NM | | |

Sample ID: T.T. 1 @ 20' (H225573-01)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 7680 | 16.0 | 11/29/2022 | ND | 448 | 112 | 400 | 0.00 | |

Sample ID: T.T. 1 @ 24' (H225573-02)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 9330 | 16.0 | 11/29/2022 | ND | 448 | 112 | 400 | 0.00 | |

Sample ID: T.T. 1 @ 28' (H225573-03)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 7200 | 16.0 | 11/29/2022 | ND | 448 | 112 | 400 | 0.00 | |

Sample ID: T.T. 1 @ 32' (H225573-04)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 4040 | 16.0 | 11/29/2022 | ND | 448 | 112 | 400 | 0.00 | |

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager

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

December 05, 2022

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: FEDERAL G 001

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.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

| | | | |
|-------------------|----------------------------------|---------------------|----------------|
| Received: | 11/30/2022 | Sampling Date: | 11/30/2022 |
| Reported: | 12/05/2022 | Sampling Type: | Soil |
| Project Name: | FEDERAL G 001 | Sampling Condition: | Cool & Intact |
| Project Number: | 16854 | Sample Received By: | Tamara Oldaker |
| Project Location: | HL BROWN-RURAL ROOSEVELT CO., NM | | |

Sample ID: T.T. 1 @ 40' (H225611-01)**Chloride, SM4500Cl-B****mg/kg****Analyzed By: AC**

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|-----------------|-------------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Chloride | 48.0 | 16.0 | 12/02/2022 | ND | 432 | 108 | 400 | 0.00 | |

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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

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

[illegible]



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

December 12, 2022

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: FEDERAL G 001

Enclosed are the results of analyses for samples received by the laboratory on 12/05/22 12:50.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

| | | | |
|-------------------|----------------------------------|---------------------|----------------|
| Received: | 12/05/2022 | Sampling Date: | 12/05/2022 |
| Reported: | 12/12/2022 | Sampling Type: | Soil |
| Project Name: | FEDERAL G 001 | Sampling Condition: | ** (See Notes) |
| Project Number: | 16854 | Sample Received By: | Tamara Oldaker |
| Project Location: | HL BROWN-RURAL ROOSEVELT CO., NM | | |

Sample ID: NH 1 @ 18' (H225689-01)

| BTX 8021B | | mg/kg | | Analyzed By: JH | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 12/08/2022 | ND | 2.09 | 105 | 2.00 | 2.61 | |
| Toluene* | <0.050 | 0.050 | 12/08/2022 | ND | 2.19 | 110 | 2.00 | 2.86 | |
| Ethylbenzene* | <0.050 | 0.050 | 12/08/2022 | ND | 2.13 | 107 | 2.00 | 2.10 | |
| Total Xylenes* | <0.150 | 0.150 | 12/08/2022 | ND | 6.50 | 108 | 6.00 | 2.48 | |
| Total BTX | <0.300 | 0.300 | 12/08/2022 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 69.9-140

| 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 | 12/08/2022 | ND | 416 | 104 | 400 | 3.77 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 12/06/2022 | ND | 178 | 89.1 | 200 | 10.3 | |
| DRO >C10-C28* | <10.0 | 10.0 | 12/06/2022 | ND | 193 | 96.4 | 200 | 9.36 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 12/06/2022 | ND | | | | | |

Surrogate: 1-Chlorooctane 64.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 69.8 % 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

Analytical Results For:

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

| | | | |
|-------------------|----------------------------------|---------------------|----------------|
| Received: | 12/05/2022 | Sampling Date: | 12/05/2022 |
| Reported: | 12/12/2022 | Sampling Type: | Soil |
| Project Name: | FEDERAL G 001 | Sampling Condition: | ** (See Notes) |
| Project Number: | 16854 | Sample Received By: | Tamara Oldaker |
| Project Location: | HL BROWN-RURAL ROOSEVELT CO., NM | | |

Sample ID: EH 1 @ 18' (H225689-02)

| 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 | 12/08/2022 | ND | 2.09 | 105 | 2.00 | 2.61 | | |
| Toluene* | <0.050 | 0.050 | 12/08/2022 | ND | 2.19 | 110 | 2.00 | 2.86 | | |
| Ethylbenzene* | <0.050 | 0.050 | 12/08/2022 | ND | 2.13 | 107 | 2.00 | 2.10 | | |
| Total Xylenes* | <0.150 | 0.150 | 12/08/2022 | ND | 6.50 | 108 | 6.00 | 2.48 | | |
| Total BTEx | <0.300 | 0.300 | 12/08/2022 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 69.9-140

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 176 | 16.0 | 12/08/2022 | ND | 416 | 104 | 400 | 3.77 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 12/06/2022 | ND | 178 | 89.1 | 200 | 10.3 | |
| DRO >C10-C28* | <10.0 | 10.0 | 12/06/2022 | ND | 193 | 96.4 | 200 | 9.36 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 12/06/2022 | ND | | | | | |

Surrogate: 1-Chlorooctane 72.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 77.3 % 46.3-178

