

|                |               |
|----------------|---------------|
| Incident ID    | NCH1903363086 |
| District RP    | 1RP-5318      |
| Facility ID    |               |
| Application ID | pCH1903363384 |

## 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?   | >141 (ft bgs)   |
| Did this release impact groundwater or surface water?   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of a wetland?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release overlying a subsurface mine?   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release overlying an unstable area such as karst geology?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within a 100-year floodplain?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |

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

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

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

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

State of New Mexico  
Oil Conservation Division

Page 4

|                |               |
|----------------|---------------|
| Incident ID    | NCH1903363086 |
| District RP    | 1RP-5318      |
| Facility ID    |               |
| Application ID | pCH1903363384 |

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: Ralph Tijerina Title: Director EHS  
Signature: *Ralph Tijerina* Date: 3/16/2020  
email: rtijerina@goodnightmidstream.com Telephone: 214-587-4964

**OCD Only**

Received by: Cristina Eads Date: 05/07/2020

|                |               |
|----------------|---------------|
| Incident ID    | NCH1903363086 |
| District RP    | 1RP-5318      |
| Facility ID    |               |
| Application ID | pCH1903363384 |

## Remediation Plan

**Remediation Plan Checklist:** *Each of the following items must be included in the plan.*

- ☒ Detailed description of proposed remediation technique
- ☒ Scaled sitemap with GPS coordinates showing delineation points
- ☒ Estimated volume of material to be remediated
- ☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

**Deferral Requests Only:** *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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: Ralph Tijerina Title: Director EHS  
Signature: *Ralph Tijerina* Date: 05/07/2020  
email: rtijerina@goodnightmidstream.com Telephone: 214-587-4964

**OCD Only**

Received by: Cristina Eads Date: 05/07/2020

☐ Approved ☒ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: *Cristina Eads* Date: 05/07/2020

|                |                |
|----------------|----------------|
| Incident ID    | NDHR1918658476 |
| District RP    | 1RP-5606       |
| Facility ID    |                |
| Application ID | pDHR1918658098 |

## 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?   | >141 (ft bgs)   |
| Did this release impact groundwater or surface water?   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of a wetland?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release overlying a subsurface mine?   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release overlying an unstable area such as karst geology?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within a 100-year floodplain?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |

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

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

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

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



State of New Mexico  
Oil Conservation Division

Page 4

|                |                |
|----------------|----------------|
| Incident ID    | NDHR1918658476 |
| District RP    | 1RP-5606       |
| Facility ID    |                |
| Application ID | pDHR1918658098 |

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: Ralph Tijerina Title: Director EHS  
Signature: *Ralph Tijerina* Date: 3/16/2020  
email: rtijerina@goodnightmidstream.com Telephone: 214-587-4964

**OCD Only**

Received by: Cristina Eads Date: 05/07/2020

|                |                |
|----------------|----------------|
| Incident ID    | NDHR1918658476 |
| District RP    | 1RP-5606       |
| Facility ID    |                |
| Application ID | pDHR1918658098 |

## Remediation Plan

**Remediation Plan Checklist:** *Each of the following items must be included in the plan.*

- ☒ Detailed description of proposed remediation technique
- ☒ Scaled sitemap with GPS coordinates showing delineation points
- ☒ Estimated volume of material to be remediated
- ☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

**Deferral Requests Only:** *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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: Ralph Tijerina Title: Director EHS  
Signature: *Ralph Tijerina* Date: 05/07/2020  
email: rtijerina@goodnightmidstream.com Telephone: 214-587-4964

**OCD Only**

Received by: Cristina Eads Date: 05/07/2020

☐ Approved ☒ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: *Cristina Eads* Date: 05/07/2020

1RP-5318 & 1RP-5606 affected the same area. In accordance with the NMOCD, the releases will be remediated simultaneously. To aid in recordkeeping, the attached *Site Assessment Report, Proposed Remediation Workplan & Alternative Closure Strategy* has been submitted through the NMOCD Online Payment Portal for **each** incident; 1RP-5318 & 1RP-5606.

# **Site Assessment Report, Proposed Remediation Workplan & Alternative Closure Strategy**

## **Goodnight Midstream Permian, LLC Penroc State E TR 27 #002 & Piper SWD Fire**

Lea County, New Mexico  
Unit Letter "M", Section 18, Township 21 South, Range 37 West  
Latitude 32.472598 North, Longitude 103.20721 West  
NMOCD Ref. No. 1RP-5318 & 1RP-5606

Prepared By:

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



Daniel Dominguez



Joel W. Lowry



## TABLE OF CONTENTS

|   | <i>Section</i> |
|---|----------------|
| PROJECT INFORMATION.....                                    | <b>1.0</b>     |
| SITE CHARACTERIZATION.....                                  | <b>2.0</b>     |
| CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE.....       | <b>3.0</b>     |
| INITIAL SITE ASSESSMENT.....                                | <b>4.0</b>     |
| PROPOSED REMEDIAL ACTIVITIES.....                           | <b>5.0</b>     |
| VARIANCE REQUEST.....                                       | <b>6.0</b>     |
| ALTERNATIVE CLOSURE STRATEGY.....                           | <b>7.0</b>     |
| SAMPLING PLAN.....  | <b>8.0</b>     |
| TIMELINE AND ESTIMATED VOLUME OF SOIL TO BE REMEDIATED..... | <b>9.0</b>     |
| RESTORATION, RECLAMATION AND RE-VEGETATION PLAN.....        | <b>10.0</b>    |
| LIMITATIONS.....  | <b>11.0</b>    |
| DISTRIBUTION.....   | <b>12.0</b>    |

### FIGURES

Figure 1 - Topographic Map  
Figure 2 - Aerial Proximity Map  
Figure 3a -Site & Sample Location Map (Pasture)  
Figure 3b -Site & Sample Location Map (Containment)

### TABLES

Table 1 - Concentrations of BTEX, TPH and/or Chloride in Soil

### APPENDICES

Appendix A - Depth to Groundwater Information  
Appendix B - Field Data and Soil Profile Logs  
Appendix C - Laboratory Analytical Reports  
Appendix D - Photographic Log

## 1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Goodnight Midstream, has prepared this Report for the Release Sites known as the Penrock State E TR 27 #002 and the Piper SWD. Details of the releases are as follows:

### Location of Release Source

Latitude: 32.47258 Longitude: -103.20732

Provided GPS are in WGS84 format.

|                          |                |                        |              |
|--------------------------|----------------|------------------------|--------------|
| Site Name:               | Penroc State E | Site Type:             | SWD          |
| Date Release Discovered: | 12/22/2018     | API # (if applicable): | 30-025-26491 |

| Unit Letter | Section | Township | Range | County |
|-------------|---------|----------|-------|--------|
| M           | 18      | 21S      | 37E   | Lea    |

Surface Owner: ☒ State ☐ Federal ☐ Tribal ☐ Private (Name \_\_\_\_\_)

### Nature and Volume of Release

|  |   |  |                         |     |
|--|---|--|-------------------------|-----|
| <input checked="" type="checkbox"/> Crude Oil      | Volume Released (bbls)  | 5  | Volume Recovered (bbls) | 4   |
| <input checked="" type="checkbox"/> Produced Water | Volume Released (bbls)  | 595  | Volume Recovered (bbls) | 594 |
|  | Is the concentration of dissolved chloride in the produced water > 10,000 mg/L? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |                         |     |
| <input type="checkbox"/> Condensate                | Volume Released (bbls)  |  | Volume Recovered (bbls) |     |
| <input type="checkbox"/> Natural Gas               | Volume Released (Mcf)   |  | Volume Recovered (Mcf)  |     |
| <input type="checkbox"/> Other (describe)          | Volume/Weight Released  |  | Volume/Weight Recovered |     |

#### Cause of Release:

The release was attributed to a filter having a blockage which caused a back-up of fluid flowing out of the top.

### Initial Response

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

**Location of Release Source**Latitude: 32.47259 Longitude: -103.20721

Provided GPS are in format.

|  |  |
|--|--|
| Site Name: <u>Penroc State E (Piper SWD)</u> | Site Type: <u>SWD</u>                      |
| Date Release Discovered: <u>6/24/2019</u>    | API # (if applicable): <u>30-025-26491</u> |

| Unit Letter | Section | Township | Range | County |
|-------------|---------|----------|-------|--------|
| M           | 18      | 21S      | 37E   | Lea    |

Surface Owner: ☒ State ☐ Federal ☐ Tribal ☐ Private (Name \_\_\_\_\_)**Nature and Volume of Release**

|  |   |  |
|--|---|--|
| <input type="checkbox"/> Crude Oil                 | Volume Released (bbls)  | Volume Recovered (bbls)  |
| <input checked="" type="checkbox"/> Produced Water | Volume Released (bbls) <u>400</u>   | Volume Recovered (bbls) <u>355</u>   |
|  | Is the concentration of dissolved chloride in the produced water > 10,000 mg/L? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |
| <input type="checkbox"/> Condensate                | Volume Released (bbls)  | Volume Recovered (bbls)  |
| <input type="checkbox"/> Natural Gas               | Volume Released (Mcf)   | Volume Recovered (Mcf)   |
| <input type="checkbox"/> Other (describe)          | Volume/Weight Released  | Volume/Weight Recovered  |

**Cause of Release and Affected Area:**

The release was attributed to a storage tank catching fire. A majority of the release was confined to within the lined containment. Approximately 45 bbls flowed south, outside the containment.

**Initial Response**

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

A majority of each of the releases was confined to within the lined containment. Portions of the releases flowed south, outside the containment, affecting the adjacent caliche access road and pasture area. 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 Release Site. Probable groundwater depth was determined using data generated by numeric models based on available water well data and published information or available gauging data. Depth to groundwater information is provided as Appendix A.

|   |   |  |
|---|---|--|
| What is the shallowest depth to groundwater beneath the area affected by the release?   | <u>&gt; 141 Ft.</u>                     |  |
| Did the release impact groundwater or surface water?  | <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?  | <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?  | <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of any occupied permanent residence, school, hospital, institution or church?  | <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes? | <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?  | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            |
| Are the lateral extents of the release within the incorporated municipal boundaries or within a defined municipal fresh water well field?   | <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of a wetland?  | <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release overlying a subsurface mine?   | <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release overlying an unstable area such as karst geology?  | <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within a 100-year floodplain?  | <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> No |
| Did the release impact areas not on an exploration, development, production or storage site?  | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            |

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

## 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 for the Site is as follows:

| Closure Criteria for Soil Impacted by a Release |                       |                                   |           |
|---|-----------------------|-----------------------------------|-----------|
| Probable Depth to Groundwater                   | Constituent           | Method                            | Limit     |
| 141 ft  | Chloride              | EPA 300.0 or SM4500 Cl B          | 600 mg/kg |
|   | TPH (GRO + DRO + MRO) | EPA SW-846 Method 8015M Ext       | 100 mg/kg |
|   | DRO + GRO             | EPA SW-846 Method 8015M           | N/A mg/kg |
|   | BTEX                  | EPA SW-846 Methods 8021b or 8260b | 50 mg/kg  |
|   | Benzene               | EPA SW-846 Methods 8021b or 8260b | 10 mg/kg  |



west to encompass soil sample Exc. B WSW and south to encompass soil samples NSW #1 and NSW #2. Excavated soil was temporarily stockpiled on-site, then transported to an NMOCD-approved surface waste facility for disposal. Excavation sidewalls were advanced until laboratory analytical results indicated BTEX, TPH and chloride concentrations were below the NMOCD Closure Criteria and/or the NMOCD Reclamation Standard.

On October 14, 2019, Etech collected twelve (12) soil samples (Floor 1 through Floor 12) from the floor of the excavated area beneath the former salt water disposal containment in an effort to determine if soil remaining in-situ was affected above the NMOCD Closure Criteria and/or the NMOCD Reclamation Standard. The collected soil samples were submitted to the laboratory for analysis of BTEX, TPH and chloride concentrations. Laboratory analytical results from excavation confirmation soil samples indicated BTEX, TPH and chloride concentration were below the NMOCD Closure Criteria and/or the NMOCD Reclamation Standard in each of the submitted soil samples.

In addition, fifteen (15) excavation confirmation soil samples (NW1b, NW2b, NW3b, EW1b, EW2, EW3, EW4b, SW1, SW2b, SW3b, SW4b, WW1b, WW2b, WW3 and WW4) were collected from the sidewalls of the excavated area. The collected soil samples were submitted to the laboratory for analysis of BTEX, TPH and chloride concentrations. Laboratory analytical results from excavation confirmation soil samples indicated BTEX, TPH and chloride concentrations were below the NMOCD Closure Criteria and/or the NMOCD Reclamation Standard in each of the submitted soil samples with the exception of soil samples WW1b which exhibited a chloride concentration of 2,800 mg/kg, soil sample WW2b which exhibited a chloride concentration of 960 mg/kg, soil sample WW3 which exhibited a chloride concentration of 1,180 mg/kg, soil sample WW4 which exhibited a chloride concentration of 2,240 mg/kg and EW3 which exhibited a GRO+DRO concentration of 1,441.8 mg/kg.

On February 10, 2020, excavation activities resumed at the Site. Impacted soil affected above the NMOCD Closure Criteria and/or the NMOCD Reclamation Standard in the area characterized by soil sample EW3 was excavated. Upon excavating impacted soil in the area characterized by soil sample EW3, Etech collected one (1) excavation confirmation soil sample (EW3b) from the sidewalls of the excavated area. The collected soil samples was submitted to the laboratory for analysis of TPH concentrations, which were determined to be below the NMOCD Closure Criteria and/or the NMOCD Reclamation Standard. Further advancement of the west sidewall of the excavation in the area characterized by soil samples WW1b, WW2b, WW3 and WW4 was precluded for safety concerns.

The affected area outside the former salt water disposal containment has been remediated in accordance with the NMOCD. Impacted soil beneath the former salt water disposal containment has been excavated to a depth of approximately 4 Ft. bgs. To date, approximately 3,600 cy of impacted soil has been excavated and transported to an NMOCD-permitted surface waste facility for disposal. Remediation activities were temporarily placed on hold pending the plugging of commercial freshwater wells that were installed by the previous facility owner.

## **5.0 PROPOSED REMEDIAL ACTIVITIES**

Based on laboratory analytical results, site characteristics and field observations made during the initial site assessment, Goodnight Midstream Permian, LLC proposes the following remediation activities designed to advance the Site toward an approved closure:

- In accordance with the NMOCD, excavate impacted soil present within the floor of the excavated area beneath the former salt water disposal containment in the areas characterized by sample points Floor 2, Floor 4, Floor 5, Floor 8 and Floor 9.
- Advance the excavation sidewalls horizontally until laboratory analytical results from excavation confirmation soil samples indicate concentrations of BTEX, TPH and chloride are below the NMOCD Closure Criteria and/or the NMOCD Reclamation Standard.
- Upon receiving laboratory analytical results from excavation confirmation soil samples, install a 20-mil polyurethane liner on the floor of the excavated area atop impacted soil affected above the NMOCD Closure Criteria and/or NMOCD Reclamation Standard remaining in-situ.
- Upon completion of remediation activities, prepare a Remediation Summary and Site Closure Request detailing remediation activities and the results of confirmation soil samples.

west to encompass soil sample Exc. B WSW and south to encompass soil samples NSW #1 and NSW #2. Excavated soil was temporarily stockpiled on-site, then transported to an NMOCD-approved surface waste facility for disposal. Excavation sidewalls were advanced until laboratory analytical results indicated BTEX, TPH and chloride concentrations were below the NMOCD Closure Criteria and/or the NMOCD Reclamation Standard.

On **October 14, 2019**, Etech collected twelve (12) soil samples (Floor 1 through Floor 12) from the floor of the excavated area beneath the former salt water disposal containment in an effort to determine if soil remaining in-situ was affected above the NMOCD Closure Criteria and/or the NMOCD Reclamation Standard. The collected soil samples were submitted to the laboratory for analysis of BTEX, TPH and chloride concentrations. Laboratory analytical results from excavation confirmation soil samples indicated BTEX, TPH and chloride concentration were below the NMOCD Closure Criteria and/or the NMOCD Reclamation Standard in each of the submitted soil samples.

In addition, fifteen (15) excavation confirmation soil samples (NW1b, NW2b, NW3b, EW1b, EW2, EW3, EW4b, SW1, SW2b, SW3b, SW4b, WW1b, WW2b, WW3 and WW4) were collected from the sidewalls of the excavated area. The collected soil samples were submitted to the laboratory for analysis of BTEX, TPH and chloride concentrations. Laboratory analytical results from excavation confirmation soil samples indicated BTEX, TPH and chloride concentrations were below the NMOCD Closure Criteria and/or the NMOCD Reclamation Standard in each of the submitted soil samples with the exception of soil samples WW1b which exhibited a chloride concentration of 2,800 mg/kg, soil sample WW2b which exhibited a chloride concentration of 960 mg/kg, soil sample WW3 which exhibited a chloride concentration of 1,180 mg/kg, soil sample WW4 which exhibited a chloride concentration of 2,240 mg/kg and EW3 which exhibited a GRO+DRO concentration of 1,441.8 mg/kg.

On February 10, 2020, excavation activities resumed at the Site. Impacted soil affected above the NMOCD Closure Criteria and/or the NMOCD Reclamation Standard in the area characterized by soil sample EW3 was excavated. Upon excavating impacted soil in the area characterized by soil sample EW3, Etech collected one (1) excavation confirmation soil sample (EW3b) from the sidewalls of the excavated area. The collected soil samples was submitted to the laboratory for analysis of TPH concentrations, which were determined to be below the NMOCD Closure Criteria and/or the NMOCD Reclamation Standard. Further advancement of the west sidewall of the excavation in the area characterized by soil samples WW1b, WW2b, WW3 and WW4 was precluded for safety concerns.

The affected area outside the former salt water disposal containment has been remediated in accordance with the NMOCD. Impacted soil beneath the former salt water disposal containment has been excavated to a depth of approximately 4 Ft. bgs. To date, approximately 3,600 cy of impacted soil has been excavated and transported to an NMOCD-permitted surface waste facility for disposal. Remediation activities were temporarily placed on hold pending the plugging of commercial freshwater wells that were installed by the previous facility owner.

## **5.0 PROPOSED REMEDIAL ACTIVITIES**

Based on laboratory analytical results, site characteristics and field observations made during the initial site assessment, Goodnight Midstream Permian, LLC proposes the following remediation activities designed to advance the Site toward an approved closure:

- Collect the remaining excavation confirmation soil samples from the floor and sidewalls of the excavated area.
- Advance the excavation sidewalls horizontally until laboratory analytical results from excavation confirmation soil samples indicate concentrations of BTEX, TPH and chloride are below the NMOCD Closure Criteria and/or the NMOCD Reclamation Standard.
- Upon receiving laboratory analytical results from excavation confirmation soil samples, install a 20-mil polyurethane liner on the floor of the excavated area atop impacted soil affected above the NMOCD Closure Criteria and/or NMOCD Reclamation Standard remaining in-situ.
- Upon installing the 20-mil polyurethane liner on the floor of the excavation, backfill the excavated area with locally sourced, non-impacted "like" material. Excavation backfill will be contoured to match the surrounding topography.
- Upon completion of remediation activities, prepare a Remediation Summary and Site Closure Request detailing remediation activities and the results of confirmation soil samples.

