District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

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

# Release Notification

## Responsible Party

| | |
|---|---|
| Responsible Party | OGRID |
| Contact Name | Contact Telephone |
| Contact email | Incident # *(assigned by OCD)* |
| Contact mailing address | |

## Location of Release Source

Latitude _____ Longitude _____
*(NAD 83 in decimal degrees to 5 decimal places)*

| | |
|---|---|
| Site Name | Site Type |
| Date Release Discovered | API# *(if applicable)* |

| Unit Letter | Section | Township | Range | County |
|---|---|---|---|---|
| | | | | |

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☐ Private (*Name:* _____)

## Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

| | | |
|---|---|---|
| ☐ Crude Oil | Volume Released (bbls) | Volume Recovered (bbls) |
| ☐ Produced Water | Volume Released (bbls) | Volume Recovered (bbls) |
| | Is the concentration of dissolved chloride in the produced water >10,000 mg/l? | ☐ Yes ☐ No |
| ☐ Condensate | Volume Released (bbls) | Volume Recovered (bbls) |
| ☐ Natural Gas | Volume Released (Mcf) | Volume Recovered (Mcf) |
| ☐ Other (describe) | Volume/Weight Released (provide units) | Volume/Weight Recovered (provide units) |
| Cause of Release | | |

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

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

| | |
|---|---|
| Was this a major release as defined by 19.15.29.7(A) NMAC?<br><br>☐ Yes ☐ No | If YES, for what reason(s) does the responsible party consider this a major release? |
| If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? | |

## Initial Response

*The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury*

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

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

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: _____ Title: _____

Signature: Sheldon Hitson Date: _____

email: _____ Telephone: _____

**OCD Only**

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

| | |
|---|---|
| Incident ID | |
| 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? | _____ (ft bgs) |
| Did this release impact groundwater or surface water? | ☐ Yes ☐ No |
| Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse? | ☐ Yes ☐ 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)? | ☐ Yes ☐ No |
| Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church? | ☐ Yes ☐ 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? | ☐ Yes ☐ No |
| Are the lateral extents of the release within 1000 feet of any other fresh water well or spring? | ☐ Yes ☐ No |
| Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field? | ☐ Yes ☐ No |
| Are the lateral extents of the release within 300 feet of a wetland? | ☐ Yes ☐ No |
| Are the lateral extents of the release overlying a subsurface mine? | ☐ Yes ☐ No |
| Are the lateral extents of the release overlying an unstable area such as karst geology? | ☐ Yes ☐ No |
| Are the lateral extents of the release within a 100-year floodplain? | ☐ Yes ☐ No |
| Did the release impact areas **not** on an exploration, development, production, or storage site? | ☐ Yes ☐ No |

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

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

- ☐ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☐ Field data
- ☐ Data table of soil contaminant concentration data
- ☐ Depth to water determination
- ☐ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☐ Boring or excavation logs
- ☐ Photographs including date and GIS information
- ☐ Topographic/Aerial maps
- ☐ Laboratory data including chain of custody

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

State of New Mexico
Oil Conservation Division

| | |
|---|---|
| Incident ID | |
| District RP | |
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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: _____ Title: _____

Signature: Sheldon Hitson Date: _____

email: _____ Telephone: _____

**OCD Only**

Received by: _____ Date: _____

| | |
|---|---|
| Incident ID | |
| 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: _____ Title: _____

Signature: Sheldon Hitson _____ Date: _____

email: _____ Telephone: _____

**OCD Only**

Received by: _____ Date: _____

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: _____

Printed Name: _____ Title: _____

# Remediation Summary and Soil Closure Request

**COG Operating, LLC**
**NM DW State N. 2-6 Flowline**
Lea County, New Mexico
Unit Letter L5, Section 6, Township 22 South, Range 35 East
Latitude 32.422484 North, Longitude 103.413624 West
**NMOCD Reference No. nAPP2035649889**

Prepared By:

**Etech Environmental & Safety Solutions, Inc.**
3100 Plains Highway
Lovington, New Mexico 88260

Lance Crenshaw

Joel W. Lowry

*Midland • San Antonio • Lubbock • Lovington • Lafayette*

# TABLE OF CONTENTS

# 1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of COG Operating, LLC, has prepared this *Remediation Summary and Soil Closure Request* for the release site known as the NM DW State N. 2-6 Flowline (henceforth, "Site"). Details of the release are summarized below:

## Location of Release Source

Latitude: 32.422484 Longitude: -103.413624

Provided GPS are in WGS84 format.

| | | | |
|---|---|---|---|
| Site Name: | NM DW State N. 2-6 Flowline | Site Type: | Flowline |
| Date Release Discovered: | 12/4/2020 | API # (if applicable): | 30-025-32467 |

| Unit Letter | Section | Township | Range | County |
|---|---|---|---|---|
| L5 | 6 | 22S | 35E | Lea |

Surface Owner: [X] State [ ] Federal [ ] Tribal [ ] Private (Name _____)

## Nature and Volume of Release

| | | |
|---|---|---|
| [X] Crude Oil | Volume Released (bbls) 5 | Volume Recovered (bbls) 0 |
| [X] Produced Water | Volume Released (bbls) 15 | Volume Recovered (bbls) 0 |
| | Is the concentration of total dissolved solids (TDS) in the produced water > 10,000 mg/L? | [X] Yes [ ] No [ ] N/A |
| [ ] Condensate | Volume Released (bbls) | Volume Recovered (bbls) |
| [ ] Natural Gas | Volume Released (Mcf) | Volume Recovered (Mcf) |
| [ ] Other (describe) | Volume/Weight Released | Volume/Weight Recovered |

Cause of Release:
The release was caused by aging of equipment. The release was in the pasture. A vacuum truck was dispatched to remove all freestanding fluids.

## Initial Response

- [X] The source of the release has been stopped.
- [X] The impacted area has been secured to protect human health and the environment.
- [X] Release materials have been contained via the use of berms or dikes, absorbent pad, or other containment devices
- [X] 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? | 42 Feet |
| Did the release impact groundwater or surface water? | [ ] Yes [X] No |
| Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse? | [ ] Yes [X] 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? | [ ] Yes [X] No |
| Are the lateral extents of the release within 300 feet of any occupied permanent residence, school, hospital, institution or church? | [ ] Yes [X] 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? | [ ] Yes [X] No |
| Are the lateral extents of the release within 1000 feet of any other fresh water well or spring? | [ ] Yes [X] No |
| Are the lateral extents of the release within the incorporated municipal boundaries or within a defined municipal fresh water well field? | [ ] Yes [X] No |
| Are the lateral extents of the release within 300 feet of a wetland? | [ ] Yes [X] No |
| Are the lateral extents of the release overlying a subsurface mine? | [ ] Yes [X] No |
| Are the lateral extents of the release overlying an unstable area such as karst geology? | [ ] Yes [X] No |
| Are the lateral extents of the release within a 100-year floodplain? | [ ] Yes [X] No |
| Did the release impact areas not on an exploration, development, production or storage site? | [X] Yes [ ] 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* |
|---|---|---|---|---|
| 42 Feet | Chloride | EPA 300.0 or SM4500 Cl B | 600 mg/kg | 600 mg/kg |
| | TPH (GRO + DRO + MRO) | EPA SW-846 Method 8015M Ext | 100 mg/kg | 100 mg/kg |
| | DRO + GRO | EPA SW-846 Method 8015M | - | - |
| | 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 December 10, 2020, remediation activities commenced at the Site. In accordance with NMOCD guidelines, impacted soil affected above the NMOCD Closure Criteria and/or NMOCD Reclamation Standard 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 and the NMOCD Reclamation Standard.

On December 15, 2020, Etech collected thirty-three (33) confirmation soil samples (FS1 – FS20, NW1 – NW6, SW1 – SW4, and WW1 – WW3). 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 below the NMOCD Closure Criteria and the NMOCD Reclamation Standard in each of the submitted soil samples, with the exception of samples FS1 – FS4, FS6 – FS12, FS14 – FS17, FS20, NW1, and NW2, which exhibited TPH concentrations ranging from 140 mg/kg to 862 mg/kg.

On December 17, 2020, Etech collected eighteen (18) confirmation soil samples (EW1, FS21 – FS33, NW7, NW8, SW5, and SW6). 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 below the NMOCD Closure Criteria and the NMOCD Reclamation Standard in each of the submitted soil samples, with the exception of samples FS22 – FS24 and FS28 – FS32, which exhibited TPH concentrations ranging from 106 mg/kg to 374 mg/kg.

On December 30, 2020, excavation activities resumed at the Site. Impacted soil in the areas characterized by sample points FS1 – FS4, FS6 – FS12, FS14 – FS17, FS20, FS22 – FS24, FS28 – FS32, NW1, and NW2 was excavated and transported to an NMOCD-approved surface waste facility for disposal. Upon excavating impacted soil remaining in-situ, Etech collected twenty-six (26) additional confirmation soil samples (FS1b – FS4b, FS6b – FS12b, FS14b – FS17b, FS20b, FS22b – FS24b, FS28b – FS32b, NW1b, and NW2b) and submitted them to a certified commercial laboratory for analysis of TPH. Laboratory analytical results indicated TPH concentrations were below the NMOCD Closure Criteria and the NMOCD Reclamation Standard in each of the submitted soil samples, with the exception of sample FS2b, which exhibited a TPH concentration of 121 mg/kg.

On January 8, 2021, excavation activities resumed at the Site. Impacted soil in the area characterized by sample point FS2b was excavated and transported to an NMOCD-approved surface waste facility for disposal. Upon excavating impacted soil remaining in-situ, Etech collected one (1) additional confirmation soil sample (FS2c) and submitted it to a certified commercial laboratory for analysis of TPH. Laboratory analytical results indicated a TPH concentration of 146 mg/kg, which was above the NMOCD Closure Criteria and the NMOCD Reclamation Standard.

On January 13, 2021, impacted soil in the area characterized by sample point FS2c was excavated and transported to an NMOCD-approved surface waste facility for disposal. Upon excavating impacted soil remaining in-situ, Etech collected one (1) additional confirmation soil sample (FS2d @ 4') and submitted it to a certified commercial laboratory for analysis of TPH. Laboratory analytical results indicated a TPH concentration below the NMOCD Closure Criteria and the NMOCD Reclamation Standard.

A site and sample location map is provided as Figure 3. 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 area were 228 feet in length, and ranged from twelve (12) to sixty (60) feet in width and two (2) to four (4) feet in depth. During the course of remediation activities, approximately 1,120 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. Affected areas not on production pads and/or lease roads will be reseeded with an agency and/or landowner-approved seed mixture free of noxious weeds during the first favorable growing season following closure of the site.

## 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 COG Operating, LLC, provide copies of this *Remediation Summary and Soil Closure Request* to the appropriate agencies and request closure be granted to the NM DW State N. 2-6 Flowline Site.

## 7.0 LIMITATIONS

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

# 8.0 DISTRIBUTION

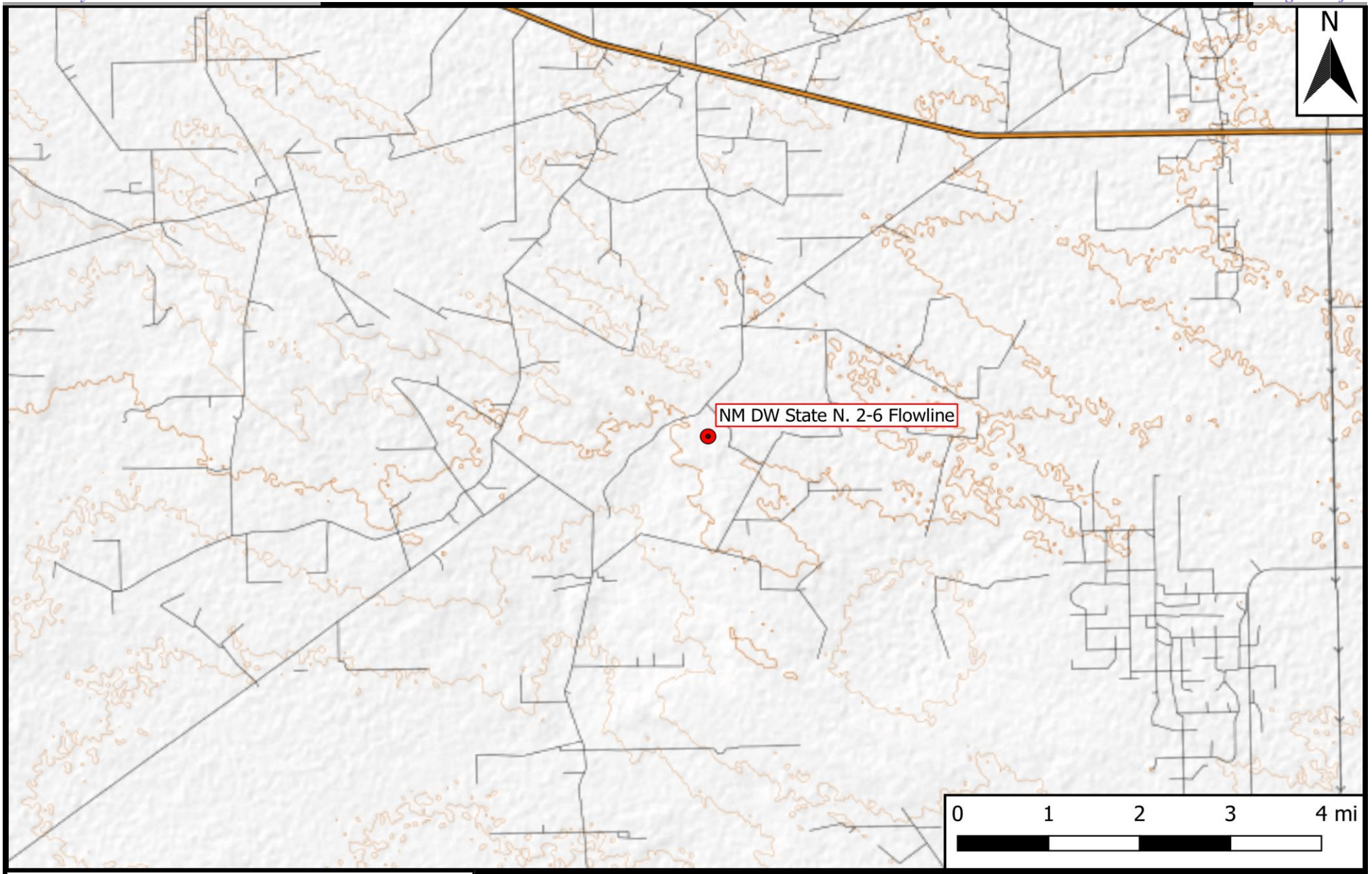
***COG Operating, LLC***
*600 West Illinois Avenue*
*Midland, TX 79701*

***New Mexico Energy, Minerals and Natural Resources Department***
*Oil Conservation Division, District 1*
*1220 South St. Francis Drive*
*Santa Fe, NM 87505*

***Hobbs Field Office***
*New Mexico State Land Office*
*2827 North Dal Paso Street*
*Suite 117*
*Hobbs, NM 88240*

*(Electronic Submission)*

# Figure 1
# Topographic Map




Legend

Site Location

**Figure 1**

Topographic Map

COG Operating, LLC

NM DW State N. 2-6 Flowline

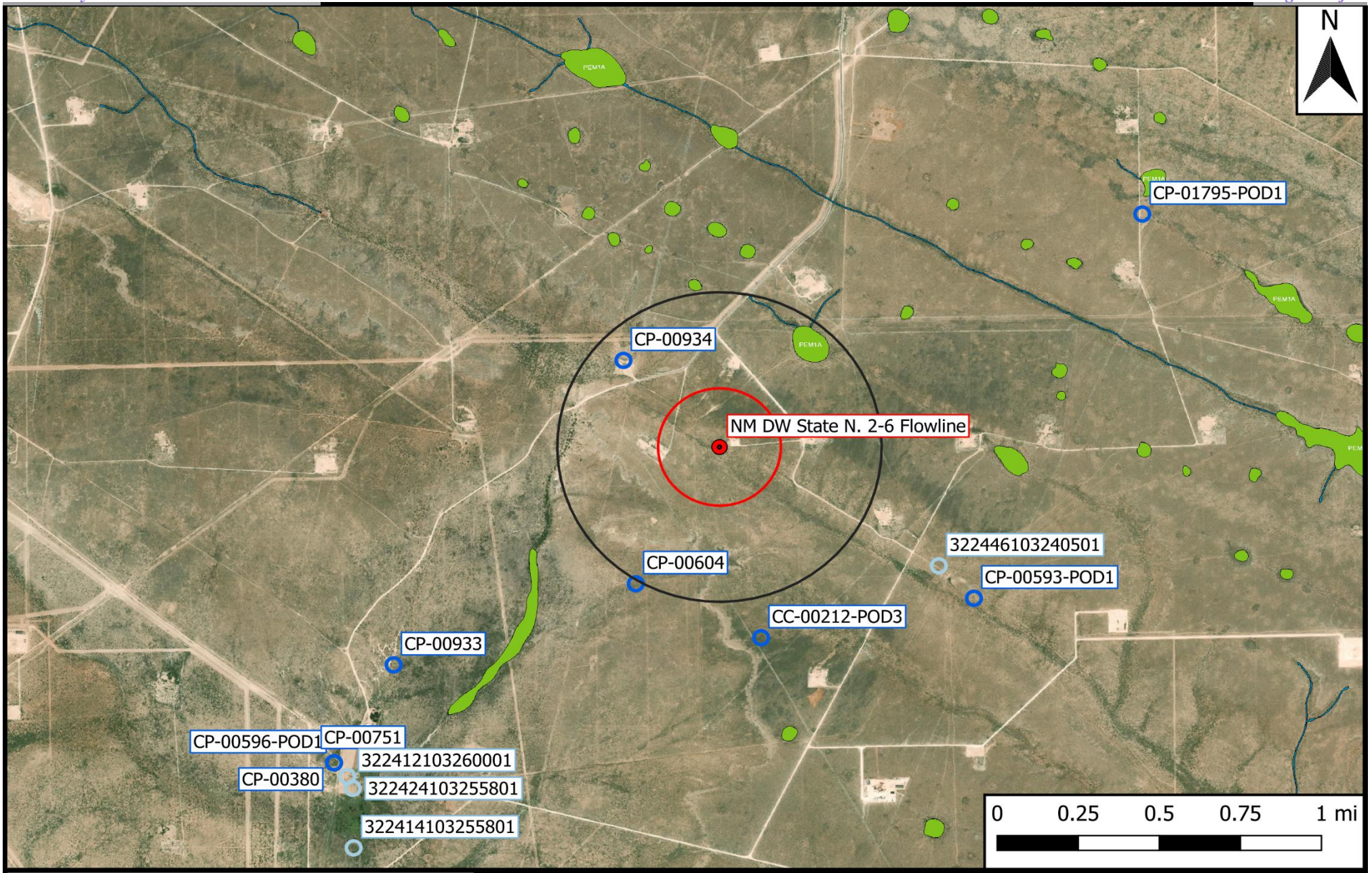
GPS: 32.422484, -103.413624

Lea County

eTECH Environmental & Safety Solutions, Inc.

Drafted: mag Checked: jwl Date: 12/9/20

# Figure 2
# Aerial Proximity Map




Legend

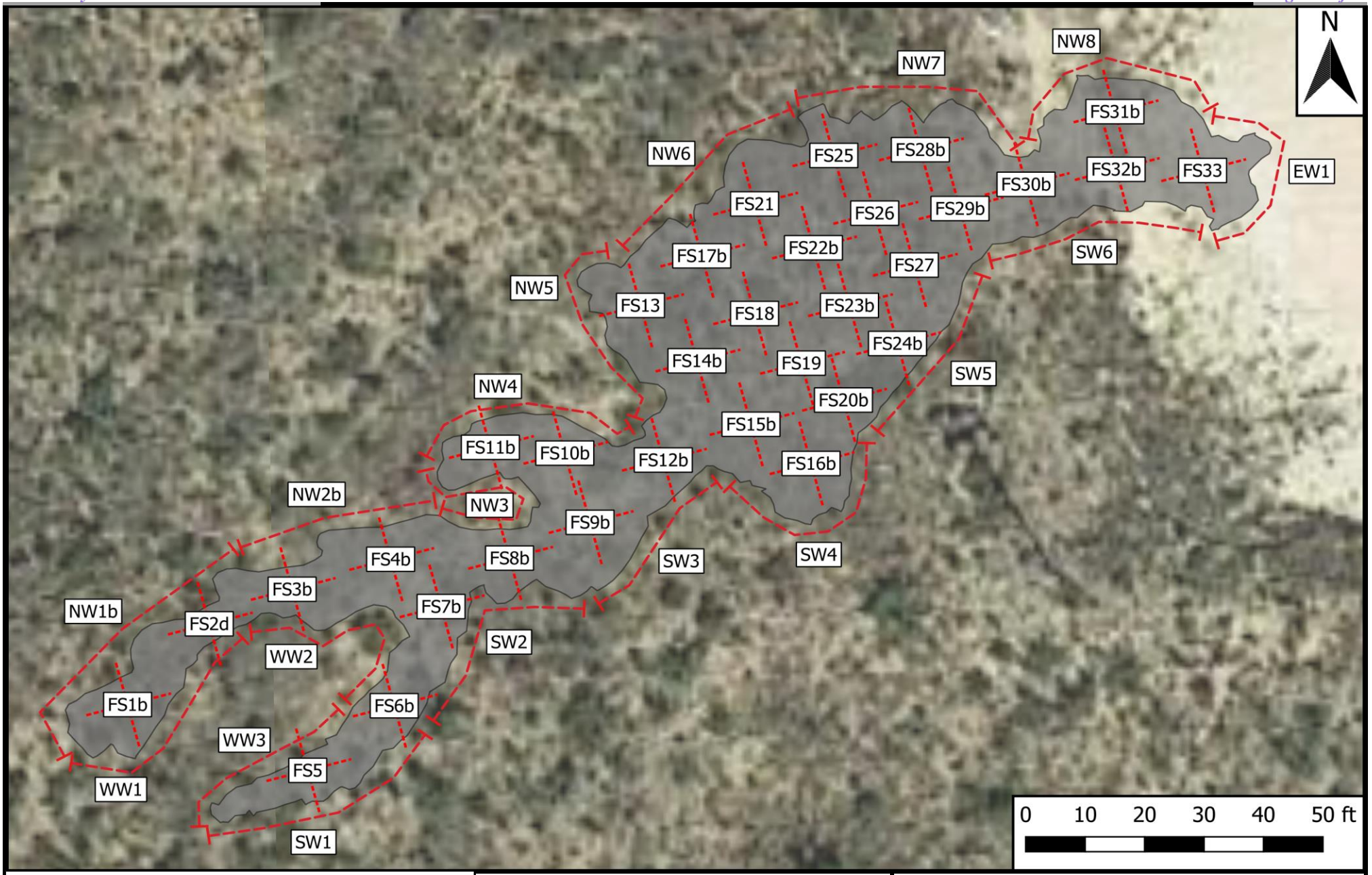
- Site Location
- Well - NMOSE
- Well - USGS
- High Karst
- Potash Mine Workings
- 1000 Ft Radius
- 0.5 Mi Radius
- 1% Annual Flood Chance
- Lake/Freshwater Pond
- Emergent/Forested Wetlands
- Riverine

**Figure 2**
Aerial Proximity Map
COG Operating, LLC
NM DW State N. 2-6 Flowline
GPS: 32.422484, -103.413624
Lea County

eTECH Environmental & Safety Solutions, Inc.

Drafted: mag Checked: jwl Date: 2/8/21

# Figure 3
# Site and Sample Location Map




Legend

- Floor Sample
- Wall Sample
- Excavation

**Figure 3**

Site and Sample Location Map

COG Operating, LLC

NM DW State N. 2-6 Flowline

GPS: 32.422484, -103.413624

Lea County

eTECH Environmental & Safety Solutions, Inc.

Drafted: mag Checked: jwl Date: 2/8/21

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

**Table 1**
**Concentrations of BTEX, TPH, and Chloride in Soil**
**COG Operating, LLC**
**NM DW State N. 2-6 Flowline**
**NMOCD Ref. #: nAPP2035649889**

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **NMOCD Closure Criteria** | | | | **10** | **50** | **-** | **-** | **-** | **-** | **100** | **600** |
| **NMOCD Reclamation Standard** | | | | **10** | **50** | **-** | **-** | **-** | **-** | **100** | **600** |
| **Sample ID** | **Date** | **Depth** | **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)** |
| **Floor Samples** | | | | | | | | | | | |
| FS1 | 12/15/2020 | 2' | Excavated | <0.00200 | 0.00207 | <49.9 | 211 | 211 | <49.9 | **211** | 25.3 |
| FS1b | 12/30/2020 | 3' | In-Situ | - | - | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | - |
| FS2 | 12/15/2020 | 2' | Excavated | <0.00199 | <0.00199 | <50.0 | 282 | 282 | 53.3 | **335** | 21.2 |
| FS2b | 12/30/2020 | 3' | Excavated | - | - | <50.0 | 121 | 121 | <50.0 | **121** | - |
| FS2c | 1/8/2021 | 3.5' | Excavated | - | - | <50.0 | 146 | 146 | <50.0 | **146** | - |
| FS2d @ 4' | 1/13/2021 | 4' | In-Situ | - | - | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | - |
| FS3 | 12/15/2020 | 2' | Excavated | <0.00202 | 0.00264 | <50.0 | 336 | 336 | 57.6 | **394** | 22.1 |
| FS3b | 12/30/2020 | 3' | In-Situ | - | - | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | - |
| FS4 | 12/15/2020 | 2' | Excavated | <0.00200 | <0.00200 | <49.9 | 465 | 465 | 79.9 | **545** | 30.4 |
| FS4b | 12/30/2020 | 3' | In-Situ | - | - | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | - |
| FS5 | 12/15/2020 | 2' | In-Situ | <0.00201 | <0.00201 | <49.8 | 60.8 | 60.8 | <49.8 | 60.8 | 19.0 |
| FS6 | 12/15/2020 | 2' | Excavated | <0.00200 | 0.00807 | <50.0 | 444 | 444 | 72.0 | **516** | 48.8 |
| FS6b | 12/30/2020 | 3' | In-Situ | - | - | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | - |
| FS7 | 12/15/2020 | 2' | Excavated | <0.00201 | 0.0127 | <50.0 | 747 | 747 | 115 | **862** | 44.2 |
| FS7b | 12/30/2020 | 3' | In-Situ | - | - | <49.8 | <49.8 | <49.8 | <49.8 | <49.8 | - |
| FS8 | 12/15/2020 | 2' | Excavated | <0.00199 | 0.0109 | <50.0 | 352 | 352 | 55.4 | **407** | 41.8 |
| FS8b | 12/30/2020 | 3' | In-Situ | - | - | <50.0 | 74.6 | 74.6 | <50.0 | 74.6 | - |
| FS9 | 12/15/2020 | 2' | Excavated | <0.00200 | 0.00739 | <50.0 | 370 | 370 | 65.6 | **436** | 39.0 |
| FS9b | 12/30/2020 | 3' | In-Situ | - | - | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | - |
| FS10 | 12/15/2020 | 2' | Excavated | <0.00200 | 0.00249 | <49.9 | 536 | 536 | 88.3 | **624** | 33.9 |
| FS10b | 12/30/2020 | 3' | In-Situ | - | - | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | - |
| FS11 | 12/15/2020 | 2' | Excavated | <0.00201 | 0.00907 | <50.0 | 285 | 285 | 54.8 | **340** | 46.3 |
| FS11b | 12/30/2020 | 3' | In-Situ | - | - | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | - |
| FS12 | 12/15/2020 | 2' | Excavated | <0.00202 | <0.00202 | <49.9 | 140 | 140 | <49.9 | **140** | 28.5 |
| FS12b | 12/30/2020 | 3' | In-Situ | - | - | <49.8 | <49.8 | <49.8 | <49.8 | <49.8 | - |
| FS13 | 12/15/2020 | 2' | In-Situ | <0.00199 | 0.00439 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 32.2 |
| FS14 | 12/15/2020 | 2' | Excavated | <0.00202 | <0.00202 | <49.9 | 225 | 225 | <49.9 | **225** | 12.5 |
| FS14b | 12/30/2020 | 3' | In-Situ | - | - | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | - |
| FS15 | 12/15/2020 | 2' | Excavated | <0.00200 | 0.0199 | <50.0 | 374 | 374 | 57.0 | **431** | 22.3 |
| FS15b | 12/30/2020 | 3' | In-Situ | - | - | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | - |
| FS16 | 12/15/2020 | 2' | Excavated | <0.00202 | 0.0211 | <49.8 | 319 | 319 | 52.7 | **372** | 27.7 |
| FS16b | 12/30/2020 | 3' | In-Situ | - | - | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | - |
| FS17 | 12/15/2020 | 2' | Excavated | <0.00200 | 0.00973 | <49.9 | 218 | 218 | <49.9 | **218** | 12.0 |
| FS17b | 12/30/2020 | 3' | In-Situ | - | - | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | - |
| FS18 | 12/15/2020 | 2' | In-Situ | <0.00201 | 0.00206 | <50.0 | 99.4 | 99.4 | <50.0 | 99.4 | 12.3 |
| FS19 | 12/15/2020 | 2' | In-Situ | <0.00202 | <0.00202 | <49.8 | <49.8 | <49.8 | <49.8 | <49.8 | 27.9 |
| FS20 | 12/15/2020 | 2' | Excavated | <0.00202 | 0.0314 | <50.0 | 223 | 223 | <50.0 | **223** | 45.7 |
| FS20b | 12/30/2020 | 3' | In-Situ | - | - | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | - |
| FS21 | 12/17/2020 | 2' | In-Situ | <0.00201 | 0.0121 | <50.0 | 84.8 | 84.8 | <50.0 | 84.8 | <4.98 |
| FS22 | 12/17/2020 | 2' | Excavated | <0.00199 | <0.00199 | <50.0 | 119 | 119 | <50.0 | **119** | 10.7 |

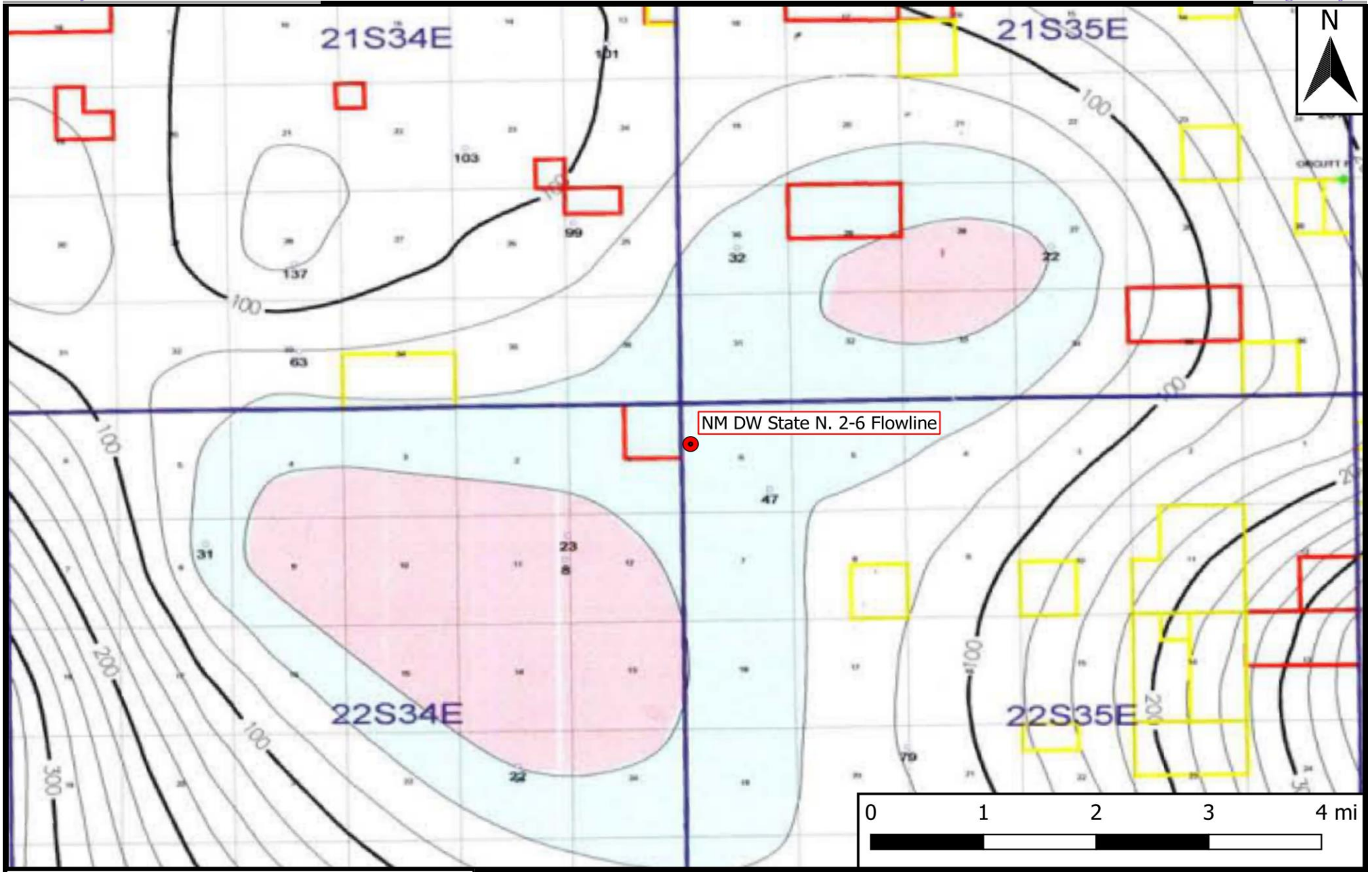
**NOTES:**
- = Sample not analyzed for that constituent.
**Bold** text denotes a concentration that exceeds the NMOCD Closure Criteria

**Table 1**
**Concentrations of BTEX, TPH, and Chloride in Soil**
**COG Operating, LLC**
**NM DW State N. 2-6 Flowline**
**NMOCD Ref. #: nAPP2035649889**

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **NMOCD Closure Criteria** | | | | **10** | **50** | **-** | **-** | **-** | **-** | **100** | **600** |
| **NMOCD Reclamation Standard** | | | | **10** | **50** | **-** | **-** | **-** | **-** | **100** | **600** |
| | | | | **SW 846 8021B** | | **SW 846 8015M Ext.** | | | | | **4500 Cl** |
| **Sample ID** | **Date** | **Depth** | **Soil Status** | **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)** |
| FS22b | 12/30/2020 | 3' | In-Situ | - | - | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | - |
| FS23 | 12/17/2020 | 2' | Excavated | <0.00199 | <0.00199 | <49.9 | 106 | 106 | <49.9 | **106** | 23.4 |
| FS23b | 12/30/2020 | 3' | In-Situ | - | - | <49.8 | <49.8 | <49.8 | <49.8 | <49.8 | - |
| FS24 | 12/17/2020 | 2' | Excavated | <0.00200 | <0.00200 | 73.7 | 226 | 300 | <49.8 | **300** | 55.7 |
| FS24b | 12/30/2020 | 3' | In-Situ | - | - | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | - |
| FS25 | 12/17/2020 | 2' | In-Situ | <0.00200 | <0.00200 | 85.7 | <50.0 | 85.7 | <50.0 | 85.7 | <5.04 |
| FS26 | 12/17/2020 | 2' | In-Situ | <0.00198 | <0.00198 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | <4.96 |
| FS27 | 12/17/2020 | 2' | In-Situ | <0.00198 | <0.00198 | <49.9 | 76.3 | 76.3 | <49.9 | 76.3 | 30.2 |
| FS28 | 12/17/2020 | 2' | Excavated | <0.00201 | 0.0156 | <50.0 | 241 | 241 | <50.0 | **241** | <4.98 |
| FS28b | 12/30/2020 | 3' | In-Situ | - | - | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | - |
| FS29 | 12/17/2020 | 2' | Excavated | <0.00200 | 0.0144 | <49.9 | 217 | 217 | <49.9 | **217** | 39.8 |
| FS29b | 12/30/2020 | 3' | In-Situ | - | - | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | - |
| FS30 | 12/17/2020 | 2' | Excavated | <0.00199 | 0.0132 | <49.8 | 184 | 184 | <49.8 | **184** | 71.0 |
| FS30b | 12/30/2020 | 3' | In-Situ | - | - | <49.8 | <49.8 | <49.8 | <49.8 | <49.8 | - |
| FS31 | 12/17/2020 | 2' | Excavated | <0.00201 | <0.00201 | <50.0 | 142 | 142 | <50.0 | **142** | 83.4 |
| FS31b | 12/30/2020 | 3' | In-Situ | - | - | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | - |
| FS32 | 12/17/2020 | 2' | Excavated | <0.00202 | 0.0148 | <50.0 | 374 | 374 | 55.4 | **374** | 96.9 |
| FS32b | 12/30/2020 | 3' | In-Situ | - | - | <49.8 | <49.8 | <49.8 | <49.8 | <49.8 | - |
| FS33 | 12/17/2020 | 2' | In-Situ | <0.00200 | <0.00200 | <50.0 | 89.2 | 89.2 | <50.0 | 89.2 | 22.1 |
| **Wall Samples** | | | | | | | | | | | |
| NW1 | 12/15/2020 | 0' - 2' | Excavated | <0.00202 | 0.0700 | <49.8 | 708 | 708 | 119 | **827** | 15.2 |
| NW1b | 12/30/2020 | 0' - 3' | In-Situ | - | - | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | - |
| NW2 | 12/15/2020 | 0' - 2' | Excavated | <0.00200 | 0.0297 | <50.0 | 257 | 257 | <50.0 | **257** | 14.1 |
| NW2b | 12/30/2020 | 0' - 3' | In-Situ | - | - | <49.8 | <49.8 | <49.8 | <49.8 | <49.8 | - |
| NW3 | 12/15/2020 | 0' - 2' | In-Situ | <0.00200 | 0.0143 | <49.9 | 49.9 | 49.9 | <49.9 | 49.9 | 7.47 |
| NW4 | 12/15/2020 | 0' - 2' | In-Situ | <0.00198 | 0.00236 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 7.83 |
| NW5 | 12/15/2020 | 0' - 2' | In-Situ | <0.00198 | 0.0234 | <49.8 | <49.8 | <49.8 | <49.8 | <49.8 | 6.83 |
| NW6 | 12/15/2020 | 0' - 2' | In-Situ | <0.00198 | 0.0169 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 7.41 |
| NW7 | 12/17/2020 | 0' - 2' | In-Situ | <0.00198 | 0.0500 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | <5.03 |
| NW8 | 12/17/2020 | 0' - 2' | In-Situ | <0.00199 | 0.0184 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 30.9 |
| SW1 | 12/15/2020 | 0' - 2' | In-Situ | <0.00202 | <0.00202 | <50.0 | 56.0 | 56.0 | <50.0 | 56.0 | 7.41 |
| SW2 | 12/15/2020 | 0' - 2' | In-Situ | <0.00199 | <0.00199 | <49.8 | <49.8 | <49.8 | <49.8 | <49.8 | 7.38 |
| SW3 | 12/15/2020 | 0' - 2' | In-Situ | <0.00198 | <0.00198 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 11.9 |
| SW4 | 12/15/2020 | 0' - 2' | In-Situ | <0.00202 | <0.00202 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 6.89 |
| SW5 | 12/17/2020 | 0' - 2' | In-Situ | <0.00200 | 0.00955 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 82.7 |
| SW6 | 12/17/2020 | 0' - 2' | In-Situ | <0.00201 | <0.00201 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 7.03 |
| WW1 | 12/15/2020 | 0' - 2' | In-Situ | <0.00201 | <0.00201 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 6.08 |
| WW2 | 12/15/2020 | 0' - 2' | In-Situ | <0.00199 | <0.00199 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 7.76 |
| WW3 | 12/15/2020 | 0' - 2' | In-Situ | <0.00199 | <0.00199 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 8.44 |
| EW1 | 12/17/2020 | 0' - 2' | In-Situ | <0.00200 | <0.00200 | <49.8 | 72.1 | 72.1 | <49.8 | 72.1 | 5.33 |

**NOTES:**
- = Sample not analyzed for that constituent.
**Bold** text denotes a concentration that exceeds the NMOCD Closure Criteria

# Appendix A
# Depth to Groundwater Information




Legend

- Site Location

**Figure 4**

Inferred Depth to Groundwater Trend Map

COG Operating, LLC

NM DW State N. 2-6 Flowline

GPS: 32.422484, -103.413624

Lea County

eTECH Environmental & Safety Solutions, Inc.