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

| | | | |
|-------------------|----------------------------------|---------------------|----------------|
| Received: | 12/05/2022 | Sampling Date: | 12/05/2022 |
| Reported: | 12/12/2022 | Sampling Type: | Soil |
| Project Name: | FEDERAL G 001 | Sampling Condition: | ** (See Notes) |
| Project Number: | 16854 | Sample Received By: | Tamara Oldaker |
| Project Location: | HL BROWN-RURAL ROOSEVELT CO., NM | | |

Sample ID: SH 1 @ 18' (H225689-03)

| 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 | 12/08/2022 | ND | 2.09 | 105 | 2.00 | 2.61 | | |
| Toluene* | <0.050 | 0.050 | 12/08/2022 | ND | 2.19 | 110 | 2.00 | 2.86 | | |
| Ethylbenzene* | <0.050 | 0.050 | 12/08/2022 | ND | 2.13 | 107 | 2.00 | 2.10 | | |
| Total Xylenes* | <0.150 | 0.150 | 12/08/2022 | ND | 6.50 | 108 | 6.00 | 2.48 | | |
| Total BTEx | <0.300 | 0.300 | 12/08/2022 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 192 | 16.0 | 12/08/2022 | ND | 416 | 104 | 400 | 3.77 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 12/07/2022 | ND | 194 | 96.9 | 200 | 4.87 | |
| DRO >C10-C28* | <10.0 | 10.0 | 12/07/2022 | ND | 168 | 84.1 | 200 | 10.6 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 12/07/2022 | ND | | | | | |

Surrogate: 1-Chlorooctane 95.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 90.2 % 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: | 12/05/2022 | Sampling Date: | 12/05/2022 |
| Reported: | 12/12/2022 | Sampling Type: | Soil |
| Project Name: | FEDERAL G 001 | Sampling Condition: | ** (See Notes) |
| Project Number: | 16854 | Sample Received By: | Tamara Oldaker |
| Project Location: | HL BROWN-RURAL ROOSEVELT CO., NM | | |

Sample ID: WH 1 @ 18' (H225689-04)

| BTEx 8021B | | mg/kg | | Analyzed By: JH | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 12/08/2022 | ND | 2.09 | 105 | 2.00 | 2.61 | |
| Toluene* | <0.050 | 0.050 | 12/08/2022 | ND | 2.19 | 110 | 2.00 | 2.86 | |
| Ethylbenzene* | <0.050 | 0.050 | 12/08/2022 | ND | 2.13 | 107 | 2.00 | 2.10 | |
| Total Xylenes* | <0.150 | 0.150 | 12/08/2022 | ND | 6.50 | 108 | 6.00 | 2.48 | |
| Total BTEx | <0.300 | 0.300 | 12/08/2022 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 224 | 16.0 | 12/08/2022 | ND | 416 | 104 | 400 | 3.77 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 12/07/2022 | ND | 194 | 96.9 | 200 | 4.87 | |
| DRO >C10-C28* | <10.0 | 10.0 | 12/07/2022 | ND | 168 | 84.1 | 200 | 10.6 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 12/07/2022 | ND | | | | | |

Surrogate: 1-Chlorooctane 91.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 85.0 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

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

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

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

[illegible]



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

June 23, 2023

ZACH CONDER

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: FEDERAL G 001

Enclosed are the results of analyses for samples received by the laboratory on 06/22/23 15:23.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

| | | | |
|-------------------|----------------------------------|---------------------|----------------|
| Received: | 06/22/2023 | Sampling Date: | 06/21/2023 |
| Reported: | 06/23/2023 | Sampling Type: | Soil |
| Project Name: | FEDERAL G 001 | Sampling Condition: | Cool & Intact |
| Project Number: | 16854 | Sample Received By: | Tamara Oldaker |
| Project Location: | HL BROWN-RURAL ROOSEVELT CO., NM | | |

Sample ID: NW 1 (H233247-01)

| BTX 8021B | | mg/kg | | Analyzed By: MS | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 06/23/2023 | ND | 2.15 | 107 | 2.00 | 1.10 | |
| Toluene* | <0.050 | 0.050 | 06/23/2023 | ND | 2.09 | 105 | 2.00 | 0.169 | |
| Ethylbenzene* | <0.050 | 0.050 | 06/23/2023 | ND | 2.08 | 104 | 2.00 | 0.865 | |
| Total Xylenes* | <0.150 | 0.150 | 06/23/2023 | ND | 6.32 | 105 | 6.00 | 0.914 | |
| Total BTX | <0.300 | 0.300 | 06/23/2023 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 48.0 | 16.0 | 06/23/2023 | ND | 432 | 108 | 400 | 3.77 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 06/23/2023 | ND | 161 | 80.7 | 200 | 2.48 | |
| DRO >C10-C28* | <10.0 | 10.0 | 06/23/2023 | ND | 162 | 80.8 | 200 | 0.436 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 06/23/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

| | | | |
|-------------------|----------------------------------|---------------------|----------------|
| Received: | 06/22/2023 | Sampling Date: | 06/21/2023 |
| Reported: | 06/23/2023 | Sampling Type: | Soil |
| Project Name: | FEDERAL G 001 | Sampling Condition: | Cool & Intact |
| Project Number: | 16854 | Sample Received By: | Tamara Oldaker |
| Project Location: | HL BROWN-RURAL ROOSEVELT CO., NM | | |