## 6.0 VARIANCE REQUEST

In accordance with NMAC 19.15.29.14, Goodnight requests a variance to install a 20-mil string reinforced liner within the floor of the open excavation at approximately 4 Ft. bgs. An approximate 6-inch layer of pad material will be installed below and above the liner in an effort to ensure its maintained integrity during backfilling activities. Goodnight maintains that excavating and disposing of portions the release site to depths up to and beyond 9 Ft. bgs at an active facility or in other areas with potential for soil instability poses a risk to human health that exceeds the benefits of the excavation and disposal of impacted soil affected above the NMOCD Closure Criteria. This assertion is based primarily on the inherent dangers of continued and/or substantial excavation adjacent to oil and gas infrastructure, or in areas where soil stability may be an issue, and the risks associated with transporting the associated soil on public highways to a surface waste disposal facility. The assertion is further substantiated by the understanding that additional remediation activities, beyond that which has been proposed, will result in increasing the duration of exposure among environmental field personnel and/or exposure of additional environmental field personnel. Based on the aforementioned; the Site's distance from populated areas and/or drinking water supplies; a proposed cover consisting of a minimum of four (4) ft. of non-impacted soil and/or a 20-mil polyurethane liner; and the relative unlikelihood of future exposure resulting in diminished public health; Goodnight maintains the proposed variance will provide equal or better protection of public health. Laboratory analytical results indicate BTEX and TPH concentrations were less than the NMOCD Closure Criteria in each of the excavation confirmation soil samples. Analytical results indicate affected soil exhibiting chloride concentrations above the NMOCD Closure Criteria has been delineated to less than 600 mg/kg in each of the vertical sample locations, with the exception of test trenches TT-2 and TT-3, which exhibited a chloride concentrations of 800 mg/kg and 928 mg/kg at 9 Ft. and 7 Ft., respectively. Analytical results indicate the maximum chloride concentration Goodnight proposes to leave in-situ is 2,600 mg/kg (Floor 8). Goodnight proposes to install a 20-mil polyurethane liner on the floor of the excavation at 4 Ft. bgs in the area beneath the former tank battery containment. This engineering control is designed to inhibit the vertical migration of contaminants left in-situ. Based on the aforementioned, and given 19.15.29 NMAC allows for impacted soil exhibiting chloride concentrations ranging from 600 mg/kg to 20,000 mg/kg to remain in-situ at depths of greater than four (4) ft. bgs, where the distance between impacted soil and groundwater is not defined, Goodnight maintains the proposed variance will provide equal or better protection of fresh water and the environment.

## 7.0 ALTERNATIVE CLOSURE STRATEGY

Goodnight is in the process of plugging the on-site commercial fresh water wells installed by the previous facility owner. Prior to plugging the wells, groundwater samples may be obtained and submitted to the laboratory for analysis of BTEX, TPH, and chloride concentrations. Upon receiving laboratory analytical results indicating demonstrating the on-site well are not affected and plugging the on-site commercial fresh water wells installed by the previous owner, backfill the excavated area with locally sourced, non-impacted "like" material. The western portion of the Site will be restored to meet the needs of the well pad; the eastern portion of the Site will be restored and reclaimed to match the surrounding pasture.

## 8.0 SAMPLING PLAN

Upon completion of excavation activities, representative five-point composite excavation confirmation soil samples will be collected from the excavation sidewalls in each cardinal direction, representing no more than 50 linear ft. A minimum of **one (1)** representative five-point composite excavation confirmation soil sample will be collected from the base of the excavated area representing every **400 square feet**. Additional, discrete grab samples will be collected from wet or visibly stained areas inferred to have been affected by the release, as necessary.

## **9.0 TIMELINE AND ESTIMATED VOLUME OF SOIL TO BE REMEDIATED**

Remediation activities are expected to be completed within 90 days of receiving necessary approval of the Site Assessment Summary and Proposed Remediation Plan. It is estimated that approximately 3,600 cubic yards of soil has been impacted above the NMOCD Closure Criteria.

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

Areas affected by remediation and closure activities will be substantially restored to the condition that existed prior to the release, to the extent practicable. Excavated areas will be backfilled with locally sourced, non-impacted "like" material placed at or near original relative positions. The affected area will be contoured and/or compacted to achieve erosion control, stability and preservation of surface water flow to the extent practicable. Affected areas not on production pads and/or lease roads will be reseeded with an agency and/or landowner-approved seed mixture during the first favorable growing season following closure of the site.

## **11.0 LIMITATIONS**

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

This report has been prepared for the benefit of Goodnight Midstream Permian, LLC. Use of the information contained in this report is prohibited without the consent of Etech and/or Goodnight Midstream Permian, LLC.

## 13.0 DISTRIBUTION

***Goodnight Midstream Permian, LLC***

*5910 N Central Expy*

*Dallas, TX 75206*

***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*

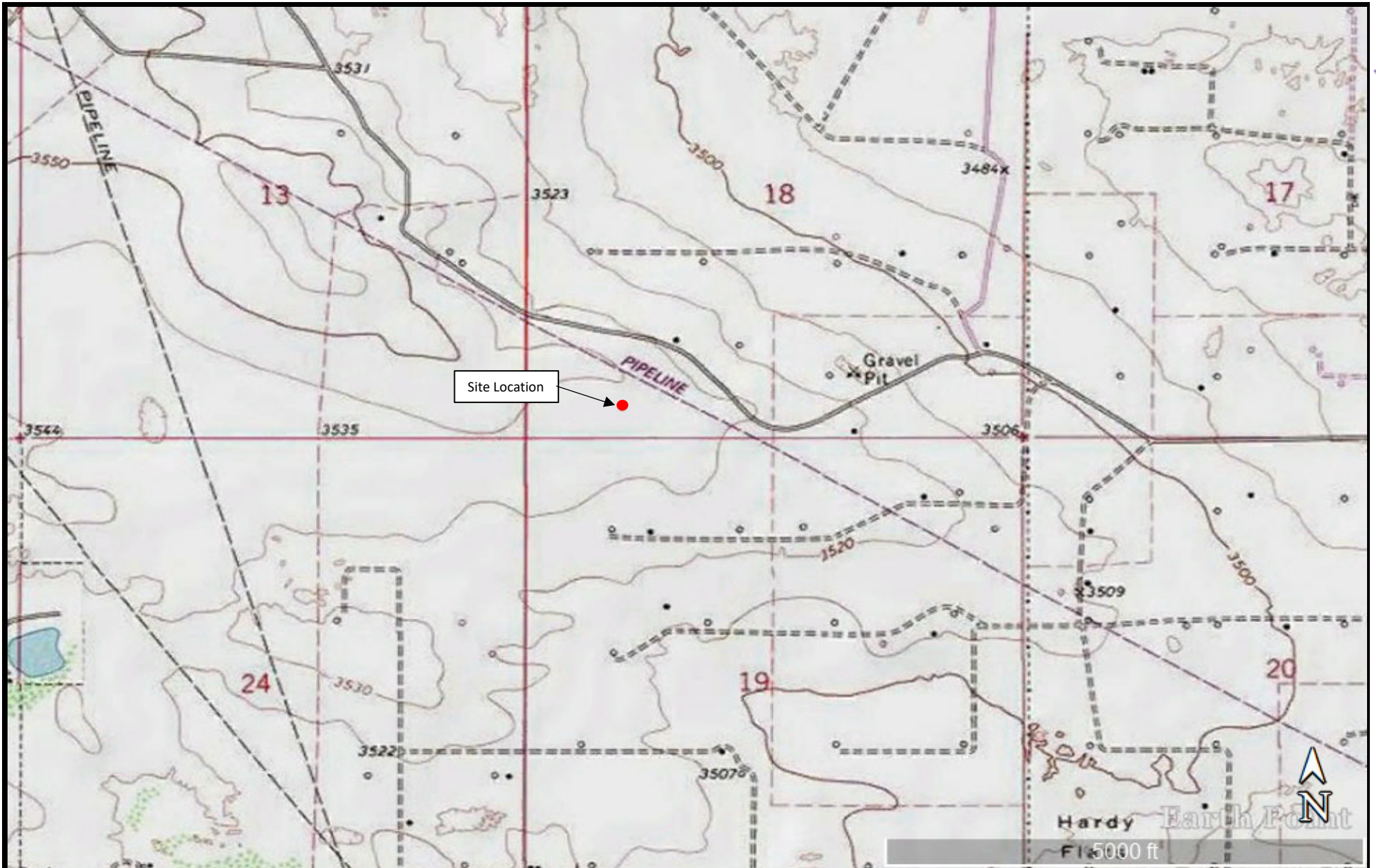
*Hobbs, NM 88240*

*(Electronic Submission)*

## **Figure 1**

### **Topographic Map**





|         |               |
|---------|---------------|
| Legend: |               |
| ●       | Site Location |

**Figure 1**  
 Topographic Map  
 Goodnight Midstream Permian, LLC  
 Penroc State E TR 27 #002  
 GPS: 32.472598, -103.20721  
 Lea County

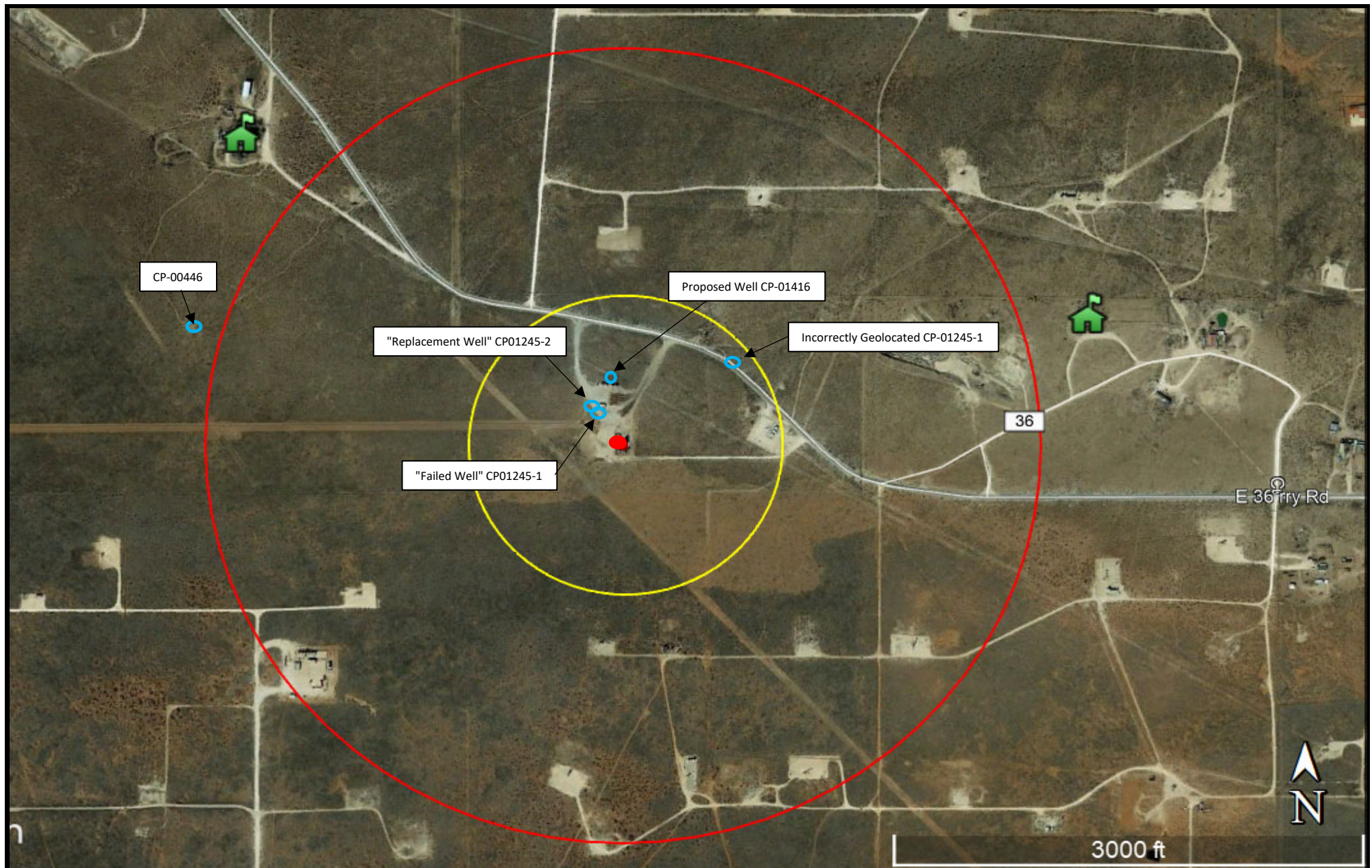



Drafted: \_\_\_\_\_ Checked: jwl Date: 3/13/20

## **Figure 2**

### **Aerial Proximity Map**





## Legend:

- |  |                          |
|--|--------------------------|
| <span style="color: red;">●</span> Site Location       | Non-Industrial Building  |
| <span style="color: blue;">○</span> Fresh Water Well   | Subsurface Mine          |
| <span style="color: red;">○</span> 1/2 Mile Radius     | Playa Lake/Surface Water |
| <span style="color: yellow;">○</span> 1,000 Ft. Radius | High/Critical Karst      |

**Figure 2**  
**Aerial Map**  
 Goodnight Midstream Permian, LLC  
 Penroc State E TR 27 #002  
 GPS: 32.472598, -103.20721  
 Lea County



Drafted:

Checked: jwl

Date:

3/13/20

### **Figure 3**

## **Site and Sample Location Map**





**Legend:**

- WW Sample Location
- Remediated Area
- Excavated Area
- Test Trench

**Figure 3a**  
 Site and Sample Location Map (Pasture)  
 Goodnight Midstream Permian, LLC  
 Penroc State E TR 27 #002  
 GPS: 32.472598, -103.20721  
 Lea County

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

Drafted:


Checked: jwl


Date: 3/16/20





**Legend:**

 Sample Location

 Excavated Area

**Figure 3b**  
 Proposed Excavation Map (Containment)  
 Goodnight Midstream Permian, LLC  
 Penroc State E TR 27 #002  
 GPS: 32.472598, -103.20721  
 Lea County

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

Drafted:

Checked: jwl

Date: 3/16/20

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

TABLE 1  
CONCENTRATIONS OF BENZENE, BTEX TPH AND CHLORIDE IN SOIL  
Goodnight Midstream Permian, LLC  
Penroc State E TR 27 #002  
NMOCD Ref. #s: 1RP-5318 & 1RP-5604