Drafted: mag Checked: jwl Date: 12/9/20

*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 | Depth Well | Depth Water | Water Column |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CP 00934 | | CP | LE | 2 | 1 | 2 | 01 | 22S | 34E | 648682 | 3588822 | 654 | 60 | 42 | 18 |

Average Depth to Water: **42 feet**

Minimum Depth: **42 feet**

Maximum Depth: **42 feet**

**Record Count:** 1

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

**Easting (X):** 649158.7 **Northing (Y):** 3588373.72 **Radius:** 804.67



12/9/20 9:07 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

# New Mexico Office of the State Engineer
# Point of Diversion Summary

| Well Tag | POD Number | (quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) Q64 | Q16 | Q4 | Sec | Tws | Rng | (NAD83 UTM in meters) X | Y |
|---|---|---|---|---|---|---|---|---|---|
| | CP 00934 | 2 | 1 | 2 | 01 | 22S | 34E | 648682 | 3588822 |

**Driller License:** 1188 **Driller Company:** SCARBOROUGH DRILLING INC.

**Driller Name:** SCARBOROUGH, LANE (LD)

| | | | | | |
|---|---|---|---|---|---|
| **Drill Start Date:** | 09/01/2005 | **Drill Finish Date:** | 09/01/2005 | **Plug Date:** | |
| **Log File Date:** | 09/15/2005 | **PCW Rcv Date:** | | **Source:** | Shallow |
| **Pump Type:** | | **Pipe Discharge Size:** | | **Estimated Yield:** | |
| **Casing Size:** | 4.00 | **Depth Well:** | 60 feet | **Depth Water:** | 42 feet |

| Casing Perforations: | Top | Bottom |
|---|---|---|
| | 40 | 60 |

| | | | |
|---|---|---|---|
| **Meter Number:** | 9046 | **Meter Make:** | HAYS |
| **Meter Serial Number:** | 29607592 | **Meter Multiplier:** | 1.0000 |
| **Number of Dials:** | 6 | **Meter Type:** | Diversion |
| **Unit of Measure:** | Gallons | **Return Flow Percent:** | |
| **Usage Multiplier:** | | **Reading Frequency:** | Quarterly |

**Meter Readings (in Acre-Feet)**

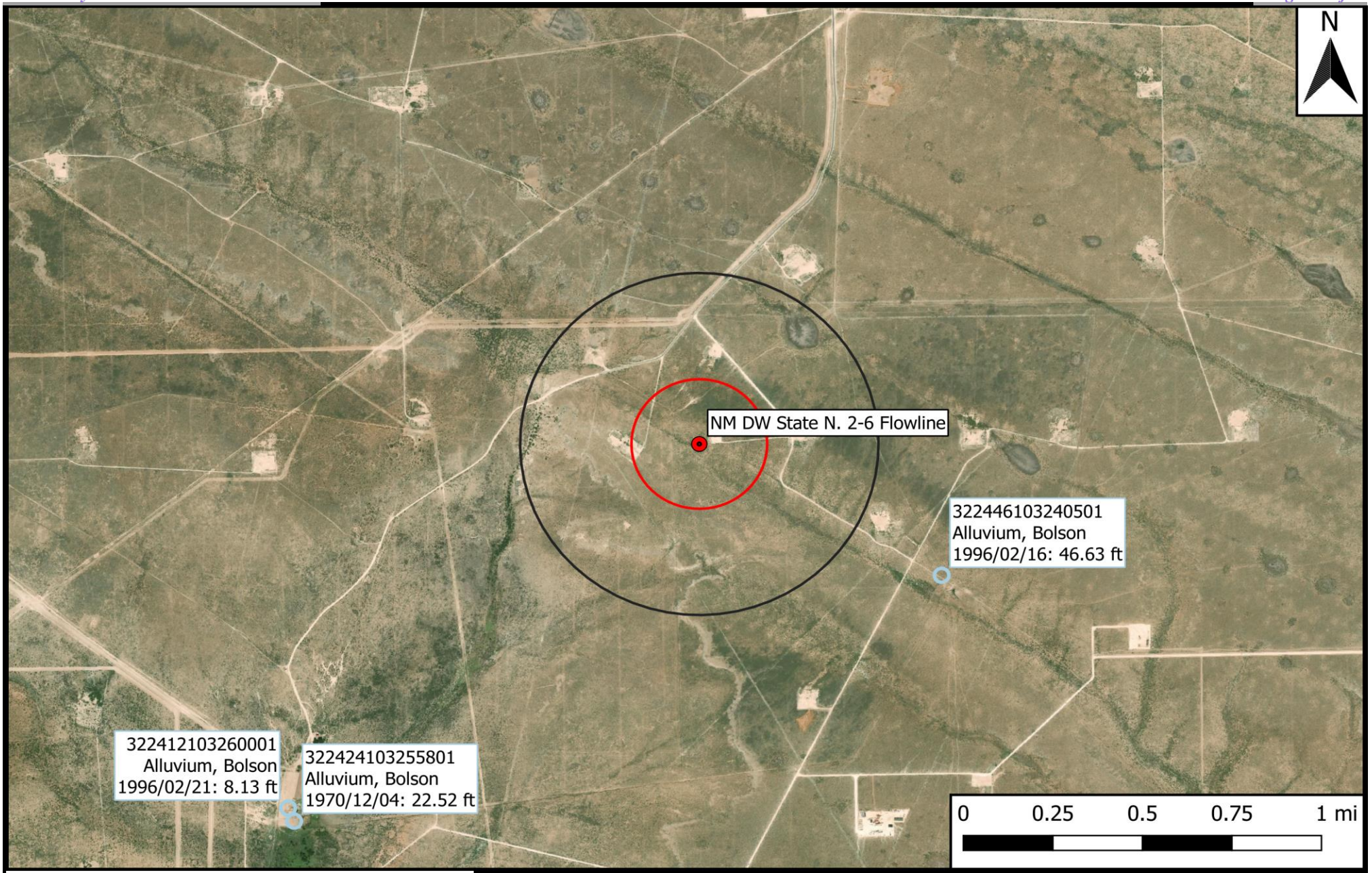
| Read Date | Year | Mtr Reading | Flag | Rdr | Comment | Mtr Amount | Online |
|---|---|---|---|---|---|---|---|
| 10/12/2005 | 2005 | 0 | A | jw | | 0 | |
| 11/19/2005 | 2005 | 0 | A | RPT | new meter installed | 0 | |
| 12/01/2005 | 2005 | 5975 | A | RPT | | 0.018 | |
| 01/31/2006 | 2005 | 18289 | A | RPT | | 0.038 | |
| 02/28/2006 | 2006 | 16993 | R | RPT | Meter Rollover | 0.303 | |
| 03/31/2006 | 2006 | 19766 | A | RPT | | 0.009 | |
| 04/30/2006 | 2006 | 27085 | A | RPT | | 0.022 | |
| 05/31/2006 | 2006 | 31936 | A | RPT | | 0.015 | |
| 05/31/2006 | 2006 | 319360 | A | RPT | Changed number of dials to 6 | 0 | |
| 07/31/2006 | 2006 | 213485 | R | RPT | Meter Rollover | 2.744 | |
| 08/31/2006 | 2006 | 274617 | A | RPT | | 0.188 | |
| 09/30/2006 | 2006 | 324955 | A | RPT | Final reading not available | 0.154 | |
| 10/31/2006 | 2006 | 0 | A | RPT | Initial reading | 0 | |
| 10/31/2006 | 2006 | 33355 | A | RPT | | 0.102 | |
| 11/30/2006 | 2006 | 83596 | A | RPT | | 0.154 | |
| 12/31/2006 | 2006 | 83596 | A | RPT | | 0 | |
| 01/31/2007 | 2007 | 22623 | R | RPT | Meter Rollover | 2.882 | |
| 06/30/2007 | 2007 | 115003 | A | RPT | | 0.353 | |
| 06/30/2007 | 2007 | 0 | A | RPT | Initial reading | 0 | |
| 07/31/2007 | 2007 | 166292 | A | RPT | | 0.157 | |

| | | | | | |
|---|---|---|---|---|---|
| 08/31/2007 | 2007 | 214288 | A | RPT | 0.147 |
| 09/30/2007 | 2007 | 263699 | A | RPT | 0.152 |
| 10/31/2007 | 2007 | 313375 | A | RPT | 0.152 |
| 11/30/2007 | 2007 | 360848 | A | RPT | 0.146 |
| 12/31/2007 | 2007 | 385197 | A | RPT | 0.075 |
| 05/31/2008 | 2008 | 385197 | A | RPT | 0 |
| 06/30/2008 | 2008 | 385197 | A | RPT | 0 |
| 07/31/2008 | 2008 | 385197 | A | RPT | 0 |
| 10/31/2008 | 2008 | 385197 | A | RPT | 0 |
| 11/30/2008 | 2008 | 385197 | A | RPT | 0 |
| 02/28/2009 | 2009 | 385197 | A | RPT | 0 |
| 03/31/2009 | 2009 | 385215 | A | RPT | 0 |
| 04/30/2009 | 2009 | 385215 | A | RPT | 0 |
| 05/31/2009 | 2009 | 385215 | A | RPT | 0 |

x

| **YTD Meter Amounts: | Year | Amount |
|---|---|---|
| | 2005 | 0.056 |
| | 2006 | 3.691 |
| | 2007 | 4.064 |
| | 2008 | 0 |
| | 2009 | 0 |

x




Legend
- Site Location
- Well - USGS
- 0.5 Mi Radius
- 1000 Ft Radius

**Figure 5**
USGS Well Proximity Map
COG Operating, LLC
NM DW State N. 2-6 Flowline
GPS: 32.422484, -103.413624
Lea County

eTECH Environmental & Safety Solutions, Inc.

Drafted: mag Checked: jwl Date: 12/9/20

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## Search Results -- 1 sites found

**Agency code =** usgs
**site_no list =**
- 322412103260001

**Minimum number of levels =** 1
Save file of selected sites to local disk for future upload

## USGS 322412103260001 22S.34E.11.24423

Lea County, New Mexico
Latitude 32°24'26", Longitude 103°25'59" NAD27
Land-surface elevation 3,517.00 feet above NGVD29
The depth of the well is 45 feet below land surface.
This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

**Output formats**

| |
|---|
| Table of data |
| Tab-separated data |
| Graph of data |
| Reselect period |

| Date | Time | ? Water-level date-time accuracy | Water level, feet below land surface | Water level, feet above specific vertical datum | Referenced vertical datum | ? Water-level accuracy | ? Status | ? Method of measurement | ? Measuring agency | ? Source of measurement | ? Water level appr statu |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1967-10-18 | | D | 9.37 | | | 2 | | U | | U | |
| 1968-06-10 | | D | 9.36 | | | 2 | | U | | U | |
| 1970-12-04 | | D | 10.50 | | | 2 | | U | | U | |
| 1976-12-16 | | D | 8.76 | | | 2 | | U | | U | |
| 1981-03-18 | | D | 7.37 | | | 2 | | U | | U | |
| 1986-04-10 | | D | 6.27 | | | 2 | | U | | U | |
| 1991-05-03 | | D | 7.14 | | | 2 | | U | | U | |
| 1996-02-21 | | D | 8.13 | | | 2 | | S | | U | |

**Explanation**

| Section | Code | Description |
|---|---|---|
| Water-level date-time accuracy | D | Date is accurate to the Day |
| Water-level accuracy | 2 | Water level accuracy to nearest hundredth of a foot |
| Status | | The reported water-level measurement represents a static level |
| Method of measurement | S | Steel-tape measurement. |
| Method of measurement | U | Unknown method. |
| Measuring agency | | Not determined |
| Source of measurement | U | Source is unknown. |
| 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: 2020-12-09 11:03:36 EST
7.09 0.27 nadww01

National Water Information System: Web Interface

USGS Water Resources

Data Category: Groundwater | Geographic Area: United States | GO

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## Search Results -- 1 sites found

**Agency code =** usgs
**site_no list =**
- 322424103255801

**Minimum number of levels =** 1
Save file of selected sites to local disk for future upload

## USGS 322424103255801 22S.34E.11.22442

Lea County, New Mexico
Latitude 32°24'24", Longitude 103°25'58" NAD27
Land-surface elevation 3,517 feet above NAVD88
The depth of the well is 62 feet below land surface.
This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

**Output formats**

| |
|---|
| Table of data |
| Tab-separated data |
| Graph of data |
| Reselect period |

| Date | Time | ? Water-level date-time accuracy | Water level, feet below land surface | Water level, feet above specific vertical datum | Referenced vertical datum | ? Water-level accuracy | ? Status | ? Method of measurement | ? Measuring agency | ? Source of measurement | ? Wate level appr statu |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1968-06-10 | | D | 21.80 | | | 2 | R | U | | U | |
| 1970-12-04 | | D | 22.52 | | | 2 | | U | | U | |

**Explanation**

| Section | Code | Description |
|---|---|---|
| Water-level date-time accuracy | D | Date is accurate to the Day |
| Water-level accuracy | 2 | Water level accuracy to nearest hundredth of a foot |
| Status | | The reported water-level measurement represents a static level |
| Status | R | Site had been pumped recently. |
| Method of measurement | U | Unknown method. |
| Measuring agency | | Not determined |
| Source of measurement | U | Source is unknown. |
| 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: 2020-12-09 11:03:36 EST
5.87 0.26 nadww01

National Water Information System: Web Interface

USGS Water Resources

Data Category: Groundwater | Geographic Area: United States | GO

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**Agency code =** usgs
**site_no list =**
- 322446103240501

**Minimum number of levels =** 1
Save file of selected sites to local disk for future upload

## USGS 322446103240501 22S.35E.06.44114

Lea County, New Mexico
Latitude 32°25'00", Longitude 103°24'06" NAD27
Land-surface elevation 3,598.00 feet above NGVD29
The depth of the well is 62 feet below land surface.
This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

**Output formats**

| |
|---|
| Table of data |
| Tab-separated data |
| Graph of data |
| Reselect period |

| Date | Time | ? Water-level date-time accuracy | Water level, feet below land surface | Water level, feet above specific vertical datum | Referenced vertical datum | ? Water-level accuracy | ? Status | ? Method of measurement | ? Measuring agency | ? Source of measurement | ? Water level appr statu |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1968-06-10 | | D | 49.27 | | | 2 | R | U | | U | |
| 1970-12-04 | | D | 49.03 | | | 2 | | U | | U | |
| 1976-12-16 | | D | 48.20 | | | 2 | | U | | U | |
| 1981-03-18 | | D | 47.89 | | | 2 | | U | | U | |
| 1986-03-21 | | D | 47.25 | | | 2 | | U | | U | |
| 1991-05-03 | | D | 46.64 | | | 2 | | U | | U | |
| 1996-02-16 | | D | 46.63 | | | 2 | | S | | U | |

**Explanation**

| Section | Code | Description |
|---|---|---|
| Water-level date-time accuracy | D | Date is accurate to the Day |
| Water-level accuracy | 2 | Water level accuracy to nearest hundredth of a foot |
| Status | | The reported water-level measurement represents a static level |
| Status | R | Site had been pumped recently. |
| Method of measurement | S | Steel-tape measurement. |
| Method of measurement | U | Unknown method. |
| Measuring agency | | Not determined |
| Source of measurement | U | Source is unknown. |
| 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



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: 2020-12-09 11:03:36 EST
4.19 0.24 nadww01

# Appendix B
# Field Data and Soil Profile Logs

ETECH Environmental & Safety Solutions, Inc.

# Initial Release Assessment Form

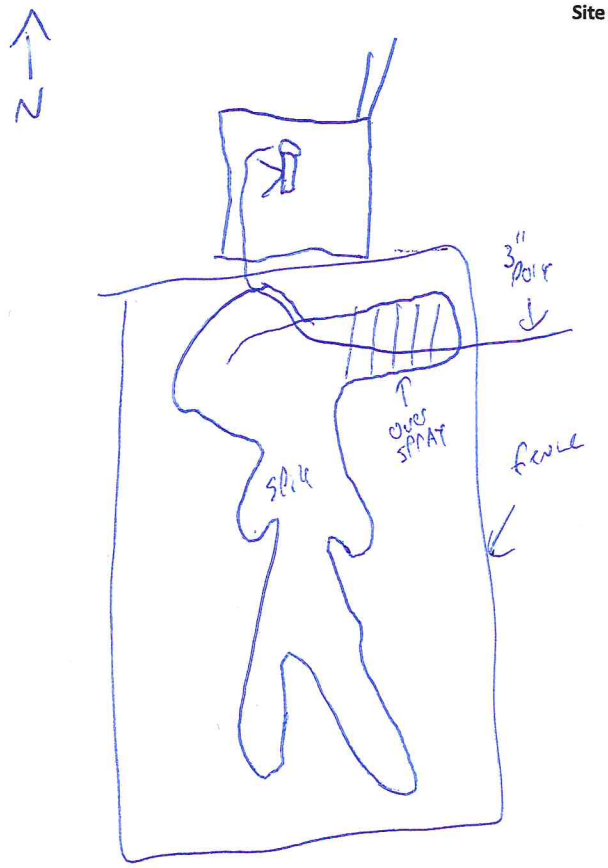
Date: 12/15/20

Project: NM OW No. 2-6 flowline

Project Number: 13524 Latitude: 32.422484 Longitude: -103.413624

Clean Up Level:

**Site Diagram**




**Notes:**

~Length: 230' ~Width: 60' ~Area: 6000 sq ft ~Depth: 4'

| | Yes | No |
|---|---|---|
| 3-4 Representative Pictures of the Affected Area including sample locations? | ☑ | ☐ |
| Necessary Samples Field Screened and on Ice? | ☑ | ☐ |
| Sample and Field Screen Data Entered on Sample Log? | ☑ | ☐ |
| Was horizontal and vertical delineation achieved? | ☑ | ☐ |

eTECH Environmental & Safety Solutions, Inc.

# Remediation Log

Project: NM DW State N. 2-6 Flowline

Project Number: 13524 Latitude: 32.422484 Longitude: -103.413624

| | Yes | No |
|---|---|---|
| Confirmation of Active One Call? One Call No. 21JA210077 | ☑ | ☐ |
| Confirmation of On-Site JSA? | ☑ | ☐ |

| Date: | Notes | Yds Out | Yds In |
|---|---|---|---|
| | ****Begin Remediation Activities**** | | |
| 12-10-20 | dig out impacted soil / dump truck haul to disposal | 42 | |
| 12-11-20 | dig out / stock pile / dump truck haul to disposal | 70 | |
| 12-14-20 | dig out / stockpile / haul to disposal dump truck | 28 | |
| 12-15-20 | dig out / stockpile / haul to disposal belly dump | 140 | |
| 12-15-20 | dig out / stockpile / haul to disposal belly dump | | |
| 12-16-20 | Excavate stockpile haul to disposal | 200 | |
| 12-17-20 | Excavate stockpile haul to disposal | 240 | |
| | | | |
| ~~12-21-20~~ | ~~dig out~~ | | |
| 12-28-20 | dig out | | |
| 12-29-20 | dig out | | |
| 12-30-20 | dig out / haul to disposal | 160 | |
| 12-31-20 | dig out / haul to disposal / sample | 140 | |
| 1-4-21 | haul to disposal | 80 | |
| 1-6-21 | Push material for backfill | | |
| 1-8-21 | Push material for backfill | | |
| 1-15-21 | Push material for backfill | | |
| 1-18-21 | haul to side / stockpile | | 460 |
| 1-19-21 | " " " started backfill | | 280 |
| 1-20-21 | " " " backfill | | 280 |
| 1-21-21 | " " " backfill | 20 | 100 |
| | ****Begin Backfill Activies**** | | |
| | ****Complete Remediation Activities**** | | |
| 1-22-21 | backfill | | |
| ~~1-23-21~~ 1-24-21 | backfill | | |
| ~~1-23-21~~ 1-25-21 | Remove fence / cleanup site | | |

| Total Yds Out | Total Yds In |
|---|---|
| 1120 | 1120 |

| | Yes | No |
|---|---|---|
| Pictures of Open Excavation Prior to Backfill | ☑ | ☐ |
| Relevant Information in Project Tracker? | ☑ | ☐ |

eTECH Environmental & Safety Solutions, Inc.

# Soil Profile

Date: 12/15/20

Project: NM DW State N. 2-6 Flowline

Project Number: 13524 Latitude: 32.422484 Longitude: -103.413624

| Depth (ft. bgs) | Description |
|---|---|
| 1 1' | topsoil |
| 2 1.5' | caliche |
| 3 | |
| 4 | |
| 5 | |
| 6 | |
| 7 | |
| 8 | |
| 9 | |
| 10 | |
| 11 | |
| 12 | |
| 13 | |
| 14 | |
| 15 | |
| 16 | |
| 17 | |
| 18 | |
| 19 | |
| 20 | |
| 21 | |
| 22 | |
| 23 | |
| 24 | |
| 25 | |
| 26 | |
| 27 | |
| 28 | |
| 29 | |
| 30 | |
| 31 | |
| 32 | |
| 33 | |
| 34 | |
| 35 | |
| 36 | |
| 37 | |
| 38 | |
| 39 | |
| 40 | |

# Appendix C
# Laboratory Analytical Reports

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# Certificate of Analysis Summary 681586

## Etech Environmental & Safety Solution, Inc, Midland, TX

### Project Name: NM DW State 2-6 Flowline

**Project Id:** 13542
**Contact:** PM
**Project Location:** Lea County, NM

**Date Received in Lab:** Thu 12.17.2020 11:57
**Report Date:** 12.21.2020 15:35
**Project Manager:** Jessica Kramer

| *Analysis Requested* | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ***Lab Id:*** | 681586-001 | | 681586-002 | | 681586-003 | | 681586-004 | | 681586-005 | | 681586-006 | |
| | ***Field Id:*** | SW1 | | SW2 | | SW3 | | SW4 | | WW1 | | WW2 | |
| | ***Depth:*** | | | | | | | | | | | | |
| | ***Matrix:*** | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | ***Sampled:*** | 12.15.2020 00:00 | | 12.15.2020 00:00 | | 12.15.2020 00:00 | | 12.15.2020 00:00 | | 12.15.2020 00:00 | | 12.15.2020 00:00 | |
| **BTEX by EPA 8021B** | ***Extracted:*** | 12.18.2020 16:30 | | 12.18.2020 16:30 | | 12.18.2020 16:30 | | 12.18.2020 16:30 | | 12.18.2020 17:00 | | 12.18.2020 17:00 | |
| | ***Analyzed:*** | 12.19.2020 12:41 | | 12.19.2020 13:02 | | 12.19.2020 13:22 | | 12.19.2020 13:43 | | 12.19.2020 17:29 | | 12.19.2020 17:50 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Benzene | | <0.00202 | 0.00202 | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00202 | 0.00202 | <0.00201 | 0.00201 | <0.00199 | 0.00199 |
| Toluene | | <0.00202 | 0.00202 | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00202 | 0.00202 | <0.00201 | 0.00201 | <0.00199 | 0.00199 |
| Ethylbenzene | | <0.00202 | 0.00202 | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00202 | 0.00202 | <0.00201 | 0.00201 | <0.00199 | 0.00199 |
| m,p-Xylenes | | <0.00403 | 0.00403 | <0.00398 | 0.00398 | <0.00397 | 0.00397 | <0.00404 | 0.00404 | <0.00402 | 0.00402 | <0.00398 | 0.00398 |
| o-Xylene | | <0.00202 | 0.00202 | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00202 | 0.00202 | <0.00201 | 0.00201 | <0.00199 | 0.00199 |
| Total Xylenes | | <0.00202 | 0.00202 | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00202 | 0.00202 | <0.00201 | 0.00201 | <0.00199 | 0.00199 |
| Total BTEX | | <0.00202 | 0.00202 | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00202 | 0.00202 | <0.00201 | 0.00201 | <0.00199 | 0.00199 |
| **Chloride by EPA 300** | ***Extracted:*** | 12.17.2020 21:45 | | 12.17.2020 21:45 | | 12.17.2020 21:45 | | 12.17.2020 21:45 | | 12.17.2020 21:45 | | 12.17.2020 21:45 | |
| | ***Analyzed:*** | 12.18.2020 02:27 | | 12.18.2020 02:32 | | 12.18.2020 02:37 | | 12.18.2020 02:43 | | 12.18.2020 02:58 | | 12.18.2020 03:03 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 7.41 | 4.97 | 7.38 | 5.04 | 11.9 | 4.98 | 6.89 | 4.95 | 6.08 | 4.99 | 7.76 | 5.03 |
| **TPH by SW8015 Mod** | ***Extracted:*** | 12.18.2020 10:00 | | 12.18.2020 10:00 | | 12.18.2020 10:00 | | 12.18.2020 10:00 | | 12.18.2020 10:00 | | 12.18.2020 10:00 | |
| | ***Analyzed:*** | 12.18.2020 12:43 | | 12.18.2020 13:39 | | 12.18.2020 13:58 | | 12.18.2020 14:17 | | 12.18.2020 14:36 | | 12.18.2020 14:55 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <50.0 | 50.0 | <49.8 | 49.8 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <50.0 | 50.0 |
| Diesel Range Organics (DRO) | | 56.0 | 50.0 | <49.8 | 49.8 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <50.0 | 50.0 |
| Motor Oil Range Hydrocarbons (MRO) | | <50.0 | 50.0 | <49.8 | 49.8 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <50.0 | 50.0 |
| Total TPH | | 56.0 | 50.0 | <49.8 | 49.8 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <50.0 | 50.0 |

BRL - Below Reporting Limit

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Jessica Kramer

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# Certificate of Analysis Summary 681586

## Etech Environmental & Safety Solution, Inc, Midland, TX

### Project Name: NM DW State 2-6 Flowline

**Project Id:** 13542
**Contact:** PM
**Project Location:** Lea County, NM

**Date Received in Lab:** Thu 12.17.2020 11:57
**Report Date:** 12.21.2020 15:35
**Project Manager:** Jessica Kramer

| *Analysis Requested* | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ***Lab Id:*** | 681586-007 | | 681586-008 | | 681586-009 | | 681586-010 | | 681586-011 | | 681586-012 | |
| | ***Field Id:*** | WW3 | | NW1 | | NW2 | | NW3 | | NW4 | | NW5 | |
| | ***Depth:*** | | | | | | | | | | | | |
| | ***Matrix:*** | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | ***Sampled:*** | 12.15.2020 00:00 | | 12.15.2020 00:00 | | 12.15.2020 00:00 | | 12.15.2020 00:00 | | 12.15.2020 00:00 | | 12.15.2020 00:00 | |
| **BTEX by EPA 8021B** | ***Extracted:*** | 12.18.2020 17:00 | | 12.18.2020 17:00 | | 12.18.2020 17:00 | | 12.18.2020 17:00 | | 12.18.2020 17:00 | | 12.18.2020 17:00 | |
| | ***Analyzed:*** | 12.19.2020 18:10 | | 12.19.2020 18:31 | | 12.19.2020 18:51 | | 12.19.2020 19:12 | | 12.19.2020 19:33 | | 12.19.2020 19:53 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Benzene | | <0.00199 | 0.00199 | <0.00202 | 0.00202 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00198 | 0.00198 |
| Toluene | | <0.00199 | 0.00199 | 0.00741 | 0.00202 | 0.00338 | 0.00200 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | 0.00507 | 0.00198 |
| Ethylbenzene | | <0.00199 | 0.00199 | 0.0137 | 0.00202 | 0.00592 | 0.00200 | 0.00332 | 0.00200 | <0.00198 | 0.00198 | 0.00433 | 0.00198 |
| m,p-Xylenes | | <0.00398 | 0.00398 | 0.0280 | 0.00403 | 0.0110 | 0.00401 | 0.00647 | 0.00399 | <0.00397 | 0.00397 | 0.00837 | 0.00397 |
| o-Xylene | | <0.00199 | 0.00199 | 0.0209 | 0.00202 | 0.00937 | 0.00200 | 0.00452 | 0.00200 | 0.00236 | 0.00198 | 0.00558 | 0.00198 |
| Total Xylenes | | <0.00199 | 0.00199 | 0.0489 | 0.00202 | 0.0204 | 0.00200 | 0.0110 | 0.00200 | 0.00236 | 0.00198 | 0.0140 | 0.00198 |
| Total BTEX | | <0.00199 | 0.00199 | 0.0700 | 0.00202 | 0.0297 | 0.00200 | 0.0143 | 0.00200 | 0.00236 | 0.00198 | 0.0234 | 0.00198 |
| **Chloride by EPA 300** | ***Extracted:*** | 12.17.2020 21:45 | | 12.17.2020 21:45 | | 12.17.2020 21:45 | | 12.17.2020 21:45 | | 12.17.2020 21:45 | | 12.17.2020 21:45 | |
| | ***Analyzed:*** | 12.18.2020 03:19 | | 12.18.2020 03:24 | | 12.18.2020 03:30 | | 12.18.2020 03:35 | | 12.18.2020 03:40 | | 12.18.2020 03:45 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 8.44 | 4.96 | 15.2 | 5.00 | 14.1 | 4.99 | 7.47 | 4.95 | 7.83 | 5.00 | 6.83 | 5.00 |
| **TPH by SW8015 Mod** | ***Extracted:*** | 12.18.2020 10:00 | | 12.18.2020 10:00 | | 12.18.2020 10:00 | | 12.18.2020 10:00 | | 12.18.2020 10:00 | | 12.18.2020 10:00 | |
| | ***Analyzed:*** | 12.18.2020 15:14 | | 12.18.2020 15:33 | | 12.18.2020 15:52 | | 12.18.2020 16:11 | | 12.18.2020 16:49 | | 12.18.2020 17:08 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <49.9 | 49.9 | <49.8 | 49.8 | <50.0 | 50.0 | <49.9 | 49.9 | <49.9 | 49.9 | <49.8 | 49.8 |
| Diesel Range Organics (DRO) | | <49.9 | 49.9 | 708 | 49.8 | 257 | 50.0 | 49.9 | 49.9 | <49.9 | 49.9 | <49.8 | 49.8 |
| Motor Oil Range Hydrocarbons (MRO) | | <49.9 | 49.9 | 119 | 49.8 | <50.0 | 50.0 | <49.9 | 49.9 | <49.9 | 49.9 | <49.8 | 49.8 |
| Total TPH | | <49.9 | 49.9 | 827 | 49.8 | 257 | 50.0 | 49.9 | 49.9 | <49.9 | 49.9 | <49.8 | 49.8 |

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# Certificate of Analysis Summary 681586

## Etech Environmental & Safety Solution, Inc, Midland, TX

### Project Name: NM DW State 2-6 Flowline

**Project Id:** 13542
**Contact:** PM
**Project Location:** Lea County, NM

**Date Received in Lab:** Thu 12.17.2020 11:57
**Report Date:** 12.21.2020 15:35
**Project Manager:** Jessica Kramer

| *Analysis Requested* | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ***Lab Id:*** | 681586-013 | | 681586-014 | | 681586-015 | | 681586-016 | | 681586-017 | | 681586-018 | |
| | ***Field Id:*** | NW6 | | FS1 | | FS2 | | FS3 | | FS4 | | FS5 | |
| | ***Depth:*** | | | | | | | | | | | | |
| | ***Matrix:*** | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | ***Sampled:*** | 12.15.2020 00:00 | | 12.15.2020 00:00 | | 12.15.2020 00:00 | | 12.15.2020 00:00 | | 12.15.2020 00:00 | | 12.15.2020 00:00 | |
| **BTEX by EPA 8021B** | ***Extracted:*** | 12.18.2020 17:00 | | 12.18.2020 17:00 | | 12.18.2020 17:00 | | 12.18.2020 17:00 | | 12.18.2020 17:00 | | 12.18.2020 17:00 | |
| | ***Analyzed:*** | 12.19.2020 20:14 | | 12.19.2020 20:34 | | 12.19.2020 21:58 | | 12.19.2020 22:19 | | 12.19.2020 22:39 | | 12.19.2020 23:00 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Benzene | | <0.00198 | 0.00198 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00202 | 0.00202 | <0.00200 | 0.00200 | <0.00201 | 0.00201 |
| Toluene | | 0.00380 | 0.00198 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00202 | 0.00202 | <0.00200 | 0.00200 | <0.00201 | 0.00201 |
| Ethylbenzene | | 0.00352 | 0.00198 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00202 | 0.00202 | <0.00200 | 0.00200 | <0.00201 | 0.00201 |
| m,p-Xylenes | | 0.00594 | 0.00397 | <0.00400 | 0.00400 | <0.00398 | 0.00398 | <0.00404 | 0.00404 | <0.00401 | 0.00401 | <0.00402 | 0.00402 |
| o-Xylene | | 0.00366 | 0.00198 | 0.00207 | 0.00200 | <0.00199 | 0.00199 | 0.00264 | 0.00202 | <0.00200 | 0.00200 | <0.00201 | 0.00201 |
| Total Xylenes | | 0.00960 | 0.00198 | 0.00207 | 0.00200 | <0.00199 | 0.00199 | 0.00264 | 0.00202 | <0.00200 | 0.00200 | <0.00201 | 0.00201 |
| Total BTEX | | 0.0169 | 0.00198 | 0.00207 | 0.00200 | <0.00199 | 0.00199 | 0.00264 | 0.00202 | <0.00200 | 0.00200 | <0.00201 | 0.00201 |
| **Chloride by EPA 300** | ***Extracted:*** | 12.17.2020 21:45 | | 12.17.2020 22:00 | | 12.17.2020 22:00 | | 12.17.2020 22:00 | | 12.17.2020 22:00 | | 12.17.2020 22:00 | |
| | ***Analyzed:*** | 12.18.2020 03:50 | | 12.18.2020 08:21 | | 12.18.2020 08:37 | | 12.18.2020 08:42 | | 12.18.2020 08:47 | | 12.18.2020 08:53 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 7.41 | 4.99 | 25.3 | 4.96 | 21.2 | 5.05 | 22.1 | 5.00 | 30.4 | 4.99 | 19.0 | 4.96 |
| **TPH by SW8015 Mod** | ***Extracted:*** | 12.18.2020 10:00 | | 12.18.2020 10:00 | | 12.18.2020 10:00 | | 12.18.2020 10:00 | | 12.18.2020 10:00 | | 12.18.2020 10:00 | |
| | ***Analyzed:*** | 12.18.2020 17:27 | | 12.18.2020 17:46 | | 12.18.2020 18:04 | | 12.18.2020 18:23 | | 12.18.2020 18:42 | | 12.18.2020 19:01 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 |
| Diesel Range Organics (DRO) | | <50.0 | 50.0 | 211 | 49.9 | 282 | 50.0 | 336 | 50.0 | 465 | 49.9 | 60.8 | 49.8 |
| Motor Oil Range Hydrocarbons (MRO) | | <50.0 | 50.0 | <49.9 | 49.9 | 53.3 | 50.0 | 57.6 | 50.0 | 79.9 | 49.9 | <49.8 | 49.8 |
| Total TPH | | <50.0 | 50.0 | 211 | 49.9 | 335 | 50.0 | 394 | 50.0 | 545 | 49.9 | 60.8 | 49.8 |

BRL - Below Reporting Limit

Jessica Kramer

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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# Certificate of Analysis Summary 681586

## Etech Environmental & Safety Solution, Inc, Midland, TX

### Project Name: NM DW State 2-6 Flowline

**Project Id:** 13542
**Contact:** PM
**Project Location:** Lea County, NM

**Date Received in Lab:** Thu 12.17.2020 11:57
**Report Date:** 12.21.2020 15:35
**Project Manager:** Jessica Kramer

| *Analysis Requested* | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ***Lab Id:*** | 681586-019 | | 681586-020 | | 681586-021 | | 681586-022 | | 681586-023 | | 681586-024 | |
| | ***Field Id:*** | FS6 | | FS7 | | FS8 | | FS9 | | FS10 | | FS11 | |
| | ***Depth:*** | | | | | | | | | | | | |
| | ***Matrix:*** | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | ***Sampled:*** | 12.15.2020 00:00 | | 12.15.2020 00:00 | | 12.15.2020 00:00 | | 12.15.2020 00:00 | | 12.15.2020 00:00 | | 12.15.2020 00:00 | |
| **BTEX by EPA 8021B** | ***Extracted:*** | 12.18.2020 17:00 | | 12.18.2020 17:00 | | 12.18.2020 17:00 | | 12.18.2020 17:00 | | 12.18.2020 17:00 | | 12.18.2020 17:00 | |
| | ***Analyzed:*** | 12.19.2020 23:21 | | 12.19.2020 23:41 | | 12.20.2020 00:02 | | 12.20.2020 00:22 | | 12.20.2020 00:43 | | 12.20.2020 01:03 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Benzene | | <0.00200 | 0.00200 | <0.00201 | 0.00201 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00201 | 0.00201 |
| Toluene | | <0.00200 | 0.00200 | <0.00201 | 0.00201 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00201 | 0.00201 |
| Ethylbenzene | | <0.00200 | 0.00200 | <0.00201 | 0.00201 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00201 | 0.00201 |
| m,p-Xylenes | | 0.00405 | 0.00400 | 0.00586 | 0.00402 | 0.00559 | 0.00398 | 0.00484 | 0.00399 | <0.00399 | 0.00399 | 0.00488 | 0.00402 |
| o-Xylene | | 0.00402 | 0.00200 | 0.00680 | 0.00201 | 0.00534 | 0.00199 | 0.00255 | 0.00200 | 0.00249 | 0.00200 | 0.00419 | 0.00201 |
| Total Xylenes | | 0.00807 | 0.00200 | 0.0127 | 0.00201 | 0.0109 | 0.00199 | 0.00739 | 0.00200 | 0.00249 | 0.00200 | 0.00907 | 0.00201 |
| Total BTEX | | 0.00807 | 0.00200 | 0.0127 | 0.00201 | 0.0109 | 0.00199 | 0.00739 | 0.00200 | 0.00249 | 0.00200 | 0.00907 | 0.00201 |
| **Chloride by EPA 300** | ***Extracted:*** | 12.17.2020 22:00 | | 12.17.2020 22:00 | | 12.17.2020 22:00 | | 12.17.2020 22:00 | | 12.17.2020 22:00 | | 12.17.2020 22:00 | |
| | ***Analyzed:*** | 12.18.2020 09:08 | | 12.18.2020 09:13 | | 12.18.2020 09:19 | | 12.18.2020 09:24 | | 12.18.2020 09:29 | | 12.18.2020 09:34 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 48.8 | 5.00 | 44.2 | 5.04 | 41.8 | 4.98 | 39.0 | 4.95 | 33.9 | 5.00 | 46.3 | 5.05 |
| **TPH by SW8015 Mod** | ***Extracted:*** | 12.18.2020 10:00 | | 12.18.2020 10:00 | | 12.18.2020 17:00 | | 12.18.2020 17:00 | | 12.18.2020 17:00 | | 12.18.2020 17:00 | |
| | ***Analyzed:*** | 12.18.2020 19:20 | | 12.18.2020 19:39 | | 12.19.2020 07:14 | | 12.19.2020 07:32 | | 12.19.2020 07:52 | | 12.19.2020 08:11 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 |
| Diesel Range Organics (DRO) | | 444 | 50.0 | 747 | 50.0 | 352 | 50.0 | 370 | 50.0 | 536 | 49.9 | 285 | 50.0 |
| Motor Oil Range Hydrocarbons (MRO) | | 72.0 | 50.0 | 115 | 50.0 | 55.4 | 50.0 | 65.6 | 50.0 | 88.3 | 49.9 | 54.8 | 50.0 |
| Total TPH | | 516 | 50.0 | 862 | 50.0 | 407 | 50.0 | 436 | 50.0 | 624 | 49.9 | 340 | 50.0 |

BRL - Below Reporting Limit

Jessica Kramer

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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# Certificate of Analysis Summary 681586

## Etech Environmental & Safety Solution, Inc, Midland, TX

### Project Name: NM DW State 2-6 Flowline

**Project Id:** 13542
**Contact:** PM
**Project Location:** Lea County, NM

**Date Received in Lab:** Thu 12.17.2020 11:57
**Report Date:** 12.21.2020 15:35
**Project Manager:** Jessica Kramer

| *Analysis Requested* | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ***Lab Id:*** | 681586-025 | | 681586-026 | | 681586-027 | | 681586-028 | | 681586-029 | | 681586-030 | |
| | ***Field Id:*** | FS12 | | FS13 | | FS14 | | FS15 | | FS16 | | FS17 | |
| | ***Depth:*** | | | | | | | | | | | | |
| | ***Matrix:*** | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | ***Sampled:*** | 12.15.2020 00:00 | | 12.15.2020 00:00 | | 12.15.2020 00:00 | | 12.15.2020 00:00 | | 12.15.2020 00:00 | | 12.15.2020 00:00 | |
| **BTEX by EPA 8021B** | ***Extracted:*** | 12.18.2020 17:30 | | 12.18.2020 17:30 | | 12.18.2020 17:30 | | 12.18.2020 17:30 | | 12.18.2020 17:30 | | 12.18.2020 17:30 | |
| | ***Analyzed:*** | 12.20.2020 04:12 | | 12.20.2020 04:33 | | 12.20.2020 06:15 | | 12.20.2020 06:36 | | 12.20.2020 06:56 | | 12.20.2020 01:50 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Benzene | | <0.00202 | 0.00202 | <0.00199 | 0.00199 | <0.00202 | 0.00202 | <0.00200 | 0.00200 | <0.00202 | 0.00202 | <0.00200 | 0.00200 |
| Toluene | | <0.00202 | 0.00202 | 0.00205 | 0.00199 | <0.00202 | 0.00202 | 0.00396 | 0.00200 | <0.00202 | 0.00202 | <0.00200 | 0.00200 |
| Ethylbenzene | | <0.00202 | 0.00202 | <0.00199 | 0.00199 | <0.00202 | 0.00202 | 0.00299 | 0.00200 | 0.00389 | 0.00202 | 0.00210 | 0.00200 |
| m,p-Xylenes | | <0.00404 | 0.00404 | <0.00398 | 0.00398 | <0.00403 | 0.00403 | 0.00658 | 0.00399 | 0.00916 | 0.00404 | 0.00419 X | 0.00399 |
| o-Xylene | | <0.00202 | 0.00202 | 0.00234 | 0.00199 | <0.00202 | 0.00202 | 0.00635 | 0.00200 | 0.00802 | 0.00202 | 0.00344 X | 0.00200 |
| Total Xylenes | | <0.00202 | 0.00202 | 0.00234 | 0.00199 | <0.00202 | 0.00202 | 0.0129 | 0.00200 | 0.0172 | 0.00202 | 0.00763 | 0.00200 |
| Total BTEX | | <0.00202 | 0.00202 | 0.00439 | 0.00199 | <0.00202 | 0.00202 | 0.0199 | 0.00200 | 0.0211 | 0.00202 | 0.00973 | 0.00200 |
| **Chloride by EPA 300** | ***Extracted:*** | 12.17.2020 22:00 | | 12.17.2020 22:00 | | 12.17.2020 22:00 | | 12.17.2020 22:00 | | 12.17.2020 22:00 | | 12.17.2020 22:00 | |
| | ***Analyzed:*** | 12.18.2020 09:50 | | 12.18.2020 09:55 | | 12.18.2020 10:11 | | 12.18.2020 10:16 | | 12.18.2020 10:21 | | 12.18.2020 10:27 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 28.5 | 5.02 | 32.2 | 4.96 | 12.5 | 4.99 | 22.3 | 4.97 | 27.7 | 5.02 | 12.0 | 4.95 |
| **TPH by SW8015 Mod** | ***Extracted:*** | 12.18.2020 17:00 | | 12.18.2020 17:00 | | 12.18.2020 17:00 | | 12.18.2020 17:00 | | 12.18.2020 17:00 | | 12.18.2020 17:00 | |
| | ***Analyzed:*** | 12.19.2020 08:30 | | 12.19.2020 08:50 | | 12.19.2020 09:09 | | 12.19.2020 09:28 | | 12.19.2020 09:46 | | 12.19.2020 10:05 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.8 | 49.8 | <49.9 | 49.9 |
| Diesel Range Organics (DRO) | | 140 | 49.9 | <50.0 | 50.0 | 225 | 49.9 | 374 | 50.0 | 319 | 49.8 | 218 | 49.9 |
| Motor Oil Range Hydrocarbons (MRO) | | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 | 57.0 | 50.0 | 52.7 | 49.8 | <49.9 | 49.9 |
| Total TPH | | 140 | 49.9 | <50.0 | 50.0 | 225 | 49.9 | 431 | 50.0 | 372 | 49.8 | 218 | 49.9 |

BRL - Below Reporting Limit

Jessica Kramer

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# Certificate of Analysis Summary 681586

## Etech Environmental & Safety Solution, Inc, Midland, TX

### Project Name: NM DW State 2-6 Flowline

**Project Id:** 13542
**Contact:** PM
**Project Location:** Lea County, NM

**Date Received in Lab:** Thu 12.17.2020 11:57
**Report Date:** 12.21.2020 15:35
**Project Manager:** Jessica Kramer

| *Analysis Requested* | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | ***Lab Id:*** | 681586-031 | | 681586-032 | | 681586-033 | | | | | |
| | ***Field Id:*** | FS18 | | FS19 | | FS20 | | | | | |
| | ***Depth:*** | | | | | | | | | | |
| | ***Matrix:*** | SOIL | | SOIL | | SOIL | | | | | |
| | ***Sampled:*** | 12.15.2020 00:00 | | 12.15.2020 00:00 | | 12.15.2020 00:00 | | | | | |
| **BTEX by EPA 8021B** | ***Extracted:*** | 12.18.2020 17:30 | | 12.18.2020 17:30 | | 12.18.2020 17:30 | | | | | |
| | ***Analyzed:*** | 12.20.2020 07:16 | | 12.20.2020 07:37 | | 12.20.2020 07:57 | | | | | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | | | | |
| Benzene | | <0.00201 | 0.00201 | <0.00202 | 0.00202 | <0.00202 | 0.00202 | | | | |
| Toluene | | 0.00206 | 0.00201 | <0.00202 | 0.00202 | 0.00291 | 0.00202 | | | | |
| Ethylbenzene | | <0.00201 | 0.00201 | <0.00202 | 0.00202 | 0.00591 | 0.00202 | | | | |
| m,p-Xylenes | | <0.00402 | 0.00402 | <0.00403 | 0.00403 | 0.0121 | 0.00403 | | | | |
| o-Xylene | | <0.00201 | 0.00201 | <0.00202 | 0.00202 | 0.0105 | 0.00202 | | | | |
| Total Xylenes | | <0.00201 | 0.00201 | <0.00202 | 0.00202 | 0.0226 | 0.00202 | | | | |
| Total BTEX | | 0.00206 | 0.00201 | <0.00202 | 0.00202 | 0.0314 | 0.00202 | | | | |
| **Chloride by EPA 300** | ***Extracted:*** | 12.17.2020 22:00 | | 12.17.2020 22:00 | | 12.17.2020 22:00 | | | | | |
| | ***Analyzed:*** | 12.18.2020 10:32 | | 12.18.2020 10:37 | | 12.18.2020 10:42 | | | | | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | | | | |
| Chloride | | 12.3 | 4.95 | 27.9 | 4.95 | 45.7 | 5.04 | | | | |
| **TPH by SW8015 Mod** | ***Extracted:*** | 12.18.2020 17:00 | | 12.18.2020 17:00 | | 12.18.2020 17:00 | | | | | |
| | ***Analyzed:*** | 12.19.2020 10:25 | | 12.19.2020 10:43 | | 12.19.2020 11:03 | | | | | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | | | | |
| Gasoline Range Hydrocarbons (GRO) | | <50.0 | 50.0 | <49.8 | 49.8 | <50.0 | 50.0 | | | | |
| Diesel Range Organics (DRO) | | 99.4 | 50.0 | <49.8 | 49.8 | 223 | 50.0 | | | | |
| Motor Oil Range Hydrocarbons (MRO) | | <50.0 | 50.0 | <49.8 | 49.8 | <50.0 | 50.0 | | | | |
| Total TPH | | 99.4 | 50.0 | <49.8 | 49.8 | 223 | 50.0 | | | | |

BRL - Below Reporting Limit

Jessica Kramer

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# Analytical Report 681586

## for

## Etech Environmental & Safety Solution, Inc

**Project Manager: PM**

**NM DW State 2-6 Flowline**

**13542**

**12.21.2020**

Collected By: Client

**1211 W. Florida Ave**
**Midland TX 79701**

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)

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12.21.2020

Project Manager: **PM**
**Etech Environmental & Safety Solution, Inc**
P.O. Box 62228
Midland, TX 79711

Reference: Eurofins Xenco, LLC Report No(s): **681586**
**NM DW State 2-6 Flowline**
Project Address: Lea County, NM

**PM** :

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 681586. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 681586 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

**Jessica Kramer**
Project Manager

*A Small Business and Minority Company*

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# Sample Cross Reference 681586

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State 2-6 Flowline

| Sample Id | Matrix | Date Collected | Sample Depth | Lab Sample Id |
|---|---|---|---|---|
| SW1 | S | 12.15.2020 00:00 | | 681586-001 |
| SW2 | S | 12.15.2020 00:00 | | 681586-002 |
| SW3 | S | 12.15.2020 00:00 | | 681586-003 |
| SW4 | S | 12.15.2020 00:00 | | 681586-004 |
| WW1 | S | 12.15.2020 00:00 | | 681586-005 |
| WW2 | S | 12.15.2020 00:00 | | 681586-006 |
| WW3 | S | 12.15.2020 00:00 | | 681586-007 |
| NW1 | S | 12.15.2020 00:00 | | 681586-008 |
| NW2 | S | 12.15.2020 00:00 | | 681586-009 |
| NW3 | S | 12.15.2020 00:00 | | 681586-010 |
| NW4 | S | 12.15.2020 00:00 | | 681586-011 |
| NW5 | S | 12.15.2020 00:00 | | 681586-012 |
| NW6 | S | 12.15.2020 00:00 | | 681586-013 |
| FS1 | S | 12.15.2020 00:00 | | 681586-014 |
| FS2 | S | 12.15.2020 00:00 | | 681586-015 |
| FS3 | S | 12.15.2020 00:00 | | 681586-016 |
| FS4 | S | 12.15.2020 00:00 | | 681586-017 |
| FS5 | S | 12.15.2020 00:00 | | 681586-018 |
| FS6 | S | 12.15.2020 00:00 | | 681586-019 |
| FS7 | S | 12.15.2020 00:00 | | 681586-020 |
| FS8 | S | 12.15.2020 00:00 | | 681586-021 |
| FS9 | S | 12.15.2020 00:00 | | 681586-022 |
| FS10 | S | 12.15.2020 00:00 | | 681586-023 |
| FS11 | S | 12.15.2020 00:00 | | 681586-024 |
| FS12 | S | 12.15.2020 00:00 | | 681586-025 |
| FS13 | S | 12.15.2020 00:00 | | 681586-026 |
| FS14 | S | 12.15.2020 00:00 | | 681586-027 |
| FS15 | S | 12.15.2020 00:00 | | 681586-028 |
| FS16 | S | 12.15.2020 00:00 | | 681586-029 |
| FS17 | S | 12.15.2020 00:00 | | 681586-030 |
| FS18 | S | 12.15.2020 00:00 | | 681586-031 |
| FS19 | S | 12.15.2020 00:00 | | 681586-032 |
| FS20 | S | 12.15.2020 00:00 | | 681586-033 |

# CASE NARRATIVE



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***Client Name: Etech Environmental & Safety Solution, Inc***

***Project Name: NM DW State 2-6 Flowline***

Project ID: *13542*
Work Order Number(s): *681586*

Report Date: *12.21.2020*
Date Received: *12.17.2020*

**Sample receipt non conformances and comments:**

**Sample receipt non conformances and comments per sample:**

None

**Analytical non conformances and comments:**

Batch: LBA-3145449 BTEX by EPA 8021B
Surrogate 4-Bromofluorobenzene recovered below QC limits. Matrix interferences is suspected. Samples affected are: 681586-002.