Sample ID: EW 1 (H233247-02)

| BTX 8021B | | mg/kg | | Analyzed By: MS | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 06/23/2023 | ND | 2.15 | 107 | 2.00 | 1.10 | |
| Toluene* | <0.050 | 0.050 | 06/23/2023 | ND | 2.09 | 105 | 2.00 | 0.169 | |
| Ethylbenzene* | <0.050 | 0.050 | 06/23/2023 | ND | 2.08 | 104 | 2.00 | 0.865 | |
| Total Xylenes* | <0.150 | 0.150 | 06/23/2023 | ND | 6.32 | 105 | 6.00 | 0.914 | |
| Total BTX | <0.300 | 0.300 | 06/23/2023 | ND | | | | | |

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

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | <16.0 | 16.0 | 06/23/2023 | ND | 432 | 108 | 400 | 3.77 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 06/23/2023 | ND | 161 | 80.7 | 200 | 2.48 | |
| DRO >C10-C28* | <10.0 | 10.0 | 06/23/2023 | ND | 162 | 80.8 | 200 | 0.436 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 06/23/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Analytical Results For:

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

| | | | |
|-------------------|----------------------------------|---------------------|----------------|
| Received: | 06/22/2023 | Sampling Date: | 06/21/2023 |
| Reported: | 06/23/2023 | Sampling Type: | Soil |
| Project Name: | FEDERAL G 001 | Sampling Condition: | Cool & Intact |
| Project Number: | 16854 | Sample Received By: | Tamara Oldaker |
| Project Location: | HL BROWN-RURAL ROOSEVELT CO., NM | | |

Sample ID: SW 1 (H233247-03)

| BTEx 8021B | | mg/kg | | Analyzed By: MS | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 06/23/2023 | ND | 2.15 | 107 | 2.00 | 1.10 | |
| Toluene* | <0.050 | 0.050 | 06/23/2023 | ND | 2.09 | 105 | 2.00 | 0.169 | |
| Ethylbenzene* | <0.050 | 0.050 | 06/23/2023 | ND | 2.08 | 104 | 2.00 | 0.865 | |
| Total Xylenes* | <0.150 | 0.150 | 06/23/2023 | ND | 6.32 | 105 | 6.00 | 0.914 | |
| Total BTEX | <0.300 | 0.300 | 06/23/2023 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | <16.0 | 16.0 | 06/23/2023 | ND | 432 | 108 | 400 | 3.77 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 06/23/2023 | ND | 161 | 80.7 | 200 | 2.48 | |
| DRO >C10-C28* | <10.0 | 10.0 | 06/23/2023 | ND | 162 | 80.8 | 200 | 0.436 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 06/23/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 98.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Analytical Results For:

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

| | | | |
|-------------------|----------------------------------|---------------------|----------------|
| Received: | 06/22/2023 | Sampling Date: | 06/21/2023 |
| Reported: | 06/23/2023 | Sampling Type: | Soil |
| Project Name: | FEDERAL G 001 | Sampling Condition: | Cool & Intact |
| Project Number: | 16854 | Sample Received By: | Tamara Oldaker |
| Project Location: | HL BROWN-RURAL ROOSEVELT CO., NM | | |

Sample ID: WW 1 (H233247-04)

| BTX 8021B | | mg/kg | | Analyzed By: MS | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 06/23/2023 | ND | 2.15 | 107 | 2.00 | 1.10 | |
| Toluene* | <0.050 | 0.050 | 06/23/2023 | ND | 2.09 | 105 | 2.00 | 0.169 | |
| Ethylbenzene* | <0.050 | 0.050 | 06/23/2023 | ND | 2.08 | 104 | 2.00 | 0.865 | |
| Total Xylenes* | <0.150 | 0.150 | 06/23/2023 | ND | 6.32 | 105 | 6.00 | 0.914 | |
| Total BTX | <0.300 | 0.300 | 06/23/2023 | ND | | | | | |

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

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 144 | 16.0 | 06/23/2023 | ND | 432 | 108 | 400 | 3.77 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 06/23/2023 | ND | 161 | 80.7 | 200 | 2.48 | |
| DRO >C10-C28* | <10.0 | 10.0 | 06/23/2023 | ND | 162 | 80.8 | 200 | 0.436 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 06/23/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 87.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



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

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 258192

CONDITIONS

| | |
|---|---|
| Operator: H L BROWN OPERATING, LLC P.O. Box 2237 Midland, TX 79702 | OGRID: 213179 |
| | Action Number: 258192 |
| | Action Type: [C-141] Release Corrective Action (C-141) |

CONDITIONS

| | | |
|------------|-----------|----------------|
| Created By | Condition | Condition Date |
| nvelez | None | 12/11/2023 |