| Sample ID        | Date       | Depth   | Soil Status | SW 846 8021B       |                 | SW 846 8015M Ext.                                 |  |  |  |   | 4500 Cl             |
|------------------|------------|---------|-------------|--------------------|-----------------|---|--|--|--|---|---------------------|
|                  |            |         |             | Benzene<br>(mg/kg) | BTEX<br>(mg/kg) | GRO<br>C <sub>6</sub> -C <sub>10</sub><br>(mg/kg) | DRO<br>C <sub>10</sub> -C <sub>28</sub><br>(mg/kg) | GRO +<br>DRO<br>C <sub>6</sub> -C <sub>28</sub><br>(mg/kg) | ORO<br>C <sub>28</sub> -C <sub>36</sub><br>(mg/kg) | TPH<br>C <sub>6</sub> -C <sub>36</sub><br>(mg/kg) | Chloride<br>(mg/kg) |
| A2               | 7/11/2019  | 4'      | In-Situ     | <0.050             | <0.300          | <10.0   | <10.0  | <20.0  | <10.0  | <30.0   | 48.0                |
| A3               | 7/11/2019  | 4'      | In-Situ     | <0.050             | <0.300          | <10.0   | <10.0  | <20.0  | <10.0  | <30.0   | 112                 |
| A4               | 7/11/2019  | 4'      | In-Situ     | <0.050             | <0.300          | <10.0   | <10.0  | <20.0  | <10.0  | <30.0   | 112                 |
| B1               | 7/11/2019  | 4'      | In-Situ     | <0.050             | <0.300          | <10.0   | <10.0  | <20.0  | <10.0  | <30.0   | 96.0                |
| B2               | 7/11/2019  | 4'      | In-Situ     | <0.050             | <0.300          | <10.0   | <10.0  | <20.0  | <10.0  | <30.0   | 32.0                |
| B3               | 7/11/2019  | 4'      | In-Situ     | <0.050             | <0.300          | <10.0   | <10.0  | <20.0  | <10.0  | <30.0   | 128                 |
| B4               | 7/11/2019  | 4'      | In-Situ     | <0.050             | <0.300          | <10.0   | <10.0  | <20.0  | <10.0  | <30.0   | 192                 |
| C1               | 7/11/2019  | 4'      | In-Situ     | <0.050             | <0.300          | <10.0   | <10.0  | <20.0  | <10.0  | <30.0   | 96.0                |
| C2               | 7/11/2019  | 4'      | In-Situ     | <0.050             | <0.300          | <10.0   | <10.0  | <20.0  | <10.0  | <30.0   | 80.0                |
| C3               | 7/11/2019  | 4'      | In-Situ     | <0.050             | <0.300          | <10.0   | <10.0  | <20.0  | <10.0  | <30.0   | 192                 |
| C4               | 7/11/2019  | 4'      | In-Situ     | <0.050             | <0.300          | <10.0   | <10.0  | <20.0  | <10.0  | <30.0   | 80.0                |
| D3               | 7/11/2019  | 4'      | In-Situ     | <0.050             | <0.300          | <10.0   | <10.0  | <20.0  | <10.0  | <30.0   | 224                 |
| D4               | 7/11/2019  | 4'      | In-Situ     | <0.050             | <0.300          | <10.0   | <10.0  | <20.0  | <10.0  | <30.0   | 176                 |
| E5               | 7/11/2019  | 4'      | In-Situ     | <0.050             | <0.300          | <10.0   | <10.0  | <20.0  | <10.0  | <30.0   | 64.0                |
| E6               | 7/11/2019  | 4'      | In-Situ     | <0.050             | <0.300          | <10.0   | <10.0  | <20.0  | <10.0  | <30.0   | 144                 |
| NSW#1            | 7/12/2019  | 2'      | Excavated   | <0.050             | <0.300          | <10.0   | <10.0  | <20.0  | <10.0  | <30.0   | 112                 |
| NSW#2            | 7/12/2019  | 2'      | Excavated   | <0.050             | <0.300          | <10.0   | <10.0  | <20.0  | <10.0  | <30.0   | <b>4,800</b>        |
| ESW#1            | 7/12/2019  | 2'      | In-Situ     | <0.050             | <0.300          | <10.0   | <10.0  | <20.0  | <10.0  | <30.0   | 128                 |
| ESW#2            | 7/12/2019  | 2'      | In-Situ     | <0.050             | <0.300          | <10.0   | <10.0  | <20.0  | <10.0  | <30.0   | 48.0                |
| SSW#1            | 7/12/2019  | 2'      | In-Situ     | <0.050             | <0.300          | <10.0   | <10.0  | <20.0  | <10.0  | <30.0   | 64.0                |
| WSW#1            | 7/12/2019  | 2'      | In-Situ     | <0.050             | <0.300          | <10.0   | <10.0  | <20.0  | <10.0  | <30.0   | 224                 |
| WSW#2            | 7/12/2019  | 2'      | In-Situ     | <0.050             | <0.300          | <10.0   | <10.0  | <20.0  | <10.0  | <30.0   | 64.0                |
| Exc. B NSW       | 7/12/2019  | 2'      | In-Situ     | <0.050             | <0.300          | <10.0   | <10.0  | <20.0  | <10.0  | <30.0   | 272                 |
| Exc. B ESW       | 7/12/2019  | 2'      | In-Situ     | <0.050             | <0.300          | <10.0   | <10.0  | <20.0  | <10.0  | <30.0   | 416                 |
| Exc. B SSW       | 7/12/2019  | 2'      | In-Situ     | <0.050             | <0.300          | <10.0   | <10.0  | <20.0  | <10.0  | <30.0   | 352                 |
| Exc. B WSW       | 7/12/2019  | 2       | Excavated   | <0.050             | <0.300          | <10.0   | 71.8   | 71.8   | 21.5   | 93.3  | <b>15,200</b>       |
| TT-1             | 8/16/2019  | Surface | Excavated   | <0.050             | <0.300          | <10.0   | 672  | 672  | 192  | <b>864</b>  | <b>4,800</b>        |
|                  | 8/16/2019  | 4'      | In-Situ     | <0.050             | <0.300          | <10.0   | 45.8   | 45.8   | 12.1   | 57.9  | 144                 |
| TT-2             | 8/16/2019  | Surface | Excavated   | <0.050             | <0.300          | <10.0   | 134  | 134  | 29.5   | <b>163.5</b>                                      | <b>3,040</b>        |
|                  | 8/16/2019  | 9'      | In-Situ     | <0.050             | <0.300          | <10.0   | <10.0  | <20.0  | <10.0  | <30.0   | <b>800</b>          |
| TT-3             | 8/16/2019  | Surface | Excavated   | <0.050             | <0.300          | 27.6  | 3,210  | <b>3,237.6</b>   | 938  | <b>4,175.6</b>                                    | <b>2,320</b>        |
|                  | 8/16/2019  | 7'      | In-Situ     | <0.050             | <0.300          | <10.0   | <10.0  | <20.0  | 16.6   | 16.6  | <b>928</b>          |
| TT-4             | 8/16/2019  | Surface | Excavated   | <0.050             | <0.300          | <10.0   | <10.0  | <20.0  | <10.0  | <30.0   | 16.0                |
|                  | 8/16/2019  | 1'      | In-Situ     | <0.050             | <0.300          | <10.0   | <10.0  | <20.0  | <10.0  | <30.0   | 32.0                |
| Floor 1          | 10/14/2019 | 4'      | In-Situ     | <0.050             | <0.300          | <10.0   | <10.0  | <20.0  | <10.0  | <30.0   | 352                 |
| Floor 2          | 10/14/2019 | 4'      | In-Situ     | <0.050             | <0.300          | <10.0   | 147  | 147  | 59.6   | <b>206.6</b>                                      | <b>2,160</b>        |
| Floor 3          | 10/14/2019 | 2'      | In-Situ     | <0.050             | <0.300          | <10.0   | <10.0  | <20.0  | <10.0  | <30.0   | 64.0                |
| Floor 4          | 10/14/2019 | 4'      | In-Situ     | <0.050             | <0.300          | <10.0   | <10.0  | <20.0  | <10.0  | <30.0   | <b>2,560</b>        |
| Floor 5          | 10/14/2019 | 4'      | In-Situ     | <0.050             | <0.300          | <10.0   | <10.0  | <20.0  | <10.0  | <30.0   | <b>2,240</b>        |
| Floor 6          | 10/14/2019 | 4'      | In-Situ     | <0.050             | <0.300          | <10.0   | <10.0  | <20.0  | <10.0  | <30.0   | 448                 |
| Floor 7          | 10/14/2019 | 4'      | In-Situ     | <0.050             | <0.300          | <10.0   | <10.0  | <20.0  | <10.0  | <30.0   | <b>688</b>          |
| Floor 8          | 10/14/2019 | 4'      | In-Situ     | <0.050             | <0.300          | <10.0   | <10.0  | <20.0  | <10.0  | <30.0   | <b>2,600</b>        |
| Floor 9          | 10/14/2019 | 4'      | In-Situ     | <0.050             | <0.300          | <10.0   | 965  | 965  | 239  | <b>1,204</b>                                      | 480                 |
| Floor 10         | 10/14/2019 | 4'      | In-Situ     | <0.050             | <0.300          | <10.0   | 72.4   | 72.4   | 31.5   | <b>103.9</b>                                      | 288                 |
| Floor 11         | 10/14/2019 | 4'      | In-Situ     | <0.050             | <0.300          | <10.0   | <10.0  | <20.0  | <10.0  | <30.0   | 240                 |
| Floor 12         | 10/14/2019 | 4'      | In-Situ     | <0.050             | <0.300          | <10.0   | <10.0  | <20.0  | <10.0  | <30.0   | 384                 |
| NW1b             | 10/14/2019 | 2'      | In-Situ     | <0.050             | <0.300          | <10.0   | <10.0  | <20.0  | <10.0  | <30.0   | 432                 |
| NW2b             | 10/14/2019 | 2'      | In-Situ     | <0.050             | <0.300          | <10.0   | <10.0  | <20.0  | <10.0  | <30.0   | 512                 |
| NW3b             | 10/14/2019 | 2'      | In-Situ     | <0.050             | <0.300          | <10.0   | <10.0  | <20.0  | <10.0  | <30.0   | 80.0                |
| EW1b             | 10/14/2019 | 2'      | In-Situ     | <0.050             | <0.300          | <10.0   | <10.0  | <20.0  | <10.0  | <30.0   | 16.0                |
| EW2              | 10/14/2019 | 2'      | In-Situ     | <0.050             | <0.300          | <10.0   | <10.0  | <20.0  | <10.0  | <30.0   | 48.0                |
| EW3              | 10/14/2019 | 2'      | Excavated   | <0.050             | <0.300          | 11.8  | 1,430  | 1,441.8  | 408  | <b>1,849.8</b>                                    | 160                 |
| EW4b             | 10/14/2019 | 2'      | In-Situ     | <0.050             | <0.300          | <10.0   | <10.0  | <20.0  | <10.0  | <30.0   | 80.0                |
| SW1              | 10/14/2019 | 2'      | In-Situ     | <0.050             | <0.300          | <10.0   | <10.0  | <20.0  | <10.0  | <30.0   | 144                 |
| SW2b             | 10/14/2019 | 2'      | In-Situ     | <0.050             | <0.300          | <10.0   | <10.0  | <20.0  | <10.0  | <30.0   | 16.0                |
| SW3b             | 10/14/2019 | 2'      | In-Situ     | <0.050             | <0.300          | <10.0   | <10.0  | <20.0  | <10.0  | <30.0   | 528                 |
| SW4b             | 10/14/2019 | 2'      | In-Situ     | <0.050             | <0.300          | <10.0   | <10.0  | <20.0  | <10.0  | <30.0   | 240                 |
| WW1b             | 10/14/2019 | 2'      | In-Situ     | <0.050             | <0.300          | <10.0   | <10.0  | <20.0  | <10.0  | <30.0   | <b>2,800</b>        |
| WW2b             | 10/14/2019 | 2'      | In-Situ     | <0.050             | <0.300          | <10.0   | <10.0  | <20.0  | <10.0  | <30.0   | <b>960</b>          |
| WW3              | 10/14/2019 | 2'      | In-Situ     | <0.050             | <0.300          | <10.0   | <10.0  | <20.0  | <10.0  | <30.0   | <b>1,180</b>        |
| WW4              | 10/14/2019 | 2'      | In-Situ     | <0.050             | <0.300          | <10.0   | <10.0  | <20.0  | <10.0  | <30.0   | <b>2,240</b>        |
| EW3b             | 2/10/2020  | 2'      | In-Situ     | --                 | --              | <10.0   | <10.0  | <20.0  | <10.0  | <30.0   | --                  |
| Closure Criteria |            |         |             | 10                 | 50              | -   | -  | N/A  | -  | 100   | 600                 |

NOTES:  
- = Not analyzed for constituent  
**Bold** text denotes a concentration that exceeds the NMOCD Closure Criteria and/or NMOCD Reclamation Standard

## **Appendix A**

### **Depth to Groundwater Information**





# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

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

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

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

| POD Number                    | Code | POD Sub-basin | County | Q 64 | Q 16 | Q 4 | Sec | Tws | Rng | X      | Y        | Distance | DepthWell | DepthWater | Water Column |
|-------------------------------|------|---------------|--------|------|------|-----|-----|-----|-----|--------|----------|----------|-----------|------------|--------------|
| <a href="#">CP 01245 POD1</a> |      | CP            | LE     |      |      | 4   | 18  | 21S | 37E | 668676 | 3594411  | 265      | 220       |            |              |
| <a href="#">CP 00446 POD1</a> |      | CP            | LE     | 1    | 4    | 4   | 13  | 21S | 36E | 667871 | 3594424* | 632      | 185       | 148        | 37           |
| <a href="#">CP 00446 POD2</a> |      | CP            | LE     | 1    | 4    | 4   | 13  | 21S | 36E | 667871 | 3594424* | 632      | 200       | 151        | 49           |
| Average Depth to Water:       |      |               |        |      |      |     |     |     |     |        |          |          |           | 149 feet   |              |
| Minimum Depth:                |      |               |        |      |      |     |     |     |     |        |          |          |           | 148 feet   |              |
| Maximum Depth:                |      |               |        |      |      |     |     |     |     |        |          |          |           | 151 feet   |              |

Record Count: 3

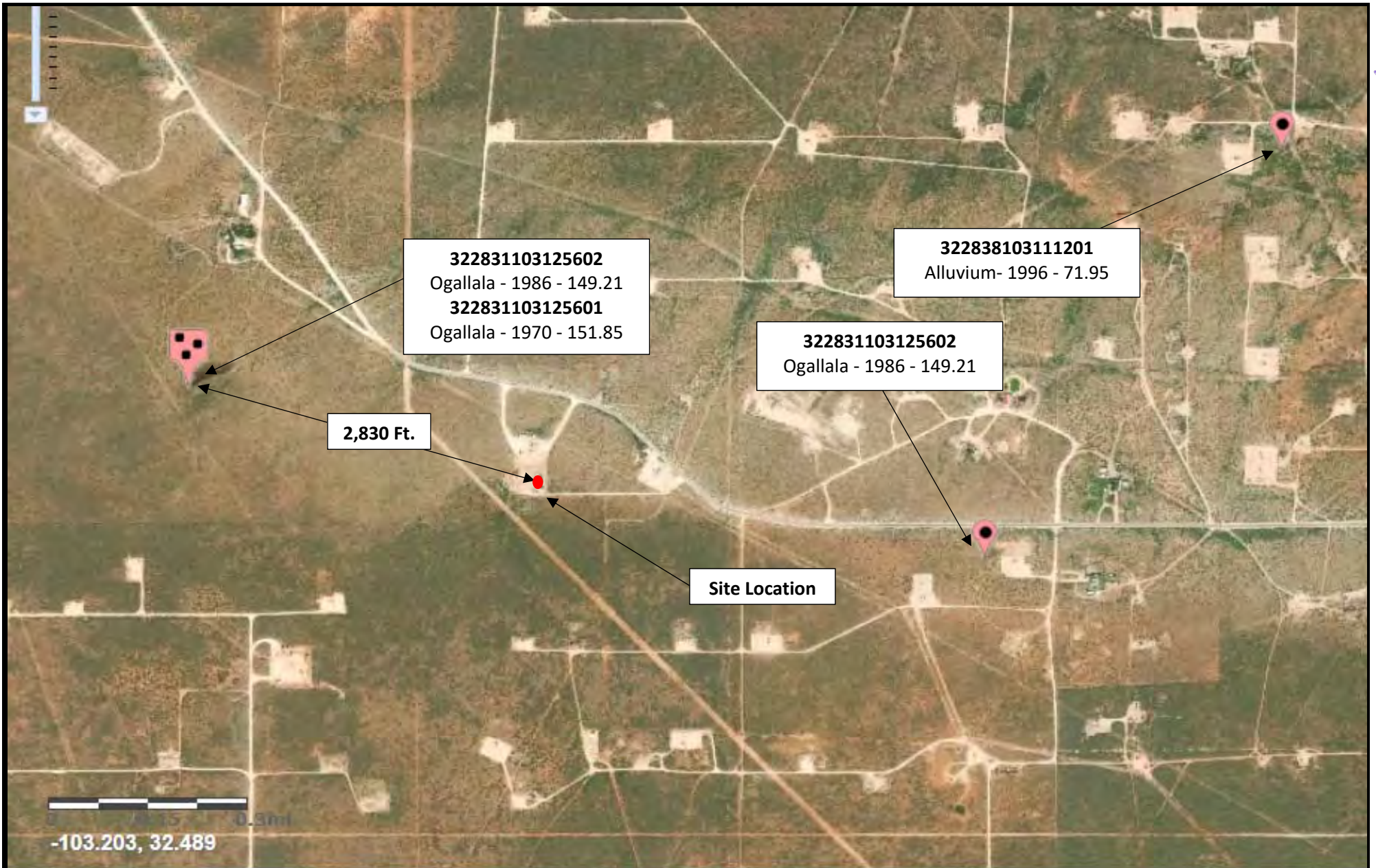
UTMNAD83 Radius Search (in meters):

Easting (X): 668475      Northing (Y): 3594237      Radius: 880

\*UTM location was derived from PLSS - see Help

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





**Legend:**

- Site Location
- USGS Water Well

**Figure 5**  
 USGS Well Proximity Map  
 Goodnight Midstream Permian, LLC  
 Piper SWD Fire  
 GPS: 32.472598, -103.20721  
 Lea County

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

Drafted:

Checked: jwl

Date: 8/27/19



USGS Home  
Contact USGS  
Search USGS

## National Water Information System: Web Interface

[USGS Water Resources](#)

Data Category:  Geographic Area:

Click to hideNews Bulletins

- [Introducing The Next Generation of USGS Water Data for the Nation](#)
- [Full News](#) 

Groundwater levels for the Nation

### Search Results -- 1 sites found

Agency code = usgs

site\_no list =

- 322831103125602

Minimum number of levels = 1

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

### USGS 322831103125602 21S.36E.13.412232

Lea County, New Mexico

Latitude 32°28'31", Longitude 103°12'56" NAD27

Land-surface elevation 3,557 feet above NAVD88

The depth of the well is 185 feet below land surface.

This well is completed in the Ogallala Formation (121OGLL) local aquifer.

#### Output formats

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

| Date                       | Time                 | ?<br>Water-level<br>date-time<br>accuracy | Water<br>level,<br>feet<br>below<br>land<br>surface | Water<br>level,<br>feet<br>above<br>specific<br>vertical<br>datum | Referenced<br>vertical<br>datum | ?<br>Water-level<br>accuracy | ?<br>Status          | ?<br>Method of<br>measurement | ?<br>Measuring<br>agency | ?<br>Source of<br>measurement |
|----------------------------|----------------------|---|---|---|---------------------------------|------------------------------|----------------------|-------------------------------|--------------------------|-------------------------------|
| <input type="text"/>       | <input type="text"/> | <input type="text"/>                      | <input type="text"/>                                | <input type="text"/>  | <input type="text"/>            | <input type="text"/>         | <input type="text"/> | <input type="text"/>          | <input type="text"/>     | <input type="text"/>          |
| 1967-10-10                 |                      | D   | 147.44  |   |                                 |                              | 2                    |                               | U                        |                               |
| 1970-12-15                 |                      | D   | 147.81  |   |                                 |                              | 2                    |                               | U                        |                               |
| <a href="#">1981-03-09</a> |                      | D   | <a href="#">149.29</a>                              |   |                                 |                              | 2                    |                               | U                        |                               |
| 1986-03-06                 |                      | D   | 149.21  |   |                                 |                              | 2                    |                               | 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          | 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](#)

[Accessibility](#)   [Plug-Ins](#)   [FOIA](#)   [Privacy](#)   [Policies and Notices](#)

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

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

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



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

Page Last Modified: 2019-08-19 17:48:17 EDT

0.47 0.44 nadww01



USGS Home  
Contact USGS  
Search USGS

National Water Information System: Web Interface

[USGS Water Resources](#)

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

Click to hideNews Bulletins

- [Introducing The Next Generation of USGS Water Data for the Nation](#)
- [Full News](#)

Groundwater levels for the Nation

Search Results -- 1 sites found

Agency code = usgs  
site\_no list =

- 322831103125601

Minimum number of levels = 1  
[Save file of selected sites](#) to local disk for future upload

USGS 322831103125601 21S.36E.13.41223

Lea County, New Mexico  
Latitude 32°28'31", Longitude 103°12'56" NAD27  
Land-surface elevation 3,557 feet above NAVD88  
The depth of the well is 200 feet below land surface.  
This well is completed in the Ogallala Formation (121OGLL) local aquifer.

Output formats

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

| Date       | Time | ?<br>Water-level<br>date-time<br>accuracy | Water<br>level,<br>feet<br>below<br>land<br>surface | Water<br>level,<br>feet<br>above<br>specific<br>vertical<br>datum | Referenced<br>vertical<br>datum | ?<br>Water-level<br>accuracy | ?<br>Status | ?<br>Method of<br>measurement | ?<br>Measuring<br>agency | ?<br>Source of<br>measurement |
|------------|------|---|---|---|---------------------------------|------------------------------|-------------|-------------------------------|--------------------------|-------------------------------|
|            |      |   |   |   |                                 |                              |             |                               |                          |                               |
| 1967-10-10 |      | D   | 150.88  |   |                                 |                              | 2           |                               |                          | U                             |
| 1968-03-19 |      | D   | 150.97  |   |                                 |                              | 2           |                               |                          | U                             |
| 1970-12-15 |      | D   | 151.85  |   |                                 |                              | 2           | P                             |                          | 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                         | P    | Site was being pumped.   |
| 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](#)

[Accessibility](#)   [Plug-Ins](#)   [FOIA](#)   [Privacy](#)   [Policies and Notices](#)

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

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

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



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

Page Last Modified: 2019-08-19 17:48:56 EDT

0.47 0.44 nadww01



USGS Home  
Contact USGS  
Search USGS

National Water Information System: Web Interface

[USGS Water Resources](#)

Data Category:

Geographic Area:

Groundwater

United States

GO

Click to hideNews Bulletins

- [Introducing The Next Generation of USGS Water Data for the Nation](#)
- [Full News](#) 

Groundwater levels for the Nation

Search Results -- 1 sites found

Agency code = usgs  
site\_no list =

- 322816103114201

Minimum number of levels = 1  
[Save file of selected sites](#) to local disk for future upload

USGS 322816103114201 21S.37E.18.442123

Lea County, New Mexico  
Latitude 32°28'16", Longitude 103°11'42" NAD27  
Land-surface elevation 3,513 feet above NAVD88  
The depth of the well is 125 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 | ?<br>Water-level<br>date-time<br>accuracy | Water<br>level,<br>feet<br>below<br>land<br>surface | Water<br>level,<br>feet<br>above<br>specific<br>vertical<br>datum | Referenced<br>vertical<br>datum | ?<br>Water-level<br>accuracy | ?<br>Status | ?<br>Method of<br>measurement | ?<br>Measuring<br>agency | ?<br>Source of<br>measur |
|------------|------|---|---|---|---------------------------------|------------------------------|-------------|-------------------------------|--------------------------|--------------------------|
|            |      |   |   |   |                                 |                              |             |                               |                          |                          |
| 1954-01-10 |      | D   | 99.70   |   |                                 |                              | 2           |                               | U                        |                          |
| 1968-03-13 |      | D   | 98.92   |   |                                 |                              | 2           |                               | U                        |                          |
| 1970-12-15 |      | D   | 99.66   |   |                                 |                              | 2           |                               | U                        |                          |
| 1981-02-27 |      | D   | 98.82   |   |                                 |                              | 2           |                               | U                        |                          |
| 1986-03-18 |      | D   | 98.85   |   |                                 |                              | 2           |                               | 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          | 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](#)

[Accessibility](#)   [Plug-Ins](#)   [FOIA](#)   [Privacy](#)   [Policies and Notices](#)

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

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

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



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

Page Last Modified: 2019-08-19 17:49:52 EDT

0.58 0.55 nadww01

## **Appendix B**

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





## Soil Profile

Date: 11-Jul-19Project: Piper SWD FireProject Number: 10769 Latitude: 32.472598 Longitude: -103.20721

Depth (ft. bgs)

Description

TD

|    |         |
|----|---------|
| 1  | Topsoil |
| 2  |         |
| 3  |         |
| 4  |         |
| 5  | Caliche |
| 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 |         |