Batch: LBA-3145472 BTEX by EPA 8021B
Lab Sample ID 681586-005 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). m,p-Xylenes recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Benzene recovered below QC limits in the Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 681586-005, -006, -007, -008, -009, -010, -011, -012, -013, -014, -015, -016, -017, -018, -019, -020, -021, -022, -023, -024.
The Laboratory Control Sample for Benzene, m,p-Xylenes is within laboratory Control Limits, therefore the data was accepted.

Batch: LBA-3145474 BTEX by EPA 8021B
Lab Sample ID 681586-030 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 681586-025, -026, -027, -028, -029, -030, -031, -032, -033.
The Laboratory Control Sample for m,p-Xylenes, o-Xylene is within laboratory Control Limits, therefore the data was accepted.

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# Certificate of Analytical Results 681586

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State 2-6 Flowline

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **SW1** | Matrix: | Soil | Date Received: | 12.17.2020 11:57 |
| Lab Sample Id: | 681586-001 | Date Collected: | 12.15.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Chloride by EPA 300 | | | Prep Method: | E300P |
| Tech: | CHE | | | | |
| Analyst: | CHE | Date Prep: | 12.17.2020 21:45 | % Moisture: | |
| Seq Number: | 3145303 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **7.41** | 4.97 | mg/kg | 12.18.2020 02:27 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | | |
| Analyst: | ARM | Date Prep: | 12.18.2020 10:00 | % Moisture: | |
| Seq Number: | 3145524 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 12.18.2020 12:43 | U | 1 |
| **Diesel Range Organics (DRO)** | C10C28DRO | **56.0** | 50.0 | mg/kg | 12.18.2020 12:43 | | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 12.18.2020 12:43 | U | 1 |
| **Total TPH** | PHC635 | **56.0** | 50.0 | mg/kg | 12.18.2020 12:43 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 96 | % | 70-130 | 12.18.2020 12:43 | |
| o-Terphenyl | 84-15-1 | 101 | % | 70-130 | 12.18.2020 12:43 | |

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# Certificate of Analytical Results 681586

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State 2-6 Flowline

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **SW1** | Matrix: | Soil | Date Received: | 12.17.2020 11:57 |
| Lab Sample Id: | 681586-001 | Date Collected: | 12.15.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | | |
| Analyst: | KTL | Date Prep: | 12.18.2020 16:30 | % Moisture: | |
| Seq Number: | 3145449 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00202 | 0.00202 | mg/kg | 12.19.2020 12:41 | U | 1 |
| Toluene | 108-88-3 | <0.00202 | 0.00202 | mg/kg | 12.19.2020 12:41 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00202 | 0.00202 | mg/kg | 12.19.2020 12:41 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00403 | 0.00403 | mg/kg | 12.19.2020 12:41 | U | 1 |
| o-Xylene | 95-47-6 | <0.00202 | 0.00202 | mg/kg | 12.19.2020 12:41 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00202 | 0.00202 | mg/kg | 12.19.2020 12:41 | U | 1 |
| Total BTEX | | <0.00202 | 0.00202 | mg/kg | 12.19.2020 12:41 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 108 | % | 70-130 | 12.19.2020 12:41 | |
| 1,4-Difluorobenzene | 540-36-3 | 94 | % | 70-130 | 12.19.2020 12:41 | |

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# Certificate of Analytical Results 681586

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State 2-6 Flowline

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **SW2** | Matrix: | Soil | Date Received: | 12.17.2020 11:57 |
| Lab Sample Id: | 681586-002 | Date Collected: | 12.15.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Chloride by EPA 300 | | | Prep Method: | E300P |
| Tech: | CHE | | | | |
| Analyst: | CHE | Date Prep: | 12.17.2020 21:45 | % Moisture: | |
| Seq Number: | 3145303 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **7.38** | 5.04 | mg/kg | 12.18.2020 02:32 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | | |
| Analyst: | ARM | Date Prep: | 12.18.2020 10:00 | % Moisture: | |
| Seq Number: | 3145524 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.8 | 49.8 | mg/kg | 12.18.2020 13:39 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.8 | 49.8 | mg/kg | 12.18.2020 13:39 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.8 | 49.8 | mg/kg | 12.18.2020 13:39 | U | 1 |
| Total TPH | PHC635 | <49.8 | 49.8 | mg/kg | 12.18.2020 13:39 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 94 | % | 70-130 | 12.18.2020 13:39 | |
| o-Terphenyl | 84-15-1 | 97 | % | 70-130 | 12.18.2020 13:39 | |

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# Certificate of Analytical Results 681586

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State 2-6 Flowline

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **SW2** | Matrix: | Soil | Date Received: | 12.17.2020 11:57 |
| Lab Sample Id: | 681586-002 | Date Collected: | 12.15.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | | |
| Analyst: | KTL | Date Prep: | 12.18.2020 16:30 | % Moisture: | |
| Seq Number: | 3145449 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 12.19.2020 13:02 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 12.19.2020 13:02 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 12.19.2020 13:02 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 12.19.2020 13:02 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 12.19.2020 13:02 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 12.19.2020 13:02 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 12.19.2020 13:02 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 56 | % | 70-130 | 12.19.2020 13:02 | ** |
| 1,4-Difluorobenzene | 540-36-3 | 82 | % | 70-130 | 12.19.2020 13:02 | |

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# Certificate of Analytical Results 681586

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State 2-6 Flowline

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **SW3** | Matrix: | Soil | Date Received: | 12.17.2020 11:57 |
| Lab Sample Id: | 681586-003 | Date Collected: | 12.15.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Chloride by EPA 300 | | | Prep Method: | E300P |
| Tech: | CHE | | | | |
| Analyst: | CHE | Date Prep: | 12.17.2020 21:45 | % Moisture: | |
| Seq Number: | 3145303 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **11.9** | 4.98 | mg/kg | 12.18.2020 02:37 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | | |
| Analyst: | ARM | Date Prep: | 12.18.2020 10:00 | % Moisture: | |
| Seq Number: | 3145524 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 12.18.2020 13:58 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 12.18.2020 13:58 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 12.18.2020 13:58 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 12.18.2020 13:58 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 99 | % | 70-130 | 12.18.2020 13:58 | |
| o-Terphenyl | 84-15-1 | 103 | % | 70-130 | 12.18.2020 13:58 | |

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# Certificate of Analytical Results 681586

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State 2-6 Flowline

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **SW3** | Matrix: | Soil | Date Received: | 12.17.2020 11:57 |
| Lab Sample Id: | 681586-003 | Date Collected: | 12.15.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | | |
| Analyst: | KTL | Date Prep: | 12.18.2020 16:30 | % Moisture: | |
| Seq Number: | 3145449 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00198 | 0.00198 | mg/kg | 12.19.2020 13:22 | U | 1 |
| Toluene | 108-88-3 | <0.00198 | 0.00198 | mg/kg | 12.19.2020 13:22 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00198 | 0.00198 | mg/kg | 12.19.2020 13:22 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00397 | 0.00397 | mg/kg | 12.19.2020 13:22 | U | 1 |
| o-Xylene | 95-47-6 | <0.00198 | 0.00198 | mg/kg | 12.19.2020 13:22 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00198 | 0.00198 | mg/kg | 12.19.2020 13:22 | U | 1 |
| Total BTEX | | <0.00198 | 0.00198 | mg/kg | 12.19.2020 13:22 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 100 | % | 70-130 | 12.19.2020 13:22 | |
| 1,4-Difluorobenzene | 540-36-3 | 108 | % | 70-130 | 12.19.2020 13:22 | |

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# Certificate of Analytical Results 681586

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State 2-6 Flowline

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **SW4** | Matrix: | Soil | Date Received: | 12.17.2020 11:57 |
| Lab Sample Id: | 681586-004 | Date Collected: | 12.15.2020 00:00 | | |
| Analytical Method: | Chloride by EPA 300 | | | Prep Method: | E300P |
| Tech: | CHE | | | | |
| Analyst: | CHE | Date Prep: | 12.17.2020 21:45 | % Moisture: | |
| Seq Number: | 3145303 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **6.89** | 4.95 | mg/kg | 12.18.2020 02:43 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | | |
| Analyst: | ARM | Date Prep: | 12.18.2020 10:00 | % Moisture: | |
| Seq Number: | 3145524 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 12.18.2020 14:17 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 12.18.2020 14:17 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 12.18.2020 14:17 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 12.18.2020 14:17 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 97 | % | 70-130 | 12.18.2020 14:17 | |
| o-Terphenyl | 84-15-1 | 101 | % | 70-130 | 12.18.2020 14:17 | |

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# Certificate of Analytical Results 681586

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State 2-6 Flowline

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **SW4** | Matrix: | Soil | Date Received: | 12.17.2020 11:57 |
| Lab Sample Id: | 681586-004 | Date Collected: | 12.15.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | | |
| Analyst: | KTL | Date Prep: | 12.18.2020 16:30 | % Moisture: | |
| Seq Number: | 3145449 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00202 | 0.00202 | mg/kg | 12.19.2020 13:43 | U | 1 |
| Toluene | 108-88-3 | <0.00202 | 0.00202 | mg/kg | 12.19.2020 13:43 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00202 | 0.00202 | mg/kg | 12.19.2020 13:43 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00404 | 0.00404 | mg/kg | 12.19.2020 13:43 | U | 1 |
| o-Xylene | 95-47-6 | <0.00202 | 0.00202 | mg/kg | 12.19.2020 13:43 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00202 | 0.00202 | mg/kg | 12.19.2020 13:43 | U | 1 |
| Total BTEX | | <0.00202 | 0.00202 | mg/kg | 12.19.2020 13:43 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 100 | % | 70-130 | 12.19.2020 13:43 | |
| 1,4-Difluorobenzene | 540-36-3 | 120 | % | 70-130 | 12.19.2020 13:43 | |

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# Certificate of Analytical Results 681586

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State 2-6 Flowline

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **WW1** | Matrix: | Soil | Date Received: | 12.17.2020 11:57 |
| Lab Sample Id: | 681586-005 | Date Collected: | 12.15.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Chloride by EPA 300 | | | Prep Method: | E300P |
| Tech: | CHE | | | | |
| Analyst: | CHE | Date Prep: | 12.17.2020 21:45 | % Moisture: | |
| Seq Number: | 3145303 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **6.08** | 4.99 | mg/kg | 12.18.2020 02:58 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | | |
| Analyst: | ARM | Date Prep: | 12.18.2020 10:00 | % Moisture: | |
| Seq Number: | 3145524 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 12.18.2020 14:36 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 12.18.2020 14:36 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 12.18.2020 14:36 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 12.18.2020 14:36 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 95 | % | 70-130 | 12.18.2020 14:36 | |
| o-Terphenyl | 84-15-1 | 99 | % | 70-130 | 12.18.2020 14:36 | |

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# Certificate of Analytical Results 681586

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State 2-6 Flowline

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **WW1** | Matrix: | Soil | Date Received: | 12.17.2020 11:57 |
| Lab Sample Id: | 681586-005 | Date Collected: | 12.15.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | | |
| Analyst: | KTL | Date Prep: | 12.18.2020 17:00 | % Moisture: | |
| Seq Number: | 3145472 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00201 | 0.00201 | mg/kg | 12.19.2020 17:29 | UX | 1 |
| Toluene | 108-88-3 | <0.00201 | 0.00201 | mg/kg | 12.19.2020 17:29 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00201 | 0.00201 | mg/kg | 12.19.2020 17:29 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00402 | 0.00402 | mg/kg | 12.19.2020 17:29 | UX | 1 |
| o-Xylene | 95-47-6 | <0.00201 | 0.00201 | mg/kg | 12.19.2020 17:29 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00201 | 0.00201 | mg/kg | 12.19.2020 17:29 | U | 1 |
| Total BTEX | | <0.00201 | 0.00201 | mg/kg | 12.19.2020 17:29 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 122 | % | 70-130 | 12.19.2020 17:29 | |
| 1,4-Difluorobenzene | 540-36-3 | 91 | % | 70-130 | 12.19.2020 17:29 | |

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# Certificate of Analytical Results 681586

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State 2-6 Flowline

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **WW2** | Matrix: | Soil | Date Received: | 12.17.2020 11:57 |
| Lab Sample Id: | 681586-006 | Date Collected: | 12.15.2020 00:00 | | |
| Analytical Method: | Chloride by EPA 300 | | | Prep Method: | E300P |
| Tech: | CHE | | | | |
| Analyst: | CHE | Date Prep: | 12.17.2020 21:45 | % Moisture: | |
| Seq Number: | 3145303 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **7.76** | 5.03 | mg/kg | 12.18.2020 03:03 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | | |
| Analyst: | ARM | Date Prep: | 12.18.2020 10:00 | % Moisture: | |
| Seq Number: | 3145524 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 12.18.2020 14:55 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 12.18.2020 14:55 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 12.18.2020 14:55 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 12.18.2020 14:55 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 96 | % | 70-130 | 12.18.2020 14:55 | |
| o-Terphenyl | 84-15-1 | 100 | % | 70-130 | 12.18.2020 14:55 | |

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# Certificate of Analytical Results 681586

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State 2-6 Flowline

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **WW2** | Matrix: | Soil | Date Received: | 12.17.2020 11:57 |
| Lab Sample Id: | 681586-006 | Date Collected: | 12.15.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | | |
| Analyst: | KTL | Date Prep: | 12.18.2020 17:00 | % Moisture: | |
| Seq Number: | 3145472 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 12.19.2020 17:50 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 12.19.2020 17:50 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 12.19.2020 17:50 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 12.19.2020 17:50 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 12.19.2020 17:50 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 12.19.2020 17:50 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 12.19.2020 17:50 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 103 | % | 70-130 | 12.19.2020 17:50 | |
| 1,4-Difluorobenzene | 540-36-3 | 91 | % | 70-130 | 12.19.2020 17:50 | |

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# Certificate of Analytical Results 681586

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State 2-6 Flowline

Sample Id: **WW3** Matrix: Soil Date Received:12.17.2020 11:57

Lab Sample Id: 681586-007 Date Collected: 12.15.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 12.17.2020 21:45 % Moisture:

Seq Number: 3145303 Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **8.44** | 4.96 | mg/kg | 12.18.2020 03:19 | | 1 |

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 12.18.2020 10:00 % Moisture:

Seq Number: 3145524 Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 12.18.2020 15:14 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 12.18.2020 15:14 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 12.18.2020 15:14 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 12.18.2020 15:14 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 97 | % | 70-130 | 12.18.2020 15:14 | |
| o-Terphenyl | 84-15-1 | 99 | % | 70-130 | 12.18.2020 15:14 | |

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# Certificate of Analytical Results 681586

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State 2-6 Flowline

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **WW3** | Matrix: | Soil | Date Received: | 12.17.2020 11:57 |
| Lab Sample Id: | 681586-007 | Date Collected: | 12.15.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | | |
| Analyst: | KTL | Date Prep: | 12.18.2020 17:00 | % Moisture: | |
| Seq Number: | 3145472 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 12.19.2020 18:10 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 12.19.2020 18:10 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 12.19.2020 18:10 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 12.19.2020 18:10 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 12.19.2020 18:10 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 12.19.2020 18:10 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 12.19.2020 18:10 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 109 | % | 70-130 | 12.19.2020 18:10 | |
| 1,4-Difluorobenzene | 540-36-3 | 91 | % | 70-130 | 12.19.2020 18:10 | |

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# Certificate of Analytical Results 681586

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State 2-6 Flowline

Sample Id: **NW1** Matrix: Soil Date Received:12.17.2020 11:57

Lab Sample Id: 681586-008 Date Collected: 12.15.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 12.17.2020 21:45 % Moisture:

Seq Number: 3145303 Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **15.2** | 5.00 | mg/kg | 12.18.2020 03:24 | | 1 |

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 12.18.2020 10:00 % Moisture:

Seq Number: 3145524 Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.8 | 49.8 | mg/kg | 12.18.2020 15:33 | U | 1 |
| **Diesel Range Organics (DRO)** | C10C28DRO | **708** | 49.8 | mg/kg | 12.18.2020 15:33 | | 1 |
| **Motor Oil Range Hydrocarbons (MRO)** | PHCG2835 | **119** | 49.8 | mg/kg | 12.18.2020 15:33 | | 1 |
| **Total TPH** | PHC635 | **827** | 49.8 | mg/kg | 12.18.2020 15:33 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 100 | % | 70-130 | 12.18.2020 15:33 | |
| o-Terphenyl | 84-15-1 | 119 | % | 70-130 | 12.18.2020 15:33 | |

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# Certificate of Analytical Results 681586

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State 2-6 Flowline

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **NW1** | Matrix: | Soil | Date Received: | 12.17.2020 11:57 |
| Lab Sample Id: | 681586-008 | Date Collected: | 12.15.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | | |
| Analyst: | KTL | Date Prep: | 12.18.2020 17:00 | % Moisture: | |
| Seq Number: | 3145472 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00202 | 0.00202 | mg/kg | 12.19.2020 18:31 | U | 1 |
| **Toluene** | 108-88-3 | **0.00741** | 0.00202 | mg/kg | 12.19.2020 18:31 | | 1 |
| **Ethylbenzene** | 100-41-4 | **0.0137** | 0.00202 | mg/kg | 12.19.2020 18:31 | | 1 |
| **m,p-Xylenes** | 179601-23-1 | **0.0280** | 0.00403 | mg/kg | 12.19.2020 18:31 | | 1 |
| **o-Xylene** | 95-47-6 | **0.0209** | 0.00202 | mg/kg | 12.19.2020 18:31 | | 1 |
| **Total Xylenes** | 1330-20-7 | **0.0489** | 0.00202 | mg/kg | 12.19.2020 18:31 | | 1 |
| **Total BTEX** | | **0.0700** | 0.00202 | mg/kg | 12.19.2020 18:31 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 115 | % | 70-130 | 12.19.2020 18:31 | |
| 1,4-Difluorobenzene | 540-36-3 | 88 | % | 70-130 | 12.19.2020 18:31 | |

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# Certificate of Analytical Results 681586

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State 2-6 Flowline

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **NW2** | Matrix: | Soil | Date Received: | 12.17.2020 11:57 |
| Lab Sample Id: | 681586-009 | Date Collected: | 12.15.2020 00:00 | | |
| Analytical Method: | Chloride by EPA 300 | | | Prep Method: | E300P |
| Tech: | CHE | | | | |
| Analyst: | CHE | Date Prep: | 12.17.2020 21:45 | % Moisture: | |
| Seq Number: | 3145303 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **14.1** | 4.99 | mg/kg | 12.18.2020 03:30 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | | |
| Analyst: | ARM | Date Prep: | 12.18.2020 10:00 | % Moisture: | |
| Seq Number: | 3145524 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 12.18.2020 15:52 | U | 1 |
| **Diesel Range Organics (DRO)** | C10C28DRO | **257** | 50.0 | mg/kg | 12.18.2020 15:52 | | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 12.18.2020 15:52 | U | 1 |
| **Total TPH** | PHC635 | **257** | 50.0 | mg/kg | 12.18.2020 15:52 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 97 | % | 70-130 | 12.18.2020 15:52 | |
| o-Terphenyl | 84-15-1 | 107 | % | 70-130 | 12.18.2020 15:52 | |

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# Certificate of Analytical Results 681586

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State 2-6 Flowline

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **NW2** | Matrix: | Soil | Date Received: | 12.17.2020 11:57 |
| Lab Sample Id: | 681586-009 | Date Collected: | 12.15.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | | |
| Analyst: | KTL | Date Prep: | 12.18.2020 17:00 | % Moisture: | |
| Seq Number: | 3145472 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 12.19.2020 18:51 | U | 1 |
| **Toluene** | 108-88-3 | **0.00338** | 0.00200 | mg/kg | 12.19.2020 18:51 | | 1 |
| **Ethylbenzene** | 100-41-4 | **0.00592** | 0.00200 | mg/kg | 12.19.2020 18:51 | | 1 |
| **m,p-Xylenes** | 179601-23-1 | **0.0110** | 0.00401 | mg/kg | 12.19.2020 18:51 | | 1 |
| **o-Xylene** | 95-47-6 | **0.00937** | 0.00200 | mg/kg | 12.19.2020 18:51 | | 1 |
| **Total Xylenes** | 1330-20-7 | **0.0204** | 0.00200 | mg/kg | 12.19.2020 18:51 | | 1 |
| **Total BTEX** | | **0.0297** | 0.00200 | mg/kg | 12.19.2020 18:51 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 95 | % | 70-130 | 12.19.2020 18:51 | |
| 4-Bromofluorobenzene | 460-00-4 | 117 | % | 70-130 | 12.19.2020 18:51 | |

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# Certificate of Analytical Results 681586

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State 2-6 Flowline

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **NW3** | Matrix: | Soil | Date Received: | 12.17.2020 11:57 |
| Lab Sample Id: | 681586-010 | Date Collected: | 12.15.2020 00:00 | | |
| Analytical Method: | Chloride by EPA 300 | | | Prep Method: | E300P |
| Tech: | CHE | | | | |
| Analyst: | CHE | Date Prep: | 12.17.2020 21:45 | % Moisture: | |
| Seq Number: | 3145303 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **7.47** | 4.95 | mg/kg | 12.18.2020 03:35 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | | |
| Analyst: | ARM | Date Prep: | 12.18.2020 10:00 | % Moisture: | |
| Seq Number: | 3145524 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 12.18.2020 16:11 | U | 1 |
| **Diesel Range Organics (DRO)** | C10C28DRO | **49.9** | 49.9 | mg/kg | 12.18.2020 16:11 | | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 12.18.2020 16:11 | U | 1 |
| **Total TPH** | PHC635 | **49.9** | 49.9 | mg/kg | 12.18.2020 16:11 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 96 | % | 70-130 | 12.18.2020 16:11 | |
| o-Terphenyl | 84-15-1 | 99 | % | 70-130 | 12.18.2020 16:11 | |

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# Certificate of Analytical Results 681586

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State 2-6 Flowline

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **NW3** | Matrix: | Soil | Date Received: | 12.17.2020 11:57 |
| Lab Sample Id: | 681586-010 | Date Collected: | 12.15.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | | |
| Analyst: | KTL | Date Prep: | 12.18.2020 17:00 | % Moisture: | |
| Seq Number: | 3145472 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 12.19.2020 19:12 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 12.19.2020 19:12 | U | 1 |
| **Ethylbenzene** | 100-41-4 | **0.00332** | 0.00200 | mg/kg | 12.19.2020 19:12 | | 1 |
| **m,p-Xylenes** | 179601-23-1 | **0.00647** | 0.00399 | mg/kg | 12.19.2020 19:12 | | 1 |
| **o-Xylene** | 95-47-6 | **0.00452** | 0.00200 | mg/kg | 12.19.2020 19:12 | | 1 |
| **Total Xylenes** | 1330-20-7 | **0.0110** | 0.00200 | mg/kg | 12.19.2020 19:12 | | 1 |
| **Total BTEX** | | **0.0143** | 0.00200 | mg/kg | 12.19.2020 19:12 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 100 | % | 70-130 | 12.19.2020 19:12 | |
| 4-Bromofluorobenzene | 460-00-4 | 115 | % | 70-130 | 12.19.2020 19:12 | |

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# Certificate of Analytical Results 681586

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State 2-6 Flowline

Sample Id: **NW4** Matrix: Soil Date Received:12.17.2020 11:57

Lab Sample Id: 681586-011 Date Collected: 12.15.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 12.17.2020 21:45 % Moisture:

Seq Number: 3145303 Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **7.83** | 5.00 | mg/kg | 12.18.2020 03:40 | | 1 |

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 12.18.2020 10:00 % Moisture:

Seq Number: 3145524 Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 12.18.2020 16:49 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 12.18.2020 16:49 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 12.18.2020 16:49 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 12.18.2020 16:49 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 97 | % | 70-130 | 12.18.2020 16:49 | |
| o-Terphenyl | 84-15-1 | 99 | % | 70-130 | 12.18.2020 16:49 | |

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# Certificate of Analytical Results 681586

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State 2-6 Flowline

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **NW4** | Matrix: | Soil | Date Received: | 12.17.2020 11:57 |
| Lab Sample Id: | 681586-011 | Date Collected: | 12.15.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | | |
| Analyst: | KTL | Date Prep: | 12.18.2020 17:00 | % Moisture: | |
| Seq Number: | 3145472 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00198 | 0.00198 | mg/kg | 12.19.2020 19:33 | U | 1 |
| Toluene | 108-88-3 | <0.00198 | 0.00198 | mg/kg | 12.19.2020 19:33 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00198 | 0.00198 | mg/kg | 12.19.2020 19:33 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00397 | 0.00397 | mg/kg | 12.19.2020 19:33 | U | 1 |
| **o-Xylene** | 95-47-6 | **0.00236** | 0.00198 | mg/kg | 12.19.2020 19:33 | | 1 |
| **Total Xylenes** | 1330-20-7 | **0.00236** | 0.00198 | mg/kg | 12.19.2020 19:33 | | 1 |
| **Total BTEX** | | **0.00236** | 0.00198 | mg/kg | 12.19.2020 19:33 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 110 | % | 70-130 | 12.19.2020 19:33 | |
| 1,4-Difluorobenzene | 540-36-3 | 92 | % | 70-130 | 12.19.2020 19:33 | |

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# Certificate of Analytical Results 681586

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State 2-6 Flowline

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **NW5** | Matrix: | Soil | Date Received: | 12.17.2020 11:57 |
| Lab Sample Id: | 681586-012 | Date Collected: | 12.15.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Chloride by EPA 300 | | | Prep Method: | E300P |
| Tech: | CHE | | | | |
| Analyst: | CHE | Date Prep: | 12.17.2020 21:45 | % Moisture: | |
| Seq Number: | 3145303 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **6.83** | 5.00 | mg/kg | 12.18.2020 03:45 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | | |
| Analyst: | ARM | Date Prep: | 12.18.2020 10:00 | % Moisture: | |
| Seq Number: | 3145524 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.8 | 49.8 | mg/kg | 12.18.2020 17:08 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.8 | 49.8 | mg/kg | 12.18.2020 17:08 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.8 | 49.8 | mg/kg | 12.18.2020 17:08 | U | 1 |
| Total TPH | PHC635 | <49.8 | 49.8 | mg/kg | 12.18.2020 17:08 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 96 | % | 70-130 | 12.18.2020 17:08 | |
| o-Terphenyl | 84-15-1 | 98 | % | 70-130 | 12.18.2020 17:08 | |

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# Certificate of Analytical Results 681586

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State 2-6 Flowline

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **NW5** | Matrix: | Soil | Date Received: | 12.17.2020 11:57 |
| Lab Sample Id: | 681586-012 | Date Collected: | 12.15.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | | |
| Analyst: | KTL | Date Prep: | 12.18.2020 17:00 | % Moisture: | |
| Seq Number: | 3145472 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00198 | 0.00198 | mg/kg | 12.19.2020 19:53 | U | 1 |
| **Toluene** | 108-88-3 | **0.00507** | 0.00198 | mg/kg | 12.19.2020 19:53 | | 1 |
| **Ethylbenzene** | 100-41-4 | **0.00433** | 0.00198 | mg/kg | 12.19.2020 19:53 | | 1 |
| **m,p-Xylenes** | 179601-23-1 | **0.00837** | 0.00397 | mg/kg | 12.19.2020 19:53 | | 1 |
| **o-Xylene** | 95-47-6 | **0.00558** | 0.00198 | mg/kg | 12.19.2020 19:53 | | 1 |
| **Total Xylenes** | 1330-20-7 | **0.0140** | 0.00198 | mg/kg | 12.19.2020 19:53 | | 1 |
| **Total BTEX** | | **0.0234** | 0.00198 | mg/kg | 12.19.2020 19:53 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 95 | % | 70-130 | 12.19.2020 19:53 | |
| 4-Bromofluorobenzene | 460-00-4 | 107 | % | 70-130 | 12.19.2020 19:53 | |

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# Certificate of Analytical Results 681586

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State 2-6 Flowline

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **NW6** | Matrix: | Soil | Date Received: | 12.17.2020 11:57 |
| Lab Sample Id: | 681586-013 | Date Collected: | 12.15.2020 00:00 | | |
| Analytical Method: | Chloride by EPA 300 | | | Prep Method: | E300P |
| Tech: | CHE | | | | |
| Analyst: | CHE | Date Prep: | 12.17.2020 21:45 | % Moisture: | |
| Seq Number: | 3145303 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **7.41** | 4.99 | mg/kg | 12.18.2020 03:50 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | | |
| Analyst: | ARM | Date Prep: | 12.18.2020 10:00 | % Moisture: | |
| Seq Number: | 3145524 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 12.18.2020 17:27 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 12.18.2020 17:27 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 12.18.2020 17:27 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 12.18.2020 17:27 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 98 | % | 70-130 | 12.18.2020 17:27 | |
| o-Terphenyl | 84-15-1 | 101 | % | 70-130 | 12.18.2020 17:27 | |

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# Certificate of Analytical Results 681586

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State 2-6 Flowline

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **NW6** | Matrix: | Soil | Date Received: | 12.17.2020 11:57 |
| Lab Sample Id: | 681586-013 | Date Collected: | 12.15.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | | |
| Analyst: | KTL | Date Prep: | 12.18.2020 17:00 | % Moisture: | |
| Seq Number: | 3145472 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00198 | 0.00198 | mg/kg | 12.19.2020 20:14 | U | 1 |
| **Toluene** | 108-88-3 | **0.00380** | 0.00198 | mg/kg | 12.19.2020 20:14 | | 1 |
| **Ethylbenzene** | 100-41-4 | **0.00352** | 0.00198 | mg/kg | 12.19.2020 20:14 | | 1 |
| **m,p-Xylenes** | 179601-23-1 | **0.00594** | 0.00397 | mg/kg | 12.19.2020 20:14 | | 1 |
| **o-Xylene** | 95-47-6 | **0.00366** | 0.00198 | mg/kg | 12.19.2020 20:14 | | 1 |
| **Total Xylenes** | 1330-20-7 | **0.00960** | 0.00198 | mg/kg | 12.19.2020 20:14 | | 1 |
| **Total BTEX** | | **0.0169** | 0.00198 | mg/kg | 12.19.2020 20:14 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 112 | % | 70-130 | 12.19.2020 20:14 | |
| 1,4-Difluorobenzene | 540-36-3 | 95 | % | 70-130 | 12.19.2020 20:14 | |

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# Certificate of Analytical Results 681586

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State 2-6 Flowline

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **FS1** | Matrix: | Soil | Date Received: | 12.17.2020 11:57 |
| Lab Sample Id: | 681586-014 | Date Collected: | 12.15.2020 00:00 | | |
| Analytical Method: | Chloride by EPA 300 | | | Prep Method: | E300P |
| Tech: | CHE | | | | |
| Analyst: | CHE | Date Prep: | 12.17.2020 22:00 | % Moisture: | |
| Seq Number: | 3145316 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **25.3** | 4.96 | mg/kg | 12.18.2020 08:21 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | | |
| Analyst: | ARM | Date Prep: | 12.18.2020 10:00 | % Moisture: | |
| Seq Number: | 3145524 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 12.18.2020 17:46 | U | 1 |
| **Diesel Range Organics (DRO)** | C10C28DRO | **211** | 49.9 | mg/kg | 12.18.2020 17:46 | | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 12.18.2020 17:46 | U | 1 |
| **Total TPH** | PHC635 | **211** | 49.9 | mg/kg | 12.18.2020 17:46 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 113 | % | 70-130 | 12.18.2020 17:46 | |
| o-Terphenyl | 84-15-1 | 124 | % | 70-130 | 12.18.2020 17:46 | |

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# Certificate of Analytical Results 681586

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State 2-6 Flowline

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **FS1** | Matrix: | Soil | Date Received: | 12.17.2020 11:57 |
| Lab Sample Id: | 681586-014 | Date Collected: | 12.15.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | | |
| Analyst: | KTL | Date Prep: | 12.18.2020 17:00 | % Moisture: | |
| Seq Number: | 3145472 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 12.19.2020 20:34 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 12.19.2020 20:34 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 12.19.2020 20:34 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00400 | 0.00400 | mg/kg | 12.19.2020 20:34 | U | 1 |
| **o-Xylene** | 95-47-6 | **0.00207** | 0.00200 | mg/kg | 12.19.2020 20:34 | | 1 |
| **Total Xylenes** | 1330-20-7 | **0.00207** | 0.00200 | mg/kg | 12.19.2020 20:34 | | 1 |
| **Total BTEX** | | **0.00207** | 0.00200 | mg/kg | 12.19.2020 20:34 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 93 | % | 70-130 | 12.19.2020 20:34 | |
| 4-Bromofluorobenzene | 460-00-4 | 114 | % | 70-130 | 12.19.2020 20:34 | |

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# Certificate of Analytical Results 681586

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State 2-6 Flowline

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **FS2** | Matrix: | Soil | Date Received: | 12.17.2020 11:57 |
| Lab Sample Id: | 681586-015 | Date Collected: | 12.15.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Chloride by EPA 300 | | | Prep Method: | E300P |
| Tech: | CHE | | | | |
| Analyst: | CHE | Date Prep: | 12.17.2020 22:00 | % Moisture: | |
| Seq Number: | 3145316 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **21.2** | 5.05 | mg/kg | 12.18.2020 08:37 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | | |
| Analyst: | ARM | Date Prep: | 12.18.2020 10:00 | % Moisture: | |
| Seq Number: | 3145524 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 12.18.2020 18:04 | U | 1 |
| **Diesel Range Organics (DRO)** | C10C28DRO | **282** | 50.0 | mg/kg | 12.18.2020 18:04 | | 1 |
| **Motor Oil Range Hydrocarbons (MRO)** | PHCG2835 | **53.3** | 50.0 | mg/kg | 12.18.2020 18:04 | | 1 |
| **Total TPH** | PHC635 | **335** | 50.0 | mg/kg | 12.18.2020 18:04 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 97 | % | 70-130 | 12.18.2020 18:04 | |
| o-Terphenyl | 84-15-1 | 118 | % | 70-130 | 12.18.2020 18:04 | |

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# Certificate of Analytical Results 681586

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State 2-6 Flowline

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **FS2** | Matrix: | Soil | Date Received: | 12.17.2020 11:57 |
| Lab Sample Id: | 681586-015 | Date Collected: | 12.15.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | | |
| Analyst: | KTL | Date Prep: | 12.18.2020 17:00 | % Moisture: | |
| Seq Number: | 3145472 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 12.19.2020 21:58 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 12.19.2020 21:58 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 12.19.2020 21:58 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 12.19.2020 21:58 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 12.19.2020 21:58 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 12.19.2020 21:58 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 12.19.2020 21:58 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 99 | % | 70-130 | 12.19.2020 21:58 | |
| 1,4-Difluorobenzene | 540-36-3 | 92 | % | 70-130 | 12.19.2020 21:58 | |

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# Certificate of Analytical Results 681586

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State 2-6 Flowline

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **FS3** | Matrix: | Soil | Date Received: | 12.17.2020 11:57 |
| Lab Sample Id: | 681586-016 | Date Collected: | 12.15.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Chloride by EPA 300 | | | Prep Method: | E300P |
| Tech: | CHE | | | | |
| Analyst: | CHE | Date Prep: | 12.17.2020 22:00 | % Moisture: | |
| Seq Number: | 3145316 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **22.1** | 5.00 | mg/kg | 12.18.2020 08:42 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | | |
| Analyst: | ARM | Date Prep: | 12.18.2020 10:00 | % Moisture: | |
| Seq Number: | 3145524 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 12.18.2020 18:23 | U | 1 |
| **Diesel Range Organics (DRO)** | C10C28DRO | **336** | 50.0 | mg/kg | 12.18.2020 18:23 | | 1 |
| **Motor Oil Range Hydrocarbons (MRO)** | PHCG2835 | **57.6** | 50.0 | mg/kg | 12.18.2020 18:23 | | 1 |
| **Total TPH** | PHC635 | **394** | 50.0 | mg/kg | 12.18.2020 18:23 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 98 | % | 70-130 | 12.18.2020 18:23 | |
| o-Terphenyl | 84-15-1 | 110 | % | 70-130 | 12.18.2020 18:23 | |

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# Certificate of Analytical Results 681586

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State 2-6 Flowline

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **FS3** | Matrix: | Soil | Date Received: | 12.17.2020 11:57 |
| Lab Sample Id: | 681586-016 | Date Collected: | 12.15.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | | |
| Analyst: | KTL | Date Prep: | 12.18.2020 17:00 | % Moisture: | |
| Seq Number: | 3145472 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00202 | 0.00202 | mg/kg | 12.19.2020 22:19 | U | 1 |
| Toluene | 108-88-3 | <0.00202 | 0.00202 | mg/kg | 12.19.2020 22:19 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00202 | 0.00202 | mg/kg | 12.19.2020 22:19 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00404 | 0.00404 | mg/kg | 12.19.2020 22:19 | U | 1 |
| **o-Xylene** | 95-47-6 | **0.00264** | 0.00202 | mg/kg | 12.19.2020 22:19 | | 1 |
| **Total Xylenes** | 1330-20-7 | **0.00264** | 0.00202 | mg/kg | 12.19.2020 22:19 | | 1 |
| **Total BTEX** | | **0.00264** | 0.00202 | mg/kg | 12.19.2020 22:19 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 113 | % | 70-130 | 12.19.2020 22:19 | |
| 1,4-Difluorobenzene | 540-36-3 | 93 | % | 70-130 | 12.19.2020 22:19 | |

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# Certificate of Analytical Results 681586

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State 2-6 Flowline

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **FS4** | Matrix: | Soil | Date Received: | 12.17.2020 11:57 |
| Lab Sample Id: | 681586-017 | Date Collected: | 12.15.2020 00:00 | | |
| Analytical Method: | Chloride by EPA 300 | | | Prep Method: | E300P |
| Tech: | CHE | | | | |
| Analyst: | CHE | Date Prep: | 12.17.2020 22:00 | % Moisture: | |
| Seq Number: | 3145316 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **30.4** | 4.99 | mg/kg | 12.18.2020 08:47 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | | |
| Analyst: | ARM | Date Prep: | 12.18.2020 10:00 | % Moisture: | |
| Seq Number: | 3145524 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 12.18.2020 18:42 | U | 1 |
| **Diesel Range Organics (DRO)** | C10C28DRO | **465** | 49.9 | mg/kg | 12.18.2020 18:42 | | 1 |
| **Motor Oil Range Hydrocarbons (MRO)** | PHCG2835 | **79.9** | 49.9 | mg/kg | 12.18.2020 18:42 | | 1 |
| **Total TPH** | PHC635 | **545** | 49.9 | mg/kg | 12.18.2020 18:42 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 94 | % | 70-130 | 12.18.2020 18:42 | |
| o-Terphenyl | 84-15-1 | 110 | % | 70-130 | 12.18.2020 18:42 | |

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# Certificate of Analytical Results 681586

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State 2-6 Flowline

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **FS4** | Matrix: | Soil | Date Received: | 12.17.2020 11:57 |
| Lab Sample Id: | 681586-017 | Date Collected: | 12.15.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | | |
| Analyst: | KTL | Date Prep: | 12.18.2020 17:00 | % Moisture: | |
| Seq Number: | 3145472 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 12.19.2020 22:39 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 12.19.2020 22:39 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 12.19.2020 22:39 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00401 | 0.00401 | mg/kg | 12.19.2020 22:39 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 12.19.2020 22:39 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 12.19.2020 22:39 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 12.19.2020 22:39 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 95 | % | 70-130 | 12.19.2020 22:39 | |
| 4-Bromofluorobenzene | 460-00-4 | 120 | % | 70-130 | 12.19.2020 22:39 | |

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# Certificate of Analytical Results 681586

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State 2-6 Flowline

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **FS5** | Matrix: | Soil | Date Received: | 12.17.2020 11:57 |
| Lab Sample Id: | 681586-018 | Date Collected: | 12.15.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Chloride by EPA 300 | | | Prep Method: | E300P |
| Tech: | CHE | | | | |
| Analyst: | CHE | Date Prep: | 12.17.2020 22:00 | % Moisture: | |
| Seq Number: | 3145316 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **19.0** | 4.96 | mg/kg | 12.18.2020 08:53 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | | |
| Analyst: | ARM | Date Prep: | 12.18.2020 10:00 | % Moisture: | |
| Seq Number: | 3145524 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.8 | 49.8 | mg/kg | 12.18.2020 19:01 | U | 1 |
| **Diesel Range Organics (DRO)** | C10C28DRO | **60.8** | 49.8 | mg/kg | 12.18.2020 19:01 | | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.8 | 49.8 | mg/kg | 12.18.2020 19:01 | U | 1 |
| **Total TPH** | PHC635 | **60.8** | 49.8 | mg/kg | 12.18.2020 19:01 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 94 | % | 70-130 | 12.18.2020 19:01 | |
| o-Terphenyl | 84-15-1 | 98 | % | 70-130 | 12.18.2020 19:01 | |

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# Certificate of Analytical Results 681586

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State 2-6 Flowline

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **FS5** | Matrix: | Soil | Date Received: | 12.17.2020 11:57 |
| Lab Sample Id: | 681586-018 | Date Collected: | 12.15.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | | |
| Analyst: | KTL | Date Prep: | 12.18.2020 17:00 | % Moisture: | |
| Seq Number: | 3145472 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00201 | 0.00201 | mg/kg | 12.19.2020 23:00 | U | 1 |
| Toluene | 108-88-3 | <0.00201 | 0.00201 | mg/kg | 12.19.2020 23:00 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00201 | 0.00201 | mg/kg | 12.19.2020 23:00 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00402 | 0.00402 | mg/kg | 12.19.2020 23:00 | U | 1 |
| o-Xylene | 95-47-6 | <0.00201 | 0.00201 | mg/kg | 12.19.2020 23:00 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00201 | 0.00201 | mg/kg | 12.19.2020 23:00 | U | 1 |
| Total BTEX | | <0.00201 | 0.00201 | mg/kg | 12.19.2020 23:00 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 110 | % | 70-130 | 12.19.2020 23:00 | |
| 1,4-Difluorobenzene | 540-36-3 | 93 | % | 70-130 | 12.19.2020 23:00 | |

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# Certificate of Analytical Results 681586

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State 2-6 Flowline

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **FS6** | Matrix: | Soil | Date Received: | 12.17.2020 11:57 |
| Lab Sample Id: | 681586-019 | Date Collected: | 12.15.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Chloride by EPA 300 | | | Prep Method: | E300P |
| Tech: | CHE | | | | |
| Analyst: | CHE | Date Prep: | 12.17.2020 22:00 | % Moisture: | |
| Seq Number: | 3145316 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **48.8** | 5.00 | mg/kg | 12.18.2020 09:08 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | | |
| Analyst: | ARM | Date Prep: | 12.18.2020 10:00 | % Moisture: | |
| Seq Number: | 3145524 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 12.18.2020 19:20 | U | 1 |
| **Diesel Range Organics (DRO)** | C10C28DRO | **444** | 50.0 | mg/kg | 12.18.2020 19:20 | | 1 |
| **Motor Oil Range Hydrocarbons (MRO)** | PHCG2835 | **72.0** | 50.0 | mg/kg | 12.18.2020 19:20 | | 1 |
| **Total TPH** | PHC635 | **516** | 50.0 | mg/kg | 12.18.2020 19:20 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 97 | % | 70-130 | 12.18.2020 19:20 | |
| o-Terphenyl | 84-15-1 | 113 | % | 70-130 | 12.18.2020 19:20 | |

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# Certificate of Analytical Results 681586

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State 2-6 Flowline

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **FS6** | Matrix: | Soil | Date Received: | 12.17.2020 11:57 |
| Lab Sample Id: | 681586-019 | Date Collected: | 12.15.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | | |
| Analyst: | KTL | Date Prep: | 12.18.2020 17:00 | % Moisture: | |
| Seq Number: | 3145472 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 12.19.2020 23:21 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 12.19.2020 23:21 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 12.19.2020 23:21 | U | 1 |
| **m,p-Xylenes** | 179601-23-1 | **0.00405** | 0.00400 | mg/kg | 12.19.2020 23:21 | | 1 |
| **o-Xylene** | 95-47-6 | **0.00402** | 0.00200 | mg/kg | 12.19.2020 23:21 | | 1 |
| **Total Xylenes** | 1330-20-7 | **0.00807** | 0.00200 | mg/kg | 12.19.2020 23:21 | | 1 |
| **Total BTEX** | | **0.00807** | 0.00200 | mg/kg | 12.19.2020 23:21 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 91 | % | 70-130 | 12.19.2020 23:21 | |
| 4-Bromofluorobenzene | 460-00-4 | 119 | % | 70-130 | 12.19.2020 23:21 | |

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# Certificate of Analytical Results 681586

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State 2-6 Flowline

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **FS7** | Matrix: | Soil | Date Received: | 12.17.2020 11:57 |
| Lab Sample Id: | 681586-020 | Date Collected: | 12.15.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Chloride by EPA 300 | | | Prep Method: | E300P |
| Tech: | CHE | | | | |
| Analyst: | CHE | Date Prep: | 12.17.2020 22:00 | % Moisture: | |
| Seq Number: | 3145316 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **44.2** | 5.04 | mg/kg | 12.18.2020 09:13 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | | |
| Analyst: | ARM | Date Prep: | 12.18.2020 10:00 | % Moisture: | |
| Seq Number: | 3145524 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 12.18.2020 19:39 | U | 1 |
| **Diesel Range Organics (DRO)** | C10C28DRO | **747** | 50.0 | mg/kg | 12.18.2020 19:39 | | 1 |
| **Motor Oil Range Hydrocarbons (MRO)** | PHCG2835 | **115** | 50.0 | mg/kg | 12.18.2020 19:39 | | 1 |
| **Total TPH** | PHC635 | **862** | 50.0 | mg/kg | 12.18.2020 19:39 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 107 | % | 70-130 | 12.18.2020 19:39 | |
| o-Terphenyl | 84-15-1 | 107 | % | 70-130 | 12.18.2020 19:39 | |

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# Certificate of Analytical Results 681586

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State 2-6 Flowline

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **FS7** | Matrix: | Soil | Date Received: | 12.17.2020 11:57 |
| Lab Sample Id: | 681586-020 | Date Collected: | 12.15.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | | |
| Analyst: | KTL | Date Prep: | 12.18.2020 17:00 | % Moisture: | |
| Seq Number: | 3145472 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00201 | 0.00201 | mg/kg | 12.19.2020 23:41 | U | 1 |
| Toluene | 108-88-3 | <0.00201 | 0.00201 | mg/kg | 12.19.2020 23:41 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00201 | 0.00201 | mg/kg | 12.19.2020 23:41 | U | 1 |
| **m,p-Xylenes** | 179601-23-1 | **0.00586** | 0.00402 | mg/kg | 12.19.2020 23:41 | | 1 |
| **o-Xylene** | 95-47-6 | **0.00680** | 0.00201 | mg/kg | 12.19.2020 23:41 | | 1 |
| **Total Xylenes** | 1330-20-7 | **0.0127** | 0.00201 | mg/kg | 12.19.2020 23:41 | | 1 |
| **Total BTEX** | | **0.0127** | 0.00201 | mg/kg | 12.19.2020 23:41 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 125 | % | 70-130 | 12.19.2020 23:41 | |
| 1,4-Difluorobenzene | 540-36-3 | 92 | % | 70-130 | 12.19.2020 23:41 | |

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# Certificate of Analytical Results 681586

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State 2-6 Flowline

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **FS8** | Matrix: | Soil | Date Received: | 12.17.2020 11:57 |
| Lab Sample Id: | 681586-021 | Date Collected: | 12.15.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Chloride by EPA 300 | | | Prep Method: | E300P |
| Tech: | CHE | | | | |
| Analyst: | CHE | Date Prep: | 12.17.2020 22:00 | % Moisture: | |
| Seq Number: | 3145316 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **41.8** | 4.98 | mg/kg | 12.18.2020 09:19 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | | |
| Analyst: | ARM | Date Prep: | 12.18.2020 17:00 | % Moisture: | |
| Seq Number: | 3145526 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 12.19.2020 07:14 | U | 1 |
| **Diesel Range Organics (DRO)** | C10C28DRO | **352** | 50.0 | mg/kg | 12.19.2020 07:14 | | 1 |
| **Motor Oil Range Hydrocarbons (MRO)** | PHCG2835 | **55.4** | 50.0 | mg/kg | 12.19.2020 07:14 | | 1 |
| **Total TPH** | PHC635 | **407** | 50.0 | mg/kg | 12.19.2020 07:14 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 95 | % | 70-130 | 12.19.2020 07:14 | |
| o-Terphenyl | 84-15-1 | 116 | % | 70-130 | 12.19.2020 07:14 | |

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# Certificate of Analytical Results 681586

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State 2-6 Flowline

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **FS8** | Matrix: | Soil | Date Received: | 12.17.2020 11:57 |
| Lab Sample Id: | 681586-021 | Date Collected: | 12.15.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | | |
| Analyst: | KTL | Date Prep: | 12.18.2020 17:00 | % Moisture: | |
| Seq Number: | 3145472 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 12.20.2020 00:02 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 12.20.2020 00:02 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 12.20.2020 00:02 | U | 1 |
| **m,p-Xylenes** | 179601-23-1 | **0.00559** | 0.00398 | mg/kg | 12.20.2020 00:02 | | 1 |
| **o-Xylene** | 95-47-6 | **0.00534** | 0.00199 | mg/kg | 12.20.2020 00:02 | | 1 |
| **Total Xylenes** | 1330-20-7 | **0.0109** | 0.00199 | mg/kg | 12.20.2020 00:02 | | 1 |
| **Total BTEX** | | **0.0109** | 0.00199 | mg/kg | 12.20.2020 00:02 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 119 | % | 70-130 | 12.20.2020 00:02 | |
| 1,4-Difluorobenzene | 540-36-3 | 86 | % | 70-130 | 12.20.2020 00:02 | |

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# Certificate of Analytical Results 681586

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State 2-6 Flowline

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **FS9** | Matrix: | Soil | Date Received: | 12.17.2020 11:57 |
| Lab Sample Id: | 681586-022 | Date Collected: | 12.15.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Chloride by EPA 300 | | | Prep Method: | E300P |
| Tech: | CHE | | | | |
| Analyst: | CHE | Date Prep: | 12.17.2020 22:00 | % Moisture: | |
| Seq Number: | 3145316 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **39.0** | 4.95 | mg/kg | 12.18.2020 09:24 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | | |
| Analyst: | ARM | Date Prep: | 12.18.2020 17:00 | % Moisture: | |
| Seq Number: | 3145526 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 12.19.2020 07:32 | U | 1 |
| **Diesel Range Organics (DRO)** | C10C28DRO | **370** | 50.0 | mg/kg | 12.19.2020 07:32 | | 1 |
| **Motor Oil Range Hydrocarbons (MRO)** | PHCG2835 | **65.6** | 50.0 | mg/kg | 12.19.2020 07:32 | | 1 |
| **Total TPH** | PHC635 | **436** | 50.0 | mg/kg | 12.19.2020 07:32 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 99 | % | 70-130 | 12.19.2020 07:32 | |
| o-Terphenyl | 84-15-1 | 114 | % | 70-130 | 12.19.2020 07:32 | |

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# Certificate of Analytical Results 681586

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State 2-6 Flowline

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **FS9** | Matrix: | Soil | Date Received: | 12.17.2020 11:57 |
| Lab Sample Id: | 681586-022 | Date Collected: | 12.15.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | | |
| Analyst: | KTL | Date Prep: | 12.18.2020 17:00 | % Moisture: | |
| Seq Number: | 3145472 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 12.20.2020 00:22 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 12.20.2020 00:22 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 12.20.2020 00:22 | U | 1 |
| **m,p-Xylenes** | 179601-23-1 | **0.00484** | 0.00399 | mg/kg | 12.20.2020 00:22 | | 1 |
| **o-Xylene** | 95-47-6 | **0.00255** | 0.00200 | mg/kg | 12.20.2020 00:22 | | 1 |
| **Total Xylenes** | 1330-20-7 | **0.00739** | 0.00200 | mg/kg | 12.20.2020 00:22 | | 1 |
| **Total BTEX** | | **0.00739** | 0.00200 | mg/kg | 12.20.2020 00:22 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 117 | % | 70-130 | 12.20.2020 00:22 | |
| 1,4-Difluorobenzene | 540-36-3 | 93 | % | 70-130 | 12.20.2020 00:22 | |

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# Certificate of Analytical Results 681586

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State 2-6 Flowline

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **FS10** | Matrix: | Soil | Date Received: | 12.17.2020 11:57 |
| Lab Sample Id: | 681586-023 | Date Collected: | 12.15.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Chloride by EPA 300 | | | Prep Method: | E300P |
| Tech: | CHE | | | | |
| Analyst: | CHE | Date Prep: | 12.17.2020 22:00 | % Moisture: | |
| Seq Number: | 3145316 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **33.9** | 5.00 | mg/kg | 12.18.2020 09:29 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | | |
| Analyst: | ARM | Date Prep: | 12.18.2020 17:00 | % Moisture: | |
| Seq Number: | 3145526 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 12.19.2020 07:52 | U | 1 |
| **Diesel Range Organics (DRO)** | C10C28DRO | **536** | 49.9 | mg/kg | 12.19.2020 07:52 | | 1 |
| **Motor Oil Range Hydrocarbons (MRO)** | PHCG2835 | **88.3** | 49.9 | mg/kg | 12.19.2020 07:52 | | 1 |
| **Total TPH** | PHC635 | **624** | 49.9 | mg/kg | 12.19.2020 07:52 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 94 | % | 70-130 | 12.19.2020 07:52 | |
| o-Terphenyl | 84-15-1 | 110 | % | 70-130 | 12.19.2020 07:52 | |

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# Certificate of Analytical Results 681586

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State 2-6 Flowline

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **FS10** | Matrix: | Soil | Date Received: | 12.17.2020 11:57 |
| Lab Sample Id: | 681586-023 | Date Collected: | 12.15.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | | |
| Analyst: | KTL | Date Prep: | 12.18.2020 17:00 | % Moisture: | |
| Seq Number: | 3145472 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 12.20.2020 00:43 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 12.20.2020 00:43 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 12.20.2020 00:43 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00399 | 0.00399 | mg/kg | 12.20.2020 00:43 | U | 1 |
| **o-Xylene** | 95-47-6 | **0.00249** | 0.00200 | mg/kg | 12.20.2020 00:43 | | 1 |
| **Total Xylenes** | 1330-20-7 | **0.00249** | 0.00200 | mg/kg | 12.20.2020 00:43 | | 1 |
| **Total BTEX** | | **0.00249** | 0.00200 | mg/kg | 12.20.2020 00:43 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 89 | % | 70-130 | 12.20.2020 00:43 | |
| 4-Bromofluorobenzene | 460-00-4 | 119 | % | 70-130 | 12.20.2020 00:43 | |

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# Certificate of Analytical Results 681586

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State 2-6 Flowline

Sample Id: **FS11** Matrix: Soil Date Received:12.17.2020 11:57

Lab Sample Id: 681586-024 Date Collected: 12.15.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 12.17.2020 22:00 % Moisture:

Seq Number: 3145316 Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **46.3** | 5.05 | mg/kg | 12.18.2020 09:34 | | 1 |

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 12.18.2020 17:00 % Moisture:

Seq Number: 3145526 Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 12.19.2020 08:11 | U | 1 |
| **Diesel Range Organics (DRO)** | C10C28DRO | **285** | 50.0 | mg/kg | 12.19.2020 08:11 | | 1 |
| **Motor Oil Range Hydrocarbons (MRO)** | PHCG2835 | **54.8** | 50.0 | mg/kg | 12.19.2020 08:11 | | 1 |
| **Total TPH** | PHC635 | **340** | 50.0 | mg/kg | 12.19.2020 08:11 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 97 | % | 70-130 | 12.19.2020 08:11 | |
| o-Terphenyl | 84-15-1 | 112 | % | 70-130 | 12.19.2020 08:11 | |

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# Certificate of Analytical Results 681586

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State 2-6 Flowline

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **FS11** | Matrix: | Soil | Date Received: | 12.17.2020 11:57 |
| Lab Sample Id: | 681586-024 | Date Collected: | 12.15.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | | |
| Analyst: | KTL | Date Prep: | 12.18.2020 17:00 | % Moisture: | |
| Seq Number: | 3145472 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00201 | 0.00201 | mg/kg | 12.20.2020 01:03 | U | 1 |
| Toluene | 108-88-3 | <0.00201 | 0.00201 | mg/kg | 12.20.2020 01:03 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00201 | 0.00201 | mg/kg | 12.20.2020 01:03 | U | 1 |
| **m,p-Xylenes** | 179601-23-1 | **0.00488** | 0.00402 | mg/kg | 12.20.2020 01:03 | | 1 |
| **o-Xylene** | 95-47-6 | **0.00419** | 0.00201 | mg/kg | 12.20.2020 01:03 | | 1 |
| **Total Xylenes** | 1330-20-7 | **0.00907** | 0.00201 | mg/kg | 12.20.2020 01:03 | | 1 |
| **Total BTEX** | | **0.00907** | 0.00201 | mg/kg | 12.20.2020 01:03 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 91 | % | 70-130 | 12.20.2020 01:03 | |
| 4-Bromofluorobenzene | 460-00-4 | 118 | % | 70-130 | 12.20.2020 01:03 | |

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# Certificate of Analytical Results 681586

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State 2-6 Flowline

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **FS12** | Matrix: | Soil | Date Received: | 12.17.2020 11:57 |
| Lab Sample Id: | 681586-025 | Date Collected: | 12.15.2020 00:00 | | |
| Analytical Method: | Chloride by EPA 300 | | | Prep Method: | E300P |
| Tech: | CHE | | | | |
| Analyst: | CHE | Date Prep: | 12.17.2020 22:00 | % Moisture: | |
| Seq Number: | 3145316 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **28.5** | 5.02 | mg/kg | 12.18.2020 09:50 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | | |
| Analyst: | ARM | Date Prep: | 12.18.2020 17:00 | % Moisture: | |
| Seq Number: | 3145526 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 12.19.2020 08:30 | U | 1 |
| **Diesel Range Organics (DRO)** | C10C28DRO | **140** | 49.9 | mg/kg | 12.19.2020 08:30 | | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 12.19.2020 08:30 | U | 1 |
| **Total TPH** | PHC635 | **140** | 49.9 | mg/kg | 12.19.2020 08:30 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 91 | % | 70-130 | 12.19.2020 08:30 | |
| o-Terphenyl | 84-15-1 | 98 | % | 70-130 | 12.19.2020 08:30 | |

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# Certificate of Analytical Results 681586

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State 2-6 Flowline

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **FS12** | Matrix: | Soil | Date Received: | 12.17.2020 11:57 |
| Lab Sample Id: | 681586-025 | Date Collected: | 12.15.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | | |
| Analyst: | KTL | Date Prep: | 12.18.2020 17:30 | % Moisture: | |
| Seq Number: | 3145474 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00202 | 0.00202 | mg/kg | 12.20.2020 04:12 | U | 1 |
| Toluene | 108-88-3 | <0.00202 | 0.00202 | mg/kg | 12.20.2020 04:12 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00202 | 0.00202 | mg/kg | 12.20.2020 04:12 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00404 | 0.00404 | mg/kg | 12.20.2020 04:12 | U | 1 |
| o-Xylene | 95-47-6 | <0.00202 | 0.00202 | mg/kg | 12.20.2020 04:12 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00202 | 0.00202 | mg/kg | 12.20.2020 04:12 | U | 1 |
| Total BTEX | | <0.00202 | 0.00202 | mg/kg | 12.20.2020 04:12 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 117 | % | 70-130 | 12.20.2020 04:12 | |
| 1,4-Difluorobenzene | 540-36-3 | 99 | % | 70-130 | 12.20.2020 04:12 | |

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# Certificate of Analytical Results 681586

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State 2-6 Flowline

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **FS13** | Matrix: | Soil | Date Received: | 12.17.2020 11:57 |
| Lab Sample Id: | 681586-026 | Date Collected: | 12.15.2020 00:00 | | |
| Analytical Method: | Chloride by EPA 300 | | | Prep Method: | E300P |
| Tech: | CHE | | | | |
| Analyst: | CHE | Date Prep: | 12.17.2020 22:00 | % Moisture: | |
| Seq Number: | 3145316 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **32.2** | 4.96 | mg/kg | 12.18.2020 09:55 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | | |
| Analyst: | ARM | Date Prep: | 12.18.2020 17:00 | % Moisture: | |
| Seq Number: | 3145526 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 12.19.2020 08:50 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 12.19.2020 08:50 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 12.19.2020 08:50 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 12.19.2020 08:50 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 95 | % | 70-130 | 12.19.2020 08:50 | |
| o-Terphenyl | 84-15-1 | 96 | % | 70-130 | 12.19.2020 08:50 | |

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# Certificate of Analytical Results 681586

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State 2-6 Flowline

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **FS13** | Matrix: | Soil | Date Received: | 12.17.2020 11:57 |
| Lab Sample Id: | 681586-026 | Date Collected: | 12.15.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | | |
| Analyst: | KTL | Date Prep: | 12.18.2020 17:30 | % Moisture: | |
| Seq Number: | 3145474 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 12.20.2020 04:33 | U | 1 |
| **Toluene** | 108-88-3 | **0.00205** | 0.00199 | mg/kg | 12.20.2020 04:33 | | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 12.20.2020 04:33 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 12.20.2020 04:33 | U | 1 |
| **o-Xylene** | 95-47-6 | **0.00234** | 0.00199 | mg/kg | 12.20.2020 04:33 | | 1 |
| **Total Xylenes** | 1330-20-7 | **0.00234** | 0.00199 | mg/kg | 12.20.2020 04:33 | | 1 |
| **Total BTEX** | | **0.00439** | 0.00199 | mg/kg | 12.20.2020 04:33 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 98 | % | 70-130 | 12.20.2020 04:33 | |
| 4-Bromofluorobenzene | 460-00-4 | 122 | % | 70-130 | 12.20.2020 04:33 | |

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# Certificate of Analytical Results 681586

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State 2-6 Flowline

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **FS14** | Matrix: | Soil | Date Received: | 12.17.2020 11:57 |
| Lab Sample Id: | 681586-027 | Date Collected: | 12.15.2020 00:00 | | |
| Analytical Method: | Chloride by EPA 300 | | | Prep Method: | E300P |
| Tech: | CHE | | | | |
| Analyst: | CHE | Date Prep: | 12.17.2020 22:00 | % Moisture: | |
| Seq Number: | 3145316 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **12.5** | 4.99 | mg/kg | 12.18.2020 10:11 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | | |
| Analyst: | ARM | Date Prep: | 12.18.2020 17:00 | % Moisture: | |
| Seq Number: | 3145526 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 12.19.2020 09:09 | U | 1 |
| **Diesel Range Organics (DRO)** | C10C28DRO | **225** | 49.9 | mg/kg | 12.19.2020 09:09 | | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 12.19.2020 09:09 | U | 1 |
| **Total TPH** | PHC635 | **225** | 49.9 | mg/kg | 12.19.2020 09:09 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 98 | % | 70-130 | 12.19.2020 09:09 | |
| o-Terphenyl | 84-15-1 | 106 | % | 70-130 | 12.19.2020 09:09 | |

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# Certificate of Analytical Results 681586

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State 2-6 Flowline

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **FS14** | Matrix: | Soil | Date Received: | 12.17.2020 11:57 |
| Lab Sample Id: | 681586-027 | Date Collected: | 12.15.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | | |
| Analyst: | KTL | Date Prep: | 12.18.2020 17:30 | % Moisture: | |
| Seq Number: | 3145474 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00202 | 0.00202 | mg/kg | 12.20.2020 06:15 | U | 1 |
| Toluene | 108-88-3 | <0.00202 | 0.00202 | mg/kg | 12.20.2020 06:15 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00202 | 0.00202 | mg/kg | 12.20.2020 06:15 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00403 | 0.00403 | mg/kg | 12.20.2020 06:15 | U | 1 |
| o-Xylene | 95-47-6 | <0.00202 | 0.00202 | mg/kg | 12.20.2020 06:15 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00202 | 0.00202 | mg/kg | 12.20.2020 06:15 | U | 1 |
| Total BTEX | | <0.00202 | 0.00202 | mg/kg | 12.20.2020 06:15 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 110 | % | 70-130 | 12.20.2020 06:15 | |
| 1,4-Difluorobenzene | 540-36-3 | 101 | % | 70-130 | 12.20.2020 06:15 | |

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# Certificate of Analytical Results 681586

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State 2-6 Flowline

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **FS15** | Matrix: | Soil | Date Received: | 12.17.2020 11:57 |
| Lab Sample Id: | 681586-028 | Date Collected: | 12.15.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Chloride by EPA 300 | | | Prep Method: | E300P |
| Tech: | CHE | | | | |
| Analyst: | CHE | Date Prep: | 12.17.2020 22:00 | % Moisture: | |
| Seq Number: | 3145316 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **22.3** | 4.97 | mg/kg | 12.18.2020 10:16 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | | |
| Analyst: | ARM | Date Prep: | 12.18.2020 17:00 | % Moisture: | |
| Seq Number: | 3145526 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 12.19.2020 09:28 | U | 1 |
| **Diesel Range Organics (DRO)** | C10C28DRO | **374** | 50.0 | mg/kg | 12.19.2020 09:28 | | 1 |
| **Motor Oil Range Hydrocarbons (MRO)** | PHCG2835 | **57.0** | 50.0 | mg/kg | 12.19.2020 09:28 | | 1 |
| **Total TPH** | PHC635 | **431** | 50.0 | mg/kg | 12.19.2020 09:28 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 101 | % | 70-130 | 12.19.2020 09:28 | |
| o-Terphenyl | 84-15-1 | 114 | % | 70-130 | 12.19.2020 09:28 | |

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# Certificate of Analytical Results 681586

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State 2-6 Flowline

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **FS15** | Matrix: | Soil | Date Received: | 12.17.2020 11:57 |
| Lab Sample Id: | 681586-028 | Date Collected: | 12.15.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | | |
| Analyst: | KTL | Date Prep: | 12.18.2020 17:30 | % Moisture: | |
| Seq Number: | 3145474 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 12.20.2020 06:36 | U | 1 |
| **Toluene** | 108-88-3 | **0.00396** | 0.00200 | mg/kg | 12.20.2020 06:36 | | 1 |
| **Ethylbenzene** | 100-41-4 | **0.00299** | 0.00200 | mg/kg | 12.20.2020 06:36 | | 1 |
| **m,p-Xylenes** | 179601-23-1 | **0.00658** | 0.00399 | mg/kg | 12.20.2020 06:36 | | 1 |
| **o-Xylene** | 95-47-6 | **0.00635** | 0.00200 | mg/kg | 12.20.2020 06:36 | | 1 |
| **Total Xylenes** | 1330-20-7 | **0.0129** | 0.00200 | mg/kg | 12.20.2020 06:36 | | 1 |
| **Total BTEX** | | **0.0199** | 0.00200 | mg/kg | 12.20.2020 06:36 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 120 | % | 70-130 | 12.20.2020 06:36 | |
| 1,4-Difluorobenzene | 540-36-3 | 99 | % | 70-130 | 12.20.2020 06:36 | |

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# Certificate of Analytical Results 681586

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State 2-6 Flowline

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **FS16** | Matrix: | Soil | Date Received: | 12.17.2020 11:57 |
| Lab Sample Id: | 681586-029 | Date Collected: | 12.15.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Chloride by EPA 300 | | | Prep Method: | E300P |
| Tech: | CHE | | | | |
| Analyst: | CHE | Date Prep: | 12.17.2020 22:00 | % Moisture: | |
| Seq Number: | 3145316 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **27.7** | 5.02 | mg/kg | 12.18.2020 10:21 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | | |
| Analyst: | ARM | Date Prep: | 12.18.2020 17:00 | % Moisture: | |
| Seq Number: | 3145526 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.8 | 49.8 | mg/kg | 12.19.2020 09:46 | U | 1 |
| **Diesel Range Organics (DRO)** | C10C28DRO | **319** | 49.8 | mg/kg | 12.19.2020 09:46 | | 1 |
| **Motor Oil Range Hydrocarbons (MRO)** | PHCG2835 | **52.7** | 49.8 | mg/kg | 12.19.2020 09:46 | | 1 |
| **Total TPH** | PHC635 | **372** | 49.8 | mg/kg | 12.19.2020 09:46 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 102 | % | 70-130 | 12.19.2020 09:46 | |
| o-Terphenyl | 84-15-1 | 112 | % | 70-130 | 12.19.2020 09:46 | |

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# Certificate of Analytical Results 681586

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State 2-6 Flowline

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **FS16** | Matrix: | Soil | Date Received: | 12.17.2020 11:57 |
| Lab Sample Id: | 681586-029 | Date Collected: | 12.15.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | | |
| Analyst: | KTL | Date Prep: | 12.18.2020 17:30 | % Moisture: | |
| Seq Number: | 3145474 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00202 | 0.00202 | mg/kg | 12.20.2020 06:56 | U | 1 |
| Toluene | 108-88-3 | <0.00202 | 0.00202 | mg/kg | 12.20.2020 06:56 | U | 1 |
| **Ethylbenzene** | 100-41-4 | **0.00389** | 0.00202 | mg/kg | 12.20.2020 06:56 | | 1 |
| **m,p-Xylenes** | 179601-23-1 | **0.00916** | 0.00404 | mg/kg | 12.20.2020 06:56 | | 1 |
| **o-Xylene** | 95-47-6 | **0.00802** | 0.00202 | mg/kg | 12.20.2020 06:56 | | 1 |
| **Total Xylenes** | 1330-20-7 | **0.0172** | 0.00202 | mg/kg | 12.20.2020 06:56 | | 1 |
| **Total BTEX** | | **0.0211** | 0.00202 | mg/kg | 12.20.2020 06:56 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 98 | % | 70-130 | 12.20.2020 06:56 | |
| 4-Bromofluorobenzene | 460-00-4 | 114 | % | 70-130 | 12.20.2020 06:56 | |

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# Certificate of Analytical Results 681586

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State 2-6 Flowline

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **FS17** | Matrix: | Soil | Date Received: | 12.17.2020 11:57 |
| Lab Sample Id: | 681586-030 | Date Collected: | 12.15.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Chloride by EPA 300 | | | Prep Method: | E300P |
| Tech: | CHE | | | | |
| Analyst: | CHE | Date Prep: | 12.17.2020 22:00 | % Moisture: | |
| Seq Number: | 3145316 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **12.0** | 4.95 | mg/kg | 12.18.2020 10:27 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | | |
| Analyst: | ARM | Date Prep: | 12.18.2020 17:00 | % Moisture: | |
| Seq Number: | 3145526 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 12.19.2020 10:05 | U | 1 |
| **Diesel Range Organics (DRO)** | C10C28DRO | **218** | 49.9 | mg/kg | 12.19.2020 10:05 | | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 12.19.2020 10:05 | U | 1 |
| **Total TPH** | PHC635 | **218** | 49.9 | mg/kg | 12.19.2020 10:05 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 103 | % | 70-130 | 12.19.2020 10:05 | |
| o-Terphenyl | 84-15-1 | 109 | % | 70-130 | 12.19.2020 10:05 | |

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# Certificate of Analytical Results 681586

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State 2-6 Flowline

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **FS17** | Matrix: | Soil | Date Received: | 12.17.2020 11:57 |
| Lab Sample Id: | 681586-030 | Date Collected: | 12.15.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | | |
| Analyst: | KTL | Date Prep: | 12.18.2020 17:30 | % Moisture: | |
| Seq Number: | 3145474 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 12.20.2020 01:50 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 12.20.2020 01:50 | U | 1 |
| **Ethylbenzene** | 100-41-4 | **0.00210** | 0.00200 | mg/kg | 12.20.2020 01:50 | | 1 |
| **m,p-Xylenes** | 179601-23-1 | **0.00419** | 0.00399 | mg/kg | 12.20.2020 01:50 | X | 1 |
| **o-Xylene** | 95-47-6 | **0.00344** | 0.00200 | mg/kg | 12.20.2020 01:50 | X | 1 |
| **Total Xylenes** | 1330-20-7 | **0.00763** | 0.00200 | mg/kg | 12.20.2020 01:50 | | 1 |
| **Total BTEX** | | **0.00973** | 0.00200 | mg/kg | 12.20.2020 01:50 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 97 | % | 70-130 | 12.20.2020 01:50 | |
| 4-Bromofluorobenzene | 460-00-4 | 112 | % | 70-130 | 12.20.2020 01:50 | |

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# Certificate of Analytical Results 681586

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State 2-6 Flowline

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **FS18** | Matrix: | Soil | Date Received: | 12.17.2020 11:57 |
| Lab Sample Id: | 681586-031 | Date Collected: | 12.15.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Chloride by EPA 300 | | | Prep Method: | E300P |
| Tech: | CHE | | | | |
| Analyst: | CHE | Date Prep: | 12.17.2020 22:00 | % Moisture: | |
| Seq Number: | 3145316 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **12.3** | 4.95 | mg/kg | 12.18.2020 10:32 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | | |
| Analyst: | ARM | Date Prep: | 12.18.2020 17:00 | % Moisture: | |
| Seq Number: | 3145526 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 12.19.2020 10:25 | U | 1 |
| **Diesel Range Organics (DRO)** | C10C28DRO | **99.4** | 50.0 | mg/kg | 12.19.2020 10:25 | | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 12.19.2020 10:25 | U | 1 |
| **Total TPH** | PHC635 | **99.4** | 50.0 | mg/kg | 12.19.2020 10:25 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 91 | % | 70-130 | 12.19.2020 10:25 | |
| o-Terphenyl | 84-15-1 | 95 | % | 70-130 | 12.19.2020 10:25 | |

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# Certificate of Analytical Results 681586

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State 2-6 Flowline

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **FS18** | Matrix: | Soil | Date Received: | 12.17.2020 11:57 |
| Lab Sample Id: | 681586-031 | Date Collected: | 12.15.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | | |
| Analyst: | KTL | Date Prep: | 12.18.2020 17:30 | % Moisture: | |
| Seq Number: | 3145474 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00201 | 0.00201 | mg/kg | 12.20.2020 07:16 | U | 1 |
| **Toluene** | 108-88-3 | **0.00206** | 0.00201 | mg/kg | 12.20.2020 07:16 | | 1 |
| Ethylbenzene | 100-41-4 | <0.00201 | 0.00201 | mg/kg | 12.20.2020 07:16 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00402 | 0.00402 | mg/kg | 12.20.2020 07:16 | U | 1 |
| o-Xylene | 95-47-6 | <0.00201 | 0.00201 | mg/kg | 12.20.2020 07:16 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00201 | 0.00201 | mg/kg | 12.20.2020 07:16 | U | 1 |
| **Total BTEX** | | **0.00206** | 0.00201 | mg/kg | 12.20.2020 07:16 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 99 | % | 70-130 | 12.20.2020 07:16 | |
| 4-Bromofluorobenzene | 460-00-4 | 109 | % | 70-130 | 12.20.2020 07:16 | |

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# Certificate of Analytical Results 681586

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State 2-6 Flowline

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **FS19** | Matrix: | Soil | Date Received: | 12.17.2020 11:57 |
| Lab Sample Id: | 681586-032 | Date Collected: | 12.15.2020 00:00 | | |
| Analytical Method: | Chloride by EPA 300 | | | Prep Method: | E300P |
| Tech: | CHE | | | | |
| Analyst: | CHE | Date Prep: | 12.17.2020 22:00 | % Moisture: | |
| Seq Number: | 3145316 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **27.9** | 4.95 | mg/kg | 12.18.2020 10:37 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | | |
| Analyst: | ARM | Date Prep: | 12.18.2020 17:00 | % Moisture: | |
| Seq Number: | 3145526 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.8 | 49.8 | mg/kg | 12.19.2020 10:43 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.8 | 49.8 | mg/kg | 12.19.2020 10:43 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.8 | 49.8 | mg/kg | 12.19.2020 10:43 | U | 1 |
| Total TPH | PHC635 | <49.8 | 49.8 | mg/kg | 12.19.2020 10:43 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 95 | % | 70-130 | 12.19.2020 10:43 | |
| o-Terphenyl | 84-15-1 | 96 | % | 70-130 | 12.19.2020 10:43 | |

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# Certificate of Analytical Results 681586

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State 2-6 Flowline

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **FS19** | Matrix: | Soil | Date Received: | 12.17.2020 11:57 |
| Lab Sample Id: | 681586-032 | Date Collected: | 12.15.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | | |
| Analyst: | KTL | Date Prep: | 12.18.2020 17:30 | % Moisture: | |
| Seq Number: | 3145474 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00202 | 0.00202 | mg/kg | 12.20.2020 07:37 | U | 1 |
| Toluene | 108-88-3 | <0.00202 | 0.00202 | mg/kg | 12.20.2020 07:37 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00202 | 0.00202 | mg/kg | 12.20.2020 07:37 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00403 | 0.00403 | mg/kg | 12.20.2020 07:37 | U | 1 |
| o-Xylene | 95-47-6 | <0.00202 | 0.00202 | mg/kg | 12.20.2020 07:37 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00202 | 0.00202 | mg/kg | 12.20.2020 07:37 | U | 1 |
| Total BTEX | | <0.00202 | 0.00202 | mg/kg | 12.20.2020 07:37 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 99 | % | 70-130 | 12.20.2020 07:37 | |
| 4-Bromofluorobenzene | 460-00-4 | 106 | % | 70-130 | 12.20.2020 07:37 | |

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# Certificate of Analytical Results 681586

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State 2-6 Flowline

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **FS20** | Matrix: | Soil | Date Received: | 12.17.2020 11:57 |
| Lab Sample Id: | 681586-033 | Date Collected: | 12.15.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Chloride by EPA 300 | | | Prep Method: | E300P |
| Tech: | CHE | | | | |
| Analyst: | CHE | Date Prep: | 12.17.2020 22:00 | % Moisture: | |
| Seq Number: | 3145316 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **45.7** | 5.04 | mg/kg | 12.18.2020 10:42 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | | |
| Analyst: | ARM | Date Prep: | 12.18.2020 17:00 | % Moisture: | |
| Seq Number: | 3145526 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 12.19.2020 11:03 | U | 1 |
| **Diesel Range Organics (DRO)** | C10C28DRO | **223** | 50.0 | mg/kg | 12.19.2020 11:03 | | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 12.19.2020 11:03 | U | 1 |
| **Total TPH** | PHC635 | **223** | 50.0 | mg/kg | 12.19.2020 11:03 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 93 | % | 70-130 | 12.19.2020 11:03 | |
| o-Terphenyl | 84-15-1 | 100 | % | 70-130 | 12.19.2020 11:03 | |

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# Certificate of Analytical Results 681586

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State 2-6 Flowline

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **FS20** | Matrix: | Soil | Date Received: | 12.17.2020 11:57 |
| Lab Sample Id: | 681586-033 | Date Collected: | 12.15.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | | |
| Analyst: | KTL | Date Prep: | 12.18.2020 17:30 | % Moisture: | |
| Seq Number: | 3145474 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00202 | 0.00202 | mg/kg | 12.20.2020 07:57 | U | 1 |
| **Toluene** | 108-88-3 | **0.00291** | 0.00202 | mg/kg | 12.20.2020 07:57 | | 1 |
| **Ethylbenzene** | 100-41-4 | **0.00591** | 0.00202 | mg/kg | 12.20.2020 07:57 | | 1 |
| **m,p-Xylenes** | 179601-23-1 | **0.0121** | 0.00403 | mg/kg | 12.20.2020 07:57 | | 1 |
| **o-Xylene** | 95-47-6 | **0.0105** | 0.00202 | mg/kg | 12.20.2020 07:57 | | 1 |
| **Total Xylenes** | 1330-20-7 | **0.0226** | 0.00202 | mg/kg | 12.20.2020 07:57 | | 1 |
| **Total BTEX** | | **0.0314** | 0.00202 | mg/kg | 12.20.2020 07:57 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 97 | % | 70-130 | 12.20.2020 07:57 | |
| 4-Bromofluorobenzene | 460-00-4 | 107 | % | 70-130 | 12.20.2020 07:57 | |

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# Flagging Criteria

**X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

**B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

**D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

**E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

**F** RPD exceeded lab control limits.

**J** The target analyte was positively identified below the quantitation limit and above the detection limit.

**U** Analyte was not detected.

**L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

**H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

**K** Sample analyzed outside of recommended hold time.

**JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

**BRL** Below Reporting Limit. **ND** Not Detected.

**RL** Reporting Limit

**MDL** Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

**PQL** Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

**DL** Method Detection Limit

**NC** Non-Calculable

**SMP** Client Sample **BLK** Method Blank

**BKS/LCS** Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

**MD/SD** Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

# QC Summary 681586



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## Etech Environmental & Safety Solution, Inc

NM DW State 2-6 Flowline

**Analytical Method:** Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3145303 — Matrix: Solid — Date Prep: 12.17.2020
MB Sample Id: 7717388-1-BLK — LCS Sample Id: 7717388-1-BKS — LCSD Sample Id: 7717388-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | <5.00 | 250 | 260 | 104 | 260 | 104 | 90-110 | 0 | 20 | mg/kg | 12.18.2020 01:19 | |

**Analytical Method:** Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3145316 — Matrix: Solid — Date Prep: 12.17.2020
MB Sample Id: 7717389-1-BLK — LCS Sample Id: 7717389-1-BKS — LCSD Sample Id: 7717389-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | <5.00 | 250 | 267 | 107 | 266 | 106 | 90-110 | 0 | 20 | mg/kg | 12.18.2020 08:11 | |

**Analytical Method:** Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3145303 — Matrix: Soil — Date Prep: 12.17.2020
Parent Sample Id: 681508-015 — MS Sample Id: 681508-015 S — MSD Sample Id: 681508-015 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 8.97 | 252 | 276 | 106 | 277 | 106 | 90-110 | 0 | 20 | mg/kg | 12.18.2020 01:35 | |

**Analytical Method:** Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3145303 — Matrix: Soil — Date Prep: 12.17.2020
Parent Sample Id: 681586-004 — MS Sample Id: 681586-004 S — MSD Sample Id: 681586-004 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 6.89 | 248 | 269 | 106 | 270 | 106 | 90-110 | 0 | 20 | mg/kg | 12.18.2020 02:48 | |

**Analytical Method:** Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3145316 — Matrix: Soil — Date Prep: 12.17.2020
Parent Sample Id: 681586-014 — MS Sample Id: 681586-014 S — MSD Sample Id: 681586-014 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 25.3 | 248 | 294 | 108 | 296 | 109 | 90-110 | 1 | 20 | mg/kg | 12.18.2020 08:26 | |

**Analytical Method:** Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3145316 — Matrix: Soil — Date Prep: 12.17.2020
Parent Sample Id: 681586-024 — MS Sample Id: 681586-024 S — MSD Sample Id: 681586-024 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 46.3 | 253 | 320 | 108 | 320 | 108 | 90-110 | 0 | 20 | mg/kg | 12.18.2020 09:40 | |

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

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# QC Summary 681586

## Etech Environmental & Safety Solution, Inc

NM DW State 2-6 Flowline

**Analytical Method:** TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3145524 — Matrix: Solid — Date Prep: 12.18.2020
MB Sample Id: 7717564-1-BLK — LCS Sample Id: 7717564-1-BKS — LCSD Sample Id: 7717564-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | <50.0 | 1000 | 918 | 92 | 958 | 96 | 70-130 | 4 | 20 | mg/kg | 12.18.2020 12:06 | |
| Diesel Range Organics (DRO) | <50.0 | 1000 | 1040 | 104 | 1040 | 104 | 70-130 | 0 | 20 | mg/kg | 12.18.2020 12:06 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|
| 1-Chlorooctane | 98 | | 123 | | 121 | | 70-130 | % | 12.18.2020 12:06 |
| o-Terphenyl | 108 | | 110 | | 117 | | 70-130 | % | 12.18.2020 12:06 |