Piper SWP Fire  
6/25/19  
Matthew Grieco

| Point   | Time  | PPM<br>$Cl_{low}$ | $Cl_{high}$              |
|---------|-------|-------------------|--------------------------|
| SP11@S  | 11:05 | <108              |                          |
| SP10@S  | 11:08 | 72728             | 4848                     |
| SP9@S   | 11:11 |                   | 4484                     |
| SP8@S   | 11:13 |                   | 6084                     |
| SP8@3'  |       | 164               |                          |
| SP7@S   | 11:15 |                   | 3252                     |
| SP6@S   | 11:18 |                   | 3532                     |
| SP5@S   | 11:23 |                   | 2068                     |
| → SP4@S | 11:26 |                   | 8900 ← Ignoring<br>point |
| SP3@S   | 11:29 |                   | 5644                     |
| SP2@S   | 11:34 |                   | 4484                     |
| SP1@S   | 11:36 |                   | 4148                     |
| SP10@1' |       |                   | 1508                     |
| SP10@2' |       |                   | 2504                     |
| SP10@3' |       | <108              | <1184                    |
| SP9@1'  |       |                   | 3832                     |
| SP9@2'  |       | <108              | <1144                    |
| SP9@3'  |       | 164               | <1144                    |
| SP8@1'  |       |                   | 3252                     |
| SP8@2'  |       | 1728              |                          |

Piper SWD fine  
6/25/19

Matthew Grieco

| <u>Point</u> | <u>Time</u> | <u>CI<sub>low</sub></u> | <u>CI<sub>high</sub></u> |
|--------------|-------------|-------------------------|--------------------------|
| SP7@1'       |             | 5                       | 3832                     |
| SP7@2'       |             |                         | 1508                     |
| SP7@3'       |             | 1728                    |                          |
| SP3@1'       |             | 604                     | <1184                    |
| SP3@2'       |             | 1252                    |                          |
| SP3@3'       |             | 604                     |                          |
| SP2@1'       |             | <108                    | <1184                    |
| SP2@2'       |             | 320                     |                          |
| SP2@3'       |             | 604                     |                          |
| SP6@1'       |             | 200                     | <1184                    |
| SP6@2'       |             | 200                     |                          |
| SP6@3'       |             | 364                     |                          |
| SP5@1'       |             | <108                    | <1184                    |
| SP5@2'       |             | <108 <sub>200</sub>     |                          |
| SP5@3'       |             | 200                     |                          |
| SP1@1'       |             | 556                     |                          |
| SP1@2'       |             | 1620                    |                          |
| SP1@3'       |             | 832                     |                          |

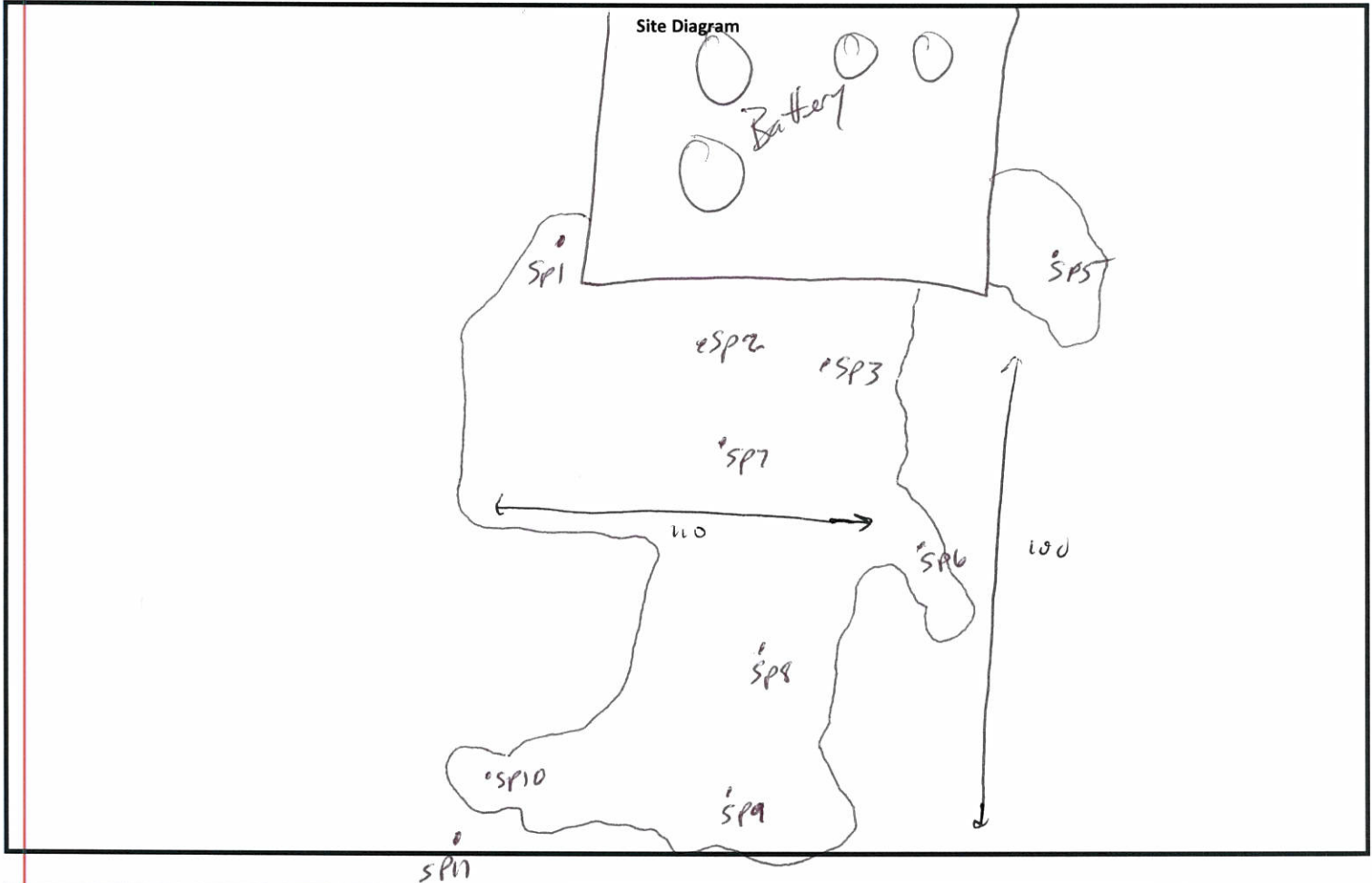




## Initial Release Assessment Form

Date: 6-26-19Project: Piper SWD Fire

Clean Up Level:

Project Number: 10769Latitude: 32.472598Longitude: -103.20721Notes: conduct initial site assessment; sample + field screen~Length: 110~Width: 100

~Area:

~Depth:

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?

☐☐



## Sample Log

Date:

8/16/2019

Project: Piper SWD Fire

Project Number: 10769

Latitude: 32.472598

Longitude: -103.20721

[illegible]

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

**Sidewall = SW #1 etc**

Test Trench = TT #1 @ ##

**Refusal = SP #1 @ 4'-R**

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

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

**Stockpile = Stockpile #1**

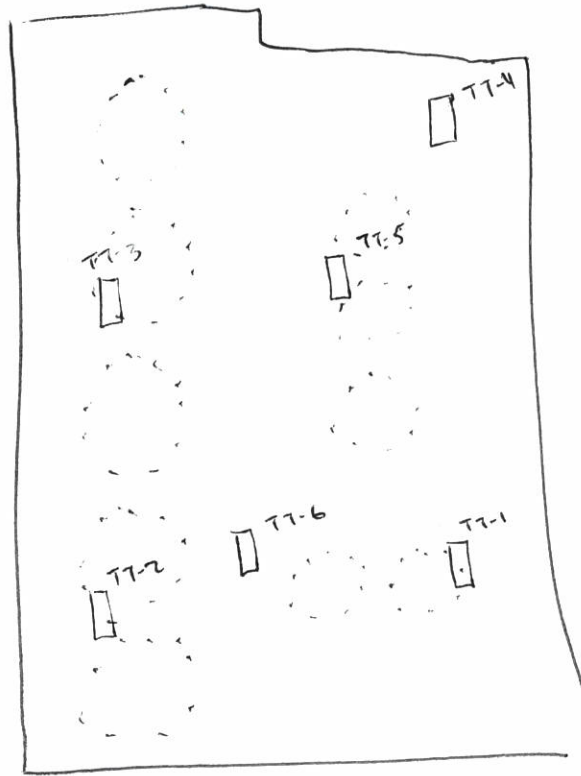
### GPS Sample Points, Center of Comp Areas



## Initial Release Assessment Form

Project: Piper SWD Fire Date: 8/16/2019  
 Clean Up Level: \_\_\_\_\_  
 Project Number: 10769 Latitude: 32.472598 Longitude: -103.20721

Site Diagram



Notes: Delineate Soil Impacts beneath Containment  
Conduct Chloride Field Test

~Length: 150 ~Width: 100 ~Area: 15,000 ~Depth: 1-7 ft

3-4 Representative Pictures of the Affected Area including sample locations?

Yes No



Necessary Samples Field Screened and on Ice?



Sample and Field Screen Data Entered on Sample Log?



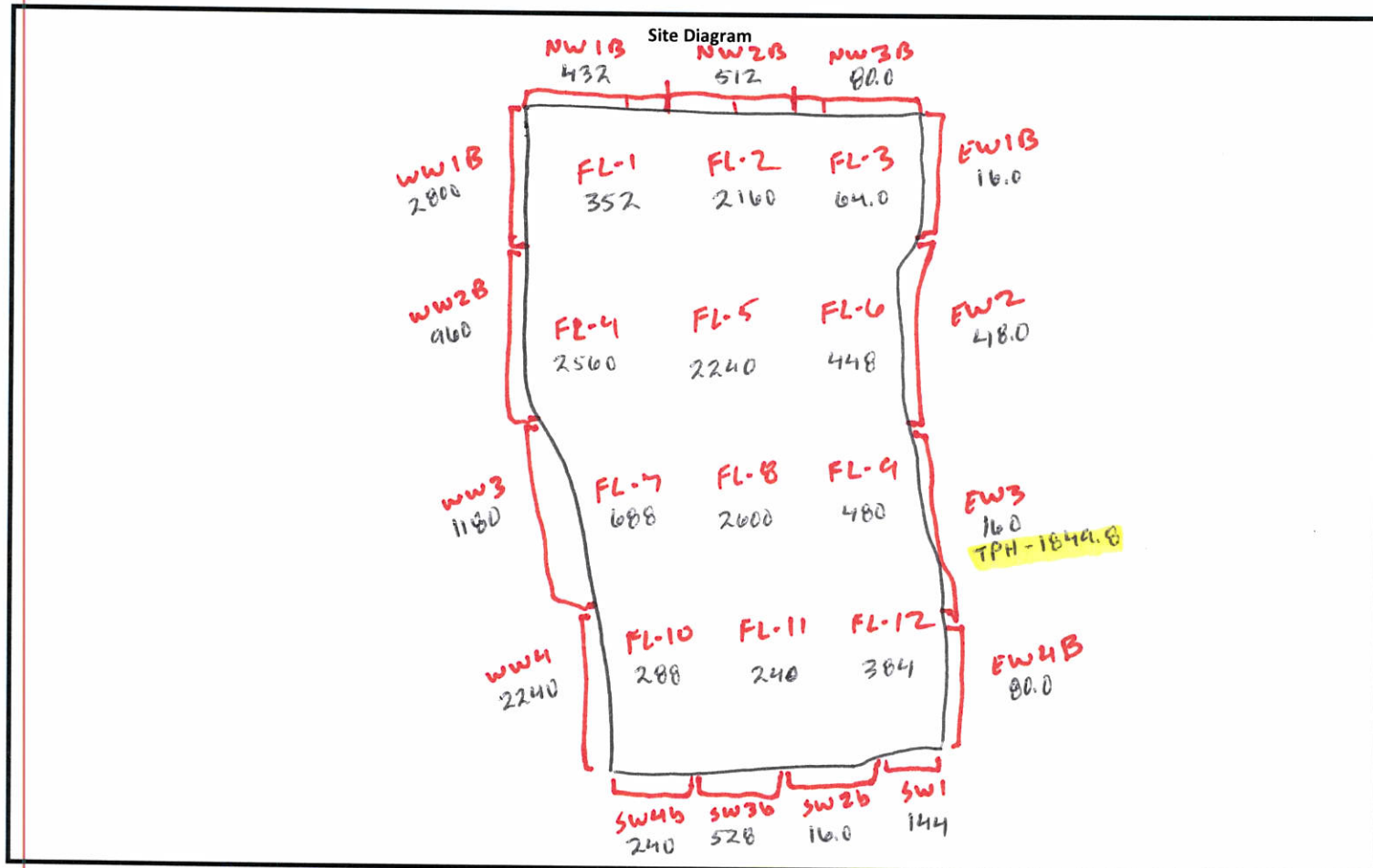
Was horizontal and vertical delineation achieved?





## Initial Release Assessment Form

Project: Piper SWD Five Date: 10/11/19  
 Project Number: 10769 Clean Up Level: \_\_\_\_\_  
 Latitude: 32.472599 Longitude: -103.20721



Notes: Excavate Chloride Impacted Sidewalls  
 Chloride Lab Results in Black Ink  
 TPH good on all sample w/ exception at EW3 BRN+BRN is over!  
 Chloride to East & Souths < 600 (Reclamation Standard)  
 Chloride on West can be up to 20,000 ppm

~Length:

~Width:

~Area:

~Depth:

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?

☐ ☐

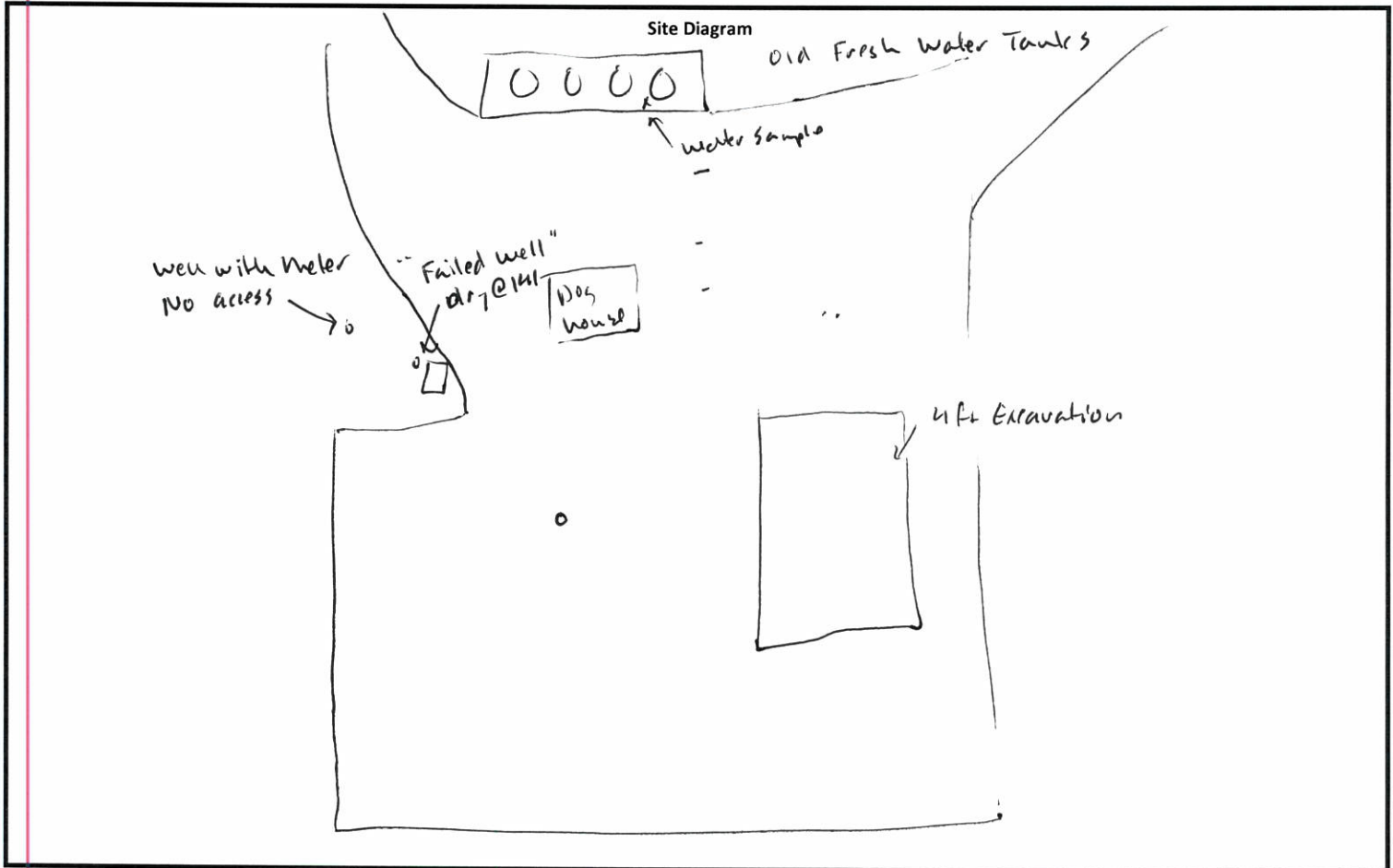




## Initial Release Assessment Form

Date: 3/13/2020Project: Piper SWP

Clean Up Level:

Project Number: 10769Latitude: 32.47259Longitude: -103.20721

Notes: Visit Site to Collect GW Samples

Functioning well connected to meter (DBBIS), no access

Assessed former well, banded dry to 141 ft

Collect Sample from water w/ Fresh Water Tanks

~Length:

~Width:

~Area:

~Depth:

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?