**Analytical Method:** TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3145526 — Matrix: Solid — Date Prep: 12.18.2020
MB Sample Id: 7717566-1-BLK — LCS Sample Id: 7717566-1-BKS — LCSD Sample Id: 7717566-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | <50.0 | 1000 | 884 | 88 | 974 | 97 | 70-130 | 10 | 20 | mg/kg | 12.19.2020 05:20 | |
| Diesel Range Organics (DRO) | <50.0 | 1000 | 922 | 92 | 980 | 98 | 70-130 | 6 | 20 | mg/kg | 12.19.2020 05:20 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|
| 1-Chlorooctane | 99 | | 123 | | 127 | | 70-130 | % | 12.19.2020 05:20 |
| o-Terphenyl | 109 | | 107 | | 117 | | 70-130 | % | 12.19.2020 05:20 |

**Analytical Method:** TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3145524 — Matrix: Solid — Date Prep: 12.18.2020
MB Sample Id: 7717564-1-BLK

| Parameter | MB Result | Units | Analysis Date | Flag |
|---|---|---|---|---|
| Motor Oil Range Hydrocarbons (MRO) | <50.0 | mg/kg | 12.18.2020 11:47 | |

**Analytical Method:** TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3145526 — Matrix: Solid — Date Prep: 12.18.2020
MB Sample Id: 7717566-1-BLK

| Parameter | MB Result | Units | Analysis Date | Flag |
|---|---|---|---|---|
| Motor Oil Range Hydrocarbons (MRO) | <50.0 | mg/kg | 12.19.2020 05:01 | |

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

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# QC Summary 681586

## Etech Environmental & Safety Solution, Inc

NM DW State 2-6 Flowline

**Analytical Method:** **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3145524 Matrix: Soil Date Prep: 12.18.2020
Parent Sample Id: 681586-001 MS Sample Id: 681586-001 S MSD Sample Id: 681586-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | <49.9 | 998 | 832 | 83 | 888 | 89 | 70-130 | 7 | 20 | mg/kg | 12.18.2020 13:02 | |
| Diesel Range Organics (DRO) | 56.0 | 998 | 992 | 94 | 979 | 93 | 70-130 | 1 | 20 | mg/kg | 12.18.2020 13:02 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1-Chlorooctane | 115 | | 108 | | 70-130 | % | 12.18.2020 13:02 |
| o-Terphenyl | 102 | | 104 | | 70-130 | % | 12.18.2020 13:02 |

**Analytical Method:** **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3145526 Matrix: Soil Date Prep: 12.18.2020
Parent Sample Id: 681713-001 MS Sample Id: 681713-001 S MSD Sample Id: 681713-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | <49.9 | 998 | 873 | 87 | 820 | 82 | 70-130 | 6 | 20 | mg/kg | 12.19.2020 06:16 | |
| Diesel Range Organics (DRO) | <49.9 | 998 | 973 | 97 | 968 | 97 | 70-130 | 1 | 20 | mg/kg | 12.19.2020 06:16 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1-Chlorooctane | 114 | | 110 | | 70-130 | % | 12.19.2020 06:16 |
| o-Terphenyl | 97 | | 88 | | 70-130 | % | 12.19.2020 06:16 |

**Analytical Method:** **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3145449 Matrix: Solid Date Prep: 12.18.2020
MB Sample Id: 7717501-1-BLK LCS Sample Id: 7717501-1-BKS LCSD Sample Id: 7717501-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | 0.100 | 0.0988 | 99 | 0.100 | 100 | 70-130 | 1 | 35 | mg/kg | 12.19.2020 04:05 | |
| Toluene | <0.00200 | 0.100 | 0.0933 | 93 | 0.0964 | 96 | 70-130 | 3 | 35 | mg/kg | 12.19.2020 04:05 | |
| Ethylbenzene | <0.00200 | 0.100 | 0.0937 | 94 | 0.0959 | 96 | 70-130 | 2 | 35 | mg/kg | 12.19.2020 04:05 | |
| m,p-Xylenes | <0.00400 | 0.200 | 0.187 | 94 | 0.193 | 97 | 70-130 | 3 | 35 | mg/kg | 12.19.2020 04:05 | |
| o-Xylene | <0.00200 | 0.100 | 0.0919 | 92 | 0.0954 | 95 | 70-130 | 4 | 35 | mg/kg | 12.19.2020 04:05 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 88 | | 98 | | 99 | | 70-130 | % | 12.19.2020 04:05 |
| 4-Bromofluorobenzene | 118 | | 102 | | 108 | | 70-130 | % | 12.19.2020 04:05 |

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

# QC Summary 681586



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## Etech Environmental & Safety Solution, Inc

NM DW State 2-6 Flowline

**Analytical Method:** BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3145472 — Matrix: Solid — Date Prep: 12.18.2020
MB Sample Id: 7717522-1-BLK — LCS Sample Id: 7717522-1-BKS — LCSD Sample Id: 7717522-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | 0.100 | 0.101 | 101 | 0.0997 | 100 | 70-130 | 1 | 35 | mg/kg | 12.19.2020 15:06 | |
| Toluene | <0.00200 | 0.100 | 0.0988 | 99 | 0.110 | 110 | 70-130 | 11 | 35 | mg/kg | 12.19.2020 15:06 | |
| Ethylbenzene | <0.00200 | 0.100 | 0.102 | 102 | 0.103 | 103 | 70-130 | 1 | 35 | mg/kg | 12.19.2020 15:06 | |
| m,p-Xylenes | <0.00400 | 0.200 | 0.202 | 101 | 0.207 | 104 | 70-130 | 2 | 35 | mg/kg | 12.19.2020 15:06 | |
| o-Xylene | <0.00200 | 0.100 | 0.101 | 101 | 0.104 | 104 | 70-130 | 3 | 35 | mg/kg | 12.19.2020 15:06 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 86 | | 98 | | 96 | | 70-130 | % | 12.19.2020 15:06 |
| 4-Bromofluorobenzene | 115 | | 111 | | 114 | | 70-130 | % | 12.19.2020 15:06 |

**Analytical Method:** BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3145474 — Matrix: Solid — Date Prep: 12.18.2020
MB Sample Id: 7717524-1-BLK — LCS Sample Id: 7717524-1-BKS — LCSD Sample Id: 7717524-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | 0.100 | 0.101 | 101 | 0.0941 | 94 | 70-130 | 7 | 35 | mg/kg | 12.19.2020 23:29 | |
| Toluene | <0.00200 | 0.100 | 0.0944 | 94 | 0.0885 | 89 | 70-130 | 6 | 35 | mg/kg | 12.19.2020 23:29 | |
| Ethylbenzene | <0.00200 | 0.100 | 0.0948 | 95 | 0.0892 | 89 | 70-130 | 6 | 35 | mg/kg | 12.19.2020 23:29 | |
| m,p-Xylenes | <0.00400 | 0.200 | 0.189 | 95 | 0.178 | 89 | 70-130 | 6 | 35 | mg/kg | 12.19.2020 23:29 | |
| o-Xylene | <0.00200 | 0.100 | 0.0950 | 95 | 0.0902 | 90 | 70-130 | 5 | 35 | mg/kg | 12.19.2020 23:29 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 95 | | 99 | | 99 | | 70-130 | % | 12.19.2020 23:29 |
| 4-Bromofluorobenzene | 106 | | 97 | | 101 | | 70-130 | % | 12.19.2020 23:29 |

**Analytical Method:** BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3145449 — Matrix: Soil — Date Prep: 12.18.2020
Parent Sample Id: 681479-008 — MS Sample Id: 681479-008 S — MSD Sample Id: 681479-008 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00201 | 0.101 | 0.0722 | 71 | 0.0762 | 77 | 70-130 | 5 | 35 | mg/kg | 12.19.2020 04:47 | |
| Toluene | <0.00201 | 0.101 | 0.0713 | 71 | 0.0798 | 80 | 70-130 | 11 | 35 | mg/kg | 12.19.2020 04:47 | |
| Ethylbenzene | <0.00201 | 0.101 | 0.0690 | 68 | 0.0830 | 84 | 70-130 | 18 | 35 | mg/kg | 12.19.2020 04:47 | X |
| m,p-Xylenes | <0.00402 | 0.201 | 0.121 | 60 | 0.134 | 67 | 70-130 | 10 | 35 | mg/kg | 12.19.2020 04:47 | X |
| o-Xylene | <0.00201 | 0.101 | 0.0650 | 64 | 0.0695 | 70 | 70-130 | 7 | 35 | mg/kg | 12.19.2020 04:47 | X |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 102 | | 102 | | 70-130 | % | 12.19.2020 04:47 |
| 4-Bromofluorobenzene | 108 | | 111 | | 70-130 | % | 12.19.2020 04:47 |

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

# QC Summary 681586



eurofins | Environment Testing Xenco

## Etech Environmental & Safety Solution, Inc

NM DW State 2-6 Flowline

**Analytical Method:** **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3145472 Matrix: Soil Date Prep: 12.18.2020
Parent Sample Id: 681586-005 MS Sample Id: 681586-005 S MSD Sample Id: 681586-005 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00198 | 0.0990 | 0.0702 | 71 | 0.0667 | 67 | 70-130 | 5 | 35 | mg/kg | 12.19.2020 15:47 | X |
| Toluene | <0.00198 | 0.0990 | 0.0762 | 77 | 0.0774 | 77 | 70-130 | 2 | 35 | mg/kg | 12.19.2020 15:47 | |
| Ethylbenzene | <0.00198 | 0.0990 | 0.0817 | 83 | 0.0769 | 77 | 70-130 | 6 | 35 | mg/kg | 12.19.2020 15:47 | |
| m,p-Xylenes | <0.00396 | 0.198 | 0.133 | 67 | 0.128 | 64 | 70-130 | 4 | 35 | mg/kg | 12.19.2020 15:47 | X |
| o-Xylene | <0.00198 | 0.0990 | 0.0724 | 73 | 0.0722 | 72 | 70-130 | 0 | 35 | mg/kg | 12.19.2020 15:47 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 97 | | 98 | | 70-130 | % | 12.19.2020 15:47 |
| 4-Bromofluorobenzene | 117 | | 119 | | 70-130 | % | 12.19.2020 15:47 |

**Analytical Method:** **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3145474 Matrix: Soil Date Prep: 12.18.2020
Parent Sample Id: 681586-030 MS Sample Id: 681586-030 S MSD Sample Id: 681586-030 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00201 | 0.100 | 0.0832 | 83 | 0.0857 | 86 | 70-130 | 3 | 35 | mg/kg | 12.20.2020 00:10 | |
| Toluene | <0.00201 | 0.100 | 0.0773 | 77 | 0.0784 | 78 | 70-130 | 1 | 35 | mg/kg | 12.20.2020 00:10 | |
| Ethylbenzene | 0.00210 | 0.100 | 0.0723 | 70 | 0.0722 | 70 | 70-130 | 0 | 35 | mg/kg | 12.20.2020 00:10 | |
| m,p-Xylenes | 0.00419 | 0.201 | 0.141 | 68 | 0.140 | 68 | 70-130 | 1 | 35 | mg/kg | 12.20.2020 00:10 | X |
| o-Xylene | 0.00344 | 0.100 | 0.0702 | 67 | 0.0709 | 67 | 70-130 | 1 | 35 | mg/kg | 12.20.2020 00:10 | X |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 99 | | 100 | | 70-130 | % | 12.20.2020 00:10 |
| 4-Bromofluorobenzene | 104 | | 103 | | 70-130 | % | 12.20.2020 00:10 |

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

# Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300, San Antonio, TX (210) 509-3334
Midland, TX (432) 704-5440, EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900
Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701
Atlanta, GA (770) 449-8800
www.xenco.com

Work Order No: 681584



| | | | |
|---|---|---|---|
| Project Manager: | Joel Lowry | Bill to: (if different) | Concho |
| Company Name: | Etech Environmental and Safety | Company Name: | |
| Address: | 3100 Plains Hwy | Address: | |
| City, State ZIP: | Lovington, NM, 88260 | City, State ZIP: | |
| Phone: | 575-396-2378 Email: | Email Results to: PM@etechenv.com + Client | |

**Work Order Comments**

Program: UST/PST ☐ PRP ☐ Brownfield ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level I ☐ Level II ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

| | | | |
|---|---|---|---|
| Project Name: | NM DW State 2-6 Flowline | Turn Around | |
| Project Number: | 13542 | Routine: | X |
| Project Location | Lea County, NM | Rush: | ☐ |
| Sampler's Name: | Matthew Grieco | Due Date: | |
| PO #: | | | |

| SAMPLE RECEIPT | | | | |
|---|---|---|---|---|
| Temp Blank: | Yes No | Wet Ice: | Yes No | |
| Temperature (°C): | 1.4 | Thermometer ID | | |
| Received Intact: | Yes No | R8 | | |
| Cooler Custody Seals: | Yes No N/A | Correction Factor: | 2.15 | |
| Sample Custody Seals: | Yes No N/A | Total Containers: | | |

| Sample Identification | Matrix | Date Sampled | Time Sampled | Depth | Number of Containers/Preservative Code | BTEX (8021) | TPH (Modified Ext.) | Cl- (E300) |
|---|---|---|---|---|---|---|---|---|
| SW1 | Soil | 12/15/2020 | | | 1/NO | X | X | X |
| SW2 | Soil | 12/15/2020 | | | 1/NO | X | X | X |
| SW3 | Soil | 12/15/2020 | | | 1/NO | X | X | X |
| SW4 | Soil | 12/15/2020 | | | 1/NO | X | X | X |
| WW1 | Soil | 12/15/2020 | | | 1/NO | X | X | X |
| WW2 | Soil | 12/15/2020 | | | 1/NO | X | X | X |
| WW3 | Soil | 12/15/2020 | | | 1/NO | X | X | X |
| NW1 | Soil | 12/15/2020 | | | 1/NO | X | X | X |
| NW2 | Soil | 12/15/2020 | | | 1/NO | X | X | X |
| NW3 | Soil | 12/15/2020 | | | 1/NO | X | X | X |

**Preservative Codes**

HNO3: HN
H2S04: H2
HCL: HL
None: NO
NaOH: Na
MeOH: Me
Zn Acetate+ NaOH: Zn

TAT starts the day received by the lab, if received by 4:30pm

**Sample Comments**

**Total 200.7 / 6010 200.8 / 6020:** 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn
*Circle Method(s) and Metal(s) to be analyzed* **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U **1631 / 245.1 / 7470 / 7471** : Hg

**Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of $75.00 will be applied to each project and a charge of $5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.**

| Relinquished by: (Signature) | Received by: (Signature) | Date/Time | Relinquished by: (Signature) | Received by: (Signature) | Date/Time |
|---|---|---|---|---|---|
| 1 | Armida Bustillo | 2.57/12-16 | 2 Armida B. | | 12/17/20 11:54 |
| 3 | | | 4 | | |
| 5 | | | 6 | | |

Revised Date 101419 Rev. 2019.1

# Chain of Custody

Work Order No: 468580

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300, San Antonio, TX (210) 509-3334
Midland, TX (432) 704-5440, EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900
Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701
Atlanta, GA (770) 449-8800
www.xenco.com



| | | | |
|---|---|---|---|
| Project Manager: | Joel Lowry | Bill to: (if different) | Concho |
| Company Name: | Etech Environmental and Safety | Company Name: | |
| Address: | 3100 Plains Hwy | Address: | |
| City, State ZIP: | Lovington, NM, 88260 | City, State ZIP: | |
| Phone: | 575-396-2378 | Email: | Email Results to: PM@etechenv.com + Client |

**Work Order Comments**

Program: UST/PST ☐ PRP ☐ Brownfield ☐ RRC ☐ Superfund ☐
State of Project:
Reporting:Level I ☐ Level ☐ PST/US ☐ TRP ☐ Level ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

| | | | |
|---|---|---|---|
| Project Name: | NM DW State 2-6 Flowline | Turn Around | |
| Project Number: | 13542 | Routine: | ☒ |
| Project Location | Lea County, NM | Rush: | ☐ |
| Sampler's Name: | Matthew Grieco | Due Date: | |
| PO #: | | | |

| SAMPLE RECEIPT | | | | |
|---|---|---|---|---|
| Temp Blank: | Yes No | Wet Ice: | Yes No | |
| Temperature (°C): | 1.4 | Thermometer ID | R8 | |
| Received Intact: | Yes No | | | |
| Cooler Custody Seals: | Yes No N/A | Correction Factor: | +1.5 | |
| Sample Custody Seals: | Yes No N/A | Total Containers: | | |

| Sample Identification | Matrix | Date Sampled | Time Sampled | Depth | Number of Containers/Preservative Code | BTEX (8021) | TPH (Modified Ext.) | Cl- (E300) | Sample Comments |
|---|---|---|---|---|---|---|---|---|---|
| NW4 | Soil | 12/15/2020 | | | 1/NO | X | X | X | |
| NW5 | Soil | 12/15/2020 | | | 1/NO | X | X | X | |
| NW6 | Soil | 12/15/2020 | | | 1/NO | X | X | X | |
| FS1 | Soil | 12/15/2020 | | | 1/NO | X | X | X | |
| FS2 | Soil | 12/15/2020 | | | 1/NO | X | X | X | |
| FS3 | Soil | 12/15/2020 | | | 1/NO | X | X | X | |
| FS4 | Soil | 12/15/2020 | | | 1/NO | X | X | X | |
| FS5 | Soil | 12/15/2020 | | | 1/NO | X | X | X | |
| FS6 | Soil | 12/15/2020 | | | 1/NO | X | X | X | |
| FS7 | Soil | 12/15/2020 | | | 1/NO | X | X | X | |

**ANALYSIS REQUEST**

**Preservative Codes**

HNO3: HN
H2S04: H2
HCL: HL
None: NO
NaOH: Na
MeOH: Me
Zn Acetate+ NaOH: Zn

TAT starts the day recevied by the lab, if received by 4:30pm

**Total 200.7 / 6010 200.8 / 6020:** 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

*Circle Method(s) and Metal(s) to be analyzed* **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U **1631 / 245.1 / 7470 / 7471** : Hg

**Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of $75.00 will be applied to each project and a charge of $5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.**

| | Relinquished by: (Signature) | Received by: (Signature) | Date/Time | Relinquished by: (Signature) | Received by: (Signature) | Date/Time |
|---|---|---|---|---|---|---|
| 1 | Matthew Grieco | Armida Bustillo | 2:57/12-16 | 2 Armida B. | | 12/17/20 11:57 |
| 3 | | | | 4 | | |
| 5 | | | | 6 | | |

Revised Date101419 Rev. 2019.1

# Chain of Custody

Work Order No: 08 1586

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300, San Antonio, TX (210) 509-3334
Midland, TX (432) 704-5440, EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900
Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701
Atlanta, GA (770) 449-8800
www.xenco.com



| | | | |
|---|---|---|---|
| Project Manager: | Joel Lowry | Bill to: (if different) | Concho |
| Company Name: | Etech Environmental and Safety | Company Name: | |
| Address: | 3100 Plains Hwy | Address: | |
| City, State ZIP: | Lovington, NM, 88260 | City, State ZIP: | |
| Phone: | 575-396-2378 | Email: | Email Results to: PM@etechenv.com + Client |

**Work Order Comments**

Program: UST/PST ☐ PRP ☐ Brownfield ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level ☐ Level ☐ PST/US ☐ TRR ☐ Level ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

| | | | |
|---|---|---|---|
| Project Name: | NM DW State 2-6 Flowline | Turn Around | |
| Project Number: | 13542 | Routine: | X |
| Project Location | Lea County, NM | Rush: | ☐ |
| Sampler's Name: | Matthew Grieco | Due Date: | |
| PO #: | | | |

| SAMPLE RECEIPT | | | | |
|---|---|---|---|---|
| Temp Blank: | Yes No | Wet Ice: | Yes No | |
| Temperature (°C): | 1.6 | Thermometer ID | | |
| Received Intact: | Yes No | R8 | | |
| Cooler Custody Seals: | Yes No N/A | Correction Factor: | .5 | |
| Sample Custody Seals: | Yes No N/A | Total Containers: | | |

**Preservative Codes**

HNO3: HN
H2S04: H2
HCL: HL
None: NO
NaOH: Na
MeOH: Me
Zn Acetate+ NaOH: Zn

TAT starts the day recevied by the lab, if received by 4:30pm

| Sample Identification | Matrix | Date Sampled | Time Sampled | Depth | Number of Containers/Preservative Code | BTEX (8021) | TPH (Modified Ext.) | Cl- (E300) | Sample Comments |
|---|---|---|---|---|---|---|---|---|---|
| FS8 | Soil | 12/15/2020 | | | 1/NO | X | X | X | |
| FS9 | Soil | 12/15/2020 | | | 1/NO | X | X | X | |
| FS10 | Soil | 12/15/2020 | | | 1/NO | X | X | X | |
| FS11 | Soil | 12/15/2020 | | | 1/NO | X | X | X | |
| FS12 | Soil | 12/15/2020 | | | 1/NO | X | X | X | |
| FS13 | Soil | 12/15/2020 | | | 1/NO | X | X | X | |
| FS14 | Soil | 12/15/2020 | | | 1/NO | X | X | X | |
| FS15 | Soil | 12/15/2020 | | | 1/NO | X | X | X | |
| FS16 | Soil | 12/15/2020 | | | 1/NO | X | X | X | |
| FS17 | Soil | 12/15/2020 | | | 1/NO | X | X | X | |

**Total 200.7 / 6010 200.8 / 6020:** 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn
*Circle Method(s) and Metal(s) to be analyzed* **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U **1631 / 245.1 / 7470 / 7471** : Hg



| | Relinquished by: (Signature) | Received by: (Signature) | Date/Time | | Relinquished by: (Signature) | Received by: (Signature) | Date/Time |
|---|---|---|---|---|---|---|---|
| 1 | | Armida Bustillo | 2:57/1216 | 2 | Armida B. | | 12/16/20 11:57 |
| 3 | | | | 4 | | | |
| 5 | | | | 6 | | | |

# Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300, San Antonio, TX (210) 509-3334
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Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900
Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701
Atlanta, GA (770) 449-8800
www.xenco.com

Work Order No: 681586



| | | | |
|---|---|---|---|
| Project Manager: | Joel Lowry | Bill to: (if different) | Concho |
| Company Name: | Etech Environmental and Safety | Company Name: | |
| Address: | 3100 Plains Hwy | Address: | |
| City, State ZIP: | Lovington, NM, 88260 | City, State ZIP: | |
| Phone: | 575-396-2378 | Email: | Email Results to: PM@etechenv.com + Client |

**Work Order Comments**

Program: UST/PST ☐ PRP ☐ Brownfield ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level I ☐ Level II ☐ PST/US ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

| | | | |
|---|---|---|---|
| Project Name: | NM DW State 2-6 Flowline | Turn Around | |
| Project Number: | 13542 | Routine: | ☒ |
| Project Location | Lea County, NM | Rush: | ☐ |
| Sampler's Name: | Matthew Grieco | Due Date: | |
| PO #: | | | |

| SAMPLE RECEIPT | | | | |
|---|---|---|---|---|
| Temp Blank: | Yes No | Wet Ice: | Yes No | |
| Temperature (°C): | | Thermometer ID | | |
| Received Intact: | Yes No | | | |
| Cooler Custody Seals: | Yes No N/A | Correction Factor: | | |
| Sample Custody Seals: | Yes No N/A | Total Containers: | | |

**Preservative Codes**

HNO3: HN
H2S04: H2
HCL: HL
None: NO
NaOH: Na
MeOH: Me
Zn Acetate+ NaOH: Zn

TAT starts the day recevied by the lab, if received by 4:30pm

| Sample Identification | Matrix | Date Sampled | Time Sampled | Depth | Number of Containers/Preservative Code | BTEX (8021) | TPH (Modified Ext.) | Cl- (E300) | Sample Comments |
|---|---|---|---|---|---|---|---|---|---|
| FS18 | Soil | 12/15/2020 | | | 1/NO | X | X | X | |
| FS19 | Soil | 12/15/2020 | | | 1/NO | X | X | X | |
| FS20 | Soil | 12/15/2020 | | | 1/NO | X | X | X | |

**Total 200.7 / 6010 200.8 / 6020:** 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn
*Circle Method(s) and Metal(s) to be analyzed* **TCLP / SPLP 6010:** 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U **1631 / 245.1 / 7470 / 7471 : Hg**

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| | Relinquished by: (Signature) | Received by: (Signature) | Date/Time | | Relinquished by: (Signature) | Received by: (Signature) | Date/Time |
|---|---|---|---|---|---|---|---|
| 1 | [signature] | Armida Bustillo | 257 / 12-16 | 2 | Armida B. | [signature] | 12/17/20 11:57 |
| 3 | | | | 4 | | | |
| 5 | | | | 6 | | | |

Revised Date101419 Rev. 2019.1


ORIGIN ID:HOBA (575) 392-7550
*
MAIL SERVICES ETC
4008 N GRIMES
HOBBS, NM 88240
UNITED STATES US
SHIP DATE: 16DEC20
ACTWGT: 52.00 LB MAN
CAD: 0103352/CAFE3313
DIMS: 28x15x14 IN
BILL THIRD PARTY
TO XENCO HOLD FOR PICKUP
FEDEX EXPRESS SHIP CENTER
FEDEX EXPRESS SHIP CENTER
3600 COUNTY ROAD 1276 SOUTH
MIDLAND TX 79711
(432) 704-5440
INV:
PO:
REF:
DEPT:
565C2/9196/05A2
FedEx
Express
J191219082001uv
TRK# 0201 9401 5655 9890
THU - 17 DEC HOLD
PRIORITY OVERNIGHT
HLD
41 MAFA
MAFA
TX-US LBB

# Eurofins Xenco, LLC

## Prelogin/Nonconformance Report- Sample Log-In

**Client:** Etech Environmental & Safety Solution, I

**Date/ Time Received:** 12.17.2020 11.57.00 AM

**Work Order #:** 681586

**Acceptable Temperature Range: 0 - 6 degC**
**Air and Metal samples Acceptable Range: Ambient**

**Temperature Measuring device used : IR8**

| Sample Receipt Checklist | Comments |
|---|---|
| #1 *Temperature of cooler(s)? | 1.6 |
| #2 *Shipping container in good condition? | **Yes** |
| #3 *Samples received on ice? | **Yes** |
| #4 *Custody Seals intact on shipping container/ cooler? | **N/A** |
| #5 Custody Seals intact on sample bottles? | **N/A** |
| #6*Custody Seals Signed and dated? | **N/A** |
| #7 *Chain of Custody present? | **Yes** |
| #8 Any missing/extra samples? | **No** |
| #9 Chain of Custody signed when relinquished/ received? | **Yes** |
| #10 Chain of Custody agrees with sample labels/matrix? | **Yes** |
| #11 Container label(s) legible and intact? | **Yes** |
| #12 Samples in proper container/ bottle? | **Yes** |
| #13 Samples properly preserved? | **Yes** |
| #14 Sample container(s) intact? | **Yes** |
| #15 Sufficient sample amount for indicated test(s)? | **Yes** |
| #16 All samples received within hold time? | **Yes** |
| #17 Subcontract of sample(s)? | **N/A** |
| #18 Water VOC samples have zero headspace? | **N/A** |

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst: PH Device/Lot#:

**Checklist completed by:** Brianna Teel Date: 12.17.2020
Brianna Teel

**Checklist reviewed by:** Jessica Kramer Date: 12.17.2020
Jessica Kramer

eurofins | Environment Testing Xenco

# Certificate of Analysis Summary 683557

## Etech Environmental & Safety Solution, Inc, Midland, TX

### Project Name: NM DW State N 2-6

**Project Id:** 13524
**Contact:** PM
**Project Location:** Rural Lea

**Date Received in Lab:** Wed 01.06.2021 12:42
**Report Date:** 01.07.2021 16:02
**Project Manager:** Jessica Kramer

| *Analysis Requested* | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ***Lab Id:*** | 683557-001 | | 683557-002 | | 683557-003 | | 683557-004 | | 683557-005 | | 683557-006 | |
| | ***Field Id:*** | NW1b | | NW2b | | FS1b | | FS2b | | FS3b | | FS4b | |
| | ***Depth:*** | | | | | | | | | | | | |
| | ***Matrix:*** | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | ***Sampled:*** | 12.30.2020 00:00 | | 12.30.2020 00:00 | | 12.30.2020 00:00 | | 12.30.2020 00:00 | | 12.30.2020 00:00 | | 12.30.2020 00:00 | |
| **TPH by SW8015 Mod** | ***Extracted:*** | 01.06.2021 17:00 | | 01.06.2021 17:00 | | 01.06.2021 17:00 | | 01.06.2021 17:00 | | 01.06.2021 17:00 | | 01.06.2021 17:00 | |
| | ***Analyzed:*** | 01.06.2021 23:03 | | 01.07.2021 00:08 | | 01.07.2021 00:30 | | 01.07.2021 00:52 | | 01.07.2021 01:14 | | 01.07.2021 01:36 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <50.0 | 50.0 | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 |
| Diesel Range Organics (DRO) | | <50.0 | 50.0 | <49.8 | 49.8 | <50.0 | 50.0 | 121 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 |
| Motor Oil Range Hydrocarbons (MRO) | | <50.0 | 50.0 | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 |
| Total TPH | | <50.0 | 50.0 | <49.8 | 49.8 | <50.0 | 50.0 | 121 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 |

BRL - Below Reporting Limit

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# Certificate of Analysis Summary 683557

## Etech Environmental & Safety Solution, Inc, Midland, TX

### Project Name: NM DW State N 2-6

**Project Id:** 13524
**Contact:** PM
**Project Location:** Rural Lea

**Date Received in Lab:** Wed 01.06.2021 12:42
**Report Date:** 01.07.2021 16:02
**Project Manager:** Jessica Kramer

| *Analysis Requested* | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ***Lab Id:*** | 683557-007 | | 683557-008 | | 683557-009 | | 683557-010 | | 683557-011 | | 683557-012 | |
| | ***Field Id:*** | FS6b | | FS7b | | FS8b | | FS9b | | FS10b | | FS11b | |
| | ***Depth:*** | | | | | | | | | | | | |
| | ***Matrix:*** | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | ***Sampled:*** | 12.30.2020 00:00 | | 12.30.2020 00:00 | | 12.30.2020 00:00 | | 12.30.2020 00:00 | | 12.30.2020 00:00 | | 12.30.2020 00:00 | |
| **TPH by SW8015 Mod** | ***Extracted:*** | 01.06.2021 17:00 | | 01.06.2021 17:00 | | 01.06.2021 17:00 | | 01.06.2021 17:00 | | 01.06.2021 17:00 | | 01.06.2021 17:00 | |
| | ***Analyzed:*** | 01.07.2021 01:58 | | 01.07.2021 02:20 | | 01.07.2021 02:42 | | 01.07.2021 03:03 | | 01.07.2021 03:47 | | 01.07.2021 04:09 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <50.0 | 50.0 | <49.8 | 49.8 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 |
| Diesel Range Organics (DRO) | | <50.0 | 50.0 | <49.8 | 49.8 | 74.6 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 |
| Motor Oil Range Hydrocarbons (MRO) | | <50.0 | 50.0 | <49.8 | 49.8 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 |
| Total TPH | | <50.0 | 50.0 | <49.8 | 49.8 | 74.6 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.9 | 49.9 |

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# Certificate of Analysis Summary 683557

## Etech Environmental & Safety Solution, Inc, Midland, TX

### Project Name: NM DW State N 2-6

**Project Id:** 13524
**Contact:** PM
**Project Location:** Rural Lea

**Date Received in Lab:** Wed 01.06.2021 12:42
**Report Date:** 01.07.2021 16:02
**Project Manager:** Jessica Kramer

| *Analysis Requested* | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ***Lab Id:*** | 683557-013 | | 683557-014 | | 683557-015 | | 683557-016 | | 683557-017 | | 683557-018 | |
| | ***Field Id:*** | FS12b | | FS14b | | FS15b | | FS16b | | FS17b | | FS20b | |
| | ***Depth:*** | | | | | | | | | | | | |
| | ***Matrix:*** | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | ***Sampled:*** | 12.30.2020 00:00 | | 12.30.2020 00:00 | | 12.30.2020 00:00 | | 12.30.2020 00:00 | | 12.30.2020 00:00 | | 12.30.2020 00:00 | |
| **TPH by SW8015 Mod** | ***Extracted:*** | 01.06.2021 17:00 | | 01.06.2021 17:00 | | 01.06.2021 17:00 | | 01.06.2021 17:00 | | 01.06.2021 17:00 | | 01.06.2021 17:00 | |
| | ***Analyzed:*** | 01.07.2021 04:31 | | 01.07.2021 04:53 | | 01.07.2021 05:15 | | 01.07.2021 06:48 | | 01.07.2021 07:10 | | 01.07.2021 07:32 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <50.0 | 50.0 |
| Diesel Range Organics (DRO) | | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <50.0 | 50.0 |
| Motor Oil Range Hydrocarbons (MRO) | | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <50.0 | 50.0 |
| Total TPH | | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <50.0 | 50.0 |

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# Certificate of Analysis Summary 683557

## Etech Environmental & Safety Solution, Inc, Midland, TX

### Project Name: NM DW State N 2-6

**Project Id:** 13524
**Contact:** PM
**Project Location:** Rural Lea

**Date Received in Lab:** Wed 01.06.2021 12:42
**Report Date:** 01.07.2021 16:02
**Project Manager:** Jessica Kramer

| *Analysis Requested* | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ***Lab Id:*** | 683557-019 | | 683557-020 | | 683557-021 | | 683557-022 | | 683557-023 | | 683557-024 | |
| | ***Field Id:*** | FS22b | | FS23b | | FS24b | | FS28b | | FS29b | | FS30b | |
| | ***Depth:*** | | | | | | | | | | | | |
| | ***Matrix:*** | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | ***Sampled:*** | 12.30.2020 00:00 | | 12.30.2020 00:00 | | 12.30.2020 00:00 | | 12.30.2020 00:00 | | 12.30.2020 00:00 | | 12.30.2020 00:00 | |
| **TPH by SW8015 Mod** | ***Extracted:*** | 01.06.2021 17:00 | | 01.06.2021 17:00 | | 01.06.2021 13:00 | | 01.06.2021 13:00 | | 01.06.2021 13:00 | | 01.06.2021 13:00 | |
| | ***Analyzed:*** | 01.07.2021 07:53 | | 01.07.2021 08:15 | | 01.06.2021 15:15 | | 01.06.2021 16:14 | | 01.06.2021 16:34 | | 01.06.2021 16:55 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <49.9 | 49.9 | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 |
| Diesel Range Organics (DRO) | | <49.9 | 49.9 | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 |
| Motor Oil Range Hydrocarbons (MRO) | | <49.9 | 49.9 | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 |
| Total TPH | | <49.9 | 49.9 | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 |

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# Certificate of Analysis Summary 683557

## Etech Environmental & Safety Solution, Inc, Midland, TX

### Project Name: NM DW State N 2-6

**Project Id:** 13524
**Contact:** PM
**Project Location:** Rural Lea

**Date Received in Lab:** Wed 01.06.2021 12:42
**Report Date:** 01.07.2021 16:02
**Project Manager:** Jessica Kramer

| *Analysis Requested* | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ***Lab Id:*** | 683557-025 | | 683557-026 | | | | | | | | | |
| | ***Field Id:*** | FS31b | | FS32b | | | | | | | | | |
| | ***Depth:*** | | | | | | | | | | | | |
| | ***Matrix:*** | SOIL | | SOIL | | | | | | | | | |
| | ***Sampled:*** | 12.30.2020 00:00 | | 12.30.2020 00:00 | | | | | | | | | |
| **TPH by SW8015 Mod** | ***Extracted:*** | 01.06.2021 13:00 | | 01.06.2021 13:00 | | | | | | | | | |
| | ***Analyzed:*** | 01.06.2021 17:14 | | 01.06.2021 17:33 | | | | | | | | | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | | | | | | | | |
| Gasoline Range Hydrocarbons (GRO) | | <50.0 | 50.0 | <49.8 | 49.8 | | | | | | | | |
| Diesel Range Organics (DRO) | | <50.0 | 50.0 | <49.8 | 49.8 | | | | | | | | |
| Motor Oil Range Hydrocarbons (MRO) | | <50.0 | 50.0 | <49.8 | 49.8 | | | | | | | | |
| Total TPH | | <50.0 | 50.0 | <49.8 | 49.8 | | | | | | | | |

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# Analytical Report 683557

## for

## Etech Environmental & Safety Solution, Inc

**Project Manager: PM**

**NM DW State N 2-6**

**13524**

**01.07.2021**

Collected By: Client

**1211 W. Florida Ave**
**Midland TX 79701**

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-24)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-20-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)

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01.07.2021

Project Manager: **PM**
**Etech Environmental & Safety Solution, Inc**
P.O. Box 62228
Midland, TX 79711

Reference: Eurofins Xenco, LLC Report No(s): **683557**
**NM DW State N 2-6**
Project Address: Rural Lea

**PM** :

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 683557. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 683557 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

**Jessica Kramer**
Project Manager

*A Small Business and Minority Company*

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# Sample Cross Reference 683557

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State N 2-6

| Sample Id | Matrix | Date Collected | Sample Depth | Lab Sample Id |
|---|---|---|---|---|
| NW1b | S | 12.30.2020 00:00 | | 683557-001 |
| NW2b | S | 12.30.2020 00:00 | | 683557-002 |
| FS1b | S | 12.30.2020 00:00 | | 683557-003 |
| FS2b | S | 12.30.2020 00:00 | | 683557-004 |
| FS3b | S | 12.30.2020 00:00 | | 683557-005 |
| FS4b | S | 12.30.2020 00:00 | | 683557-006 |
| FS6b | S | 12.30.2020 00:00 | | 683557-007 |
| FS7b | S | 12.30.2020 00:00 | | 683557-008 |
| FS8b | S | 12.30.2020 00:00 | | 683557-009 |
| FS9b | S | 12.30.2020 00:00 | | 683557-010 |
| FS10b | S | 12.30.2020 00:00 | | 683557-011 |
| FS11b | S | 12.30.2020 00:00 | | 683557-012 |
| FS12b | S | 12.30.2020 00:00 | | 683557-013 |
| FS14b | S | 12.30.2020 00:00 | | 683557-014 |
| FS15b | S | 12.30.2020 00:00 | | 683557-015 |
| FS16b | S | 12.30.2020 00:00 | | 683557-016 |
| FS17b | S | 12.30.2020 00:00 | | 683557-017 |
| FS20b | S | 12.30.2020 00:00 | | 683557-018 |
| FS22b | S | 12.30.2020 00:00 | | 683557-019 |
| FS23b | S | 12.30.2020 00:00 | | 683557-020 |
| FS24b | S | 12.30.2020 00:00 | | 683557-021 |
| FS28b | S | 12.30.2020 00:00 | | 683557-022 |
| FS29b | S | 12.30.2020 00:00 | | 683557-023 |
| FS30b | S | 12.30.2020 00:00 | | 683557-024 |
| FS31b | S | 12.30.2020 00:00 | | 683557-025 |
| FS32b | S | 12.30.2020 00:00 | | 683557-026 |

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# CASE NARRATIVE

***Client Name: Etech Environmental & Safety Solution, Inc***

***Project Name: NM DW State N 2-6***

Project ID: *13524*
Work Order Number(s): *683557*

Report Date: *01.07.2021*
Date Received: *01.06.2021*

**Sample receipt non conformances and comments:**

Revison - Corrected project name

**Sample receipt non conformances and comments per sample:**

None

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# Certificate of Analytical Results 683557

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State N 2-6

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **NW1b** | Matrix: | Soil | Date Received: | 01.06.2021 12:42 |
| Lab Sample Id: | 683557-001 | Date Collected: | 12.30.2020 00:00 | | |
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | MNR | | | | |
| Analyst: | ARM | Date Prep: | 01.06.2021 17:00 | % Moisture: | |
| Seq Number: | 3147007 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 01.06.2021 23:03 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 01.06.2021 23:03 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 01.06.2021 23:03 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 01.06.2021 23:03 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 90 | % | 70-130 | 01.06.2021 23:03 | |
| o-Terphenyl | 84-15-1 | 99 | % | 70-130 | 01.06.2021 23:03 | |

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# Certificate of Analytical Results 683557

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State N 2-6

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **NW2b** | Matrix: | Soil | Date Received: | 01.06.2021 12:42 |
| Lab Sample Id: | 683557-002 | Date Collected: | 12.30.2020 00:00 | | |
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | MNR | | | | |
| Analyst: | ARM | Date Prep: | 01.06.2021 17:00 | % Moisture: | |
| Seq Number: | 3147007 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.8 | 49.8 | mg/kg | 01.07.2021 00:08 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.8 | 49.8 | mg/kg | 01.07.2021 00:08 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.8 | 49.8 | mg/kg | 01.07.2021 00:08 | U | 1 |
| Total TPH | PHC635 | <49.8 | 49.8 | mg/kg | 01.07.2021 00:08 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 94 | % | 70-130 | 01.07.2021 00:08 | |
| o-Terphenyl | 84-15-1 | 102 | % | 70-130 | 01.07.2021 00:08 | |

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# Certificate of Analytical Results 683557

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State N 2-6

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **FS1b** | Matrix: | Soil | Date Received: | 01.06.2021 12:42 |
| Lab Sample Id: | 683557-003 | Date Collected: | 12.30.2020 00:00 | | |
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | MNR | | | | |
| Analyst: | ARM | Date Prep: | 01.06.2021 17:00 | % Moisture: | |
| Seq Number: | 3147007 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 01.07.2021 00:30 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 01.07.2021 00:30 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 01.07.2021 00:30 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 01.07.2021 00:30 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 90 | % | 70-130 | 01.07.2021 00:30 | |
| o-Terphenyl | 84-15-1 | 102 | % | 70-130 | 01.07.2021 00:30 | |

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# Certificate of Analytical Results 683557

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State N 2-6

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **FS2b** | Matrix: | Soil | Date Received: | 01.06.2021 12:42 |
| Lab Sample Id: | 683557-004 | Date Collected: | 12.30.2020 00:00 | | |
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | MNR | | | | |
| Analyst: | ARM | Date Prep: | 01.06.2021 17:00 | % Moisture: | |
| Seq Number: | 3147007 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 01.07.2021 00:52 | U | 1 |
| **Diesel Range Organics (DRO)** | C10C28DRO | **121** | 50.0 | mg/kg | 01.07.2021 00:52 | | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 01.07.2021 00:52 | U | 1 |
| **Total TPH** | PHC635 | **121** | 50.0 | mg/kg | 01.07.2021 00:52 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 89 | % | 70-130 | 01.07.2021 00:52 | |
| o-Terphenyl | 84-15-1 | 102 | % | 70-130 | 01.07.2021 00:52 | |

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# Certificate of Analytical Results 683557

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State N 2-6

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **FS3b** | Matrix: | Soil | Date Received: | 01.06.2021 12:42 |
| Lab Sample Id: | 683557-005 | Date Collected: | 12.30.2020 00:00 | | |
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | MNR | | | | |
| Analyst: | ARM | Date Prep: | 01.06.2021 17:00 | % Moisture: | |
| Seq Number: | 3147007 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 01.07.2021 01:14 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 01.07.2021 01:14 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 01.07.2021 01:14 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 01.07.2021 01:14 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 87 | % | 70-130 | 01.07.2021 01:14 | |
| o-Terphenyl | 84-15-1 | 101 | % | 70-130 | 01.07.2021 01:14 | |

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# Certificate of Analytical Results 683557

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State N 2-6

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **FS4b** | Matrix: | Soil | Date Received: | 01.06.2021 12:42 |
| Lab Sample Id: | 683557-006 | Date Collected: | 12.30.2020 00:00 | | |
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | MNR | | | | |
| Analyst: | ARM | Date Prep: | 01.06.2021 17:00 | % Moisture: | |
| Seq Number: | 3147007 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 01.07.2021 01:36 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 01.07.2021 01:36 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 01.07.2021 01:36 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 01.07.2021 01:36 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 86 | % | 70-130 | 01.07.2021 01:36 | |
| o-Terphenyl | 84-15-1 | 102 | % | 70-130 | 01.07.2021 01:36 | |

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# Certificate of Analytical Results 683557