☐☐



## **Appendix C**

### **Laboratory Analytical Reports**



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

---

July 16, 2019

DANIEL DOMINGUEZ

Etech Environmental & Safety Solutions

P.O. Box 301

Lovington, NM 88260

RE: PIPER SWD FIRE

Enclosed are the results of analyses for samples received by the laboratory on 07/12/19 14:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 DANIEL DOMINGUEZ  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

|                   |                                 |                     |                |
|-------------------|---------------------------------|---------------------|----------------|
| Received:         | 07/12/2019                      | Sampling Date:      | 07/11/2019     |
| Reported:         | 07/16/2019                      | Sampling Type:      | Soil           |
| Project Name:     | PIPER SWD FIRE                  | Sampling Condition: | Cool & Intact  |
| Project Number:   | 10769                           | Sample Received By: | Tamara Oldaker |
| Project Location: | GOODNIGHT MIDSTREAM - LEA CO NM |                     |                |

**Sample ID: A 2 (H902410-01)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: ms |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 07/15/2019 | ND              | 2.07 | 103        | 2.00          | 2.53 |           |
| Toluene*       | <0.050 | 0.050           | 07/15/2019 | ND              | 2.12 | 106        | 2.00          | 4.03 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 07/15/2019 | ND              | 2.00 | 100        | 2.00          | 4.82 |           |
| Total Xylenes* | <0.150 | 0.150           | 07/15/2019 | ND              | 6.23 | 104        | 6.00          | 4.87 |           |
| Total BTEX     | <0.300 | 0.300           | 07/15/2019 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.3-129

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 48.0   | 16.0            | 07/15/2019 | ND              | 416 | 104        | 400           | 3.77 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 07/15/2019 | ND              | 188 | 94.1       | 200           | 2.24 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 07/15/2019 | ND              | 182 | 91.1       | 200           | 2.90 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 07/15/2019 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 77.0 % 41-142

Surrogate: 1-Chlorooctadecane 76.0 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 DANIEL DOMINGUEZ  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

|                   |                                 |                     |                |
|-------------------|---------------------------------|---------------------|----------------|
| Received:         | 07/12/2019                      | Sampling Date:      | 07/11/2019     |
| Reported:         | 07/16/2019                      | Sampling Type:      | Soil           |
| Project Name:     | PIPER SWD FIRE                  | Sampling Condition: | Cool & Intact  |
| Project Number:   | 10769                           | Sample Received By: | Tamara Oldaker |
| Project Location: | GOODNIGHT MIDSTREAM - LEA CO NM |                     |                |

**Sample ID: A 3 (H902410-02)**

| BTEx 8021B     |        | mg/kg           |            | Analyzed By: ms |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 07/15/2019 | ND              | 2.07 | 103        | 2.00          | 2.53 |           |
| Toluene*       | <0.050 | 0.050           | 07/15/2019 | ND              | 2.12 | 106        | 2.00          | 4.03 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 07/15/2019 | ND              | 2.00 | 100        | 2.00          | 4.82 |           |
| Total Xylenes* | <0.150 | 0.150           | 07/15/2019 | ND              | 6.23 | 104        | 6.00          | 4.87 |           |
| Total BTEX     | <0.300 | 0.300           | 07/15/2019 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.3-129

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 112    | 16.0            | 07/15/2019 | ND              | 416 | 104        | 400           | 3.77 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 07/15/2019 | ND              | 188 | 94.1       | 200           | 2.24 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 07/15/2019 | ND              | 182 | 91.1       | 200           | 2.90 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 07/15/2019 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 72.5 % 41-142

Surrogate: 1-Chlorooctadecane 74.8 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 DANIEL DOMINGUEZ  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

|                   |                                 |                     |                |
|-------------------|---------------------------------|---------------------|----------------|
| Received:         | 07/12/2019                      | Sampling Date:      | 07/11/2019     |
| Reported:         | 07/16/2019                      | Sampling Type:      | Soil           |
| Project Name:     | PIPER SWD FIRE                  | Sampling Condition: | Cool & Intact  |
| Project Number:   | 10769                           | Sample Received By: | Tamara Oldaker |
| Project Location: | GOODNIGHT MIDSTREAM - LEA CO NM |                     |                |

**Sample ID: A 4 (H902410-03)**

| BTEx 8021B     |        | mg/kg           |            | Analyzed By: ms |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 07/15/2019 | ND              | 2.07 | 103        | 2.00          | 2.53 |           |
| Toluene*       | <0.050 | 0.050           | 07/15/2019 | ND              | 2.12 | 106        | 2.00          | 4.03 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 07/15/2019 | ND              | 2.00 | 100        | 2.00          | 4.82 |           |
| Total Xylenes* | <0.150 | 0.150           | 07/15/2019 | ND              | 6.23 | 104        | 6.00          | 4.87 |           |
| Total BTEX     | <0.300 | 0.300           | 07/15/2019 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 112    | 16.0            | 07/15/2019 | ND              | 416 | 104        | 400           | 3.77 |           |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 07/15/2019 | ND              | 188 | 94.1       | 200           | 2.24 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 07/15/2019 | ND              | 182 | 91.1       | 200           | 2.90 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 07/15/2019 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 62.3 % 41-142

Surrogate: 1-Chlorooctadecane 61.0 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 DANIEL DOMINGUEZ  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

|                   |                                 |                     |                |
|-------------------|---------------------------------|---------------------|----------------|
| Received:         | 07/12/2019                      | Sampling Date:      | 07/11/2019     |
| Reported:         | 07/16/2019                      | Sampling Type:      | Soil           |
| Project Name:     | PIPER SWD FIRE                  | Sampling Condition: | Cool & Intact  |
| Project Number:   | 10769                           | Sample Received By: | Tamara Oldaker |
| Project Location: | GOODNIGHT MIDSTREAM - LEA CO NM |                     |                |

**Sample ID: B 1 (H902410-04)**

| BTEx 8021B     |        | mg/kg           |            | Analyzed By: ms |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 07/15/2019 | ND              | 2.07 | 103        | 2.00          | 2.53 |           |
| Toluene*       | <0.050 | 0.050           | 07/15/2019 | ND              | 2.12 | 106        | 2.00          | 4.03 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 07/15/2019 | ND              | 2.00 | 100        | 2.00          | 4.82 |           |
| Total Xylenes* | <0.150 | 0.150           | 07/15/2019 | ND              | 6.23 | 104        | 6.00          | 4.87 |           |
| Total BTEX     | <0.300 | 0.300           | 07/15/2019 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.3-129

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 96.0   | 16.0            | 07/15/2019 | ND              | 416 | 104        | 400           | 3.77 |           |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 07/15/2019 | ND              | 188 | 94.1       | 200           | 2.24 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 07/15/2019 | ND              | 182 | 91.1       | 200           | 2.90 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 07/15/2019 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 73.4 % 41-142

Surrogate: 1-Chlorooctadecane 72.1 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 DANIEL DOMINGUEZ  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

|                   |                                 |                     |                |
|-------------------|---------------------------------|---------------------|----------------|
| Received:         | 07/12/2019                      | Sampling Date:      | 07/11/2019     |
| Reported:         | 07/16/2019                      | Sampling Type:      | Soil           |
| Project Name:     | PIPER SWD FIRE                  | Sampling Condition: | Cool & Intact  |
| Project Number:   | 10769                           | Sample Received By: | Tamara Oldaker |
| Project Location: | GOODNIGHT MIDSTREAM - LEA CO NM |                     |                |

**Sample ID: B 2 (H902410-05)**

| BTEx 8021B     |        | mg/kg           |            | Analyzed By: ms |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 07/15/2019 | ND              | 2.07 | 103        | 2.00          | 2.53 |           |
| Toluene*       | <0.050 | 0.050           | 07/15/2019 | ND              | 2.12 | 106        | 2.00          | 4.03 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 07/15/2019 | ND              | 2.00 | 100        | 2.00          | 4.82 |           |
| Total Xylenes* | <0.150 | 0.150           | 07/15/2019 | ND              | 6.23 | 104        | 6.00          | 4.87 |           |
| Total BTEX     | <0.300 | 0.300           | 07/15/2019 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.3-129

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 32.0   | 16.0            | 07/15/2019 | ND              | 416 | 104        | 400           | 3.77 |           |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 07/15/2019 | ND              | 188 | 94.1       | 200           | 2.24 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 07/15/2019 | ND              | 182 | 91.1       | 200           | 2.90 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 07/15/2019 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 76.0 % 41-142

Surrogate: 1-Chlorooctadecane 76.1 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 DANIEL DOMINGUEZ  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

|                   |                                 |                     |                |
|-------------------|---------------------------------|---------------------|----------------|
| Received:         | 07/12/2019                      | Sampling Date:      | 07/11/2019     |
| Reported:         | 07/16/2019                      | Sampling Type:      | Soil           |
| Project Name:     | PIPER SWD FIRE                  | Sampling Condition: | Cool & Intact  |
| Project Number:   | 10769                           | Sample Received By: | Tamara Oldaker |
| Project Location: | GOODNIGHT MIDSTREAM - LEA CO NM |                     |                |

**Sample ID: B 3 (H902410-06)**

| BTEx 8021B     |        | mg/kg           |            | Analyzed By: ms |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 07/15/2019 | ND              | 2.07 | 103        | 2.00          | 2.53 |           |
| Toluene*       | <0.050 | 0.050           | 07/15/2019 | ND              | 2.12 | 106        | 2.00          | 4.03 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 07/15/2019 | ND              | 2.00 | 100        | 2.00          | 4.82 |           |
| Total Xylenes* | <0.150 | 0.150           | 07/15/2019 | ND              | 6.23 | 104        | 6.00          | 4.87 |           |
| Total BTEX     | <0.300 | 0.300           | 07/15/2019 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.3-129

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 128    | 16.0            | 07/15/2019 | ND              | 416 | 104        | 400           | 3.77 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 07/15/2019 | ND              | 188 | 94.1       | 200           | 2.24 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 07/15/2019 | ND              | 182 | 91.1       | 200           | 2.90 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 07/15/2019 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 73.4 % 41-142

Surrogate: 1-Chlorooctadecane 75.1 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 DANIEL DOMINGUEZ  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

|                   |                                 |                     |                |
|-------------------|---------------------------------|---------------------|----------------|
| Received:         | 07/12/2019                      | Sampling Date:      | 07/11/2019     |
| Reported:         | 07/16/2019                      | Sampling Type:      | Soil           |
| Project Name:     | PIPER SWD FIRE                  | Sampling Condition: | Cool & Intact  |
| Project Number:   | 10769                           | Sample Received By: | Tamara Oldaker |
| Project Location: | GOODNIGHT MIDSTREAM - LEA CO NM |                     |                |

**Sample ID: B 4 (H902410-07)**

| BTEx 8021B     |        | mg/kg           |            | Analyzed By: ms |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 07/15/2019 | ND              | 2.07 | 103        | 2.00          | 2.53 |           |
| Toluene*       | <0.050 | 0.050           | 07/15/2019 | ND              | 2.12 | 106        | 2.00          | 4.03 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 07/15/2019 | ND              | 2.00 | 100        | 2.00          | 4.82 |           |
| Total Xylenes* | <0.150 | 0.150           | 07/15/2019 | ND              | 6.23 | 104        | 6.00          | 4.87 |           |
| Total BTEX     | <0.300 | 0.300           | 07/15/2019 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.3-129

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 192    | 16.0            | 07/15/2019 | ND              | 416 | 104        | 400           | 3.77 |           |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 07/15/2019 | ND              | 188 | 94.1       | 200           | 2.24 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 07/15/2019 | ND              | 182 | 91.1       | 200           | 2.90 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 07/15/2019 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 76.5 % 41-142

Surrogate: 1-Chlorooctadecane 79.7 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 DANIEL DOMINGUEZ  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

|                   |                                 |                     |                |
|-------------------|---------------------------------|---------------------|----------------|
| Received:         | 07/12/2019                      | Sampling Date:      | 07/11/2019     |
| Reported:         | 07/16/2019                      | Sampling Type:      | Soil           |
| Project Name:     | PIPER SWD FIRE                  | Sampling Condition: | Cool & Intact  |
| Project Number:   | 10769                           | Sample Received By: | Tamara Oldaker |
| Project Location: | GOODNIGHT MIDSTREAM - LEA CO NM |                     |                |

**Sample ID: C 1 (H902410-08)**

| BTX 8021B      |        | mg/kg           |            | Analyzed By: ms |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 07/15/2019 | ND              | 2.07 | 103        | 2.00          | 2.53 |           |
| Toluene*       | <0.050 | 0.050           | 07/15/2019 | ND              | 2.12 | 106        | 2.00          | 4.03 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 07/15/2019 | ND              | 2.00 | 100        | 2.00          | 4.82 |           |
| Total Xylenes* | <0.150 | 0.150           | 07/15/2019 | ND              | 6.23 | 104        | 6.00          | 4.87 |           |
| Total BTX      | <0.300 | 0.300           | 07/15/2019 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.3-129

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 96.0   | 16.0            | 07/15/2019 | ND              | 416 | 104        | 400           | 3.77 |           |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 07/16/2019 | ND              | 201 | 100        | 200           | 3.33 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 07/16/2019 | ND              | 189 | 94.7       | 200           | 6.79 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 07/16/2019 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 103 % 41-142

Surrogate: 1-Chlorooctadecane 105 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 DANIEL DOMINGUEZ  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

|                   |                                 |                     |                |
|-------------------|---------------------------------|---------------------|----------------|
| Received:         | 07/12/2019                      | Sampling Date:      | 07/11/2019     |
| Reported:         | 07/16/2019                      | Sampling Type:      | Soil           |
| Project Name:     | PIPER SWD FIRE                  | Sampling Condition: | Cool & Intact  |
| Project Number:   | 10769                           | Sample Received By: | Tamara Oldaker |
| Project Location: | GOODNIGHT MIDSTREAM - LEA CO NM |                     |                |

**Sample ID: C 2 (H902410-09)**

| BTX 8021B      |        | mg/kg           |            | Analyzed By: ms |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 07/15/2019 | ND              | 2.07 | 103        | 2.00          | 2.53 |           |
| Toluene*       | <0.050 | 0.050           | 07/15/2019 | ND              | 2.12 | 106        | 2.00          | 4.03 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 07/15/2019 | ND              | 2.00 | 100        | 2.00          | 4.82 |           |
| Total Xylenes* | <0.150 | 0.150           | 07/15/2019 | ND              | 6.23 | 104        | 6.00          | 4.87 |           |
| Total BTX      | <0.300 | 0.300           | 07/15/2019 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 80.0   | 16.0            | 07/15/2019 | ND              | 416 | 104        | 400           | 3.77 |           |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 07/16/2019 | ND              | 201 | 100        | 200           | 3.33 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 07/16/2019 | ND              | 189 | 94.7       | 200           | 6.79 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 07/16/2019 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 105 % 41-142

Surrogate: 1-Chlorooctadecane 104 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 DANIEL DOMINGUEZ  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

|                   |                                 |                     |                |
|-------------------|---------------------------------|---------------------|----------------|
| Received:         | 07/12/2019                      | Sampling Date:      | 07/11/2019     |
| Reported:         | 07/16/2019                      | Sampling Type:      | Soil           |
| Project Name:     | PIPER SWD FIRE                  | Sampling Condition: | Cool & Intact  |
| Project Number:   | 10769                           | Sample Received By: | Tamara Oldaker |
| Project Location: | GOODNIGHT MIDSTREAM - LEA CO NM |                     |                |

**Sample ID: C 3 (H902410-10)**

| BTEx 8021B     |        | mg/kg           |            | Analyzed By: ms |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 07/15/2019 | ND              | 2.07 | 103        | 2.00          | 2.53 |           |
| Toluene*       | <0.050 | 0.050           | 07/15/2019 | ND              | 2.12 | 106        | 2.00          | 4.03 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 07/15/2019 | ND              | 2.00 | 100        | 2.00          | 4.82 |           |
| Total Xylenes* | <0.150 | 0.150           | 07/15/2019 | ND              | 6.23 | 104        | 6.00          | 4.87 |           |
| Total BTEx     | <0.300 | 0.300           | 07/15/2019 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.3-129

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 192    | 16.0            | 07/15/2019 | ND              | 416 | 104        | 400           | 3.77 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 07/16/2019 | ND              | 201 | 100        | 200           | 3.33 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 07/16/2019 | ND              | 189 | 94.7       | 200           | 6.79 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 07/16/2019 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 102 % 41-142

Surrogate: 1-Chlorooctadecane 102 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 DANIEL DOMINGUEZ  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

|                   |                                 |                     |                |
|-------------------|---------------------------------|---------------------|----------------|
| Received:         | 07/12/2019                      | Sampling Date:      | 07/11/2019     |
| Reported:         | 07/16/2019                      | Sampling Type:      | Soil           |
| Project Name:     | PIPER SWD FIRE                  | Sampling Condition: | Cool & Intact  |
| Project Number:   | 10769                           | Sample Received By: | Tamara Oldaker |
| Project Location: | GOODNIGHT MIDSTREAM - LEA CO NM |                     |                |

**Sample ID: C 4 (H902410-11)**

| BTX 8021B      |        | mg/kg           |            | Analyzed By: ms |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 07/15/2019 | ND              | 2.07 | 103        | 2.00          | 2.53 |           |
| Toluene*       | <0.050 | 0.050           | 07/15/2019 | ND              | 2.12 | 106        | 2.00          | 4.03 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 07/15/2019 | ND              | 2.00 | 100        | 2.00          | 4.82 |           |
| Total Xylenes* | <0.150 | 0.150           | 07/15/2019 | ND              | 6.23 | 104        | 6.00          | 4.87 |           |
| Total BTX      | <0.300 | 0.300           | 07/15/2019 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.3-129

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 80.0   | 16.0            | 07/15/2019 | ND              | 416 | 104        | 400           | 3.77 |           |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 07/16/2019 | ND              | 201 | 100        | 200           | 3.33 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 07/16/2019 | ND              | 189 | 94.7       | 200           | 6.79 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 07/16/2019 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 98.2 % 41-142

Surrogate: 1-Chlorooctadecane 98.6 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 DANIEL DOMINGUEZ  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

|                   |                                 |                     |                |
|-------------------|---------------------------------|---------------------|----------------|
| Received:         | 07/12/2019                      | Sampling Date:      | 07/11/2019     |
| Reported:         | 07/16/2019                      | Sampling Type:      | Soil           |
| Project Name:     | PIPER SWD FIRE                  | Sampling Condition: | Cool & Intact  |
| Project Number:   | 10769                           | Sample Received By: | Tamara Oldaker |
| Project Location: | GOODNIGHT MIDSTREAM - LEA CO NM |                     |                |

**Sample ID: D 3 (H902410-12)**

| BTEx 8021B     |        | mg/kg           |            | Analyzed By: ms |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 07/15/2019 | ND              | 2.07 | 103        | 2.00          | 2.53 |           |
| Toluene*       | <0.050 | 0.050           | 07/15/2019 | ND              | 2.12 | 106        | 2.00          | 4.03 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 07/15/2019 | ND              | 2.00 | 100        | 2.00          | 4.82 |           |
| Total Xylenes* | <0.150 | 0.150           | 07/15/2019 | ND              | 6.23 | 104        | 6.00          | 4.87 |           |
| Total BTEX     | <0.300 | 0.300           | 07/15/2019 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.3-129

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 224    | 16.0            | 07/15/2019 | ND              | 416 | 104        | 400           | 3.77 |           |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 07/16/2019 | ND              | 201 | 100        | 200           | 3.33 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 07/16/2019 | ND              | 189 | 94.7       | 200           | 6.79 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 07/16/2019 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 93.4 % 41-142

Surrogate: 1-Chlorooctadecane 95.7 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 DANIEL DOMINGUEZ  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

|                   |                                 |                     |                |
|-------------------|---------------------------------|---------------------|----------------|
| Received:         | 07/12/2019                      | Sampling Date:      | 07/11/2019     |
| Reported:         | 07/16/2019                      | Sampling Type:      | Soil           |
| Project Name:     | PIPER SWD FIRE                  | Sampling Condition: | Cool & Intact  |
| Project Number:   | 10769                           | Sample Received By: | Tamara Oldaker |
| Project Location: | GOODNIGHT MIDSTREAM - LEA CO NM |                     |                |

**Sample ID: D 4 (H902410-13)**

| BTEx 8021B     |        | mg/kg           |            | Analyzed By: ms |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 07/15/2019 | ND              | 2.07 | 103        | 2.00          | 2.53 |           |
| Toluene*       | <0.050 | 0.050           | 07/15/2019 | ND              | 2.12 | 106        | 2.00          | 4.03 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 07/15/2019 | ND              | 2.00 | 100        | 2.00          | 4.82 |           |
| Total Xylenes* | <0.150 | 0.150           | 07/15/2019 | ND              | 6.23 | 104        | 6.00          | 4.87 |           |
| Total BTEX     | <0.300 | 0.300           | 07/15/2019 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.3-129

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 176    | 16.0            | 07/15/2019 | ND              | 416 | 104        | 400           | 3.77 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 07/16/2019 | ND              | 201 | 100        | 200           | 3.33 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 07/16/2019 | ND              | 189 | 94.7       | 200           | 6.79 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 07/16/2019 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 97.8 % 41-142

Surrogate: 1-Chlorooctadecane 99.0 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 DANIEL DOMINGUEZ  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

|                   |                                 |                     |                |
|-------------------|---------------------------------|---------------------|----------------|
| Received:         | 07/12/2019                      | Sampling Date:      | 07/11/2019     |
| Reported:         | 07/16/2019                      | Sampling Type:      | Soil           |
| Project Name:     | PIPER SWD FIRE                  | Sampling Condition: | Cool & Intact  |
| Project Number:   | 10769                           | Sample Received By: | Tamara Oldaker |
| Project Location: | GOODNIGHT MIDSTREAM - LEA CO NM |                     |                |

**Sample ID: E 5 (H902410-14)**

| BTX 8021B      |        | mg/kg           |            | Analyzed By: ms |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 07/15/2019 | ND              | 2.07 | 103        | 2.00          | 2.53 |           |
| Toluene*       | <0.050 | 0.050           | 07/15/2019 | ND              | 2.12 | 106        | 2.00          | 4.03 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 07/15/2019 | ND              | 2.00 | 100        | 2.00          | 4.82 |           |
| Total Xylenes* | <0.150 | 0.150           | 07/15/2019 | ND              | 6.23 | 104        | 6.00          | 4.87 |           |
| Total BTX      | <0.300 | 0.300           | 07/15/2019 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.3-129

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 64.0   | 16.0            | 07/15/2019 | ND              | 416 | 104        | 400           | 3.77 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 07/16/2019 | ND              | 201 | 100        | 200           | 3.33 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 07/16/2019 | ND              | 189 | 94.7       | 200           | 6.79 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 07/16/2019 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 100 % 41-142

Surrogate: 1-Chlorooctadecane 100 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 DANIEL DOMINGUEZ  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

|                   |                                 |                     |                |
|-------------------|---------------------------------|---------------------|----------------|
| Received:         | 07/12/2019                      | Sampling Date:      | 07/11/2019     |
| Reported:         | 07/16/2019                      | Sampling Type:      | Soil           |
| Project Name:     | PIPER SWD FIRE                  | Sampling Condition: | Cool & Intact  |
| Project Number:   | 10769                           | Sample Received By: | Tamara Oldaker |
| Project Location: | GOODNIGHT MIDSTREAM - LEA CO NM |                     |                |

**Sample ID: E 6 (H902410-15)**

| BTEx 8021B     |        | mg/kg           |            | Analyzed By: ms |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 07/15/2019 | ND              | 2.07 | 103        | 2.00          | 2.53 |           |  |
| Toluene*       | <0.050 | 0.050           | 07/15/2019 | ND              | 2.12 | 106        | 2.00          | 4.03 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 07/15/2019 | ND              | 2.00 | 100        | 2.00          | 4.82 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 07/15/2019 | ND              | 6.23 | 104        | 6.00          | 4.87 |           |  |
| Total BTEx     | <0.300 | 0.300           | 07/15/2019 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.3-129

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 144    | 16.0            | 07/15/2019 | ND              | 416 | 104        | 400           | 3.77 |           |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 07/16/2019 | ND              | 201 | 100        | 200           | 3.33 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 07/16/2019 | ND              | 189 | 94.7       | 200           | 6.79 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 07/16/2019 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 96.9 % 41-142

Surrogate: 1-Chlorooctadecane 97.9 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



---

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

---

### Notes and Definitions

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

---

Cardinal Laboratories

\*=Accredited Analyte

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

A handwritten signature in cursive script, appearing to read "Celey D. Keene".