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State N 2-6

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **FS6b** | Matrix: | Soil | Date Received: | 01.06.2021 12:42 |
| Lab Sample Id: | 683557-007 | Date Collected: | 12.30.2020 00:00 | | |
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | MNR | | | | |
| Analyst: | ARM | Date Prep: | 01.06.2021 17:00 | % Moisture: | |
| Seq Number: | 3147007 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 01.07.2021 01:58 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 01.07.2021 01:58 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 01.07.2021 01:58 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 01.07.2021 01:58 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 87 | % | 70-130 | 01.07.2021 01:58 | |
| o-Terphenyl | 84-15-1 | 106 | % | 70-130 | 01.07.2021 01:58 | |

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# Certificate of Analytical Results 683557

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State N 2-6

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **FS7b** | Matrix: | Soil | Date Received: | 01.06.2021 12:42 |
| Lab Sample Id: | 683557-008 | Date Collected: | 12.30.2020 00:00 | | |
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | MNR | | | | |
| Analyst: | ARM | Date Prep: | 01.06.2021 17:00 | % Moisture: | |
| Seq Number: | 3147007 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.8 | 49.8 | mg/kg | 01.07.2021 02:20 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.8 | 49.8 | mg/kg | 01.07.2021 02:20 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.8 | 49.8 | mg/kg | 01.07.2021 02:20 | U | 1 |
| Total TPH | PHC635 | <49.8 | 49.8 | mg/kg | 01.07.2021 02:20 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 86 | % | 70-130 | 01.07.2021 02:20 | |
| o-Terphenyl | 84-15-1 | 104 | % | 70-130 | 01.07.2021 02:20 | |

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# Certificate of Analytical Results 683557

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State N 2-6

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **FS8b** | Matrix: | Soil | Date Received: | 01.06.2021 12:42 |
| Lab Sample Id: | 683557-009 | Date Collected: | 12.30.2020 00:00 | | |
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | MNR | | | | |
| Analyst: | ARM | Date Prep: | 01.06.2021 17:00 | % Moisture: | |
| Seq Number: | 3147007 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 01.07.2021 02:42 | U | 1 |
| **Diesel Range Organics (DRO)** | C10C28DRO | **74.6** | 50.0 | mg/kg | 01.07.2021 02:42 | | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 01.07.2021 02:42 | U | 1 |
| **Total TPH** | PHC635 | **74.6** | 50.0 | mg/kg | 01.07.2021 02:42 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 92 | % | 70-130 | 01.07.2021 02:42 | |
| o-Terphenyl | 84-15-1 | 111 | % | 70-130 | 01.07.2021 02:42 | |

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# Certificate of Analytical Results 683557

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State N 2-6

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **FS9b** | Matrix: | Soil | Date Received: | 01.06.2021 12:42 |
| Lab Sample Id: | 683557-010 | Date Collected: | 12.30.2020 00:00 | | |
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | MNR | | | | |
| Analyst: | ARM | Date Prep: | 01.06.2021 17:00 | % Moisture: | |
| Seq Number: | 3147007 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 01.07.2021 03:03 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 01.07.2021 03:03 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 01.07.2021 03:03 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 01.07.2021 03:03 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 87 | % | 70-130 | 01.07.2021 03:03 | |
| o-Terphenyl | 84-15-1 | 106 | % | 70-130 | 01.07.2021 03:03 | |

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# Certificate of Analytical Results 683557

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State N 2-6

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **FS10b** | Matrix: | Soil | Date Received: | 01.06.2021 12:42 |
| Lab Sample Id: | 683557-011 | Date Collected: | 12.30.2020 00:00 | | |
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | MNR | | | | |
| Analyst: | ARM | Date Prep: | 01.06.2021 17:00 | % Moisture: | |
| Seq Number: | 3147007 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 01.07.2021 03:47 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 01.07.2021 03:47 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 01.07.2021 03:47 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 01.07.2021 03:47 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 86 | % | 70-130 | 01.07.2021 03:47 | |
| o-Terphenyl | 84-15-1 | 103 | % | 70-130 | 01.07.2021 03:47 | |

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# Certificate of Analytical Results 683557

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State N 2-6

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **FS11b** | Matrix: | Soil | Date Received: | 01.06.2021 12:42 |
| Lab Sample Id: | 683557-012 | Date Collected: | 12.30.2020 00:00 | | |
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | MNR | | | | |
| Analyst: | ARM | Date Prep: | 01.06.2021 17:00 | % Moisture: | |
| Seq Number: | 3147007 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 01.07.2021 04:09 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 01.07.2021 04:09 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 01.07.2021 04:09 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 01.07.2021 04:09 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 89 | % | 70-130 | 01.07.2021 04:09 | |
| o-Terphenyl | 84-15-1 | 106 | % | 70-130 | 01.07.2021 04:09 | |

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# Certificate of Analytical Results 683557

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State N 2-6

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **FS12b** | Matrix: | Soil | Date Received: | 01.06.2021 12:42 |
| Lab Sample Id: | 683557-013 | Date Collected: | 12.30.2020 00:00 | | |
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | MNR | | | | |
| Analyst: | ARM | Date Prep: | 01.06.2021 17:00 | % Moisture: | |
| Seq Number: | 3147007 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.8 | 49.8 | mg/kg | 01.07.2021 04:31 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.8 | 49.8 | mg/kg | 01.07.2021 04:31 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.8 | 49.8 | mg/kg | 01.07.2021 04:31 | U | 1 |
| Total TPH | PHC635 | <49.8 | 49.8 | mg/kg | 01.07.2021 04:31 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 96 | % | 70-130 | 01.07.2021 04:31 | |
| o-Terphenyl | 84-15-1 | 110 | % | 70-130 | 01.07.2021 04:31 | |

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# Certificate of Analytical Results 683557

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State N 2-6

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **FS14b** | Matrix: | Soil | Date Received: | 01.06.2021 12:42 |
| Lab Sample Id: | 683557-014 | Date Collected: | 12.30.2020 00:00 | | |
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | MNR | | | | |
| Analyst: | ARM | Date Prep: | 01.06.2021 17:00 | % Moisture: | |
| Seq Number: | 3147007 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 01.07.2021 04:53 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 01.07.2021 04:53 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 01.07.2021 04:53 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 01.07.2021 04:53 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 90 | % | 70-130 | 01.07.2021 04:53 | |
| o-Terphenyl | 84-15-1 | 106 | % | 70-130 | 01.07.2021 04:53 | |

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# Certificate of Analytical Results 683557

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State N 2-6

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **FS15b** | Matrix: | Soil | Date Received: | 01.06.2021 12:42 |
| Lab Sample Id: | 683557-015 | Date Collected: | 12.30.2020 00:00 | | |
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | MNR | | | | |
| Analyst: | ARM | Date Prep: | 01.06.2021 17:00 | % Moisture: | |
| Seq Number: | 3147007 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 01.07.2021 05:15 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 01.07.2021 05:15 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 01.07.2021 05:15 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 01.07.2021 05:15 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 91 | % | 70-130 | 01.07.2021 05:15 | |
| o-Terphenyl | 84-15-1 | 106 | % | 70-130 | 01.07.2021 05:15 | |

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# Certificate of Analytical Results 683557

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State N 2-6

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **FS16b** | Matrix: | Soil | Date Received: | 01.06.2021 12:42 |
| Lab Sample Id: | 683557-016 | Date Collected: | 12.30.2020 00:00 | | |
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | MNR | | | | |
| Analyst: | ARM | Date Prep: | 01.06.2021 17:00 | % Moisture: | |
| Seq Number: | 3147007 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 01.07.2021 06:48 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 01.07.2021 06:48 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 01.07.2021 06:48 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 01.07.2021 06:48 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 91 | % | 70-130 | 01.07.2021 06:48 | |
| o-Terphenyl | 84-15-1 | 106 | % | 70-130 | 01.07.2021 06:48 | |

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# Certificate of Analytical Results 683557

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State N 2-6

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **FS17b** | Matrix: | Soil | Date Received: | 01.06.2021 12:42 |
| Lab Sample Id: | 683557-017 | Date Collected: | 12.30.2020 00:00 | | |
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | MNR | | | | |
| Analyst: | ARM | Date Prep: | 01.06.2021 17:00 | % Moisture: | |
| Seq Number: | 3147007 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 01.07.2021 07:10 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 01.07.2021 07:10 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 01.07.2021 07:10 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 01.07.2021 07:10 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 87 | % | 70-130 | 01.07.2021 07:10 | |
| o-Terphenyl | 84-15-1 | 100 | % | 70-130 | 01.07.2021 07:10 | |

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# Certificate of Analytical Results 683557

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State N 2-6

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **FS20b** | Matrix: | Soil | Date Received: | 01.06.2021 12:42 |
| Lab Sample Id: | 683557-018 | Date Collected: | 12.30.2020 00:00 | | |
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | MNR | | | | |
| Analyst: | ARM | Date Prep: | 01.06.2021 17:00 | % Moisture: | |
| Seq Number: | 3147007 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 01.07.2021 07:32 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 01.07.2021 07:32 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 01.07.2021 07:32 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 01.07.2021 07:32 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 105 | % | 70-130 | 01.07.2021 07:32 | |
| o-Terphenyl | 84-15-1 | 120 | % | 70-130 | 01.07.2021 07:32 | |

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# Certificate of Analytical Results 683557

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State N 2-6

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **FS22b** | Matrix: | Soil | Date Received: | 01.06.2021 12:42 |
| Lab Sample Id: | 683557-019 | Date Collected: | 12.30.2020 00:00 | | |
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | MNR | | | | |
| Analyst: | ARM | Date Prep: | 01.06.2021 17:00 | % Moisture: | |
| Seq Number: | 3147007 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 01.07.2021 07:53 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 01.07.2021 07:53 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 01.07.2021 07:53 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 01.07.2021 07:53 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 91 | % | 70-130 | 01.07.2021 07:53 | |
| o-Terphenyl | 84-15-1 | 106 | % | 70-130 | 01.07.2021 07:53 | |

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# Certificate of Analytical Results 683557

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State N 2-6

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **FS23b** | Matrix: | Soil | Date Received: | 01.06.2021 12:42 |
| Lab Sample Id: | 683557-020 | Date Collected: | 12.30.2020 00:00 | | |
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | MNR | | | | |
| Analyst: | ARM | Date Prep: | 01.06.2021 17:00 | % Moisture: | |
| Seq Number: | 3147007 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.8 | 49.8 | mg/kg | 01.07.2021 08:15 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.8 | 49.8 | mg/kg | 01.07.2021 08:15 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.8 | 49.8 | mg/kg | 01.07.2021 08:15 | U | 1 |
| Total TPH | PHC635 | <49.8 | 49.8 | mg/kg | 01.07.2021 08:15 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 85 | % | 70-130 | 01.07.2021 08:15 | |
| o-Terphenyl | 84-15-1 | 99 | % | 70-130 | 01.07.2021 08:15 | |

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# Certificate of Analytical Results 683557

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State N 2-6

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **FS24b** | Matrix: | Soil | Date Received: | 01.06.2021 12:42 |
| Lab Sample Id: | 683557-021 | Date Collected: | 12.30.2020 00:00 | | |
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | MNR | | | | |
| Analyst: | ARM | Date Prep: | 01.06.2021 13:00 | % Moisture: | |
| Seq Number: | 3147004 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 01.06.2021 15:15 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 01.06.2021 15:15 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 01.06.2021 15:15 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 01.06.2021 15:15 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 71 | % | 70-130 | 01.06.2021 15:15 | |
| o-Terphenyl | 84-15-1 | 77 | % | 70-130 | 01.06.2021 15:15 | |

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# Certificate of Analytical Results 683557

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State N 2-6

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **FS28b** | Matrix: | Soil | Date Received: | 01.06.2021 12:42 |
| Lab Sample Id: | 683557-022 | Date Collected: | 12.30.2020 00:00 | | |
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | MNR | | | | |
| Analyst: | ARM | Date Prep: | 01.06.2021 13:00 | % Moisture: | |
| Seq Number: | 3147004 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 01.06.2021 16:14 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 01.06.2021 16:14 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 01.06.2021 16:14 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 01.06.2021 16:14 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 70 | % | 70-130 | 01.06.2021 16:14 | |
| o-Terphenyl | 84-15-1 | 74 | % | 70-130 | 01.06.2021 16:14 | |

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# Certificate of Analytical Results 683557

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State N 2-6

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **FS29b** | Matrix: | Soil | Date Received: | 01.06.2021 12:42 |
| Lab Sample Id: | 683557-023 | Date Collected: | 12.30.2020 00:00 | | |
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | MNR | | | | |
| Analyst: | ARM | Date Prep: | 01.06.2021 13:00 | % Moisture: | |
| Seq Number: | 3147004 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 01.06.2021 16:34 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 01.06.2021 16:34 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 01.06.2021 16:34 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 01.06.2021 16:34 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 109 | % | 70-130 | 01.06.2021 16:34 | |
| o-Terphenyl | 84-15-1 | 117 | % | 70-130 | 01.06.2021 16:34 | |

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# Certificate of Analytical Results 683557

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State N 2-6

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **FS30b** | Matrix: | Soil | Date Received: | 01.06.2021 12:42 |
| Lab Sample Id: | 683557-024 | Date Collected: | 12.30.2020 00:00 | | |
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | MNR | | | | |
| Analyst: | ARM | Date Prep: | 01.06.2021 13:00 | % Moisture: | |
| Seq Number: | 3147004 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.8 | 49.8 | mg/kg | 01.06.2021 16:55 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.8 | 49.8 | mg/kg | 01.06.2021 16:55 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.8 | 49.8 | mg/kg | 01.06.2021 16:55 | U | 1 |
| Total TPH | PHC635 | <49.8 | 49.8 | mg/kg | 01.06.2021 16:55 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 109 | % | 70-130 | 01.06.2021 16:55 | |
| o-Terphenyl | 84-15-1 | 116 | % | 70-130 | 01.06.2021 16:55 | |

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# Certificate of Analytical Results 683557

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State N 2-6

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **FS31b** | Matrix: | Soil | Date Received: | 01.06.2021 12:42 |
| Lab Sample Id: | 683557-025 | Date Collected: | 12.30.2020 00:00 | | |
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | MNR | | | | |
| Analyst: | ARM | Date Prep: | 01.06.2021 13:00 | % Moisture: | |
| Seq Number: | 3147004 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 01.06.2021 17:14 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 01.06.2021 17:14 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 01.06.2021 17:14 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 01.06.2021 17:14 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 75 | % | 70-130 | 01.06.2021 17:14 | |
| o-Terphenyl | 84-15-1 | 81 | % | 70-130 | 01.06.2021 17:14 | |

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# Certificate of Analytical Results 683557

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State N 2-6

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **FS32b** | Matrix: | Soil | Date Received: | 01.06.2021 12:42 |
| Lab Sample Id: | 683557-026 | Date Collected: | 12.30.2020 00:00 | | |
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | MNR | | | | |
| Analyst: | ARM | Date Prep: | 01.06.2021 13:00 | % Moisture: | |
| Seq Number: | 3147004 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.8 | 49.8 | mg/kg | 01.06.2021 17:33 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.8 | 49.8 | mg/kg | 01.06.2021 17:33 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.8 | 49.8 | mg/kg | 01.06.2021 17:33 | U | 1 |
| Total TPH | PHC635 | <49.8 | 49.8 | mg/kg | 01.06.2021 17:33 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 70 | % | 70-130 | 01.06.2021 17:33 | |
| o-Terphenyl | 84-15-1 | 76 | % | 70-130 | 01.06.2021 17:33 | |

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# Flagging Criteria

**X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

**B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

**D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

**E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

**F** RPD exceeded lab control limits.

**J** The target analyte was positively identified below the quantitation limit and above the detection limit.

**U** Analyte was not detected.

**L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

**H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

**K** Sample analyzed outside of recommended hold time.

**JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

**BRL** Below Reporting Limit. **ND** Not Detected.

**RL** Reporting Limit

**MDL** Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

**PQL** Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

**DL** Method Detection Limit

**NC** Non-Calculable

**SMP** Client Sample **BLK** Method Blank

**BKS/LCS** Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

**MD/SD** Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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# QC Summary 683557

## Etech Environmental & Safety Solution, Inc

NM DW State N 2-6

**Analytical Method:** TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3147004 — Matrix: Solid — Date Prep: 01.06.2021
MB Sample Id: 7718607-1-BLK — LCS Sample Id: 7718607-1-BKS — LCSD Sample Id: 7718607-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | <50.0 | 1000 | 843 | 84 | 846 | 85 | 70-130 | 0 | 20 | mg/kg | 01.06.2021 14:36 | |
| Diesel Range Organics (DRO) | <50.0 | 1000 | 843 | 84 | 838 | 84 | 70-130 | 1 | 20 | mg/kg | 01.06.2021 14:36 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|
| 1-Chlorooctane | 73 | | 104 | | 96 | | 70-130 | % | 01.06.2021 14:36 |
| o-Terphenyl | 83 | | 92 | | 88 | | 70-130 | % | 01.06.2021 14:36 |

**Analytical Method:** TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3147007 — Matrix: Solid — Date Prep: 01.06.2021
MB Sample Id: 7718612-1-BLK — LCS Sample Id: 7718612-1-BKS — LCSD Sample Id: 7718612-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | <50.0 | 1000 | 929 | 93 | 925 | 93 | 70-130 | 0 | 20 | mg/kg | 01.06.2021 22:18 | |
| Diesel Range Organics (DRO) | <50.0 | 1000 | 992 | 99 | 970 | 97 | 70-130 | 2 | 20 | mg/kg | 01.06.2021 22:18 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|
| 1-Chlorooctane | 96 | | 94 | | 93 | | 70-130 | % | 01.06.2021 22:18 |
| o-Terphenyl | 113 | | 105 | | 104 | | 70-130 | % | 01.06.2021 22:18 |

**Analytical Method:** TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3147004 — Matrix: Solid — Date Prep: 01.06.2021
MB Sample Id: 7718607-1-BLK

| Parameter | MB Result | Units | Analysis Date | Flag |
|---|---|---|---|---|
| Motor Oil Range Hydrocarbons (MRO) | <50.0 | mg/kg | 01.06.2021 14:16 | |

**Analytical Method:** TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3147007 — Matrix: Solid — Date Prep: 01.06.2021
MB Sample Id: 7718612-1-BLK

| Parameter | MB Result | Units | Analysis Date | Flag |
|---|---|---|---|---|
| Motor Oil Range Hydrocarbons (MRO) | <50.0 | mg/kg | 01.06.2021 21:56 | |

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

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# QC Summary 683557

## Etech Environmental & Safety Solution, Inc

NM DW State N 2-6

**Analytical Method:** **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3147004 Matrix: Soil Date Prep: 01.06.2021
Parent Sample Id: 683557-021 MS Sample Id: 683557-021 S MSD Sample Id: 683557-021 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | <49.9 | 997 | 800 | 80 | 807 | 81 | 70-130 | 1 | 20 | mg/kg | 01.06.2021 15:35 | |
| Diesel Range Organics (DRO) | <49.9 | 997 | 758 | 76 | 813 | 81 | 70-130 | 7 | 20 | mg/kg | 01.06.2021 15:35 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1-Chlorooctane | 81 | | 103 | | 70-130 | % | 01.06.2021 15:35 |
| o-Terphenyl | 75 | | 74 | | 70-130 | % | 01.06.2021 15:35 |

**Analytical Method:** **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3147007 Matrix: Soil Date Prep: 01.06.2021
Parent Sample Id: 683557-001 MS Sample Id: 683557-001 S MSD Sample Id: 683557-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | <49.9 | 997 | 898 | 90 | 855 | 86 | 70-130 | 5 | 20 | mg/kg | 01.06.2021 23:24 | |
| Diesel Range Organics (DRO) | <49.9 | 997 | 851 | 85 | 860 | 86 | 70-130 | 1 | 20 | mg/kg | 01.06.2021 23:24 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1-Chlorooctane | 84 | | 84 | | 70-130 | % | 01.06.2021 23:24 |
| o-Terphenyl | 90 | | 88 | | 70-130 | % | 01.06.2021 23:24 |

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

# Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300, San Antonio, TX (210) 509-3334
Midland, TX (432) 704-5440, EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900
Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701
Atlanta, GA (770) 449-8800

**Work Order No:** 6903557

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| | | | |
|---|---|---|---|
| Project Manager: | Joel Lowry | Bill to: (if different) | Sheldon Hitchcock |
| Company Name: | Etech Environmental & Safety | Company Name: | COG |
| Address: | 3100 Plains Highway | Address: | |
| City, State ZIP: | Lovington, NM, 88260 | City, State ZIP: | |
| Phone: | 575-396-2378 | Email: | Email Results to PM@etechenv.com + Client |

**Work Order Comments**

Program: UST/PST ☐ PRP ☐ Brownfield ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level ☐ Level ☐ PST/US ☐ TRP ☐ Level ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

| | | | |
|---|---|---|---|
| Project Name: | NM DW State N 2-6 | Turn Around | |
| Project Number: | 13524 | Routine: | ☐ |
| Project Location | Rural Lea | Rush: | ☐ |
| Sampler's Name: | Stoney Collins | Due Date: | 1/5 |
| PO #: | | | |

| SAMPLE RECEIPT | | | | |
|---|---|---|---|---|
| Temperature (°C): | 2.3/2.8 | Temp Blank: | (Yes) No | Wet Ice: (Yes) No |
| Received Intact: | (Yes) No | Thermometer ID: | IR8 | |
| Cooler Custody Seals: | Yes No (N/A) | Correction Factor: | 0.5 | |
| Sample Custody Seals: | Yes No (N/A) | Total Containers: | | |

| Sample Identification | Matrix | Date Sampled | Time Sampled | Depth | Number of Containers/Preservative Code | Chloride E300 | BTEX 8021 | TPH Modified Ext | TPH TX1005 |
|---|---|---|---|---|---|---|---|---|---|
| NW 1b | S | 12/30/20 | | | 1 | | | X | |
| NW 2b | | | | | | | | X | |
| FS 1 b | | | | | | | | X | |
| FS 2 b | | | | | | | | X | |
| FS 3 b | | | | | | | | X | |
| FS 4 b | | | | | | | | X | |
| FS 6 b | | | | | | | | X | |
| FS 7 b | | | | | | | | X | |
| FS 8 b | | | | | | | | X | |
| FS 9 b | | | | | | | | X | |

**ANALYSIS REQUEST**

**Preservative Codes**

HNO3: HN
H2S04: H2
HCL: HL
None: NO
NaOH: Na
MeOH: Me
Zn Acetate+ NaOH: Zn

TAT starts the day recevied by the lab, if received by 4:30pm

**Sample Comments**

**Total 200.7 / 6010 200.8 / 6020:** 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn
*Circle Method(s) and Metal(s) to be analyzed* **TCLP / SPLP 6010:** 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U **1631 / 245.1 / 7470 / 7471** : Hg



| Relinquished by: (Signature) | Received by: (Signature) | Date/Time | Relinquished by: (Signature) | Received by: (Signature) | Date/Time |
|---|---|---|---|---|---|
| 1 Stoney Collins | NR | 12/31/20 | 2 NR | JRamer | 01/06/21 1342 |
| 3 | | | 4 | | |
| 5 | | | 6 | | |

Revised Date101419 Rev. 2019.1

# Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300, San Antonio, TX (210) 509-3334
Midland, TX (432) 704-5440, EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900
Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701
Atlanta, GA (770) 449-8800

Work Order No: 6983557

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| | | | |
|---|---|---|---|
| Project Manager: | Joel Lowry | Bill to: (if different) | Sheldon Hitchcock |
| Company Name: | Etech Environmental & Safety | Company Name: | COG |
| Address: | 3100 Plains Highway | Address: | |
| City, State ZIP: | Lovington, NM, 88260 | City, State ZIP: | |
| Phone: | 575-396-2378 | Email: | Email Results to PM@etechenv.com + Client |

**Work Order Comments**

Program: UST/PST ☐ PRP ☐ Brownfield ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level I ☐ Level II ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

| | | | |
|---|---|---|---|
| Project Name: | NM DW State N 2-6 | Turn Around | |
| Project Number: | 13524 | Routine: | ☐ |
| Project Location | Rural Lea | Rush: | ☐ |
| Sampler's Name: | Stoney Collins | Due Date: | 1/5 |
| PO #: | | | |

| SAMPLE RECEIPT | | | | | |
|---|---|---|---|---|---|
| Temperature (°C): | | Temp Blank: | Yes No | Wet Ice: | Yes No |
| Received Intact: | Yes No | Thermometer ID | | | |
| Cooler Custody Seals: | Yes No N/A | Correction Factor: | | | |
| Sample Custody Seals: | Yes No N/A | Total Containers: | | | |

**ANALYSIS REQUEST**

| Sample Identification | Matrix | Date Sampled | Time Sampled | Depth | Number of Containers/Preservative Code | Chloride E300 | BTEX 8021 | TPH Modified Ext | TPH TX1005 |
|---|---|---|---|---|---|---|---|---|---|
| FS 10b | S | 12/30/20 | | | 1 | | | X | |
| FS 11b | | | | | | | | X | |
| FS 12b | | | | | | | | X | |
| FS 14b | | | | | | | | X | |
| FS 15b | | | | | | | | X | |
| FS 16b | | | | | | | | X | |
| FS 17b | | | | | | | | X | |
| FS 20b | | | | | | | | X | |
| FS 22b | | | | | | | | X | |
| FS 23b | | | | | | | | X | |

**Preservative Codes**

HNO3: HN
H2S04: H2
HCL: HL
None: NO
NaOH: Na
MeOH: Me
Zn Acetate+ NaOH: Zn

TAT starts the day recevied by the lab, if received by 4:30pm

**Sample Comments**

**Total 200.7 / 6010 200.8 / 6020:** 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn
*Circle Method(s) and Metal(s) to be analyzed* **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U **1631 / 245.1 / 7470 / 7471** : Hg



| Relinquished by: (Signature) | Received by: (Signature) | Date/Time | Relinquished by: (Signature) | Received by: (Signature) | Date/Time |
|---|---|---|---|---|---|
| 1 Stoney Collins | N.R. | 12/31 1:22 | 2 N.R. | J Kramer | 01/06/21 1247 |
| 3 | | | 4 | | |
| 5 | | | 6 | | |

Revised Date101419 Rev. 2019.1

# Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300, San Antonio, TX (210) 509-3334
Midland, TX (432) 704-5440, EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900
Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701
Atlanta, GA (770) 449-8800

Work Order No: 6983557

www.xenco.com Page _____ of _____

| | | | |
|---|---|---|---|
| Project Manager: | Joel Lowry | Bill to: (if different) | Sheldon Hitchcock |
| Company Name: | Etech Environmental & Safety | Company Name: | COG |
| Address: | 3100 Plains Highway | Address: | |
| City, State ZIP: | Lovington, NM, 88260 | City, State ZIP: | |
| Phone: | 575-396-2378 | Email: | Email Results to PM@etechenv.com + Client |

**Work Order Comments**

Program: UST/PST ☐ PRP ☐ Brownfield ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level I ☐ Level II ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

| | | | |
|---|---|---|---|
| Project Name: | NM DW State N 2-6 | Turn Around | |
| Project Number: | 13524 | Routine: | ☐ |
| Project Location | Rural Lea | Rush: | ☐ |
| Sampler's Name: | Stoney Collins | Due Date: | 1/5 |
| PO #: | | | |

| SAMPLE RECEIPT | | | | |
|---|---|---|---|---|
| Temp Blank: | Yes No | Wet Ice: | Yes No | |
| Temperature (°C): | | Thermometer ID | | |
| Received Intact: | Yes No | | | |
| Cooler Custody Seals: | Yes No N/A | Correction Factor: | | |
| Sample Custody Seals: | Yes No N/A | Total Containers: | | |

**ANALYSIS REQUEST**

| Sample Identification | Matrix | Date Sampled | Time Sampled | Depth | Number of Containers/Preservative Code | Chloride E300 | BTEX 8021 | TPH Modified Ext | TPH TX1005 |
|---|---|---|---|---|---|---|---|---|---|
| FS 24b | S | 12/30/20 | | | 1 | | | X | |
| FS 28b | | | | | | | | X | |
| FS 29b | | | | | | | | X | |
| FS 30b | | | | | | | | X | |
| FS 31b | | | | | | | | X | |
| FS 32b | | | | | | | | X | |
| | | | | | | | | X | |
| | | | | | | | | X | |
| | | | | | | | | X | |
| | | | | | | | | X | |

**Preservative Codes**

HNO3: HN
H2S04: H2
HCL: HL
None: NO
NaOH: Na
MeOH: Me
Zn Acetate+ NaOH: Zn

TAT starts the day recevied by the lab, if received by 4:30pm

**Sample Comments**

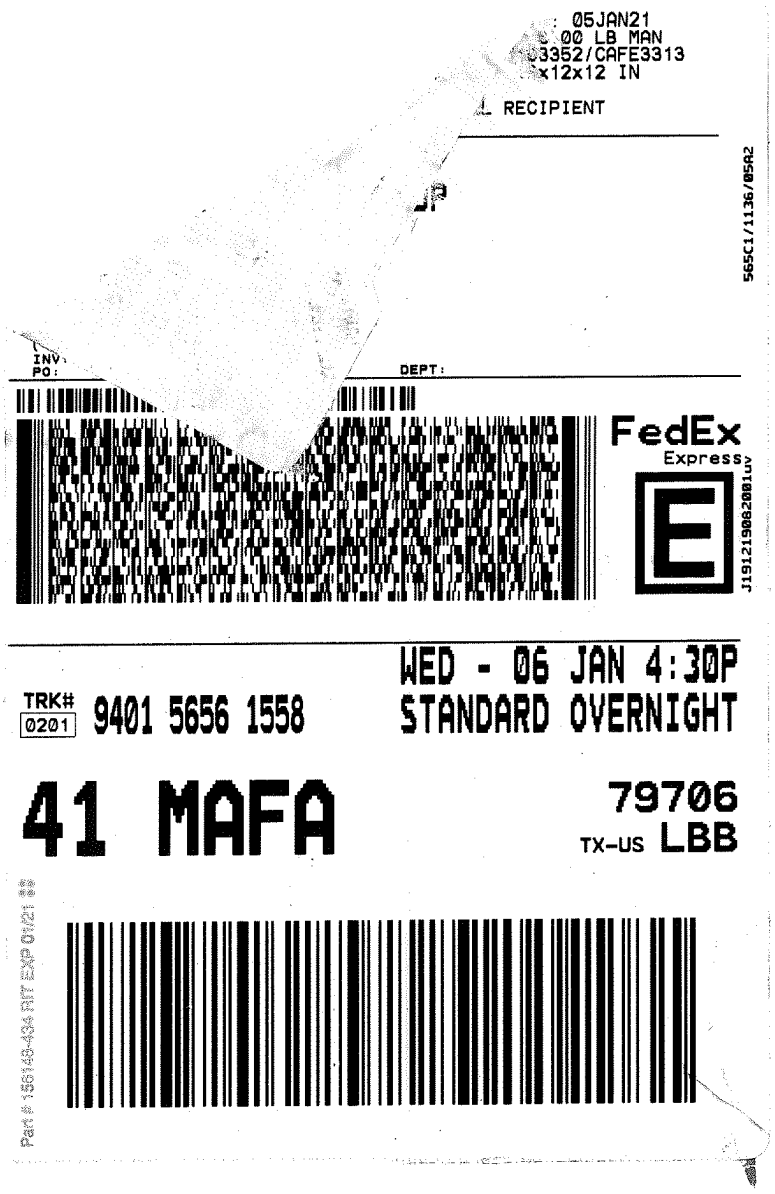
Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

*Circle Method(s) and Metal(s) to be analyzed* TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U 1631 / 245.1 / 7470 / 7471 : Hg



| | Relinquished by: (Signature) | Received by: (Signature) | Date/Time | | Relinquished by: (Signature) | Received by: (Signature) | Date/Time |
|---|---|---|---|---|---|---|---|
| 1 | Stoney Collins | NM | 12/31/22 | 2 | N. Rios | Jramer | 01/06/21 1242 |
| 3 | | | | 4 | | | |
| 5 | | | | 6 | | | |

Revised Date101419 Rev. 2019.1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00 LB MAN
3352/CAFE3313
x12x12 IN
RECIPIENT
565C1/1136/05A2
INV:
PO:
DEPT:
FedEx
Express
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WED - 06 JAN 4:30P
TRK# 0201 9401 5656 1558
STANDARD OVERNIGHT
41 MAFA
79706
TX-US LBB
Part # 156148-434 INT EXP 01/21 SS

# Eurofins Xenco, LLC

## Prelogin/Nonconformance Report- Sample Log-In

**Client:** Etech Environmental & Safety Solution, I

**Date/ Time Received:** 01.06.2021 12.42.00 PM

**Work Order #:** 683557

**Acceptable Temperature Range: 0 - 6 degC**
**Air and Metal samples Acceptable Range: Ambient**

**Temperature Measuring device used : IR8**

| Sample Receipt Checklist | Comments |
|---|---|
| #1 *Temperature of cooler(s)? | 2.8 |
| #2 *Shipping container in good condition? | **Yes** |
| #3 *Samples received on ice? | **Yes** |
| #4 *Custody Seals intact on shipping container/ cooler? | **N/A** |
| #5 Custody Seals intact on sample bottles? | **N/A** |
| #6*Custody Seals Signed and dated? | **N/A** |
| #7 *Chain of Custody present? | **Yes** |
| #8 Any missing/extra samples? | **No** |
| #9 Chain of Custody signed when relinquished/ received? | **Yes** |
| #10 Chain of Custody agrees with sample labels/matrix? | **Yes** |
| #11 Container label(s) legible and intact? | **Yes** |
| #12 Samples in proper container/ bottle? | **Yes** |
| #13 Samples properly preserved? | **Yes** |
| #14 Sample container(s) intact? | **Yes** |
| #15 Sufficient sample amount for indicated test(s)? | **Yes** |
| #16 All samples received within hold time? | **Yes** |
| #17 Subcontract of sample(s)? | **N/A** |
| #18 Water VOC samples have zero headspace? | **N/A** |

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst: PH Device/Lot#:

**Checklist completed by:** Brianna Teel Date: 01.06.2021
Brianna Teel

**Checklist reviewed by:** Jessica Kramer Date: 01.06.2021
Jessica Kramer

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# Certificate of Analysis Summary 681980

## Etech Environmental & Safety Solution, Inc, Midland, TX

### Project Name: NM DW State 2-6 Flowline

**Project Id:** 13542
**Contact:** PM
**Project Location:** Lea County, NM

**Date Received in Lab:** Mon 12.21.2020 10:46
**Report Date:** 12.28.2020 17:59
**Project Manager:** Jessica Kramer

| *Analysis Requested* | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ***Lab Id:*** | 681980-001 | | 681980-002 | | 681980-003 | | 681980-004 | | 681980-005 | | 681980-006 | |
| | ***Field Id:*** | NW7 | | NW8 | | SW5 | | SW6 | | EW1 | | FS21 | |
| | ***Depth:*** | | | | | | | | | | | | |
| | ***Matrix:*** | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | ***Sampled:*** | 12.17.2020 00:00 | | 12.17.2020 00:00 | | 12.17.2020 00:00 | | 12.17.2020 00:00 | | 12.17.2020 00:00 | | 12.17.2020 00:00 | |
| **BTEX by EPA 8021B** | ***Extracted:*** | 12.21.2020 13:00 | | 12.21.2020 13:00 | | 12.21.2020 13:00 | | 12.21.2020 13:00 | | 12.21.2020 13:00 | | 12.21.2020 13:00 | |
| | ***Analyzed:*** | 12.21.2020 15:41 | | 12.21.2020 16:02 | | 12.21.2020 16:23 | | 12.21.2020 16:43 | | 12.21.2020 17:04 | | 12.21.2020 17:25 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Benzene | | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00201 | 0.00201 |
| Toluene | | 0.0102 | 0.00198 | 0.00247 | 0.00199 | <0.00200 | 0.00200 | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00201 | 0.00201 |
| Ethylbenzene | | 0.0129 | 0.00198 | 0.00377 | 0.00199 | <0.00200 | 0.00200 | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00201 | 0.00201 |
| m,p-Xylenes | | 0.0178 | 0.00396 | 0.00783 | 0.00398 | 0.00583 | 0.00401 | <0.00402 | 0.00402 | <0.00399 | 0.00399 | 0.00677 | 0.00402 |
| o-Xylene | | 0.00905 | 0.00198 | 0.00430 | 0.00199 | 0.00372 | 0.00200 | <0.00201 | 0.00201 | <0.00200 | 0.00200 | 0.00534 | 0.00201 |
| Total Xylenes | | 0.0269 | 0.00198 | 0.0121 | 0.00199 | 0.00955 | 0.00200 | <0.00201 | 0.00201 | <0.00200 | 0.00200 | 0.0121 | 0.00201 |
| Total BTEX | | 0.0500 | 0.00198 | 0.0184 | 0.00199 | 0.00955 | 0.00200 | <0.00201 | 0.00201 | <0.00200 | 0.00200 | 0.0121 | 0.00201 |
| **Chloride by EPA 300** | ***Extracted:*** | 12.21.2020 17:40 | | 12.21.2020 17:40 | | 12.21.2020 17:40 | | 12.21.2020 17:40 | | 12.21.2020 17:40 | | 12.21.2020 17:40 | |
| | ***Analyzed:*** | 12.21.2020 18:44 | | 12.21.2020 18:49 | | 12.21.2020 18:54 | | 12.21.2020 18:59 | | 12.21.2020 19:04 | | 12.21.2020 19:10 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | <5.03 | 5.03 | 30.9 | 4.99 | 82.7 | 5.02 | 7.03 | 5.02 | 5.33 | 5.02 | <4.98 | 4.98 |
| **TPH by SW8015 Mod** | ***Extracted:*** | 12.22.2020 10:00 | | 12.22.2020 10:00 | | 12.22.2020 10:00 | | 12.22.2020 10:00 | | 12.22.2020 10:00 | | 12.22.2020 10:00 | |
| | ***Analyzed:*** | 12.24.2020 11:24 | | 12.24.2020 13:45 | | 12.24.2020 14:03 | | 12.24.2020 14:22 | | 12.24.2020 14:41 | | 12.24.2020 15:00 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 | <50.0 | 50.0 |
| Diesel Range Organics (DRO) | | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | 72.1 | 49.8 | 84.8 | 50.0 |
| Motor Oil Range Hydrocarbons (MRO) | | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 | <50.0 | 50.0 |
| Total TPH | | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 | 72.1 | 49.8 | 84.8 | 50.0 |

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Jessica Kramer

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# Certificate of Analysis Summary 681980

## Etech Environmental & Safety Solution, Inc, Midland, TX

### Project Name: NM DW State 2-6 Flowline

**Project Id:** 13542
**Contact:** PM
**Project Location:** Lea County, NM

**Date Received in Lab:** Mon 12.21.2020 10:46
**Report Date:** 12.28.2020 17:59
**Project Manager:** Jessica Kramer

| *Analysis Requested* | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ***Lab Id:*** | 681980-007 | | 681980-008 | | 681980-009 | | 681980-010 | | 681980-011 | | 681980-012 | |
| | ***Field Id:*** | FS22 | | FS23 | | FS24 | | FS25 | | FS26 | | FS27 | |
| | ***Depth:*** | | | | | | | | | | | | |
| | ***Matrix:*** | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | ***Sampled:*** | 12.17.2020 00:00 | | 12.17.2020 00:00 | | 12.17.2020 00:00 | | 12.17.2020 00:00 | | 12.17.2020 00:00 | | 12.17.2020 00:00 | |
| **BTEX by EPA 8021B** | ***Extracted:*** | 12.21.2020 13:00 | | 12.21.2020 13:00 | | 12.21.2020 13:00 | | 12.21.2020 13:00 | | 12.21.2020 13:00 | | 12.21.2020 13:00 | |
| | ***Analyzed:*** | 12.21.2020 17:45 | | 12.21.2020 18:06 | | 12.21.2020 18:26 | | 12.21.2020 18:47 | | 12.21.2020 20:10 | | 12.21.2020 20:30 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Benzene | | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00198 | 0.00198 |
| Toluene | | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00198 | 0.00198 |
| Ethylbenzene | | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00198 | 0.00198 |
| m,p-Xylenes | | <0.00398 | 0.00398 | <0.00398 | 0.00398 | <0.00400 | 0.00400 | <0.00399 | 0.00399 | <0.00397 | 0.00397 | <0.00396 | 0.00396 |
| o-Xylene | | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00198 | 0.00198 |
| Total Xylenes | | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00198 | 0.00198 |
| Total BTEX | | <0.00199 | 0.00199 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00198 | 0.00198 |
| **Chloride by EPA 300** | ***Extracted:*** | 12.21.2020 17:40 | | 12.21.2020 17:40 | | 12.21.2020 17:40 | | 12.21.2020 17:40 | | 12.21.2020 17:40 | | 12.21.2020 17:40 | |
| | ***Analyzed:*** | 12.21.2020 19:25 | | 12.21.2020 19:30 | | 12.21.2020 19:46 | | 12.21.2020 19:51 | | 12.21.2020 19:56 | | 12.21.2020 20:02 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 10.7 | 5.05 | 23.4 | 4.99 | 55.7 | 5.03 | <5.04 | 5.04 | <4.96 | 4.96 | 30.2 | 4.98 |
| **TPH by SW8015 Mod** | ***Extracted:*** | 12.22.2020 10:00 | | 12.22.2020 10:00 | | 12.22.2020 10:00 | | 12.22.2020 10:00 | | 12.22.2020 10:00 | | 12.22.2020 10:00 | |
| | ***Analyzed:*** | 12.24.2020 15:18 | | 12.24.2020 15:36 | | 12.24.2020 15:55 | | 12.24.2020 16:13 | | 12.24.2020 16:50 | | 12.24.2020 17:08 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <50.0 | 50.0 | <49.9 | 49.9 | 73.7 | 49.8 | 85.7 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 |
| Diesel Range Organics (DRO) | | 119 | 50.0 | 106 | 49.9 | 226 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 | 76.3 | 49.9 |
| Motor Oil Range Hydrocarbons (MRO) | | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 | <49.9 | 49.9 |
| Total TPH | | 119 | 50.0 | 106 | 49.9 | 300 | 49.8 | 85.7 | 50.0 | <50.0 | 50.0 | 76.3 | 49.9 |

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# Certificate of Analysis Summary 681980

## Etech Environmental & Safety Solution, Inc, Midland, TX

### Project Name: NM DW State 2-6 Flowline

**Project Id:** 13542
**Contact:** PM
**Project Location:** Lea County, NM

**Date Received in Lab:** Mon 12.21.2020 10:46
**Report Date:** 12.28.2020 17:59
**Project Manager:** Jessica Kramer

| *Analysis Requested* | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ***Lab Id:*** | 681980-013 | | 681980-014 | | 681980-015 | | 681980-016 | | 681980-017 | | 681980-018 | |
| | ***Field Id:*** | FS28 | | FS29 | | FS30 | | FS31 | | FS32 | | FS33 | |
| | ***Depth:*** | | | | | | | | | | | | |
| | ***Matrix:*** | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | ***Sampled:*** | 12.17.2020 00:00 | | 12.17.2020 00:00 | | 12.17.2020 00:00 | | 12.17.2020 00:00 | | 12.17.2020 00:00 | | 12.17.2020 00:00 | |
| **BTEX by EPA 8021B** | ***Extracted:*** | 12.21.2020 13:00 | | 12.21.2020 13:00 | | 12.21.2020 13:00 | | 12.21.2020 13:00 | | 12.21.2020 13:00 | | 12.21.2020 13:00 | |
| | ***Analyzed:*** | 12.21.2020 20:51 | | 12.21.2020 21:12 | | 12.21.2020 21:32 | | 12.21.2020 21:53 | | 12.21.2020 22:13 | | 12.21.2020 22:34 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Benzene | | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00201 | 0.00201 | <0.00202 | 0.00202 | <0.00200 | 0.00200 |
| Toluene | | 0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00201 | 0.00201 | <0.00202 | 0.00202 | <0.00200 | 0.00200 |
| Ethylbenzene | | 0.00228 | 0.00201 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00201 | 0.00201 | <0.00202 | 0.00202 | <0.00200 | 0.00200 |
| m,p-Xylenes | | 0.00581 | 0.00402 | 0.00931 | 0.00401 | 0.00693 | 0.00398 | <0.00402 | 0.00402 | 0.00949 | 0.00403 | <0.00399 | 0.00399 |
| o-Xylene | | 0.00545 | 0.00201 | 0.00507 | 0.00200 | 0.00625 | 0.00199 | <0.00201 | 0.00201 | 0.00534 | 0.00202 | <0.00200 | 0.00200 |
| Total Xylenes | | 0.0113 | 0.00201 | 0.0144 | 0.00200 | 0.0132 | 0.00199 | <0.00201 | 0.00201 | 0.0148 | 0.00202 | <0.00200 | 0.00200 |
| Total BTEX | | 0.0156 | 0.00201 | 0.0144 | 0.00200 | 0.0132 | 0.00199 | <0.00201 | 0.00201 | 0.0148 | 0.00202 | <0.00200 | 0.00200 |
| **Chloride by EPA 300** | ***Extracted:*** | 12.21.2020 17:40 | | 12.21.2020 17:40 | | 12.21.2020 17:40 | | 12.22.2020 15:00 | | 12.22.2020 15:00 | | 12.22.2020 15:00 | |
| | ***Analyzed:*** | 12.21.2020 20:07 | | 12.21.2020 20:12 | | 12.21.2020 20:17 | | 12.22.2020 15:28 | | 12.22.2020 15:46 | | 12.22.2020 15:51 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | <4.98 | 4.98 | 39.8 | 4.97 | 71.0 | 5.03 | 83.4 | 5.02 | 96.9 | 4.97 | 22.1 | 4.97 |
| **TPH by SW8015 Mod** | ***Extracted:*** | 12.22.2020 10:00 | | 12.22.2020 10:00 | | 12.22.2020 10:00 | | 12.22.2020 10:00 | | 12.22.2020 10:00 | | 12.22.2020 10:00 | |
| | ***Analyzed:*** | 12.24.2020 17:26 | | 12.24.2020 17:44 | | 12.24.2020 18:02 | | 12.24.2020 18:21 | | 12.24.2020 18:39 | | 12.24.2020 18:57 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 |
| Diesel Range Organics (DRO) | | 241 | 50.0 | 217 | 49.9 | 184 | 49.8 | 142 | 50.0 | 374 | 50.0 | 89.2 | 50.0 |
| Motor Oil Range Hydrocarbons (MRO) | | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 | <50.0 | 50.0 | 55.4 | 50.0 | <50.0 | 50.0 |
| Total TPH | | 241 | 50.0 | 217 | 49.9 | 184 | 49.8 | 142 | 50.0 | 429 | 50.0 | 89.2 | 50.0 |

BRL - Below Reporting Limit

Jessica Kramer

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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# Analytical Report 681980

## for

## Etech Environmental & Safety Solution, Inc

**Project Manager: PM**

**NM DW State 2-6 Flowline**

**13542**

**12.28.2020**

Collected By: Client

**1211 W. Florida Ave**
**Midland TX 79701**

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)

eurofins | Environment Testing Xenco

12.28.2020

Project Manager: **PM**
**Etech Environmental & Safety Solution, Inc**
P.O. Box 62228
Midland, TX 79711

Reference: Eurofins Xenco, LLC Report No(s): **681980**
**NM DW State 2-6 Flowline**
Project Address: Lea County, NM

**PM** :

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 681980. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 681980 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

**Jessica Kramer**
Project Manager

*A Small Business and Minority Company*

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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# Sample Cross Reference 681980

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State 2-6 Flowline

| Sample Id | Matrix | Date Collected | Sample Depth | Lab Sample Id |
|---|---|---|---|---|
| NW7 | S | 12.17.2020 00:00 | | 681980-001 |
| NW8 | S | 12.17.2020 00:00 | | 681980-002 |
| SW5 | S | 12.17.2020 00:00 | | 681980-003 |
| SW6 | S | 12.17.2020 00:00 | | 681980-004 |
| EW1 | S | 12.17.2020 00:00 | | 681980-005 |
| FS21 | S | 12.17.2020 00:00 | | 681980-006 |
| FS22 | S | 12.17.2020 00:00 | | 681980-007 |
| FS23 | S | 12.17.2020 00:00 | | 681980-008 |
| FS24 | S | 12.17.2020 00:00 | | 681980-009 |
| FS25 | S | 12.17.2020 00:00 | | 681980-010 |
| FS26 | S | 12.17.2020 00:00 | | 681980-011 |
| FS27 | S | 12.17.2020 00:00 | | 681980-012 |
| FS28 | S | 12.17.2020 00:00 | | 681980-013 |
| FS29 | S | 12.17.2020 00:00 | | 681980-014 |
| FS30 | S | 12.17.2020 00:00 | | 681980-015 |
| FS31 | S | 12.17.2020 00:00 | | 681980-016 |
| FS32 | S | 12.17.2020 00:00 | | 681980-017 |
| FS33 | S | 12.17.2020 00:00 | | 681980-018 |

# CASE NARRATIVE



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***Client Name: Etech Environmental & Safety Solution, Inc***

***Project Name: NM DW State 2-6 Flowline***

Project ID: *13542*
Work Order Number(s): *681980*

Report Date: *12.28.2020*
Date Received: *12.21.2020*

**Sample receipt non conformances and comments:**

**Sample receipt non conformances and comments per sample:**

None

**Analytical non conformances and comments:**

Batch: LBA-3145621 BTEX by EPA 8021B
Surrogate 4-Bromofluorobenzene recovered below QC limits. Matrix interferences is suspected.
Samples affected are: 681980-006.

Batch: LBA-3146083 TPH by SW8015 Mod
Surrogate 1-Chlorooctane recovered below QC limits. Matrix interferences is suspected; data confirmed by re-analysis.
Samples affected are: 681980-001 SD.

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# Certificate of Analytical Results 681980

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State 2-6 Flowline

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **NW7** | Matrix: | Soil | Date Received: | 12.21.2020 10:46 |
| Lab Sample Id: | 681980-001 | Date Collected: | 12.17.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Chloride by EPA 300 | | | Prep Method: | E300P |
| Tech: | SPC | | | | |
| Analyst: | SPC | Date Prep: | 12.21.2020 17:40 | % Moisture: | |
| Seq Number: | 3145645 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Chloride | 16887-00-6 | <5.03 | 5.03 | mg/kg | 12.21.2020 18:44 | U | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | | |
| Analyst: | ARM | Date Prep: | 12.22.2020 10:00 | % Moisture: | |
| Seq Number: | 3146083 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 12.24.2020 11:24 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 12.24.2020 11:24 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 12.24.2020 11:24 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 12.24.2020 11:24 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 79 | % | 70-130 | 12.24.2020 11:24 | |
| o-Terphenyl | 84-15-1 | 84 | % | 70-130 | 12.24.2020 11:24 | |

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# Certificate of Analytical Results 681980

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State 2-6 Flowline

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **NW7** | Matrix: | Soil | Date Received: | 12.21.2020 10:46 |
| Lab Sample Id: | 681980-001 | Date Collected: | 12.17.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | | |
| Analyst: | KTL | Date Prep: | 12.21.2020 13:00 | % Moisture: | |
| Seq Number: | 3145621 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00198 | 0.00198 | mg/kg | 12.21.2020 15:41 | U | 1 |
| **Toluene** | 108-88-3 | **0.0102** | 0.00198 | mg/kg | 12.21.2020 15:41 | | 1 |
| **Ethylbenzene** | 100-41-4 | **0.0129** | 0.00198 | mg/kg | 12.21.2020 15:41 | | 1 |
| **m,p-Xylenes** | 179601-23-1 | **0.0178** | 0.00396 | mg/kg | 12.21.2020 15:41 | | 1 |
| **o-Xylene** | 95-47-6 | **0.00905** | 0.00198 | mg/kg | 12.21.2020 15:41 | | 1 |
| **Total Xylenes** | 1330-20-7 | **0.0269** | 0.00198 | mg/kg | 12.21.2020 15:41 | | 1 |
| **Total BTEX** | | **0.0500** | 0.00198 | mg/kg | 12.21.2020 15:41 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 99 | % | 70-130 | 12.21.2020 15:41 | |
| 4-Bromofluorobenzene | 460-00-4 | 112 | % | 70-130 | 12.21.2020 15:41 | |

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# Certificate of Analytical Results 681980

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State 2-6 Flowline

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **NW8** | Matrix: | Soil | Date Received: | 12.21.2020 10:46 |
| Lab Sample Id: | 681980-002 | Date Collected: | 12.17.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Chloride by EPA 300 | | | Prep Method: | E300P |
| Tech: | SPC | | | | |
| Analyst: | SPC | Date Prep: | 12.21.2020 17:40 | % Moisture: | |
| Seq Number: | 3145645 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **30.9** | 4.99 | mg/kg | 12.21.2020 18:49 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | | |
| Analyst: | ARM | Date Prep: | 12.22.2020 10:00 | % Moisture: | |
| Seq Number: | 3146083 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 12.24.2020 13:45 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 12.24.2020 13:45 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 12.24.2020 13:45 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 12.24.2020 13:45 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 86 | % | 70-130 | 12.24.2020 13:45 | |
| o-Terphenyl | 84-15-1 | 93 | % | 70-130 | 12.24.2020 13:45 | |

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# Certificate of Analytical Results 681980

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State 2-6 Flowline

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **NW8** | Matrix: | Soil | Date Received: | 12.21.2020 10:46 |
| Lab Sample Id: | 681980-002 | Date Collected: | 12.17.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | | |
| Analyst: | KTL | Date Prep: | 12.21.2020 13:00 | % Moisture: | |
| Seq Number: | 3145621 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 12.21.2020 16:02 | U | 1 |
| **Toluene** | 108-88-3 | **0.00247** | 0.00199 | mg/kg | 12.21.2020 16:02 | | 1 |
| **Ethylbenzene** | 100-41-4 | **0.00377** | 0.00199 | mg/kg | 12.21.2020 16:02 | | 1 |
| **m,p-Xylenes** | 179601-23-1 | **0.00783** | 0.00398 | mg/kg | 12.21.2020 16:02 | | 1 |
| **o-Xylene** | 95-47-6 | **0.00430** | 0.00199 | mg/kg | 12.21.2020 16:02 | | 1 |
| **Total Xylenes** | 1330-20-7 | **0.0121** | 0.00199 | mg/kg | 12.21.2020 16:02 | | 1 |
| **Total BTEX** | | **0.0184** | 0.00199 | mg/kg | 12.21.2020 16:02 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 86 | % | 70-130 | 12.21.2020 16:02 | |
| 4-Bromofluorobenzene | 460-00-4 | 131 | % | 70-130 | 12.21.2020 16:02 | ** |

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# Certificate of Analytical Results 681980

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State 2-6 Flowline

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **SW5** | Matrix: | Soil | Date Received: | 12.21.2020 10:46 |
| Lab Sample Id: | 681980-003 | Date Collected: | 12.17.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Chloride by EPA 300 | | | Prep Method: | E300P |
| Tech: | SPC | | | | |
| Analyst: | SPC | Date Prep: | 12.21.2020 17:40 | % Moisture: | |
| Seq Number: | 3145645 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **82.7** | 5.02 | mg/kg | 12.21.2020 18:54 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | | |
| Analyst: | ARM | Date Prep: | 12.22.2020 10:00 | % Moisture: | |
| Seq Number: | 3146083 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 12.24.2020 14:03 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 12.24.2020 14:03 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 12.24.2020 14:03 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 12.24.2020 14:03 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 84 | % | 70-130 | 12.24.2020 14:03 | |
| o-Terphenyl | 84-15-1 | 91 | % | 70-130 | 12.24.2020 14:03 | |

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# Certificate of Analytical Results 681980

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State 2-6 Flowline

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **SW5** | Matrix: | Soil | Date Received: | 12.21.2020 10:46 |
| Lab Sample Id: | 681980-003 | Date Collected: | 12.17.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | | |
| Analyst: | KTL | Date Prep: | 12.21.2020 13:00 | % Moisture: | |
| Seq Number: | 3145621 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 12.21.2020 16:23 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 12.21.2020 16:23 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 12.21.2020 16:23 | U | 1 |
| **m,p-Xylenes** | 179601-23-1 | **0.00583** | 0.00401 | mg/kg | 12.21.2020 16:23 | | 1 |
| **o-Xylene** | 95-47-6 | **0.00372** | 0.00200 | mg/kg | 12.21.2020 16:23 | | 1 |
| **Total Xylenes** | 1330-20-7 | **0.00955** | 0.00200 | mg/kg | 12.21.2020 16:23 | | 1 |
| **Total BTEX** | | **0.00955** | 0.00200 | mg/kg | 12.21.2020 16:23 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 105 | % | 70-130 | 12.21.2020 16:23 | |
| 4-Bromofluorobenzene | 460-00-4 | 116 | % | 70-130 | 12.21.2020 16:23 | |

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# Certificate of Analytical Results 681980

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State 2-6 Flowline

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **SW6** | Matrix: | Soil | Date Received: | 12.21.2020 10:46 |
| Lab Sample Id: | 681980-004 | Date Collected: | 12.17.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Chloride by EPA 300 | | | Prep Method: | E300P |
| Tech: | SPC | | | | |
| Analyst: | SPC | Date Prep: | 12.21.2020 17:40 | % Moisture: | |
| Seq Number: | 3145645 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **7.03** | 5.02 | mg/kg | 12.21.2020 18:59 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | | |
| Analyst: | ARM | Date Prep: | 12.22.2020 10:00 | % Moisture: | |
| Seq Number: | 3146083 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 12.24.2020 14:22 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 12.24.2020 14:22 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 12.24.2020 14:22 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 12.24.2020 14:22 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 96 | % | 70-130 | 12.24.2020 14:22 | |
| o-Terphenyl | 84-15-1 | 104 | % | 70-130 | 12.24.2020 14:22 | |

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# Certificate of Analytical Results 681980

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State 2-6 Flowline

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **SW6** | Matrix: | Soil | Date Received: | 12.21.2020 10:46 |
| Lab Sample Id: | 681980-004 | Date Collected: | 12.17.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | | |
| Analyst: | KTL | Date Prep: | 12.21.2020 13:00 | % Moisture: | |
| Seq Number: | 3145621 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00201 | 0.00201 | mg/kg | 12.21.2020 16:43 | U | 1 |
| Toluene | 108-88-3 | <0.00201 | 0.00201 | mg/kg | 12.21.2020 16:43 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00201 | 0.00201 | mg/kg | 12.21.2020 16:43 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00402 | 0.00402 | mg/kg | 12.21.2020 16:43 | U | 1 |
| o-Xylene | 95-47-6 | <0.00201 | 0.00201 | mg/kg | 12.21.2020 16:43 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00201 | 0.00201 | mg/kg | 12.21.2020 16:43 | U | 1 |
| Total BTEX | | <0.00201 | 0.00201 | mg/kg | 12.21.2020 16:43 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 122 | % | 70-130 | 12.21.2020 16:43 | |
| 1,4-Difluorobenzene | 540-36-3 | 90 | % | 70-130 | 12.21.2020 16:43 | |

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# Certificate of Analytical Results 681980

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State 2-6 Flowline

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **EW1** | Matrix: | Soil | Date Received: | 12.21.2020 10:46 |
| Lab Sample Id: | 681980-005 | Date Collected: | 12.17.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Chloride by EPA 300 | | | Prep Method: | E300P |
| Tech: | SPC | | | | |
| Analyst: | SPC | Date Prep: | 12.21.2020 17:40 | % Moisture: | |
| Seq Number: | 3145645 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **5.33** | 5.02 | mg/kg | 12.21.2020 19:04 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | | |
| Analyst: | ARM | Date Prep: | 12.22.2020 10:00 | % Moisture: | |
| Seq Number: | 3146083 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.8 | 49.8 | mg/kg | 12.24.2020 14:41 | U | 1 |
| **Diesel Range Organics (DRO)** | C10C28DRO | **72.1** | 49.8 | mg/kg | 12.24.2020 14:41 | | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.8 | 49.8 | mg/kg | 12.24.2020 14:41 | U | 1 |
| **Total TPH** | PHC635 | **72.1** | 49.8 | mg/kg | 12.24.2020 14:41 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 95 | % | 70-130 | 12.24.2020 14:41 | |
| o-Terphenyl | 84-15-1 | 109 | % | 70-130 | 12.24.2020 14:41 | |

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# Certificate of Analytical Results 681980

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State 2-6 Flowline

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **EW1** | Matrix: | Soil | Date Received: | 12.21.2020 10:46 |
| Lab Sample Id: | 681980-005 | Date Collected: | 12.17.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | | |
| Analyst: | KTL | Date Prep: | 12.21.2020 13:00 | % Moisture: | |
| Seq Number: | 3145621 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 12.21.2020 17:04 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 12.21.2020 17:04 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 12.21.2020 17:04 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00399 | 0.00399 | mg/kg | 12.21.2020 17:04 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 12.21.2020 17:04 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 12.21.2020 17:04 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 12.21.2020 17:04 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 117 | % | 70-130 | 12.21.2020 17:04 | |
| 1,4-Difluorobenzene | 540-36-3 | 91 | % | 70-130 | 12.21.2020 17:04 | |

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# Certificate of Analytical Results 681980

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State 2-6 Flowline

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **FS21** | Matrix: | Soil | Date Received: | 12.21.2020 10:46 |
| Lab Sample Id: | 681980-006 | Date Collected: | 12.17.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Chloride by EPA 300 | | | Prep Method: | E300P |
| Tech: | SPC | | | | |
| Analyst: | SPC | Date Prep: | 12.21.2020 17:40 | % Moisture: | |
| Seq Number: | 3145645 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Chloride | 16887-00-6 | <4.98 | 4.98 | mg/kg | 12.21.2020 19:10 | U | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | | |
| Analyst: | ARM | Date Prep: | 12.22.2020 10:00 | % Moisture: | |
| Seq Number: | 3146083 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 12.24.2020 15:00 | U | 1 |
| **Diesel Range Organics (DRO)** | C10C28DRO | **84.8** | 50.0 | mg/kg | 12.24.2020 15:00 | | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 12.24.2020 15:00 | U | 1 |
| **Total TPH** | PHC635 | **84.8** | 50.0 | mg/kg | 12.24.2020 15:00 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 81 | % | 70-130 | 12.24.2020 15:00 | |
| o-Terphenyl | 84-15-1 | 90 | % | 70-130 | 12.24.2020 15:00 | |

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# Certificate of Analytical Results 681980

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State 2-6 Flowline

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **FS21** | Matrix: | Soil | Date Received: | 12.21.2020 10:46 |
| Lab Sample Id: | 681980-006 | Date Collected: | 12.17.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | | |
| Analyst: | KTL | Date Prep: | 12.21.2020 13:00 | % Moisture: | |
| Seq Number: | 3145621 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00201 | 0.00201 | mg/kg | 12.21.2020 17:25 | U | 1 |
| Toluene | 108-88-3 | <0.00201 | 0.00201 | mg/kg | 12.21.2020 17:25 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00201 | 0.00201 | mg/kg | 12.21.2020 17:25 | U | 1 |
| **m,p-Xylenes** | 179601-23-1 | **0.00677** | 0.00402 | mg/kg | 12.21.2020 17:25 | | 1 |
| **o-Xylene** | 95-47-6 | **0.00534** | 0.00201 | mg/kg | 12.21.2020 17:25 | | 1 |
| **Total Xylenes** | 1330-20-7 | **0.0121** | 0.00201 | mg/kg | 12.21.2020 17:25 | | 1 |
| **Total BTEX** | | **0.0121** | 0.00201 | mg/kg | 12.21.2020 17:25 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 67 | % | 70-130 | 12.21.2020 17:25 | ** |
| 1,4-Difluorobenzene | 540-36-3 | 120 | % | 70-130 | 12.21.2020 17:25 | |

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# Certificate of Analytical Results 681980

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State 2-6 Flowline

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **FS22** | Matrix: | Soil | Date Received: | 12.21.2020 10:46 |
| Lab Sample Id: | 681980-007 | Date Collected: | 12.17.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Chloride by EPA 300 | | | Prep Method: | E300P |
| Tech: | SPC | | | | |
| Analyst: | SPC | Date Prep: | 12.21.2020 17:40 | % Moisture: | |
| Seq Number: | 3145645 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **10.7** | 5.05 | mg/kg | 12.21.2020 19:25 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | | |
| Analyst: | ARM | Date Prep: | 12.22.2020 10:00 | % Moisture: | |
| Seq Number: | 3146083 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 12.24.2020 15:18 | U | 1 |
| **Diesel Range Organics (DRO)** | C10C28DRO | **119** | 50.0 | mg/kg | 12.24.2020 15:18 | | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 12.24.2020 15:18 | U | 1 |
| **Total TPH** | PHC635 | **119** | 50.0 | mg/kg | 12.24.2020 15:18 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 85 | % | 70-130 | 12.24.2020 15:18 | |
| o-Terphenyl | 84-15-1 | 91 | % | 70-130 | 12.24.2020 15:18 | |

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# Certificate of Analytical Results 681980

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State 2-6 Flowline

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **FS22** | Matrix: | Soil | Date Received: | 12.21.2020 10:46 |
| Lab Sample Id: | 681980-007 | Date Collected: | 12.17.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | | |
| Analyst: | KTL | Date Prep: | 12.21.2020 13:00 | % Moisture: | |
| Seq Number: | 3145621 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 12.21.2020 17:45 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 12.21.2020 17:45 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 12.21.2020 17:45 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 12.21.2020 17:45 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 12.21.2020 17:45 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 12.21.2020 17:45 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 12.21.2020 17:45 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 106 | % | 70-130 | 12.21.2020 17:45 | |
| 1,4-Difluorobenzene | 540-36-3 | 94 | % | 70-130 | 12.21.2020 17:45 | |

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# Certificate of Analytical Results 681980

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State 2-6 Flowline

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **FS23** | Matrix: | Soil | Date Received: | 12.21.2020 10:46 |
| Lab Sample Id: | 681980-008 | Date Collected: | 12.17.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Chloride by EPA 300 | | | Prep Method: | E300P |
| Tech: | SPC | | | | |
| Analyst: | SPC | Date Prep: | 12.21.2020 17:40 | % Moisture: | |
| Seq Number: | 3145645 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **23.4** | 4.99 | mg/kg | 12.21.2020 19:30 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | | |
| Analyst: | ARM | Date Prep: | 12.22.2020 10:00 | % Moisture: | |
| Seq Number: | 3146083 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 12.24.2020 15:36 | U | 1 |
| **Diesel Range Organics (DRO)** | C10C28DRO | **106** | 49.9 | mg/kg | 12.24.2020 15:36 | | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 12.24.2020 15:36 | U | 1 |
| **Total TPH** | PHC635 | **106** | 49.9 | mg/kg | 12.24.2020 15:36 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 87 | % | 70-130 | 12.24.2020 15:36 | |
| o-Terphenyl | 84-15-1 | 99 | % | 70-130 | 12.24.2020 15:36 | |

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# Certificate of Analytical Results 681980

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State 2-6 Flowline

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **FS23** | Matrix: | Soil | Date Received: | 12.21.2020 10:46 |
| Lab Sample Id: | 681980-008 | Date Collected: | 12.17.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | | |
| Analyst: | KTL | Date Prep: | 12.21.2020 13:00 | % Moisture: | |
| Seq Number: | 3145621 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 12.21.2020 18:06 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 12.21.2020 18:06 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 12.21.2020 18:06 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 12.21.2020 18:06 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 12.21.2020 18:06 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 12.21.2020 18:06 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 12.21.2020 18:06 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 108 | % | 70-130 | 12.21.2020 18:06 | |
| 1,4-Difluorobenzene | 540-36-3 | 93 | % | 70-130 | 12.21.2020 18:06 | |

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# Certificate of Analytical Results 681980

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State 2-6 Flowline

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **FS24** | Matrix: | Soil | Date Received: | 12.21.2020 10:46 |
| Lab Sample Id: | 681980-009 | Date Collected: | 12.17.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Chloride by EPA 300 | | | Prep Method: | E300P |
| Tech: | SPC | | | | |
| Analyst: | SPC | Date Prep: | 12.21.2020 17:40 | % Moisture: | |
| Seq Number: | 3145645 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **55.7** | 5.03 | mg/kg | 12.21.2020 19:46 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | | |
| Analyst: | ARM | Date Prep: | 12.22.2020 10:00 | % Moisture: | |
| Seq Number: | 3146083 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Gasoline Range Hydrocarbons (GRO)** | PHC610 | **73.7** | 49.8 | mg/kg | 12.24.2020 15:55 | | 1 |
| **Diesel Range Organics (DRO)** | C10C28DRO | **226** | 49.8 | mg/kg | 12.24.2020 15:55 | | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.8 | 49.8 | mg/kg | 12.24.2020 15:55 | U | 1 |
| **Total TPH** | PHC635 | **300** | 49.8 | mg/kg | 12.24.2020 15:55 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 100 | % | 70-130 | 12.24.2020 15:55 | |
| o-Terphenyl | 84-15-1 | 93 | % | 70-130 | 12.24.2020 15:55 | |

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# Certificate of Analytical Results 681980

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State 2-6 Flowline

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **FS24** | Matrix: | Soil | Date Received: | 12.21.2020 10:46 |
| Lab Sample Id: | 681980-009 | Date Collected: | 12.17.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | | |
| Analyst: | KTL | Date Prep: | 12.21.2020 13:00 | % Moisture: | |
| Seq Number: | 3145621 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 12.21.2020 18:26 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 12.21.2020 18:26 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 12.21.2020 18:26 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00400 | 0.00400 | mg/kg | 12.21.2020 18:26 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 12.21.2020 18:26 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 12.21.2020 18:26 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 12.21.2020 18:26 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 92 | % | 70-130 | 12.21.2020 18:26 | |
| 4-Bromofluorobenzene | 460-00-4 | 100 | % | 70-130 | 12.21.2020 18:26 | |

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# Certificate of Analytical Results 681980

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State 2-6 Flowline

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **FS25** | Matrix: | Soil | Date Received: | 12.21.2020 10:46 |
| Lab Sample Id: | 681980-010 | Date Collected: | 12.17.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Chloride by EPA 300 | | | Prep Method: | E300P |
| Tech: | SPC | | | | |
| Analyst: | SPC | Date Prep: | 12.21.2020 17:40 | % Moisture: | |
| Seq Number: | 3145645 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Chloride | 16887-00-6 | <5.04 | 5.04 | mg/kg | 12.21.2020 19:51 | U | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | | |
| Analyst: | ARM | Date Prep: | 12.22.2020 10:00 | % Moisture: | |
| Seq Number: | 3146083 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Gasoline Range Hydrocarbons (GRO)** | PHC610 | **85.7** | 50.0 | mg/kg | 12.24.2020 16:13 | | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 12.24.2020 16:13 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 12.24.2020 16:13 | U | 1 |
| **Total TPH** | PHC635 | **85.7** | 50.0 | mg/kg | 12.24.2020 16:13 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 84 | % | 70-130 | 12.24.2020 16:13 | |
| o-Terphenyl | 84-15-1 | 91 | % | 70-130 | 12.24.2020 16:13 | |

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# Certificate of Analytical Results 681980

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State 2-6 Flowline

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **FS25** | Matrix: | Soil | Date Received: | 12.21.2020 10:46 |
| Lab Sample Id: | 681980-010 | Date Collected: | 12.17.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | | |
| Analyst: | KTL | Date Prep: | 12.21.2020 13:00 | % Moisture: | |
| Seq Number: | 3145621 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 12.21.2020 18:47 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 12.21.2020 18:47 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 12.21.2020 18:47 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00399 | 0.00399 | mg/kg | 12.21.2020 18:47 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 12.21.2020 18:47 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 12.21.2020 18:47 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 12.21.2020 18:47 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 110 | % | 70-130 | 12.21.2020 18:47 | |
| 1,4-Difluorobenzene | 540-36-3 | 92 | % | 70-130 | 12.21.2020 18:47 | |

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# Certificate of Analytical Results 681980

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State 2-6 Flowline

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **FS26** | Matrix: | Soil | Date Received: | 12.21.2020 10:46 |
| Lab Sample Id: | 681980-011 | Date Collected: | 12.17.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Chloride by EPA 300 | | | Prep Method: | E300P |
| Tech: | SPC | | | | |
| Analyst: | SPC | Date Prep: | 12.21.2020 17:40 | % Moisture: | |
| Seq Number: | 3145645 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Chloride | 16887-00-6 | <4.96 | 4.96 | mg/kg | 12.21.2020 19:56 | U | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | | |
| Analyst: | ARM | Date Prep: | 12.22.2020 10:00 | % Moisture: | |
| Seq Number: | 3146083 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 12.24.2020 16:50 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 12.24.2020 16:50 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 12.24.2020 16:50 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 12.24.2020 16:50 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 89 | % | 70-130 | 12.24.2020 16:50 | |
| o-Terphenyl | 84-15-1 | 97 | % | 70-130 | 12.24.2020 16:50 | |

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# Certificate of Analytical Results 681980

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State 2-6 Flowline

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **FS26** | Matrix: | Soil | Date Received: | 12.21.2020 10:46 |
| Lab Sample Id: | 681980-011 | Date Collected: | 12.17.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | | |
| Analyst: | KTL | Date Prep: | 12.21.2020 13:00 | % Moisture: | |
| Seq Number: | 3145621 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00198 | 0.00198 | mg/kg | 12.21.2020 20:10 | U | 1 |
| Toluene | 108-88-3 | <0.00198 | 0.00198 | mg/kg | 12.21.2020 20:10 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00198 | 0.00198 | mg/kg | 12.21.2020 20:10 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00397 | 0.00397 | mg/kg | 12.21.2020 20:10 | U | 1 |
| o-Xylene | 95-47-6 | <0.00198 | 0.00198 | mg/kg | 12.21.2020 20:10 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00198 | 0.00198 | mg/kg | 12.21.2020 20:10 | U | 1 |
| Total BTEX | | <0.00198 | 0.00198 | mg/kg | 12.21.2020 20:10 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 86 | % | 70-130 | 12.21.2020 20:10 | |
| 4-Bromofluorobenzene | 460-00-4 | 101 | % | 70-130 | 12.21.2020 20:10 | |

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## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State 2-6 Flowline

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **FS27** | Matrix: | Soil | Date Received: | 12.21.2020 10:46 |
| Lab Sample Id: | 681980-012 | Date Collected: | 12.17.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Chloride by EPA 300 | | | Prep Method: | E300P |
| Tech: | SPC | | | | |
| Analyst: | SPC | Date Prep: | 12.21.2020 17:40 | % Moisture: | |
| Seq Number: | 3145645 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **30.2** | 4.98 | mg/kg | 12.21.2020 20:02 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | | |
| Analyst: | ARM | Date Prep: | 12.22.2020 10:00 | % Moisture: | |
| Seq Number: | 3146083 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 12.24.2020 17:08 | U | 1 |
| **Diesel Range Organics (DRO)** | C10C28DRO | **76.3** | 49.9 | mg/kg | 12.24.2020 17:08 | | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 12.24.2020 17:08 | U | 1 |
| **Total TPH** | PHC635 | **76.3** | 49.9 | mg/kg | 12.24.2020 17:08 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 85 | % | 70-130 | 12.24.2020 17:08 | |
| o-Terphenyl | 84-15-1 | 92 | % | 70-130 | 12.24.2020 17:08 | |

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# Certificate of Analytical Results 681980

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State 2-6 Flowline

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **FS27** | Matrix: | Soil | Date Received: | 12.21.2020 10:46 |
| Lab Sample Id: | 681980-012 | Date Collected: | 12.17.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | | |
| Analyst: | KTL | Date Prep: | 12.21.2020 13:00 | % Moisture: | |
| Seq Number: | 3145621 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00198 | 0.00198 | mg/kg | 12.21.2020 20:30 | U | 1 |
| Toluene | 108-88-3 | <0.00198 | 0.00198 | mg/kg | 12.21.2020 20:30 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00198 | 0.00198 | mg/kg | 12.21.2020 20:30 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00396 | 0.00396 | mg/kg | 12.21.2020 20:30 | U | 1 |
| o-Xylene | 95-47-6 | <0.00198 | 0.00198 | mg/kg | 12.21.2020 20:30 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00198 | 0.00198 | mg/kg | 12.21.2020 20:30 | U | 1 |
| Total BTEX | | <0.00198 | 0.00198 | mg/kg | 12.21.2020 20:30 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 114 | % | 70-130 | 12.21.2020 20:30 | |
| 1,4-Difluorobenzene | 540-36-3 | 91 | % | 70-130 | 12.21.2020 20:30 | |

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# Certificate of Analytical Results 681980

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State 2-6 Flowline

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **FS28** | Matrix: | Soil | Date Received: | 12.21.2020 10:46 |
| Lab Sample Id: | 681980-013 | Date Collected: | 12.17.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Chloride by EPA 300 | | | Prep Method: | E300P |
| Tech: | SPC | | | | |
| Analyst: | SPC | Date Prep: | 12.21.2020 17:40 | % Moisture: | |
| Seq Number: | 3145645 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Chloride | 16887-00-6 | <4.98 | 4.98 | mg/kg | 12.21.2020 20:07 | U | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | | |
| Analyst: | ARM | Date Prep: | 12.22.2020 10:00 | % Moisture: | |
| Seq Number: | 3146083 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 12.24.2020 17:26 | U | 1 |
| **Diesel Range Organics (DRO)** | C10C28DRO | **241** | 50.0 | mg/kg | 12.24.2020 17:26 | | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 12.24.2020 17:26 | U | 1 |
| **Total TPH** | PHC635 | **241** | 50.0 | mg/kg | 12.24.2020 17:26 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 90 | % | 70-130 | 12.24.2020 17:26 | |
| o-Terphenyl | 84-15-1 | 101 | % | 70-130 | 12.24.2020 17:26 | |

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# Certificate of Analytical Results 681980

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State 2-6 Flowline

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **FS28** | Matrix: | Soil | Date Received: | 12.21.2020 10:46 |
| Lab Sample Id: | 681980-013 | Date Collected: | 12.17.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | | |
| Analyst: | KTL | Date Prep: | 12.21.2020 13:00 | % Moisture: | |
| Seq Number: | 3145621 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00201 | 0.00201 | mg/kg | 12.21.2020 20:51 | U | 1 |
| **Toluene** | 108-88-3 | **0.00201** | 0.00201 | mg/kg | 12.21.2020 20:51 | | 1 |
| **Ethylbenzene** | 100-41-4 | **0.00228** | 0.00201 | mg/kg | 12.21.2020 20:51 | | 1 |
| **m,p-Xylenes** | 179601-23-1 | **0.00581** | 0.00402 | mg/kg | 12.21.2020 20:51 | | 1 |
| **o-Xylene** | 95-47-6 | **0.00545** | 0.00201 | mg/kg | 12.21.2020 20:51 | | 1 |
| **Total Xylenes** | 1330-20-7 | **0.0113** | 0.00201 | mg/kg | 12.21.2020 20:51 | | 1 |
| **Total BTEX** | | **0.0156** | 0.00201 | mg/kg | 12.21.2020 20:51 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 90 | % | 70-130 | 12.21.2020 20:51 | |
| 4-Bromofluorobenzene | 460-00-4 | 109 | % | 70-130 | 12.21.2020 20:51 | |

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# Certificate of Analytical Results 681980

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State 2-6 Flowline

Sample Id: **FS29** Matrix: Soil Date Received:12.21.2020 10:46

Lab Sample Id: 681980-014 Date Collected: 12.17.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: SPC

Analyst: SPC Date Prep: 12.21.2020 17:40 % Moisture:

Seq Number: 3145645 Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **39.8** | 4.97 | mg/kg | 12.21.2020 20:12 | | 1 |

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 12.22.2020 10:00 % Moisture:

Seq Number: 3146083 Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 12.24.2020 17:44 | U | 1 |
| **Diesel Range Organics (DRO)** | C10C28DRO | **217** | 49.9 | mg/kg | 12.24.2020 17:44 | | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 12.24.2020 17:44 | U | 1 |
| **Total TPH** | PHC635 | **217** | 49.9 | mg/kg | 12.24.2020 17:44 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 84 | % | 70-130 | 12.24.2020 17:44 | |
| o-Terphenyl | 84-15-1 | 94 | % | 70-130 | 12.24.2020 17:44 | |

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# Certificate of Analytical Results 681980

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State 2-6 Flowline

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **FS29** | Matrix: | Soil | Date Received: | 12.21.2020 10:46 |
| Lab Sample Id: | 681980-014 | Date Collected: | 12.17.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | | |
| Analyst: | KTL | Date Prep: | 12.21.2020 13:00 | % Moisture: | |
| Seq Number: | 3145621 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 12.21.2020 21:12 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 12.21.2020 21:12 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 12.21.2020 21:12 | U | 1 |
| **m,p-Xylenes** | 179601-23-1 | **0.00931** | 0.00401 | mg/kg | 12.21.2020 21:12 | | 1 |
| **o-Xylene** | 95-47-6 | **0.00507** | 0.00200 | mg/kg | 12.21.2020 21:12 | | 1 |
| **Total Xylenes** | 1330-20-7 | **0.0144** | 0.00200 | mg/kg | 12.21.2020 21:12 | | 1 |
| **Total BTEX** | | **0.0144** | 0.00200 | mg/kg | 12.21.2020 21:12 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 136 | % | 70-130 | 12.21.2020 21:12 | ** |
| 1,4-Difluorobenzene | 540-36-3 | 87 | % | 70-130 | 12.21.2020 21:12 | |

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# Certificate of Analytical Results 681980

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State 2-6 Flowline

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **FS30** | Matrix: | Soil | Date Received: | 12.21.2020 10:46 |
| Lab Sample Id: | 681980-015 | Date Collected: | 12.17.2020 00:00 | | |
| Analytical Method: | Chloride by EPA 300 | | | Prep Method: | E300P |
| Tech: | SPC | | | | |
| Analyst: | SPC | Date Prep: | 12.21.2020 17:40 | % Moisture: | |
| Seq Number: | 3145645 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **71.0** | 5.03 | mg/kg | 12.21.2020 20:17 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | | |
| Analyst: | ARM | Date Prep: | 12.22.2020 10:00 | % Moisture: | |
| Seq Number: | 3146083 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.8 | 49.8 | mg/kg | 12.24.2020 18:02 | U | 1 |
| **Diesel Range Organics (DRO)** | C10C28DRO | **184** | 49.8 | mg/kg | 12.24.2020 18:02 | | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.8 | 49.8 | mg/kg | 12.24.2020 18:02 | U | 1 |
| **Total TPH** | PHC635 | **184** | 49.8 | mg/kg | 12.24.2020 18:02 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 85 | % | 70-130 | 12.24.2020 18:02 | |
| o-Terphenyl | 84-15-1 | 97 | % | 70-130 | 12.24.2020 18:02 | |

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# Certificate of Analytical Results 681980

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State 2-6 Flowline

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **FS30** | Matrix: | Soil | Date Received: | 12.21.2020 10:46 |
| Lab Sample Id: | 681980-015 | Date Collected: | 12.17.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | | |
| Analyst: | KTL | Date Prep: | 12.21.2020 13:00 | % Moisture: | |
| Seq Number: | 3145621 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 12.21.2020 21:32 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 12.21.2020 21:32 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 12.21.2020 21:32 | U | 1 |
| **m,p-Xylenes** | 179601-23-1 | **0.00693** | 0.00398 | mg/kg | 12.21.2020 21:32 | | 1 |
| **o-Xylene** | 95-47-6 | **0.00625** | 0.00199 | mg/kg | 12.21.2020 21:32 | | 1 |
| **Total Xylenes** | 1330-20-7 | **0.0132** | 0.00199 | mg/kg | 12.21.2020 21:32 | | 1 |
| **Total BTEX** | | **0.0132** | 0.00199 | mg/kg | 12.21.2020 21:32 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 132 | % | 70-130 | 12.21.2020 21:32 | ** |
| 1,4-Difluorobenzene | 540-36-3 | 94 | % | 70-130 | 12.21.2020 21:32 | |

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# Certificate of Analytical Results 681980

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State 2-6 Flowline

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **FS31** | Matrix: | Soil | Date Received: | 12.21.2020 10:46 |
| Lab Sample Id: | 681980-016 | Date Collected: | 12.17.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Chloride by EPA 300 | | | Prep Method: | E300P |
| Tech: | SPC | | | | |
| Analyst: | SPC | Date Prep: | 12.22.2020 15:00 | % Moisture: | |
| Seq Number: | 3145820 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **83.4** | 5.02 | mg/kg | 12.22.2020 15:28 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | | |
| Analyst: | ARM | Date Prep: | 12.22.2020 10:00 | % Moisture: | |
| Seq Number: | 3146083 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 12.24.2020 18:21 | U | 1 |
| **Diesel Range Organics (DRO)** | C10C28DRO | **142** | 50.0 | mg/kg | 12.24.2020 18:21 | | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 12.24.2020 18:21 | U | 1 |
| **Total TPH** | PHC635 | **142** | 50.0 | mg/kg | 12.24.2020 18:21 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 86 | % | 70-130 | 12.24.2020 18:21 | |
| o-Terphenyl | 84-15-1 | 96 | % | 70-130 | 12.24.2020 18:21 | |

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# Certificate of Analytical Results 681980

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State 2-6 Flowline

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **FS31** | Matrix: | Soil | Date Received: | 12.21.2020 10:46 |
| Lab Sample Id: | 681980-016 | Date Collected: | 12.17.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | | |
| Analyst: | KTL | Date Prep: | 12.21.2020 13:00 | % Moisture: | |
| Seq Number: | 3145621 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00201 | 0.00201 | mg/kg | 12.21.2020 21:53 | U | 1 |
| Toluene | 108-88-3 | <0.00201 | 0.00201 | mg/kg | 12.21.2020 21:53 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00201 | 0.00201 | mg/kg | 12.21.2020 21:53 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00402 | 0.00402 | mg/kg | 12.21.2020 21:53 | U | 1 |
| o-Xylene | 95-47-6 | <0.00201 | 0.00201 | mg/kg | 12.21.2020 21:53 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00201 | 0.00201 | mg/kg | 12.21.2020 21:53 | U | 1 |
| Total BTEX | | <0.00201 | 0.00201 | mg/kg | 12.21.2020 21:53 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 118 | % | 70-130 | 12.21.2020 21:53 | |
| 1,4-Difluorobenzene | 540-36-3 | 90 | % | 70-130 | 12.21.2020 21:53 | |

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# Certificate of Analytical Results 681980

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State 2-6 Flowline

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **FS32** | Matrix: | Soil | Date Received: | 12.21.2020 10:46 |
| Lab Sample Id: | 681980-017 | Date Collected: | 12.17.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Chloride by EPA 300 | | | Prep Method: | E300P |
| Tech: | SPC | | | | |
| Analyst: | SPC | Date Prep: | 12.22.2020 15:00 | % Moisture: | |
| Seq Number: | 3145820 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **96.9** | 4.97 | mg/kg | 12.22.2020 15:46 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | | |
| Analyst: | ARM | Date Prep: | 12.22.2020 10:00 | % Moisture: | |
| Seq Number: | 3146083 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 12.24.2020 18:39 | U | 1 |
| **Diesel Range Organics (DRO)** | C10C28DRO | **374** | 50.0 | mg/kg | 12.24.2020 18:39 | | 1 |
| **Motor Oil Range Hydrocarbons (MRO)** | PHCG2835 | **55.4** | 50.0 | mg/kg | 12.24.2020 18:39 | | 1 |
| **Total TPH** | PHC635 | **429** | 50.0 | mg/kg | 12.24.2020 18:39 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 85 | % | 70-130 | 12.24.2020 18:39 | |
| o-Terphenyl | 84-15-1 | 98 | % | 70-130 | 12.24.2020 18:39 | |

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# Certificate of Analytical Results 681980