---

Celey D. Keene, Lab Director/Quality Manager

61 jo 81 ebgd



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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

|  |  |                       |  |                  |  |            |  |          |  |     |  |        |  |         |  |            |  |            |  |         |  |   |  |
|--|--|-----------------------|--|------------------|--|------------|--|----------|--|-----|--|--------|--|---------|--|------------|--|------------|--|---------|--|---|--|
| Company Name: Etech Environmental & Safety Solutions, Inc. |  | <b>BILL TO</b>        |  | ANALYSIS REQUEST |  |            |  |          |  |     |  |        |  |         |  |            |  |            |  |         |  |   |  |
| Project Manager:   |  | P.O. #:               |  |                  |  |            |  |          |  |     |  |        |  |         |  |            |  |            |  |         |  |   |  |
| Address: P.O. Box 301                                      |  | Company: E-tech       |  |                  |  |            |  |          |  |     |  |        |  |         |  |            |  |            |  |         |  |   |  |
| City: Lovington  |  | Attn:                 |  |                  |  |            |  |          |  |     |  |        |  |         |  |            |  |            |  |         |  |   |  |
| State: NM  |  | Address:              |  |                  |  |            |  |          |  |     |  |        |  |         |  |            |  |            |  |         |  |   |  |
| Phone #: (575) 396-2378                                    |  | Fax #: (575) 396-1429 |  |                  |  |            |  |          |  |     |  |        |  |         |  |            |  |            |  |         |  |   |  |
| Project #: 10769   |  | City:                 |  |                  |  |            |  |          |  |     |  |        |  |         |  |            |  |            |  |         |  |   |  |
| Project Name: Piper Sud Fire                               |  | State:                |  |                  |  |            |  |          |  |     |  |        |  |         |  |            |  |            |  |         |  |   |  |
| Project Location: Lea County                               |  | Zip:                  |  |                  |  |            |  |          |  |     |  |        |  |         |  |            |  |            |  |         |  |   |  |
| Sample Name: Hilda Villa                                   |  | Phone #:              |  |                  |  |            |  |          |  |     |  |        |  |         |  |            |  |            |  |         |  |   |  |
| Fax #:   |  |                       |  |                  |  |            |  |          |  |     |  |        |  |         |  |            |  |            |  |         |  |   |  |
| FOR LAB USE ONLY   |  |                       |  |                  |  |            |  |          |  |     |  |        |  |         |  |            |  |            |  |         |  |   |  |
| Lab I.D.   |  | (G)RAB OR (C)OMP.     |  | MATRIX           |  | PRESERV.   |  | SAMPLING |  |     |  |        |  |         |  |            |  |            |  |         |  |   |  |
| Sample I.D.  |  | # CONTAINERS          |  | GROUNDWATER      |  | WASTEWATER |  | SOIL     |  | OIL |  | SLUDGE |  | OTHER : |  | ACID/BASE: |  | ICE / COOL |  | OTHER : |  |   |  |
| H902410  |  | 1                     |  | ✓                |  | ✓          |  | ✓        |  | ✓   |  | ✓      |  | ✓       |  | 7-11-19    |  | 1:00pm     |  | ✓       |  | ✓ |  |
| 1  |  | AZ                    |  | ✓                |  | ✓          |  | ✓        |  | ✓   |  | ✓      |  | ✓       |  | 7-11-19    |  | 1:05       |  | ✓       |  | ✓ |  |
| 2  |  | A3                    |  | ✓                |  | ✓          |  | ✓        |  | ✓   |  | ✓      |  | ✓       |  | 7-11-19    |  | 1:15       |  | ✓       |  | ✓ |  |
| 3  |  | A4                    |  | ✓                |  | ✓          |  | ✓        |  | ✓   |  | ✓      |  | ✓       |  | 7-11-19    |  | 1:18       |  | ✓       |  | ✓ |  |
| 4  |  | B1                    |  | ✓                |  | ✓          |  | ✓        |  | ✓   |  | ✓      |  | ✓       |  | 7-11-19    |  | 1:22       |  | ✓       |  | ✓ |  |
| 5  |  | B2                    |  | ✓                |  | ✓          |  | ✓        |  | ✓   |  | ✓      |  | ✓       |  | 7-11-19    |  | 1:30       |  | ✓       |  | ✓ |  |
| 6  |  | B3                    |  | ✓                |  | ✓          |  | ✓        |  | ✓   |  | ✓      |  | ✓       |  | 7-11-19    |  | 1:45       |  | ✓       |  | ✓ |  |
| 7  |  | B4                    |  | ✓                |  | ✓          |  | ✓        |  | ✓   |  | ✓      |  | ✓       |  | 7-11-19    |  | 1:50       |  | ✓       |  | ✓ |  |
| 8  |  | C1                    |  | ✓                |  | ✓          |  | ✓        |  | ✓   |  | ✓      |  | ✓       |  | 7-11-19    |  | 2:00       |  | ✓       |  | ✓ |  |
| 9  |  | C2                    |  | ✓                |  | ✓          |  | ✓        |  | ✓   |  | ✓      |  | ✓       |  | 7-11-19    |  | 2:05       |  | ✓       |  | ✓ |  |
| 10   |  | C3                    |  | ✓                |  | ✓          |  | ✓        |  | ✓   |  | ✓      |  | ✓       |  | 7-11-19    |  | 2:35       |  | ✓       |  | ✓ |  |

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

|                  |               |              |               |
|------------------|---------------|--------------|---------------|
| Relinquished By: | Date: 7/12/19 | Received By: | Date: 7/12/19 |
| Relinquished By: | Time: 14:55   | Received By: | Time: 14:55   |

Delivered By: (Circle One) ☒ UPS ☐ Bus ☐ Other: 1.4c #97

Sample Condition: ☒ Cool ☐ Intact ☐ Yes ☐ No

CHECKED BY: (Initials) 70.

Phone Result: ☐ Yes ☐ No Add'l Phone #:   
 Fax Result: ☐ Yes ☐ No Add'l Fax #:   
 REMARKS:

Please email results to daniel@etechenv.com

FORM-006  
Revision 1.0

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





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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

FORM-006  
Revision 1.0

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



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

---

July 16, 2019

KIM MERRILL

Etech Environmental & Safety Solutions

P.O. Box 301

Lovington, NM 88260

RE: PIPER SWD FIRE

Enclosed are the results of analyses for samples received by the laboratory on 07/15/19 14:12.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 KIM MERRILL  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

|                   |                                 |                     |                |
|-------------------|---------------------------------|---------------------|----------------|
| Received:         | 07/15/2019                      | Sampling Date:      | 07/12/2019     |
| Reported:         | 07/16/2019                      | Sampling Type:      | Soil           |
| Project Name:     | PIPER SWD FIRE                  | Sampling Condition: | Cool & Intact  |
| Project Number:   | 10769                           | Sample Received By: | Tamara Oldaker |
| Project Location: | GOODNIGHT MIDSTREAM - LEA CO NM |                     |                |

**Sample ID: NSW # 1 (H902418-01)**

| BTEX 8260B     |        | mg/kg           |            | Analyzed By: ms |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.025 | 0.025           | 07/16/2019 | ND              | 2.02 | 101        | 2.00          | 3.53 |           |
| Toluene*       | <0.025 | 0.025           | 07/16/2019 | ND              | 2.10 | 105        | 2.00          | 2.18 |           |
| Ethylbenzene*  | <0.025 | 0.025           | 07/16/2019 | ND              | 2.17 | 108        | 2.00          | 2.08 |           |
| Total Xylenes* | <0.075 | 0.075           | 07/16/2019 | ND              | 7.06 | 118        | 6.00          | 1.10 |           |
| Total BTEX     | <0.150 | 0.150           | 07/16/2019 | ND              |      |            |               |      |           |

Surrogate: Dibromofluoromethane 97.0 % 90.4-111

Surrogate: Toluene-d8 98.7 % 85.3-114

Surrogate: 4-Bromofluorobenzene 91.5 % 80.1-121

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 112    | 16.0            | 07/16/2019 | ND              | 416 | 104        | 400           | 0.00 |           |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |       |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 07/16/2019 | ND              | 190 | 95.1       | 200           | 0.351 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 07/16/2019 | ND              | 189 | 94.6       | 200           | 4.27  |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 07/16/2019 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 74.8 % 41-142

Surrogate: 1-Chlorooctadecane 81.9 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 KIM MERRILL  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

|                   |                                 |                     |                |
|-------------------|---------------------------------|---------------------|----------------|
| Received:         | 07/15/2019                      | Sampling Date:      | 07/12/2019     |
| Reported:         | 07/16/2019                      | Sampling Type:      | Soil           |
| Project Name:     | PIPER SWD FIRE                  | Sampling Condition: | Cool & Intact  |
| Project Number:   | 10769                           | Sample Received By: | Tamara Oldaker |
| Project Location: | GOODNIGHT MIDSTREAM - LEA CO NM |                     |                |

**Sample ID: NSW # 2 (H902418-02)**

| BTEx 8260B     |        | mg/kg           |            | Analyzed By: ms |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.025 | 0.025           | 07/16/2019 | ND              | 2.02 | 101        | 2.00          | 3.53 |           |  |
| Toluene*       | <0.025 | 0.025           | 07/16/2019 | ND              | 2.10 | 105        | 2.00          | 2.18 |           |  |
| Ethylbenzene*  | <0.025 | 0.025           | 07/16/2019 | ND              | 2.17 | 108        | 2.00          | 2.08 |           |  |
| Total Xylenes* | <0.075 | 0.075           | 07/16/2019 | ND              | 7.06 | 118        | 6.00          | 1.10 |           |  |
| Total BTEx     | <0.150 | 0.150           | 07/16/2019 | ND              |      |            |               |      |           |  |

Surrogate: Dibromofluoromethane 99.6 % 90.4-111

Surrogate: Toluene-d8 100 % 85.3-114

Surrogate: 4-Bromofluorobenzene 90.2 % 80.1-121

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 4800   | 16.0            | 07/16/2019 | ND              | 416 | 104        | 400           | 0.00 |           |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |       |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 07/16/2019 | ND              | 190 | 95.1       | 200           | 0.351 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 07/16/2019 | ND              | 189 | 94.6       | 200           | 4.27  |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 07/16/2019 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 69.8 % 41-142

Surrogate: 1-Chlorooctadecane 76.7 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 KIM MERRILL  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

|                   |                                 |                     |                |
|-------------------|---------------------------------|---------------------|----------------|
| Received:         | 07/15/2019                      | Sampling Date:      | 07/12/2019     |
| Reported:         | 07/16/2019                      | Sampling Type:      | Soil           |
| Project Name:     | PIPER SWD FIRE                  | Sampling Condition: | Cool & Intact  |
| Project Number:   | 10769                           | Sample Received By: | Tamara Oldaker |
| Project Location: | GOODNIGHT MIDSTREAM - LEA CO NM |                     |                |

**Sample ID: ESW # 1 (H902418-03)**

| BTEx 8260B     |        | mg/kg           |            | Analyzed By: ms |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.025 | 0.025           | 07/16/2019 | ND              | 2.02 | 101        | 2.00          | 3.53 |           |
| Toluene*       | <0.025 | 0.025           | 07/16/2019 | ND              | 2.10 | 105        | 2.00          | 2.18 |           |
| Ethylbenzene*  | <0.025 | 0.025           | 07/16/2019 | ND              | 2.17 | 108        | 2.00          | 2.08 |           |
| Total Xylenes* | <0.075 | 0.075           | 07/16/2019 | ND              | 7.06 | 118        | 6.00          | 1.10 |           |
| Total BTEx     | <0.150 | 0.150           | 07/16/2019 | ND              |      |            |               |      |           |

Surrogate: Dibromofluoromethane 98.9 % 90.4-111

Surrogate: Toluene-d8 97.9 % 85.3-114

Surrogate: 4-Bromofluorobenzene 90.7 % 80.1-121

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 128    | 16.0            | 07/16/2019 | ND              | 416 | 104        | 400           | 0.00 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 07/16/2019 | ND              | 199 | 99.4       | 200           | 3.66 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 07/16/2019 | ND              | 218 | 109        | 200           | 2.06 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 07/16/2019 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 60.3 % 41-142

Surrogate: 1-Chlorooctadecane 71.4 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 KIM MERRILL  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

|                   |                                 |                     |                |
|-------------------|---------------------------------|---------------------|----------------|
| Received:         | 07/15/2019                      | Sampling Date:      | 07/12/2019     |
| Reported:         | 07/16/2019                      | Sampling Type:      | Soil           |
| Project Name:     | PIPER SWD FIRE                  | Sampling Condition: | Cool & Intact  |
| Project Number:   | 10769                           | Sample Received By: | Tamara Oldaker |
| Project Location: | GOODNIGHT MIDSTREAM - LEA CO NM |                     |                |

**Sample ID: ESW # 2 (H902418-04)**

| BTX 8260B      |        | mg/kg           |            | Analyzed By: ms |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.025 | 0.025           | 07/16/2019 | ND              | 2.02 | 101        | 2.00          | 3.53 |           |
| Toluene*       | <0.025 | 0.025           | 07/16/2019 | ND              | 2.10 | 105        | 2.00          | 2.18 |           |
| Ethylbenzene*  | <0.025 | 0.025           | 07/16/2019 | ND              | 2.17 | 108        | 2.00          | 2.08 |           |
| Total Xylenes* | <0.075 | 0.075           | 07/16/2019 | ND              | 7.06 | 118        | 6.00          | 1.10 |           |
| Total BTX      | <0.150 | 0.150           | 07/16/2019 | ND              |      |            |               |      |           |

Surrogate: Dibromofluoromethane 98.6 % 90.4-111

Surrogate: Toluene-d8 98.6 % 85.3-114

Surrogate: 4-Bromofluorobenzene 89.3 % 80.1-121

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 48.0   | 16.0            | 07/16/2019 | ND              | 416 | 104        | 400           | 0.00 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |       |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 07/16/2019 | ND              | 204 | 102        | 200           | 0.980 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 07/16/2019 | ND              | 211 | 106        | 200           | 4.39  |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 07/16/2019 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 101 % 41-142

Surrogate: 1-Chlorooctadecane 105 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 KIM MERRILL  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

|                   |                                 |                     |                |
|-------------------|---------------------------------|---------------------|----------------|
| Received:         | 07/15/2019                      | Sampling Date:      | 07/12/2019     |
| Reported:         | 07/16/2019                      | Sampling Type:      | Soil           |
| Project Name:     | PIPER SWD FIRE                  | Sampling Condition: | Cool & Intact  |
| Project Number:   | 10769                           | Sample Received By: | Tamara Oldaker |
| Project Location: | GOODNIGHT MIDSTREAM - LEA CO NM |                     |                |

**Sample ID: SSW # 1 (H902418-05)**

| BTX 8260B      |        | mg/kg           |            | Analyzed By: ms |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.025 | 0.025           | 07/16/2019 | ND              | 2.02 | 101        | 2.00          | 3.53 |           |
| Toluene*       | <0.025 | 0.025           | 07/16/2019 | ND              | 2.10 | 105        | 2.00          | 2.18 |           |
| Ethylbenzene*  | <0.025 | 0.025           | 07/16/2019 | ND              | 2.17 | 108        | 2.00          | 2.08 |           |
| Total Xylenes* | <0.075 | 0.075           | 07/16/2019 | ND              | 7.06 | 118        | 6.00          | 1.10 |           |
| Total BTX      | <0.150 | 0.150           | 07/16/2019 | ND              |      |            |               |      |           |

Surrogate: Dibromofluoromethane 99.1 % 90.4-111

Surrogate: Toluene-d8 98.0 % 85.3-114

Surrogate: 4-Bromofluorobenzene 90.8 % 80.1-121

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 64.0   | 16.0            | 07/16/2019 | ND              | 416 | 104        | 400           | 0.00 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |       |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 07/16/2019 | ND              | 204 | 102        | 200           | 0.980 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 07/16/2019 | ND              | 211 | 106        | 200           | 4.39  |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 07/16/2019 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 99.8 % 41-142

Surrogate: 1-Chlorooctadecane 104 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 KIM MERRILL  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

|                   |                                 |                     |                |
|-------------------|---------------------------------|---------------------|----------------|
| Received:         | 07/15/2019                      | Sampling Date:      | 07/12/2019     |
| Reported:         | 07/16/2019                      | Sampling Type:      | Soil           |
| Project Name:     | PIPER SWD FIRE                  | Sampling Condition: | Cool & Intact  |
| Project Number:   | 10769                           | Sample Received By: | Tamara Oldaker |
| Project Location: | GOODNIGHT MIDSTREAM - LEA CO NM |                     |                |

**Sample ID: WSW # 1 (H902418-06)**

| BTX 8260B      |        | mg/kg           |            | Analyzed By: ms |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.025 | 0.025           | 07/16/2019 | ND              | 2.02 | 101        | 2.00          | 3.53 |           |
| Toluene*       | <0.025 | 0.025           | 07/16/2019 | ND              | 2.10 | 105        | 2.00          | 2.18 |           |
| Ethylbenzene*  | <0.025 | 0.025           | 07/16/2019 | ND              | 2.17 | 108        | 2.00          | 2.08 |           |
| Total Xylenes* | <0.075 | 0.075           | 07/16/2019 | ND              | 7.06 | 118        | 6.00          | 1.10 |           |
| Total BTX      | <0.150 | 0.150           | 07/16/2019 | ND              |      |            |               |      |           |

Surrogate: Dibromofluoromethane 100 % 90.4-111

Surrogate: Toluene-d8 98.5 % 85.3-114

Surrogate: 4-Bromofluorobenzene 91.9 % 80.1-121

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 224    | 16.0            | 07/16/2019 | ND              | 416 | 104        | 400           | 0.00 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |       |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 07/16/2019 | ND              | 204 | 102        | 200           | 0.980 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 07/16/2019 | ND              | 211 | 106        | 200           | 4.39  |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 07/16/2019 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 97.0 % 41-142

Surrogate: 1-Chlorooctadecane 104 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 KIM MERRILL  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

|                   |                                 |                     |                |
|-------------------|---------------------------------|---------------------|----------------|
| Received:         | 07/15/2019                      | Sampling Date:      | 07/12/2019     |
| Reported:         | 07/16/2019                      | Sampling Type:      | Soil           |
| Project Name:     | PIPER SWD FIRE                  | Sampling Condition: | Cool & Intact  |
| Project Number:   | 10769                           | Sample Received By: | Tamara Oldaker |
| Project Location: | GOODNIGHT MIDSTREAM - LEA CO NM |                     |                |

**Sample ID: WSW # 2 (H902418-07)**

| BTX 8260B      |        | mg/kg           |            | Analyzed By: ms |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.025 | 0.025           | 07/16/2019 | ND              | 2.02 | 101        | 2.00          | 3.53 |           |
| Toluene*       | <0.025 | 0.025           | 07/16/2019 | ND              | 2.10 | 105        | 2.00          | 2.18 |           |
| Ethylbenzene*  | <0.025 | 0.025           | 07/16/2019 | ND              | 2.17 | 108        | 2.00          | 2.08 |           |
| Total Xylenes* | <0.075 | 0.075           | 07/16/2019 | ND              | 7.06 | 118        | 6.00          | 1.10 |           |
| Total BTX      | <0.150 | 0.150           | 07/16/2019 | ND              |      |            |               |      |           |

Surrogate: Dibromofluoromethane 99.2 % 90.4-111

Surrogate: Toluene-d8 99.1 % 85.3-114

Surrogate: 4-Bromofluorobenzene 90.1 % 80.1-121

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 64.0   | 16.0            | 07/16/2019 | ND              | 416 | 104        | 400           | 0.00 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |       |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 07/16/2019 | ND              | 204 | 102        | 200           | 0.980 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 07/16/2019 | ND              | 211 | 106        | 200           | 4.39  |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 07/16/2019 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 97.4 % 41-142

Surrogate: 1-Chlorooctadecane 103 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 KIM MERRILL  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

|                   |                                 |                     |                |
|-------------------|---------------------------------|---------------------|----------------|
| Received:         | 07/15/2019                      | Sampling Date:      | 07/12/2019     |
| Reported:         | 07/16/2019                      | Sampling Type:      | Soil           |
| Project Name:     | PIPER SWD FIRE                  | Sampling Condition: | Cool & Intact  |
| Project Number:   | 10769                           | Sample Received By: | Tamara Oldaker |
| Project Location: | GOODNIGHT MIDSTREAM - LEA CO NM |                     |                |

**Sample ID: EXC. B NSW (H902418-08)**

| BTEx 8260B     |        | mg/kg           |            | Analyzed By: ms |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.025 | 0.025           | 07/16/2019 | ND              | 2.02 | 101        | 2.00          | 3.53 |           |  |
| Toluene*       | <0.025 | 0.025           | 07/16/2019 | ND              | 2.10 | 105        | 2.00          | 2.18 |           |  |
| Ethylbenzene*  | <0.025 | 0.025           | 07/16/2019 | ND              | 2.17 | 108        | 2.00          | 2.08 |           |  |
| Total Xylenes* | <0.075 | 0.075           | 07/16/2019 | ND              | 7.06 | 118        | 6.00          | 1.10 |           |  |
| Total BTEx     | <0.150 | 0.150           | 07/16/2019 | ND              |      |            |               |      |           |  |

Surrogate: Dibromofluoromethane 98.5 % 90.4-111

Surrogate: Toluene-d8 97.9 % 85.3-114

Surrogate: 4-Bromofluorobenzene 87.8 % 80.1-121

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 272    | 16.0            | 07/16/2019 | ND              | 416 | 104        | 400           | 0.00 |           |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 07/16/2019 | ND              | 199 | 99.4       | 200           | 3.66 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 07/16/2019 | ND              | 218 | 109        | 200           | 2.06 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 07/16/2019 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 66.3 % 41-142

Surrogate: 1-Chlorooctadecane 74.2 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 KIM MERRILL  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

|                   |                                 |                     |                |
|-------------------|---------------------------------|---------------------|----------------|
| Received:         | 07/15/2019                      | Sampling Date:      | 07/12/2019     |
| Reported:         | 07/16/2019                      | Sampling Type:      | Soil           |
| Project Name:     | PIPER SWD FIRE                  | Sampling Condition: | Cool & Intact  |
| Project Number:   | 10769                           | Sample Received By: | Tamara Oldaker |
| Project Location: | GOODNIGHT MIDSTREAM - LEA CO NM |                     |                |

**Sample ID: EXC. B ESW (H902418-09)**

| BTX 8260B      |        | mg/kg           |            | Analyzed By: ms |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.025 | 0.025           | 07/16/2019 | ND              | 2.02 | 101        | 2.00          | 3.53 |           |
| Toluene*       | <0.025 | 0.025           | 07/16/2019 | ND              | 2.10 | 105        | 2.00          | 2.18 |           |
| Ethylbenzene*  | <0.025 | 0.025           | 07/16/2019 | ND              | 2.17 | 108        | 2.00          | 2.08 |           |
| Total Xylenes* | <0.075 | 0.075           | 07/16/2019 | ND              | 7.06 | 118        | 6.00          | 1.10 |           |
| Total BTX      | <0.150 | 0.150           | 07/16/2019 | ND              |      |            |               |      |           |

Surrogate: Dibromofluoromethane 100 % 90.4-111

Surrogate: Toluene-d8 98.7 % 85.3-114

Surrogate: 4-Bromofluorobenzene 91.4 % 80.1-121

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 416    | 16.0            | 07/16/2019 | ND              | 416 | 104        | 400           | 0.00 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 07/16/2019 | ND              | 199 | 99.4       | 200           | 3.66 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 07/16/2019 | ND              | 218 | 109        | 200           | 2.06 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 07/16/2019 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 61.5 % 41-142

Surrogate: 1-Chlorooctadecane 74.2 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 KIM MERRILL  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

|                   |                                 |                     |                |
|-------------------|---------------------------------|---------------------|----------------|
| Received:         | 07/15/2019                      | Sampling Date:      | 07/12/2019     |
| Reported:         | 07/16/2019                      | Sampling Type:      | Soil           |
| Project Name:     | PIPER SWD FIRE                  | Sampling Condition: | Cool & Intact  |
| Project Number:   | 10769                           | Sample Received By: | Tamara Oldaker |
| Project Location: | GOODNIGHT MIDSTREAM - LEA CO NM |                     |                |

**Sample ID: EXC. B SSW (H902418-10)**

| BTX 8260B      |        | mg/kg           |            | Analyzed By: ms |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.025 | 0.025           | 07/16/2019 | ND              | 2.02 | 101        | 2.00          | 3.53 |           |
| Toluene*       | <0.025 | 0.025           | 07/16/2019 | ND              | 2.10 | 105        | 2.00          | 2.18 |           |
| Ethylbenzene*  | <0.025 | 0.025           | 07/16/2019 | ND              | 2.17 | 108        | 2.00          | 2.08 |           |
| Total Xylenes* | <0.075 | 0.075           | 07/16/2019 | ND              | 7.06 | 118        | 6.00          | 1.10 |           |
| Total BTX      | <0.150 | 0.150           | 07/16/2019 | ND              |      |            |               |      |           |

Surrogate: Dibromofluoromethane 101 % 90.4-111

Surrogate: Toluene-d8 97.9 % 85.3-114

Surrogate: 4-Bromofluorobenzene 90.5 % 80.1-121

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 352    | 16.0            | 07/16/2019 | ND              | 416 | 104        | 400           | 0.00 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 07/16/2019 | ND              | 199 | 99.4       | 200           | 3.66 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 07/16/2019 | ND              | 218 | 109        | 200           | 2.06 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 07/16/2019 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 56.5 % 41-142

Surrogate: 1-Chlorooctadecane 72.5 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 KIM MERRILL  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

|                   |                                 |                     |                |
|-------------------|---------------------------------|---------------------|----------------|
| Received:         | 07/15/2019                      | Sampling Date:      | 07/12/2019     |
| Reported:         | 07/16/2019                      | Sampling Type:      | Soil           |
| Project Name:     | PIPER SWD FIRE                  | Sampling Condition: | Cool & Intact  |
| Project Number:   | 10769                           | Sample Received By: | Tamara Oldaker |
| Project Location: | GOODNIGHT MIDSTREAM - LEA CO NM |                     |                |

**Sample ID: EXC. B WSW (H902418-11)**

| BTX 8260B      |        | mg/kg           |            | Analyzed By: ms |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.025 | 0.025           | 07/16/2019 | ND              | 2.02 | 101        | 2.00          | 3.53 |           |
| Toluene*       | <0.025 | 0.025           | 07/16/2019 | ND              | 2.10 | 105        | 2.00          | 2.18 |           |
| Ethylbenzene*  | <0.025 | 0.025           | 07/16/2019 | ND              | 2.17 | 108        | 2.00          | 2.08 |           |
| Total Xylenes* | <0.075 | 0.075           | 07/16/2019 | ND              | 7.06 | 118        | 6.00          | 1.10 |           |
| Total BTX      | <0.150 | 0.150           | 07/16/2019 | ND              |      |            |               |      |           |

Surrogate: Dibromofluoromethane 101 % 90.4-111

Surrogate: Toluene-d8 99.4 % 85.3-114

Surrogate: 4-Bromofluorobenzene 90.2 % 80.1-121

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 15200  | 16.0            | 07/16/2019 | ND              | 416 | 104        | 400           | 0.00 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 07/16/2019 | ND              | 199 | 99.4       | 200           | 3.66 |           |
| DRO >C10-C28*    | 71.8   | 10.0            | 07/16/2019 | ND              | 218 | 109        | 200           | 2.06 |           |
| EXT DRO >C28-C36 | 21.5   | 10.0            | 07/16/2019 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 71.5 % 41-142

Surrogate: 1-Chlorooctadecane 92.5 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



---

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

---

### Notes and Definitions

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

---

Cardinal Laboratories

\*=Accredited Analyte

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

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

---

Celey D. Keene, Lab Director/Quality Manager



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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





## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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





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

---

August 29, 2019

DANIEL DOMINGUEZ

Etech Environmental & Safety Solutions

P.O. Box 301

Lovington, NM 88260

RE: PIPER SWD FIRE

Enclosed are the results of analyses for samples received by the laboratory on 08/23/19 15:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 DANIEL DOMINGUEZ  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

|                   |                                   |                     |                |
|-------------------|-----------------------------------|---------------------|----------------|
| Received:         | 08/23/2019                        | Sampling Date:      | 08/16/2019     |
| Reported:         | 08/29/2019                        | Sampling Type:      | Soil           |
| Project Name:     | PIPER SWD FIRE                    | Sampling Condition: | Cool & Intact  |
| Project Number:   | 10769                             | Sample Received By: | Tamara Oldaker |
| Project Location: | GOODNIGHT MIDSTREAM - M, 18,21,37 |                     |                |

**Sample ID: TT - 1 @ SURFACE (H902917-01)**

| BTX 8021B            |              | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |
|----------------------|--------------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte              | Result       | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*             | <0.050       | 0.050           | 08/27/2019 | ND              | 1.72 | 86.2       | 2.00          | 2.96 |           |
| Toluene*             | <0.050       | 0.050           | 08/27/2019 | ND              | 1.93 | 96.5       | 2.00          | 2.57 |           |
| <b>Ethylbenzene*</b> | <b>0.066</b> | 0.050           | 08/27/2019 | ND              | 1.98 | 99.2       | 2.00          | 3.86 |           |
| Total Xylenes*       | <0.150       | 0.150           | 08/27/2019 | ND              | 6.02 | 100        | 6.00          | 4.76 |           |
| Total BTX            | <0.300       | 0.300           | 08/27/2019 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 106 % 73.3-129

| Chloride, SM4500Cl-B |             | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result      | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| <b>Chloride</b>      | <b>4800</b> | 16.0            | 08/28/2019 | ND              | 416 | 104        | 400           | 3.77 |           |

| TPH 8015M                  |            | mg/kg           |            | Analyzed By: CK |     |            |               |       |           |
|----------------------------|------------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte                    | Result     | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*                | <10.0      | 10.0            | 08/28/2019 | ND              | 229 | 114        | 200           | 3.48  |           |
| <b>DRO &gt;C10-C28*</b>    | <b>672</b> | 10.0            | 08/28/2019 | ND              | 232 | 116        | 200           | 0.504 | QM-07     |
| <b>EXT DRO &gt;C28-C36</b> | <b>192</b> | 10.0            | 08/28/2019 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 76.1 % 41-142

Surrogate: 1-Chlorooctadecane 104 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 DANIEL DOMINGUEZ  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

|                   |                                   |                     |                |
|-------------------|-----------------------------------|---------------------|----------------|
| Received:         | 08/23/2019                        | Sampling Date:      | 08/16/2019     |
| Reported:         | 08/29/2019                        | Sampling Type:      | Soil           |
| Project Name:     | PIPER SWD FIRE                    | Sampling Condition: | Cool & Intact  |
| Project Number:   | 10769                             | Sample Received By: | Tamara Oldaker |
| Project Location: | GOODNIGHT MIDSTREAM - M, 18,21,37 |                     |                |

**Sample ID: TT - 1 @ 4' (H902917-02)**

| BTEx 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 08/27/2019 | ND              | 1.72 | 86.2       | 2.00          | 2.96 |           |
| Toluene*       | <0.050 | 0.050           | 08/27/2019 | ND              | 1.93 | 96.5       | 2.00          | 2.57 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 08/27/2019 | ND              | 1.98 | 99.2       | 2.00          | 3.86 |           |
| Total Xylenes* | <0.150 | 0.150           | 08/27/2019 | ND              | 6.02 | 100        | 6.00          | 4.76 |           |
| Total BTEX     | <0.300 | 0.300           | 08/27/2019 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.3-129

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 144    | 16.0            | 08/28/2019 | ND              | 432 | 108        | 400           | 0.00 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: CK |     |            |               |       |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 08/28/2019 | ND              | 229 | 114        | 200           | 3.48  |           |
| DRO >C10-C28*    | 45.8   | 10.0            | 08/28/2019 | ND              | 232 | 116        | 200           | 0.504 |           |
| EXT DRO >C28-C36 | 12.1   | 10.0            | 08/28/2019 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 90.9 % 41-142

Surrogate: 1-Chlorooctadecane 98.0 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 DANIEL DOMINGUEZ  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

|                   |                                   |                     |                |
|-------------------|-----------------------------------|---------------------|----------------|
| Received:         | 08/23/2019                        | Sampling Date:      | 08/16/2019     |
| Reported:         | 08/29/2019                        | Sampling Type:      | Soil           |
| Project Name:     | PIPER SWD FIRE                    | Sampling Condition: | Cool & Intact  |
| Project Number:   | 10769                             | Sample Received By: | Tamara Oldaker |
| Project Location: | GOODNIGHT MIDSTREAM - M, 18,21,37 |                     |                |

**Sample ID: TT - 2 @ SURFACE (H902917-03)**

| BTX 8021B      |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 08/27/2019 | ND              | 1.72 | 86.2       | 2.00          | 2.96 |           |  |
| Toluene*       | <0.050 | 0.050           | 08/27/2019 | ND              | 1.93 | 96.5       | 2.00          | 2.57 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 08/27/2019 | ND              | 1.98 | 99.2       | 2.00          | 3.86 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 08/27/2019 | ND              | 6.02 | 100        | 6.00          | 4.76 |           |  |
| Total BTX      | <0.300 | 0.300           | 08/27/2019 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 108 % 73.3-129

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 3040   | 16.0            | 08/28/2019 | ND              | 432 | 108        | 400           | 0.00 |           |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: CK |     |            |               |       |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 08/28/2019 | ND              | 229 | 114        | 200           | 3.48  |           |
| DRO >C10-C28*    | 134    | 10.0            | 08/28/2019 | ND              | 232 | 116        | 200           | 0.504 |           |
| EXT DRO >C28-C36 | 29.5   | 10.0            | 08/28/2019 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 93.6 % 41-142

Surrogate: 1-Chlorooctadecane 113 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 DANIEL DOMINGUEZ  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

|                   |                                   |                     |                |
|-------------------|-----------------------------------|---------------------|----------------|
| Received:         | 08/23/2019                        | Sampling Date:      | 08/16/2019     |
| Reported:         | 08/29/2019                        | Sampling Type:      | Soil           |
| Project Name:     | PIPER SWD FIRE                    | Sampling Condition: | Cool & Intact  |
| Project Number:   | 10769                             | Sample Received By: | Tamara Oldaker |
| Project Location: | GOODNIGHT MIDSTREAM - M, 18,21,37 |                     |                |

**Sample ID: TT - 2 @ 9' (H902917-04)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 08/27/2019 | ND              | 1.72 | 86.2       | 2.00          | 2.96 |           |  |
| Toluene*       | <0.050 | 0.050           | 08/27/2019 | ND              | 1.93 | 96.5       | 2.00          | 2.57 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 08/27/2019 | ND              | 1.98 | 99.2       | 2.00          | 3.86 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 08/27/2019 | ND              | 6.02 | 100        | 6.00          | 4.76 |           |  |
| Total BTEX     | <0.300 | 0.300           | 08/27/2019 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 107 % 73.3-129

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 800    | 16.0            | 08/28/2019 | ND              | 432 | 108        | 400           | 0.00 |           |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: CK |     |            |               |       |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 08/28/2019 | ND              | 229 | 114        | 200           | 3.48  |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 08/28/2019 | ND              | 232 | 116        | 200           | 0.504 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 08/28/2019 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 93.1 % 41-142

Surrogate: 1-Chlorooctadecane 100 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 DANIEL DOMINGUEZ  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

|                   |                                   |                     |                |
|-------------------|-----------------------------------|---------------------|----------------|
| Received:         | 08/23/2019                        | Sampling Date:      | 08/16/2019     |
| Reported:         | 08/29/2019                        | Sampling Type:      | Soil           |
| Project Name:     | PIPER SWD FIRE                    | Sampling Condition: | Cool & Intact  |
| Project Number:   | 10769                             | Sample Received By: | Tamara Oldaker |
| Project Location: | GOODNIGHT MIDSTREAM - M, 18,21,37 |                     |                |

**Sample ID: TT - 3 @ SURFACE (H902917-05)**

| BTX 8021B      |              | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |
|----------------|--------------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result       | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050       | 0.050           | 08/27/2019 | ND              | 1.72 | 86.2       | 2.00          | 2.96 |           |
| Toluene*       | <0.050       | 0.050           | 08/27/2019 | ND              | 1.93 | 96.5       | 2.00          | 2.57 |           |
| Ethylbenzene*  | <b>0.061</b> | 0.050           | 08/27/2019 | ND              | 1.98 | 99.2       | 2.00          | 3.86 |           |
| Total Xylenes* | <b>0.196</b> | 0.150           | 08/27/2019 | ND              | 6.02 | 100        | 6.00          | 4.76 |           |
| Total BTX      | <0.300       | 0.300           | 08/27/2019 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 118 % 73.3-129

| Chloride, SM4500Cl-B |             | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result      | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | <b>2320</b> | 16.0            | 08/28/2019 | ND              | 432 | 108        | 400           | 0.00 |           |

| TPH 8015M        |             | mg/kg           |            | Analyzed By: CK |     |            |               |       |           | S-04  |
|------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|-------|
| Analyte          | Result      | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |       |
| GRO C6-C10*      | <b>27.6</b> | 10.0            | 08/28/2019 | ND              | 227 | 113        | 200           | 0.151 |           |       |
| DRO >C10-C28*    | <b>3210</b> | 10.0            | 08/28/2019 | ND              | 234 | 117        | 200           | 3.14  |           | QM-07 |
| EXT DRO >C28-C36 | <b>938</b>  | 10.0            | 08/28/2019 | ND              |     |            |               |       |           |       |