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State 2-6 Flowline

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **FS32** | Matrix: | Soil | Date Received: | 12.21.2020 10:46 |
| Lab Sample Id: | 681980-017 | Date Collected: | 12.17.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | | |
| Analyst: | KTL | Date Prep: | 12.21.2020 13:00 | % Moisture: | |
| Seq Number: | 3145621 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00202 | 0.00202 | mg/kg | 12.21.2020 22:13 | U | 1 |
| Toluene | 108-88-3 | <0.00202 | 0.00202 | mg/kg | 12.21.2020 22:13 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00202 | 0.00202 | mg/kg | 12.21.2020 22:13 | U | 1 |
| **m,p-Xylenes** | 179601-23-1 | **0.00949** | 0.00403 | mg/kg | 12.21.2020 22:13 | | 1 |
| **o-Xylene** | 95-47-6 | **0.00534** | 0.00202 | mg/kg | 12.21.2020 22:13 | | 1 |
| **Total Xylenes** | 1330-20-7 | **0.0148** | 0.00202 | mg/kg | 12.21.2020 22:13 | | 1 |
| **Total BTEX** | | **0.0148** | 0.00202 | mg/kg | 12.21.2020 22:13 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 102 | % | 70-130 | 12.21.2020 22:13 | |
| 4-Bromofluorobenzene | 460-00-4 | 86 | % | 70-130 | 12.21.2020 22:13 | |

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# Certificate of Analytical Results 681980

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State 2-6 Flowline

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **FS33** | Matrix: | Soil | Date Received: | 12.21.2020 10:46 |
| Lab Sample Id: | 681980-018 | Date Collected: | 12.17.2020 00:00 | | |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Chloride by EPA 300 | | | Prep Method: | E300P |
| Tech: | SPC | | | | |
| Analyst: | SPC | Date Prep: | 12.22.2020 15:00 | % Moisture: | |
| Seq Number: | 3145820 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **22.1** | 4.97 | mg/kg | 12.22.2020 15:51 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | | |
| Analyst: | ARM | Date Prep: | 12.22.2020 10:00 | % Moisture: | |
| Seq Number: | 3146083 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 12.24.2020 18:57 | U | 1 |
| **Diesel Range Organics (DRO)** | C10C28DRO | **89.2** | 50.0 | mg/kg | 12.24.2020 18:57 | | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 12.24.2020 18:57 | U | 1 |
| **Total TPH** | PHC635 | **89.2** | 50.0 | mg/kg | 12.24.2020 18:57 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 84 | % | 70-130 | 12.24.2020 18:57 | |
| o-Terphenyl | 84-15-1 | 94 | % | 70-130 | 12.24.2020 18:57 | |

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# Certificate of Analytical Results 681980

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State 2-6 Flowline

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **FS33** | Matrix: | Soil | Date Received: | 12.21.2020 10:46 |
| Lab Sample Id: | 681980-018 | Date Collected: | 12.17.2020 00:00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | KTL | | | | |
| Analyst: | KTL | Date Prep: | 12.21.2020 13:00 | % Moisture: | |
| Seq Number: | 3145621 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 12.21.2020 22:34 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 12.21.2020 22:34 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 12.21.2020 22:34 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00399 | 0.00399 | mg/kg | 12.21.2020 22:34 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 12.21.2020 22:34 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 12.21.2020 22:34 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 12.21.2020 22:34 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 124 | % | 70-130 | 12.21.2020 22:34 | |
| 1,4-Difluorobenzene | 540-36-3 | 88 | % | 70-130 | 12.21.2020 22:34 | |

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# Flagging Criteria

**X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

**B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

**D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

**E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

**F** RPD exceeded lab control limits.

**J** The target analyte was positively identified below the quantitation limit and above the detection limit.

**U** Analyte was not detected.

**L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

**H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

**K** Sample analyzed outside of recommended hold time.

**JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

**BRL** Below Reporting Limit. **ND** Not Detected.

**RL** Reporting Limit

**MDL** Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

**PQL** Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

**DL** Method Detection Limit

**NC** Non-Calculable

**SMP** Client Sample **BLK** Method Blank

**BKS/LCS** Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

**MD/SD** Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

# QC Summary 681980



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## Etech Environmental & Safety Solution, Inc

NM DW State 2-6 Flowline

**Analytical Method:** Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3145645 — Matrix: Solid — Date Prep: 12.21.2020
MB Sample Id: 7717612-1-BLK — LCS Sample Id: 7717612-1-BKS — LCSD Sample Id: 7717612-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | <5.00 | 250 | 264 | 106 | 263 | 105 | 90-110 | 0 | 20 | mg/kg | 12.21.2020 17:46 | |

**Analytical Method:** Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3145820 — Matrix: Solid — Date Prep: 12.22.2020
MB Sample Id: 7717690-1-BLK — LCS Sample Id: 7717690-1-BKS — LCSD Sample Id: 7717690-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | <5.00 | 250 | 255 | 102 | 254 | 102 | 90-110 | 0 | 20 | mg/kg | 12.22.2020 15:15 | |

**Analytical Method:** Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3145645 — Matrix: Soil — Date Prep: 12.21.2020
Parent Sample Id: 681854-001 — MS Sample Id: 681854-001 S — MSD Sample Id: 681854-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 204 | 252 | 448 | 97 | 445 | 96 | 90-110 | 1 | 20 | mg/kg | 12.21.2020 18:02 | |

**Analytical Method:** Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3145645 — Matrix: Soil — Date Prep: 12.21.2020
Parent Sample Id: 681980-006 — MS Sample Id: 681980-006 S — MSD Sample Id: 681980-006 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | <4.98 | 249 | 247 | 99 | 240 | 96 | 90-110 | 3 | 20 | mg/kg | 12.21.2020 19:15 | |

**Analytical Method:** Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3145820 — Matrix: Soil — Date Prep: 12.22.2020
Parent Sample Id: 681980-016 — MS Sample Id: 681980-016 S — MSD Sample Id: 681980-016 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 83.4 | 251 | 335 | 100 | 333 | 99 | 90-110 | 1 | 20 | mg/kg | 12.22.2020 15:34 | |

**Analytical Method:** Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3145820 — Matrix: Soil — Date Prep: 12.22.2020
Parent Sample Id: 681981-012 — MS Sample Id: 681981-012 S — MSD Sample Id: 681981-012 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 198 | 248 | 432 | 94 | 430 | 94 | 90-110 | 0 | 20 | mg/kg | 12.22.2020 16:51 | |

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

# QC Summary 681980



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## Etech Environmental & Safety Solution, Inc

NM DW State 2-6 Flowline

**Analytical Method:** TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3146083 — Matrix: Solid — Date Prep: 12.22.2020
MB Sample Id: 7717669-1-BLK — LCS Sample Id: 7717669-1-BKS — LCSD Sample Id: 7717669-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | <50.0 | 1000 | 884 | 88 | 877 | 88 | 70-130 | 1 | 20 | mg/kg | 12.24.2020 10:46 | |
| Diesel Range Organics (DRO) | <50.0 | 1000 | 1010 | 101 | 993 | 99 | 70-130 | 2 | 20 | mg/kg | 12.24.2020 10:46 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|
| 1-Chlorooctane | 86 | | 130 | | 148 | ** | 70-130 | % | 12.24.2020 10:46 |
| o-Terphenyl | 98 | | 101 | | 97 | | 70-130 | % | 12.24.2020 10:46 |

**Analytical Method:** TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3146083 — Matrix: Solid — Date Prep: 12.22.2020
MB Sample Id: 7717669-1-BLK

| Parameter | MB Result | Units | Analysis Date | Flag |
|---|---|---|---|---|
| Motor Oil Range Hydrocarbons (MRO) | <50.0 | mg/kg | 12.24.2020 10:27 | |

**Analytical Method:** TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3146083 — Matrix: Soil — Date Prep: 12.22.2020
Parent Sample Id: 681980-001 — MS Sample Id: 681980-001 S — MSD Sample Id: 681980-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | <49.9 | 997 | 864 | 87 | 925 | 93 | 70-130 | 7 | 20 | mg/kg | 12.24.2020 11:43 | |
| Diesel Range Organics (DRO) | <49.9 | 997 | 1010 | 101 | 1110 | 111 | 70-130 | 9 | 20 | mg/kg | 12.24.2020 11:43 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1-Chlorooctane | 131 | ** | 43 | ** | 70-130 | % | 12.24.2020 11:43 |
| o-Terphenyl | 95 | | 84 | | 70-130 | % | 12.24.2020 11:43 |

**Analytical Method:** BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3145621 — Matrix: Solid — Date Prep: 12.21.2020
MB Sample Id: 7717642-1-BLK — LCS Sample Id: 7717642-1-BKS — LCSD Sample Id: 7717642-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | 0.100 | 0.0966 | 97 | 0.106 | 106 | 70-130 | 9 | 35 | mg/kg | 12.21.2020 13:18 | |
| Toluene | <0.00200 | 0.100 | 0.0963 | 96 | 0.103 | 103 | 70-130 | 7 | 35 | mg/kg | 12.21.2020 13:18 | |
| Ethylbenzene | <0.00200 | 0.100 | 0.0989 | 99 | 0.105 | 105 | 70-130 | 6 | 35 | mg/kg | 12.21.2020 13:18 | |
| m,p-Xylenes | <0.00400 | 0.200 | 0.197 | 99 | 0.209 | 105 | 70-130 | 6 | 35 | mg/kg | 12.21.2020 13:18 | |
| o-Xylene | <0.00200 | 0.100 | 0.0944 | 94 | 0.101 | 101 | 70-130 | 7 | 35 | mg/kg | 12.21.2020 13:18 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 89 | | 95 | | 98 | | 70-130 | % | 12.21.2020 13:18 |
| 4-Bromofluorobenzene | 111 | | 99 | | 102 | | 70-130 | % | 12.21.2020 13:18 |

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

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# QC Summary 681980

## Etech Environmental & Safety Solution, Inc

NM DW State 2-6 Flowline

**Analytical Method:** **BTEX by EPA 8021B** Prep Method: SW5035A

Seq Number: 3145621 Matrix: Soil Date Prep: 12.21.2020

Parent Sample Id: 681980-001 MS Sample Id: 681980-001 S MSD Sample Id: 681980-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | 0.0996 | 0.0911 | 91 | 0.0862 | 87 | 70-130 | 6 | 35 | mg/kg | 12.21.2020 14:00 | |
| Toluene | 0.0102 | 0.0996 | 0.0967 | 87 | 0.100 | 91 | 70-130 | 3 | 35 | mg/kg | 12.21.2020 14:00 | |
| Ethylbenzene | 0.0129 | 0.0996 | 0.0969 | 84 | 0.0933 | 81 | 70-130 | 4 | 35 | mg/kg | 12.21.2020 14:00 | |
| m,p-Xylenes | 0.0178 | 0.199 | 0.190 | 87 | 0.183 | 83 | 70-130 | 4 | 35 | mg/kg | 12.21.2020 14:00 | |
| o-Xylene | 0.00905 | 0.0996 | 0.0925 | 84 | 0.0889 | 81 | 70-130 | 4 | 35 | mg/kg | 12.21.2020 14:00 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 99 | | 101 | | 70-130 | % | 12.21.2020 14:00 |
| 4-Bromofluorobenzene | 107 | | 110 | | 70-130 | % | 12.21.2020 14:00 |

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

# Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300, San Antonio, TX (210) 509-3334
Midland, TX (432) 704-5440, EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900
Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701
Atlanta, GA (770) 449-8800

**Work Order No:** 681980

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| | | | |
|---|---|---|---|
| Project Manager: | Joel Lowry | Bill to: (if different) | Concho |
| Company Name: | Etech Environmental and Safety | Company Name: | |
| Address: | 3100 Plains Hwy | Address: | |
| City, State ZIP: | Lovington, NM, 88260 | City, State ZIP: | |
| Phone: | 575-396-2378 Email: | Email Results to: PM@etechenv.com + Client | |

**Work Order Comments**

Program: UST/PST ☐ PRP ☐ Brownfield ☐ RRC ☐ Superfund ☐
State of Project:
Reporting:Level I ☐ Level ☐ PST/US ☐ TRP ☐ Level ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

| | | | |
|---|---|---|---|
| Project Name: | NM DW State 2-6 Flowline | Turn Around | |
| Project Number: | 13542 | Routine: | X |
| Project Location | Lea County, NM | Rush: | ☐ |
| Sampler's Name: | Matthew Grieco | Due Date: | |
| PO #: | | | |

| SAMPLE RECEIPT | | | |
|---|---|---|---|
| Temp Blank: | Yes No | Wet Ice: | Yes No |
| Temperature (°C): | 2.3 | Thermometer ID | IR8 |
| Received Intact: | Yes No | | |
| Cooler Custody Seals: | Yes No N/A | Correction Factor: | .5 |
| Sample Custody Seals: | Yes No N/A | Total Containers: | |

| Sample Identification | Matrix | Date Sampled | Time Sampled | Depth | Number of Containers/Preservative Code | BTEX (8021) | TPH (Modified Ext.) | Cl- (E300) |
|---|---|---|---|---|---|---|---|---|
| NW7 | Soil | 12/17/2020 | | | 1/NO | X | X | X |
| NW8 | Soil | 12/17/2020 | | | 1/NO | X | X | X |
| SW5 | Soil | 12/17/2020 | | | 1/NO | X | X | X |
| SW6 | Soil | 12/17/2020 | | | 1/NO | X | X | X |
| EW1 | Soil | 12/17/2020 | | | 1/NO | X | X | X |
| FS21 | Soil | 12/17/2020 | | | 1/NO | X | X | X |
| FS22 | Soil | 12/17/2020 | | | 1/NO | X | X | X |
| FS23 | Soil | 12/17/2020 | | | 1/NO | X | X | X |
| FS24 | Soil | 12/17/2020 | | | 1/NO | X | X | X |
| FS25 | Soil | 12/17/2020 | | | 1/NO | X | X | X |

**Preservative Codes**

HNO3: HN
H2S04: H2
HCL: HL
None: NO
NaOH: Na
MeOH: Me
Zn Acetate+ NaOH: Zn

TAT starts the day recevied by the lab, if received by 4:30pm

**Sample Comments**

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U 1631 / 245.1 / 7470 / 7471 : Hg



| Relinquished by: (Signature) | Received by: (Signature) | Date/Time | Relinquished by: (Signature) | Received by: (Signature) | Date/Time |
|---|---|---|---|---|---|
| 1 | Armida Bustillo | 1:45 / 12-18 | 2 | | |
| 3 | | | 4 | | |
| 5 | | | 6 | | |

# Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300, San Antonio, TX (210) 509-3334
Midland, TX (432) 704-5440, EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900
Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701
Atlanta, GA (770) 449-8800

Work Order No: 681980 ~~681987~~

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| | | | |
|---|---|---|---|
| Project Manager: | Joel Lowry | Bill to: (if different) | Concho |
| Company Name: | Etech Environmental and Safety | Company Name: | |
| Address: | 3100 Plains Hwy | Address: | |
| City, State ZIP: | Lovington, NM, 88260 | City, State ZIP: | |
| Phone: | 575-396-2378 | Email: | Email Results to: PM@etechenv.com + Client |

**Work Order Comments**

Program: UST/PST ☐ PRP ☐ Brownfield ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level I ☐ Level II ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

| | | | |
|---|---|---|---|
| Project Name: | NM DW State 2-6 Flowline | Turn Around | |
| Project Number: | 13542 | Routine: | ☒ |
| Project Location | Lea County, NM | Rush: | ☐ |
| Sampler's Name: | Matthew Grieco | Due Date: | |
| PO #: | | | |

| SAMPLE RECEIPT | | | | |
|---|---|---|---|---|
| Temperature (°C): | 2.5 | Temp Blank: Yes No | Wet Ice: Yes No | |
| Received Intact: | Yes No | Thermometer ID | BS | |
| Cooler Custody Seals: | Yes No N/A | Correction Factor: | .5 | |
| Sample Custody Seals: | Yes No N/A | Total Containers: | | |

**ANALYSIS REQUEST**

**Preservative Codes**

HNO3: HN
H2S04: H2
HCL: HL
None: NO
NaOH: Na
MeOH: Me
Zn Acetate+ NaOH: Zn

TAT starts the day recevied by the lab, if received by 4:30pm

| Sample Identification | Matrix | Date Sampled | Time Sampled | Depth | Number of Containers/Preservative Code | BTEX (8021) | TPH (Modified Ext.) | Cl- (E300) | Sample Comments |
|---|---|---|---|---|---|---|---|---|---|
| FS26 | Soil | 12/17/2020 | | | 1/NO | X | X | X | |
| FS27 | Soil | 12/17/2020 | | | 1/NO | X | X | X | |
| FS28 | Soil | 12/17/2020 | | | 1/NO | X | X | X | |
| FS29 | Soil | 12/17/2020 | | | 1/NO | X | X | X | |
| FS30 | Soil | 12/17/2020 | | | 1/NO | X | X | X | |
| FS31 | Soil | 12/17/2020 | | | 1/NO | X | X | X | |
| FS32 | Soil | 12/17/2020 | | | 1/NO | X | X | X | |
| FS33 | Soil | 12/17/2020 | | | 1/NO | X | X | X | |
| | | | | | | | | | |
| | | | | | | | | | |

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM ~~Texas 11~~ Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

*Circle Method(s) and Metal(s) to be analyzed* TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U 1631 / 245.1 / 7470 / 7471 : Hg



| Relinquished by: (Signature) | Received by: (Signature) | Date/Time | Relinquished by: (Signature) | Received by: (Signature) | Date/Time |
|---|---|---|---|---|---|
| 1 | Armida Bustillo | 1:45 / 12-18 | 2 | | |
| 3 | | | 4 | | |
| 5 | | | 6 | | |

# Eurofins Xenco, LLC

## Prelogin/Nonconformance Report- Sample Log-In

**Client:** Etech Environmental & Safety Solution, I

**Date/ Time Received:** 12.21.2020 10.46.04 AM

**Work Order #:** 681980

**Acceptable Temperature Range: 0 - 6 degC**
**Air and Metal samples Acceptable Range: Ambient**

**Temperature Measuring device used : IR8**

| Sample Receipt Checklist | Comments |
|---|---|
| #1 *Temperature of cooler(s)? | 2.5 |
| #2 *Shipping container in good condition? | **Yes** |
| #3 *Samples received on ice? | **Yes** |
| #4 *Custody Seals intact on shipping container/ cooler? | **N/A** |
| #5 Custody Seals intact on sample bottles? | **N/A** |
| #6*Custody Seals Signed and dated? | **N/A** |
| #7 *Chain of Custody present? | **Yes** |
| #8 Any missing/extra samples? | **No** |
| #9 Chain of Custody signed when relinquished/ received? | **Yes** |
| #10 Chain of Custody agrees with sample labels/matrix? | **Yes** |
| #11 Container label(s) legible and intact? | **Yes** |
| #12 Samples in proper container/ bottle? | **Yes** |
| #13 Samples properly preserved? | **Yes** |
| #14 Sample container(s) intact? | **Yes** |
| #15 Sufficient sample amount for indicated test(s)? | **Yes** |
| #16 All samples received within hold time? | **Yes** |
| #17 Subcontract of sample(s)? | **N/A** |
| #18 Water VOC samples have zero headspace? | **N/A** |

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst: PH Device/Lot#:

**Checklist completed by:** Brianna Teel Date: 12.21.2020
Brianna Teel

**Checklist reviewed by:** Jessica Kramer Date: 12.23.2020
Jessica Kramer

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# Certificate of Analysis Summary 684100

## Etech Environmental & Safety Solution, Inc, Midland, TX

### Project Name: NMDW State No. 2-6 Flowline

**Project Id:** 13542
**Contact:** PM
**Project Location:** Rural Lea County, NM

**Date Received in Lab:** Mon 01.11.2021 11:27
**Report Date:** 01.12.2021 14:39
**Project Manager:** Jessica Kramer

| *Analysis Requested* | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | ***Lab Id:*** | 684100-001 | | | | | | |
| | ***Field Id:*** | FS2C | | | | | | |
| | ***Depth:*** | | | | | | | |
| | ***Matrix:*** | SOIL | | | | | | |
| | ***Sampled:*** | 01.08.2021 00:00 | | | | | | |
| **TPH by SW8015 Mod** | ***Extracted:*** | 01.11.2021 12:00 | | | | | | |
| | ***Analyzed:*** | 01.11.2021 12:54 | | | | | | |
| | ***Units/RL:*** | mg/kg | RL | | | | | |
| Gasoline Range Hydrocarbons (GRO) | | <50.0 | 50.0 | | | | | |
| Diesel Range Organics (DRO) | | 146 | 50.0 | | | | | |
| Motor Oil Range Hydrocarbons (MRO) | | <50.0 | 50.0 | | | | | |
| Total TPH | | 146 | 50.0 | | | | | |

BRL - Below Reporting Limit

Jessica Kramer

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

eurofins | Environment Testing Xenco

# Analytical Report 684100

## for

## Etech Environmental & Safety Solution, Inc

**Project Manager: PM**

**NMDW State No. 2-6 Flowline**

**13542**

**01.12.2021**

Collected By: Client

**1211 W. Florida Ave**
**Midland TX 79701**

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-24)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-20-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)

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01.12.2021

Project Manager: **PM**
**Etech Environmental & Safety Solution, Inc**
P.O. Box 62228
Midland, TX 79711

Reference: Eurofins Xenco, LLC Report No(s): **684100**
**NMDW State No. 2-6 Flowline**
Project Address: Rural Lea County, NM

**PM** :

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 684100. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 684100 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

**Jessica Kramer**
Project Manager

*A Small Business and Minority Company*

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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# Sample Cross Reference 684100

## Etech Environmental & Safety Solution, Inc, Midland, TX

NMDW State No. 2-6 Flowline

| Sample Id | Matrix | Date Collected | Sample Depth | Lab Sample Id |
|---|---|---|---|---|
| FS2C | S | 01.08.2021 00:00 | | 684100-001 |

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# CASE NARRATIVE

***Client Name: Etech Environmental & Safety Solution, Inc***

***Project Name: NMDW State No. 2-6 Flowline***

Project ID: *13542*
Work Order Number(s): *684100*

Report Date: *01.12.2021*
Date Received: *01.11.2021*

**Sample receipt non conformances and comments:**

**Sample receipt non conformances and comments per sample:**

None

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# Certificate of Analytical Results 684100

## Etech Environmental & Safety Solution, Inc, Midland, TX

NMDW State No. 2-6 Flowline

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **FS2C** | Matrix: | Soil | Date Received: | 01.11.2021 11:27 |
| Lab Sample Id: | 684100-001 | Date Collected: | 01.08.2021 00:00 | | |
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | | |
| Analyst: | ARM | Date Prep: | 01.11.2021 12:00 | % Moisture: | |
| Seq Number: | 3147507 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 01.11.2021 12:54 | U | 1 |
| **Diesel Range Organics (DRO)** | C10C28DRO | **146** | 50.0 | mg/kg | 01.11.2021 12:54 | | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 01.11.2021 12:54 | U | 1 |
| **Total TPH** | PHC635 | **146** | 50.0 | mg/kg | 01.11.2021 12:54 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 95 | % | 70-130 | 01.11.2021 12:54 | |
| o-Terphenyl | 84-15-1 | 103 | % | 70-130 | 01.11.2021 12:54 | |

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# Flagging Criteria

**X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

**B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

**D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

**E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

**F** RPD exceeded lab control limits.

**J** The target analyte was positively identified below the quantitation limit and above the detection limit.

**U** Analyte was not detected.

**L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

**H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

**K** Sample analyzed outside of recommended hold time.

**JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

**BRL** Below Reporting Limit. **ND** Not Detected.

**RL** Reporting Limit

**MDL** Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

**PQL** Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

**DL** Method Detection Limit

**NC** Non-Calculable

**SMP** Client Sample **BLK** Method Blank

**BKS/LCS** Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

**MD/SD** Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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# QC Summary 684100

## Etech Environmental & Safety Solution, Inc

NMDW State No. 2-6 Flowline

**Analytical Method:** **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3147507 Matrix: Solid Date Prep: 01.11.2021
MB Sample Id: 7718946-1-BLK LCS Sample Id: 7718946-1-BKS LCSD Sample Id: 7718946-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | <50.0 | 1000 | 830 | 83 | 860 | 86 | 70-130 | 4 | 20 | mg/kg | 01.11.2021 12:12 | |
| Diesel Range Organics (DRO) | <50.0 | 1000 | 910 | 91 | 910 | 91 | 70-130 | 0 | 20 | mg/kg | 01.11.2021 12:12 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|
| 1-Chlorooctane | 90 | | 100 | | 98 | | 70-130 | % | 01.11.2021 12:12 |
| o-Terphenyl | 98 | | 99 | | 100 | | 70-130 | % | 01.11.2021 12:12 |

**Analytical Method:** **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3147507 Matrix: Solid Date Prep: 01.11.2021
MB Sample Id: 7718946-1-BLK

| Parameter | MB Result | Units | Analysis Date | Flag |
|---|---|---|---|---|
| Motor Oil Range Hydrocarbons (MRO) | <50.0 | mg/kg | 01.11.2021 11:51 | |

**Analytical Method:** **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3147507 Matrix: Soil Date Prep: 01.11.2021
Parent Sample Id: 684100-001 MS Sample Id: 684100-001 S MSD Sample Id: 684100-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | <49.9 | 997 | 923 | 93 | 963 | 97 | 70-130 | 4 | 20 | mg/kg | 01.11.2021 13:16 | |
| Diesel Range Organics (DRO) | 146 | 997 | 1100 | 96 | 1110 | 97 | 70-130 | 1 | 20 | mg/kg | 01.11.2021 13:16 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1-Chlorooctane | 102 | | 102 | | 70-130 | % | 01.11.2021 13:16 |
| o-Terphenyl | 100 | | 102 | | 70-130 | % | 01.11.2021 13:16 |

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

XENCO

# Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300, San Antonio, TX (210) 509-3334
Midland, TX (432) 704-5440, EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900
Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701
Atlanta, GA (770) 449-8800

Work Order No: 664100

www.xenco.com Page 1 of 1

| | | | |
|---|---|---|---|
| Project Manager: | Joel Lowry | Bill to: (if different) | |
| Company Name: | Etech Environmental & Safety | Company Name: | COG |
| Address: | 3100 Plains Highway | Address: | |
| City, State ZIP: | Lovington, NM, 88260 | City, State ZIP: | |
| Phone: | 575-396-2378 | Email: | Email Results to PM@etechenv.com + Client |
| Project Name: | NMDW State No. 2-6 Flowline | Turn Around | |
| Project Number: | 13542 | Routine: | |
| Project Location | Rural Lea County, NM | Rush: | ✓ |
| Sampler's Name: | Miguel Ramirez | Due Date: | |
| PO #: | | | |

**Work Order Comments**

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level I ☐ Level II ☐ PST/US ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

| SAMPLE RECEIPT | | | |
|---|---|---|---|
| Temperature (°C): | 1.5 / 2.0 | Temp Blank: Yes (No) | Wet Ice: (Yes) No |
| Received Intact: | (Yes) No | Thermometer ID | DC-6 |
| Cooler Custody Seals: | Yes No (N/A) | Correction Factor: | +0.5 |
| Sample Custody Seals: | Yes No (N/A) | Total Containers: | |

**ANALYSIS REQUEST**

| Sample Identification | Matrix | Date Sampled | Time Sampled | Depth | Number of Containers/Preservative Code | Chloride E300 | BTEX 8021 | TPH Modified Ext | TPH TX1005 |
|---|---|---|---|---|---|---|---|---|---|
| FS2C | S | 1-8-21 | 1400 | - | | | | ✓ | |

**Preservative Codes**

HNO3: HN
H2S04: H2
HCL: HL
None: NO
NaOH: Na
MeOH: Me
Zn Acetate+ NaOH: Zn

TAT starts the day recevied by the lab, if received by 4:30pm

**Sample Comments**

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U 1631 / 245.1 / 7470 / 7471 : Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of $75.00 will be applied to each project and a charge of $5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

| | Relinquished by: (Signature) | Received by: (Signature) | Date/Time | | Relinquished by: (Signature) | Received by: (Signature) | Date/Time |
|---|---|---|---|---|---|---|---|
| 1 | | | 1-8-21 1452 | 2 | | | 1/11/21 |
| 3 | | | | 4 | | | 1107 |
| 5 | | | | 6 | | | |

Revised Date 08.14.19 Rev. 2019.1


ORIGIN ID:HOBA
MAIL SERVICES ETC
4008 N GRIMES
HOBBS, NM 88240
UNITED STATES US
TO XENCO HOLD FOR PICKUP
FEDEX OFFICE PRINT & SHIP CENTER
FEDEX OFFICE PRINT & SHIP CENTER
200 W INTERSTATE 20
MIDLAND TX 79701
(432) 704-5440
INV:
PO:
DEPT:
REF:
TRK# 9401 5656 1889
0201
41 MAFA
SATURDAY H
PRIORITY OVERNIG
MAFK
LBL
TX-US
BILL RECIPIENT
SHIP DATE: 05MAR21
ACTWGT: 5
CAD: 0103935
DIMS: 13X11X2

# Eurofins Xenco, LLC

## Prelogin/Nonconformance Report- Sample Log-In

**Client:** Etech Environmental & Safety Solution, I

**Date/ Time Received:** 01.11.2021 11.27.00 AM

**Work Order #:** 684100

**Acceptable Temperature Range: 0 - 6 degC**
**Air and Metal samples Acceptable Range: Ambient**

**Temperature Measuring device used : IR8**

| Sample Receipt Checklist | Comments |
|---|---|
| #1 *Temperature of cooler(s)? | 2 |
| #2 *Shipping container in good condition? | **Yes** |
| #3 *Samples received on ice? | **Yes** |
| #4 *Custody Seals intact on shipping container/ cooler? | **N/A** |
| #5 Custody Seals intact on sample bottles? | **N/A** |
| #6*Custody Seals Signed and dated? | **N/A** |
| #7 *Chain of Custody present? | **Yes** |
| #8 Any missing/extra samples? | **No** |
| #9 Chain of Custody signed when relinquished/ received? | **Yes** |
| #10 Chain of Custody agrees with sample labels/matrix? | **Yes** |
| #11 Container label(s) legible and intact? | **Yes** |
| #12 Samples in proper container/ bottle? | **Yes** |
| #13 Samples properly preserved? | **Yes** |
| #14 Sample container(s) intact? | **Yes** |
| #15 Sufficient sample amount for indicated test(s)? | **Yes** |
| #16 All samples received within hold time? | **Yes** |
| #17 Subcontract of sample(s)? | **N/A** |
| #18 Water VOC samples have zero headspace? | **N/A** |

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst: PH Device/Lot#:

**Checklist completed by:** Brianna Teel Date: 01.11.2021
Brianna Teel

**Checklist reviewed by:** Jessica Kramer Date: 01.11.2021
Jessica Kramer

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# Certificate of Analysis Summary 684641

## Etech Environmental & Safety Solution, Inc, Midland, TX

### Project Name: NM DW State 2-6 Flowline

**Project Id:** 13542
**Contact:** PM
**Project Location:** Lea County, NM

**Date Received in Lab:** Thu 01.14.2021 12:16
**Report Date:** 01.15.2021 11:00
**Project Manager:** Jessica Kramer

| *Analysis Requested* | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | ***Lab Id:*** | 684641-001 | | | | | | |
| | ***Field Id:*** | FS2d @ 4' | | | | | | |
| | ***Depth:*** | 4- ft | | | | | | |
| | ***Matrix:*** | SOIL | | | | | | |
| | ***Sampled:*** | 01.13.2021 00:00 | | | | | | |
| **TPH by SW8015 Mod** | ***Extracted:*** | 01.14.2021 14:00 | | | | | | |
| | ***Analyzed:*** | 01.14.2021 18:29 | | | | | | |
| | ***Units/RL:*** | mg/kg | RL | | | | | |
| Gasoline Range Hydrocarbons (GRO) | | <50.0 | 50.0 | | | | | |
| Diesel Range Organics (DRO) | | <50.0 | 50.0 | | | | | |
| Motor Oil Range Hydrocarbons (MRO) | | <50.0 | 50.0 | | | | | |
| Total TPH | | <50.0 | 50.0 | | | | | |

BRL - Below Reporting Limit

Jessica Kramer

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

eurofins | Environment Testing Xenco

# Analytical Report 684641

## for

## Etech Environmental & Safety Solution, Inc

**Project Manager: PM**

**NM DW State 2-6 Flowline**

**13542**

**01.15.2021**

Collected By: Client

**1211 W. Florida Ave**
**Midland TX 79701**

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-24)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-20-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)

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01.15.2021

Project Manager: **PM**
**Etech Environmental & Safety Solution, Inc**
P.O. Box 62228
Midland, TX 79711

Reference: Eurofins Xenco, LLC Report No(s): **684641**
**NM DW State 2-6 Flowline**
Project Address: Lea County, NM

**PM** :

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 684641. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 684641 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

**Jessica Kramer**
Project Manager

*A Small Business and Minority Company*

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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# Sample Cross Reference 684641

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State 2-6 Flowline

| Sample Id | Matrix | Date Collected | Sample Depth | Lab Sample Id |
|---|---|---|---|---|
| FS2d @ 4' | S | 01.13.2021 00:00 | 4 ft | 684641-001 |

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# CASE NARRATIVE

***Client Name: Etech Environmental & Safety Solution, Inc***

***Project Name: NM DW State 2-6 Flowline***

Project ID: *13542*
Work Order Number(s): *684641*

Report Date: *01.15.2021*
Date Received: *01.14.2021*

**Sample receipt non conformances and comments:**

**Sample receipt non conformances and comments per sample:**

None

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# Certificate of Analytical Results 684641

## Etech Environmental & Safety Solution, Inc, Midland, TX

NM DW State 2-6 Flowline

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **FS2d @ 4'** | Matrix: | Soil | Date Received: | 01.14.2021 12:16 |
| Lab Sample Id: | 684641-001 | Date Collected: | 01.13.2021 00:00 | Sample Depth: | 4 ft |
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | | |
| Analyst: | ARM | Date Prep: | 01.14.2021 14:00 | % Moisture: | |
| Seq Number: | 3147888 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 01.14.2021 18:29 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 01.14.2021 18:29 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 01.14.2021 18:29 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 01.14.2021 18:29 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 79 | % | 70-130 | 01.14.2021 18:29 | |
| o-Terphenyl | 84-15-1 | 87 | % | 70-130 | 01.14.2021 18:29 | |

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# Flagging Criteria

**X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

**B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

**D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

**E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

**F** RPD exceeded lab control limits.

**J** The target analyte was positively identified below the quantitation limit and above the detection limit.

**U** Analyte was not detected.

**L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

**H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

**K** Sample analyzed outside of recommended hold time.

**JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

**BRL** Below Reporting Limit. **ND** Not Detected.

**RL** Reporting Limit

**MDL** Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

**PQL** Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

**DL** Method Detection Limit

**NC** Non-Calculable

**SMP** Client Sample **BLK** Method Blank

**BKS/LCS** Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

**MD/SD** Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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# QC Summary 684641

## Etech Environmental & Safety Solution, Inc

NM DW State 2-6 Flowline

**Analytical Method:** **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3147888 Matrix: Solid Date Prep: 01.14.2021
MB Sample Id: 7719224-1-BLK LCS Sample Id: 7719224-1-BKS LCSD Sample Id: 7719224-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | <50.0 | 1000 | 864 | 86 | 828 | 83 | 70-130 | 4 | 20 | mg/kg | 01.14.2021 15:17 | |
| Diesel Range Organics (DRO) | <50.0 | 1000 | 867 | 87 | 850 | 85 | 70-130 | 2 | 20 | mg/kg | 01.14.2021 15:17 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|
| 1-Chlorooctane | 84 | | 95 | | 93 | | 70-130 | % | 01.14.2021 15:17 |
| o-Terphenyl | 100 | | 92 | | 87 | | 70-130 | % | 01.14.2021 15:17 |

**Analytical Method:** **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3147888 Matrix: Solid Date Prep: 01.14.2021
MB Sample Id: 7719224-1-BLK

| Parameter | MB Result | Units | Analysis Date | Flag |
|---|---|---|---|---|
| Motor Oil Range Hydrocarbons (MRO) | <50.0 | mg/kg | 01.14.2021 14:57 | |

**Analytical Method:** **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3147888 Matrix: Soil Date Prep: 01.14.2021
Parent Sample Id: 684586-001 MS Sample Id: 684586-001 S MSD Sample Id: 684586-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | <49.9 | 997 | 791 | 79 | 788 | 79 | 70-130 | 0 | 20 | mg/kg | 01.14.2021 16:15 | |
| Diesel Range Organics (DRO) | <49.9 | 997 | 793 | 80 | 860 | 86 | 70-130 | 8 | 20 | mg/kg | 01.14.2021 16:15 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1-Chlorooctane | 101 | | 91 | | 70-130 | % | 01.14.2021 16:15 |
| o-Terphenyl | 93 | | 86 | | 70-130 | % | 01.14.2021 16:15 |

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

# Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300, San Antonio, TX (210) 509-3334
Midland, TX (432) 704-5440, EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900
Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701
Atlanta, GA (770) 449-8800

**Work Order No:** 1084641

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| | | | |
|---|---|---|---|
| Project Manager: | Joel Lowry | Bill to: (if different) | Concho |
| Company Name: | Etech Environmental and Safety | Company Name: | |
| Address: | 3100 Plains Hwy | Address: | |
| City, State ZIP: | Lovington, NM, 88260 | City, State ZIP: | |
| Phone: | 575-396-2378 | Email: | Email Results to: PM@etechenv.com + Client |

**Work Order Comments**

Program: UST/PST ☐ PRP ☐ Brownfield ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level ☐ Level ☐ PST/US ☐ TRR ☐ Level ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

| | | | |
|---|---|---|---|
| Project Name: | NM DW State 2-6 Flowline | Turn Around | |
| Project Number: | 13542 | Routine: | ☐ |
| Project Location | Lea County, NM | Rush: | X |
| Sampler's Name: | Eddie Gayton Jr. | Due Date: | ASAP |
| PO #: | | | |

| SAMPLE RECEIPT | | | | |
|---|---|---|---|---|
| Temperature (°C): | 1.3 | Temp Blank: | Yes (No) | Wet Ice: (Yes) No |
| Received Intact: | (Yes) No | Thermometer ID | 108 | |
| Cooler Custody Seals: | (Yes) No N/A | Correction Factor: | .5 | |
| Sample Custody Seals: | Yes No (N/A) | Total Containers: | | |

**ANALYSIS REQUEST**

| Sample Identification | Matrix | Date Sampled | Time Sampled | Depth | Number of Containers/Preservative Code | BTEX (8021) | TPH (Modified Ext.) | Cl- (E300) |
|---|---|---|---|---|---|---|---|---|
| FS2d @ 4' | Soil | 1/13/2021 | | 4' | 1/NO | | X | |

**Preservative Codes**

HNO3: HN
H2S04: H2
HCL: HL
None: NO
NaOH: Na
MeOH: Me
Zn Acetate+ NaOH: Zn

TAT starts the day recevied by the lab, if received by 4:30pm

**Sample Comments**

**Total 200.7 / 6010 200.8 / 6020:** 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

*Circle Method(s) and Metal(s) to be analyzed* **TCLP / SPLP 6010:** 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U **1631 / 245.1 / 7470 / 7471** : Hg



| Relinquished by: (Signature) | Received by: (Signature) | Date/Time | Relinquished by: (Signature) | Received by: (Signature) | Date/Time |
|---|---|---|---|---|---|
| 1 | Armida Bustillo | 1-13/3:25 | 2 Armida B. | | 1-14-21 12H |
| 3 | | | 4 | | |
| 5 | | | 6 | | |

Revised Date101419 Rev. 2019.1

41 MAFA

TRK# 9401 5656 2197 0201

THU - 14 JAN HOLD
PRIORITY OVERNIGHT
HLD
MAFA
LBB TX-US

FedEx Express

MIDLAND TX 79711
(432) 704-5440 REF:
INV:
PO:
DEPT:

TO XENCO HOLD FOR PICKUP
FEDEX EXPRESS SHIP CENTER
FEDEX EXPRESS SHIP CENTER
3600 COUNTY ROAD 1276 SOUTH

ORIGIN ID:HOBA (575) 392-7550
MAIL SERVICES ETC
*
4008 N GRIMES
HOBBS, NM 88240
UNITED STATES US

SHIP DATE: 13JAN21
ACTWGT: 4.00 LB MAN
CAD: 0103352/CAFE3313
DIMS: 16x12x9 IN

BILL RECIPIENT

2850/5C1136/0595

# Eurofins Xenco, LLC

## Prelogin/Nonconformance Report- Sample Log-In

**Client:** Etech Environmental & Safety Solution, I

**Date/ Time Received:** 01.14.2021 12.16.00 PM

**Work Order #:** 684641

**Acceptable Temperature Range: 0 - 6 degC**
**Air and Metal samples Acceptable Range: Ambient**

**Temperature Measuring device used : IR8**

| Sample Receipt Checklist | Comments |
|---|---|
| #1 *Temperature of cooler(s)? | 1.3 |
| #2 *Shipping container in good condition? | **Yes** |
| #3 *Samples received on ice? | **Yes** |
| #4 *Custody Seals intact on shipping container/ cooler? | **N/A** |
| #5 Custody Seals intact on sample bottles? | **N/A** |
| #6*Custody Seals Signed and dated? | **N/A** |
| #7 *Chain of Custody present? | **Yes** |
| #8 Any missing/extra samples? | **No** |
| #9 Chain of Custody signed when relinquished/ received? | **Yes** |
| #10 Chain of Custody agrees with sample labels/matrix? | **Yes** |
| #11 Container label(s) legible and intact? | **Yes** |
| #12 Samples in proper container/ bottle? | **Yes** |
| #13 Samples properly preserved? | **Yes** |
| #14 Sample container(s) intact? | **Yes** |
| #15 Sufficient sample amount for indicated test(s)? | **Yes** |
| #16 All samples received within hold time? | **Yes** |
| #17 Subcontract of sample(s)? | **N/A** |
| #18 Water VOC samples have zero headspace? | **N/A** |

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst: PH Device/Lot#:

**Checklist completed by:** Brianna Teel Date: 01.14.2021
Brianna Teel

**Checklist reviewed by:** Jessica Kramer Date: 01.14.2021
Jessica Kramer

# Appendix D
# Photographic Log

# Photographic Log

| | |
|---|---|
| **Photo Number:** 1 |   |
| **Photo Direction:** Northeast | |
| **Photo Description:** Initial release. | |

| | |
|---|---|
| **Photo Number:** 2 |   |
| **Photo Direction:** North | |
| **Photo Description:** Initial release. | |

# Photographic Log

| | |
|---|---|
| **Photo Number:** 3 |   |
| **Photo Direction:** Northeast | |
| **Photo Description:** Center and east side of excavation. | |

| | |
|---|---|
| **Photo Number:** 4 |   |
| **Photo Direction:** Southwest | |
| **Photo Description:** Western edge of excavation. | |

# Photographic Log

| | |
|---|---|
| **Photo Number:** 5 |  |
| **Photo Direction:** Northeast | |
| **Photo Description:** Center of excavation. | |



| | |
|---|---|
| **Photo Number:** 6 |  |
| **Photo Direction:** Northeast | |
| **Photo Description:** Western side of excavation. | |

# Photographic Log

| | |
|---|---|
| **Photo Number:** 7 |   |
| **Photo Direction:** East | |
| **Photo Description:** Eastern side of excavated area after backfill. | |

| | |
|---|---|
| **Photo Number:** 8 |   |
| **Photo Direction:** Southwest | |
| **Photo Description:** Western side of excavated area after backfill. | |

# Photographic Log

| | |
|---|---|
| **Photo Number:** 9 |   |
| **Photo Direction:** Northwest | |
| **Photo Description:** Northern edge of excavated area after backfill. | |

| | |
|---|---|
| **Photo Number:** 10 |   |
| **Photo Direction:** Southeast | |
| **Photo Description:** Sothern edge of excavated area after backfill. | |

**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

| | |
|---|---|
| Operator:<br>COG OPERATING LLC<br>600 W Illinois Ave<br>Midland, TX 79701 | OGRID:<br>229137 |
| | Action Number:<br>21576 |
| | Action Type:<br>[C-141] Release Corrective Action (C-141) |

**CONDITIONS**

| Created By | Condition | Condition Date |
|---|---|---|
| ceads | None | 7/19/2021 |