Surrogate: 1-Chlorooctane 109 % 41-142

Surrogate: 1-Chlorooctadecane 190 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 DANIEL DOMINGUEZ  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

|                   |                                   |                     |                |
|-------------------|-----------------------------------|---------------------|----------------|
| Received:         | 08/23/2019                        | Sampling Date:      | 08/16/2019     |
| Reported:         | 08/29/2019                        | Sampling Type:      | Soil           |
| Project Name:     | PIPER SWD FIRE                    | Sampling Condition: | Cool & Intact  |
| Project Number:   | 10769                             | Sample Received By: | Tamara Oldaker |
| Project Location: | GOODNIGHT MIDSTREAM - M, 18,21,37 |                     |                |

**Sample ID: TT - 3 @ 7' (H902917-06)**

| BTEx 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 08/27/2019 | ND              | 1.72 | 86.2       | 2.00          | 2.96 |           |  |
| Toluene*       | <0.050 | 0.050           | 08/27/2019 | ND              | 1.93 | 96.5       | 2.00          | 2.57 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 08/27/2019 | ND              | 1.98 | 99.2       | 2.00          | 3.86 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 08/27/2019 | ND              | 6.02 | 100        | 6.00          | 4.76 |           |  |
| Total BTEx     | <0.300 | 0.300           | 08/27/2019 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.3-129

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 928    | 16.0            | 08/28/2019 | ND              | 432 | 108        | 400           | 0.00 |           |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: CK |     |            |               |       |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 08/28/2019 | ND              | 227 | 113        | 200           | 0.151 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 08/28/2019 | ND              | 234 | 117        | 200           | 3.14  |           |
| EXT DRO >C28-C36 | 16.6   | 10.0            | 08/28/2019 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 102 % 41-142

Surrogate: 1-Chlorooctadecane 114 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 DANIEL DOMINGUEZ  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

|                   |                                   |                     |                |
|-------------------|-----------------------------------|---------------------|----------------|
| Received:         | 08/23/2019                        | Sampling Date:      | 08/16/2019     |
| Reported:         | 08/29/2019                        | Sampling Type:      | Soil           |
| Project Name:     | PIPER SWD FIRE                    | Sampling Condition: | Cool & Intact  |
| Project Number:   | 10769                             | Sample Received By: | Tamara Oldaker |
| Project Location: | GOODNIGHT MIDSTREAM - M, 18,21,37 |                     |                |

**Sample ID: TT - 4 @ SURFACE (H902917-07)**

| BTX 8021B      |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 08/27/2019 | ND              | 1.72 | 86.2       | 2.00          | 2.96 |           |  |
| Toluene*       | <0.050 | 0.050           | 08/27/2019 | ND              | 1.93 | 96.5       | 2.00          | 2.57 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 08/27/2019 | ND              | 1.98 | 99.2       | 2.00          | 3.86 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 08/27/2019 | ND              | 6.02 | 100        | 6.00          | 4.76 |           |  |
| Total BTX      | <0.300 | 0.300           | 08/27/2019 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 108 % 73.3-129

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 16.0   | 16.0            | 08/28/2019 | ND              | 432 | 108        | 400           | 0.00 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: CK |     |            |               |       |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 08/28/2019 | ND              | 227 | 113        | 200           | 0.151 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 08/28/2019 | ND              | 234 | 117        | 200           | 3.14  |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 08/28/2019 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 103 % 41-142

Surrogate: 1-Chlorooctadecane 115 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 DANIEL DOMINGUEZ  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

|                   |                                   |                     |                |
|-------------------|-----------------------------------|---------------------|----------------|
| Received:         | 08/23/2019                        | Sampling Date:      | 08/16/2019     |
| Reported:         | 08/29/2019                        | Sampling Type:      | Soil           |
| Project Name:     | PIPER SWD FIRE                    | Sampling Condition: | Cool & Intact  |
| Project Number:   | 10769                             | Sample Received By: | Tamara Oldaker |
| Project Location: | GOODNIGHT MIDSTREAM - M, 18,21,37 |                     |                |

**Sample ID: TT - 4 @ 1' (H902917-08)**

| BTEx 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 08/27/2019 | ND              | 1.72 | 86.2       | 2.00          | 2.96 |           |  |
| Toluene*       | <0.050 | 0.050           | 08/27/2019 | ND              | 1.93 | 96.5       | 2.00          | 2.57 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 08/27/2019 | ND              | 1.98 | 99.2       | 2.00          | 3.86 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 08/27/2019 | ND              | 6.02 | 100        | 6.00          | 4.76 |           |  |
| Total BTEx     | <0.300 | 0.300           | 08/27/2019 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.3-129

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 32.0   | 16.0            | 08/28/2019 | ND              | 432 | 108        | 400           | 0.00 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: CK |     |            |               |       |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 08/28/2019 | ND              | 227 | 113        | 200           | 0.151 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 08/28/2019 | ND              | 234 | 117        | 200           | 3.14  |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 08/28/2019 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 106 % 41-142

Surrogate: 1-Chlorooctadecane 120 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



---

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

---

### Notes and Definitions

|       |  |
|-------|--|
| S-04  | The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.   |
| QM-07 | The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.                               |
| ND    | Analyte NOT DETECTED at or above the reporting limit   |
| RPD   | Relative Percent Difference  |
| **    | Samples not received at proper temperature of 6°C or below.  |
| ***   | Insufficient time to reach temperature.  |
| -     | Chloride by SM4500Cl-B does not require samples be received at or below 6°C<br>Samples reported on an as received basis (wet) unless otherwise noted on report |

---

Cardinal Laboratories

\*=Accredited Analyte

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

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

---

Celey D. Keene, Lab Director/Quality Manager



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

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

---

October 23, 2019

DANIEL DOMINGUEZ

Etech Environmental & Safety Solutions

P.O. Box 301

Lovington, NM 88260

RE: PIPER SWD FIRE

Enclosed are the results of analyses for samples received by the laboratory on 10/17/19 16:41.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager





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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 DANIEL DOMINGUEZ  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

|                   |                             |                     |               |
|-------------------|-----------------------------|---------------------|---------------|
| Received:         | 10/17/2019                  | Sampling Date:      | 10/14/2019    |
| Reported:         | 10/23/2019                  | Sampling Type:      | Soil          |
| Project Name:     | PIPER SWD FIRE              | Sampling Condition: | Cool & Intact |
| Project Number:   | GOODNIGHT MIDSTREAM - 10769 | Sample Received By: | Jodi Henson   |
| Project Location: | UL M SEC18 T21S R37W        |                     |               |

**Sample ID: FLOOR 1 (H903563-01)**

| BTX 8021B      |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 10/19/2019 | ND              | 1.88 | 93.9       | 2.00          | 5.62 |           |  |
| Toluene*       | <0.050 | 0.050           | 10/19/2019 | ND              | 1.89 | 94.7       | 2.00          | 5.58 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 10/19/2019 | ND              | 1.90 | 95.0       | 2.00          | 5.65 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 10/19/2019 | ND              | 5.69 | 94.8       | 6.00          | 5.77 |           |  |
| Total BTX      | <0.300 | 0.300           | 10/19/2019 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 73.3-129

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 352    | 16.0            | 10/22/2019 | ND              | 432 | 108        | 400           | 0.00 |           |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 10/19/2019 | ND              | 205 | 103        | 200           | 5.85 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 10/19/2019 | ND              | 197 | 98.5       | 200           | 4.30 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 10/19/2019 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 84.6 % 41-142

Surrogate: 1-Chlorooctadecane 95.4 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 DANIEL DOMINGUEZ  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

|                   |                             |                     |               |
|-------------------|-----------------------------|---------------------|---------------|
| Received:         | 10/17/2019                  | Sampling Date:      | 10/14/2019    |
| Reported:         | 10/23/2019                  | Sampling Type:      | Soil          |
| Project Name:     | PIPER SWD FIRE              | Sampling Condition: | Cool & Intact |
| Project Number:   | GOODNIGHT MIDSTREAM - 10769 | Sample Received By: | Jodi Henson   |
| Project Location: | UL M SEC18 T21S R37W        |                     |               |

**Sample ID: FLOOR 2 (H903563-02)**

| BTX 8021B      |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 10/19/2019 | ND              | 1.81 | 90.5       | 2.00          | 9.55 |           |  |
| Toluene*       | <0.050 | 0.050           | 10/19/2019 | ND              | 1.81 | 90.4       | 2.00          | 9.40 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 10/19/2019 | ND              | 1.80 | 90.1       | 2.00          | 9.42 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 10/19/2019 | ND              | 5.38 | 89.6       | 6.00          | 9.46 |           |  |
| Total BTX      | <0.300 | 0.300           | 10/19/2019 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 73.3-129

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 2160   | 16.0            | 10/22/2019 | ND              | 432 | 108        | 400           | 0.00 |           |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 10/19/2019 | ND              | 205 | 103        | 200           | 5.85 |           |
| DRO >C10-C28*    | 147    | 10.0            | 10/19/2019 | ND              | 197 | 98.5       | 200           | 4.30 |           |
| EXT DRO >C28-C36 | 59.6   | 10.0            | 10/19/2019 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 90.6 % 41-142

Surrogate: 1-Chlorooctadecane 115 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 DANIEL DOMINGUEZ  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

|                   |                             |                     |               |
|-------------------|-----------------------------|---------------------|---------------|
| Received:         | 10/17/2019                  | Sampling Date:      | 10/14/2019    |
| Reported:         | 10/23/2019                  | Sampling Type:      | Soil          |
| Project Name:     | PIPER SWD FIRE              | Sampling Condition: | Cool & Intact |
| Project Number:   | GOODNIGHT MIDSTREAM - 10769 | Sample Received By: | Jodi Henson   |
| Project Location: | UL M SEC18 T21S R37W        |                     |               |

**Sample ID: FLOOR 3 (H903563-03)**

| BTX 8021B      |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 10/19/2019 | ND              | 1.81 | 90.5       | 2.00          | 9.55 |           |  |
| Toluene*       | <0.050 | 0.050           | 10/19/2019 | ND              | 1.81 | 90.4       | 2.00          | 9.40 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 10/19/2019 | ND              | 1.80 | 90.1       | 2.00          | 9.42 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 10/19/2019 | ND              | 5.38 | 89.6       | 6.00          | 9.46 |           |  |
| Total BTX      | <0.300 | 0.300           | 10/19/2019 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 64.0   | 16.0            | 10/22/2019 | ND              | 432 | 108        | 400           | 0.00 |           |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 10/19/2019 | ND              | 205 | 103        | 200           | 5.85 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 10/19/2019 | ND              | 197 | 98.5       | 200           | 4.30 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 10/19/2019 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 90.6 % 41-142

Surrogate: 1-Chlorooctadecane 102 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 DANIEL DOMINGUEZ  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

|                   |                             |                     |               |
|-------------------|-----------------------------|---------------------|---------------|
| Received:         | 10/17/2019                  | Sampling Date:      | 10/14/2019    |
| Reported:         | 10/23/2019                  | Sampling Type:      | Soil          |
| Project Name:     | PIPER SWD FIRE              | Sampling Condition: | Cool & Intact |
| Project Number:   | GOODNIGHT MIDSTREAM - 10769 | Sample Received By: | Jodi Henson   |
| Project Location: | UL M SEC18 T21S R37W        |                     |               |

**Sample ID: FLOOR 4 (H903563-04)**

| BTX 8021B      |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 10/19/2019 | ND              | 1.81 | 90.5       | 2.00          | 9.55 |           |  |
| Toluene*       | <0.050 | 0.050           | 10/19/2019 | ND              | 1.81 | 90.4       | 2.00          | 9.40 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 10/19/2019 | ND              | 1.80 | 90.1       | 2.00          | 9.42 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 10/19/2019 | ND              | 5.38 | 89.6       | 6.00          | 9.46 |           |  |
| Total BTX      | <0.300 | 0.300           | 10/19/2019 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 73.3-129

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 2560   | 16.0            | 10/22/2019 | ND              | 432 | 108        | 400           | 0.00 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 10/19/2019 | ND              | 205 | 103        | 200           | 5.85 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 10/19/2019 | ND              | 197 | 98.5       | 200           | 4.30 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 10/19/2019 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 83.6 % 41-142

Surrogate: 1-Chlorooctadecane 92.6 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 DANIEL DOMINGUEZ  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

|                   |                             |                     |               |
|-------------------|-----------------------------|---------------------|---------------|
| Received:         | 10/17/2019                  | Sampling Date:      | 10/14/2019    |
| Reported:         | 10/23/2019                  | Sampling Type:      | Soil          |
| Project Name:     | PIPER SWD FIRE              | Sampling Condition: | Cool & Intact |
| Project Number:   | GOODNIGHT MIDSTREAM - 10769 | Sample Received By: | Jodi Henson   |
| Project Location: | UL M SEC18 T21S R37W        |                     |               |

**Sample ID: FLOOR 5 (H903563-05)**

| BTX 8021B      |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 10/19/2019 | ND              | 1.81 | 90.5       | 2.00          | 9.55 |           |  |
| Toluene*       | <0.050 | 0.050           | 10/19/2019 | ND              | 1.81 | 90.4       | 2.00          | 9.40 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 10/19/2019 | ND              | 1.80 | 90.1       | 2.00          | 9.42 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 10/19/2019 | ND              | 5.38 | 89.6       | 6.00          | 9.46 |           |  |
| Total BTX      | <0.300 | 0.300           | 10/19/2019 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 73.3-129

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 2240   | 16.0            | 10/22/2019 | ND              | 432 | 108        | 400           | 0.00 |           |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 10/19/2019 | ND              | 205 | 103        | 200           | 5.85 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 10/19/2019 | ND              | 197 | 98.5       | 200           | 4.30 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 10/19/2019 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 86.3 % 41-142

Surrogate: 1-Chlorooctadecane 95.0 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 DANIEL DOMINGUEZ  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

|                   |                             |                     |               |
|-------------------|-----------------------------|---------------------|---------------|
| Received:         | 10/17/2019                  | Sampling Date:      | 10/14/2019    |
| Reported:         | 10/23/2019                  | Sampling Type:      | Soil          |
| Project Name:     | PIPER SWD FIRE              | Sampling Condition: | Cool & Intact |
| Project Number:   | GOODNIGHT MIDSTREAM - 10769 | Sample Received By: | Jodi Henson   |
| Project Location: | UL M SEC18 T21S R37W        |                     |               |

**Sample ID: FLOOR 6 (H903563-06)**

| BTX 8021B      |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 10/19/2019 | ND              | 1.81 | 90.5       | 2.00          | 9.55 |           |  |
| Toluene*       | <0.050 | 0.050           | 10/19/2019 | ND              | 1.81 | 90.4       | 2.00          | 9.40 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 10/19/2019 | ND              | 1.80 | 90.1       | 2.00          | 9.42 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 10/19/2019 | ND              | 5.38 | 89.6       | 6.00          | 9.46 |           |  |
| Total BTX      | <0.300 | 0.300           | 10/19/2019 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 73.3-129

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 448    | 16.0            | 10/22/2019 | ND              | 432 | 108        | 400           | 0.00 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 10/19/2019 | ND              | 205 | 103        | 200           | 5.85 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 10/19/2019 | ND              | 197 | 98.5       | 200           | 4.30 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 10/19/2019 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 88.1 % 41-142

Surrogate: 1-Chlorooctadecane 97.0 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 DANIEL DOMINGUEZ  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

|                   |                             |                     |               |
|-------------------|-----------------------------|---------------------|---------------|
| Received:         | 10/17/2019                  | Sampling Date:      | 10/14/2019    |
| Reported:         | 10/23/2019                  | Sampling Type:      | Soil          |
| Project Name:     | PIPER SWD FIRE              | Sampling Condition: | Cool & Intact |
| Project Number:   | GOODNIGHT MIDSTREAM - 10769 | Sample Received By: | Jodi Henson   |
| Project Location: | UL M SEC18 T21S R37W        |                     |               |

**Sample ID: FLOOR 7 (H903563-07)**

| BTX 8021B      |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 10/19/2019 | ND              | 1.81 | 90.5       | 2.00          | 9.55 |           |  |
| Toluene*       | <0.050 | 0.050           | 10/19/2019 | ND              | 1.81 | 90.4       | 2.00          | 9.40 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 10/19/2019 | ND              | 1.80 | 90.1       | 2.00          | 9.42 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 10/19/2019 | ND              | 5.38 | 89.6       | 6.00          | 9.46 |           |  |
| Total BTX      | <0.300 | 0.300           | 10/19/2019 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 73.3-129

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 688    | 16.0            | 10/22/2019 | ND              | 432 | 108        | 400           | 0.00 |           |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 10/19/2019 | ND              | 205 | 103        | 200           | 5.85 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 10/19/2019 | ND              | 197 | 98.5       | 200           | 4.30 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 10/19/2019 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 93.3 % 41-142

Surrogate: 1-Chlorooctadecane 99.9 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 DANIEL DOMINGUEZ  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

|                   |                             |                     |               |
|-------------------|-----------------------------|---------------------|---------------|
| Received:         | 10/17/2019                  | Sampling Date:      | 10/14/2019    |
| Reported:         | 10/23/2019                  | Sampling Type:      | Soil          |
| Project Name:     | PIPER SWD FIRE              | Sampling Condition: | Cool & Intact |
| Project Number:   | GOODNIGHT MIDSTREAM - 10769 | Sample Received By: | Jodi Henson   |
| Project Location: | UL M SEC18 T21S R37W        |                     |               |

**Sample ID: FLOOR 8 (H903563-08)**

| BTX 8021B      |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 10/19/2019 | ND              | 1.81 | 90.5       | 2.00          | 9.55 |           |  |
| Toluene*       | <0.050 | 0.050           | 10/19/2019 | ND              | 1.81 | 90.4       | 2.00          | 9.40 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 10/19/2019 | ND              | 1.80 | 90.1       | 2.00          | 9.42 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 10/19/2019 | ND              | 5.38 | 89.6       | 6.00          | 9.46 |           |  |
| Total BTX      | <0.300 | 0.300           | 10/19/2019 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 73.3-129

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 2600   | 16.0            | 10/22/2019 | ND              | 432 | 108        | 400           | 3.77 | QM-07     |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 10/19/2019 | ND              | 205 | 103        | 200           | 5.85 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 10/19/2019 | ND              | 197 | 98.5       | 200           | 4.30 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 10/19/2019 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 85.4 % 41-142

Surrogate: 1-Chlorooctadecane 99.2 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 DANIEL DOMINGUEZ  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

|                   |                             |                     |               |
|-------------------|-----------------------------|---------------------|---------------|
| Received:         | 10/17/2019                  | Sampling Date:      | 10/14/2019    |
| Reported:         | 10/23/2019                  | Sampling Type:      | Soil          |
| Project Name:     | PIPER SWD FIRE              | Sampling Condition: | Cool & Intact |
| Project Number:   | GOODNIGHT MIDSTREAM - 10769 | Sample Received By: | Jodi Henson   |
| Project Location: | UL M SEC18 T21S R37W        |                     |               |

**Sample ID: FLOOR 9 (H903563-09)**

| BTX 8021B      |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 10/20/2019 | ND              | 1.81 | 90.5       | 2.00          | 9.55 |           |  |
| Toluene*       | <0.050 | 0.050           | 10/20/2019 | ND              | 1.81 | 90.4       | 2.00          | 9.40 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 10/20/2019 | ND              | 1.80 | 90.1       | 2.00          | 9.42 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 10/20/2019 | ND              | 5.38 | 89.6       | 6.00          | 9.46 |           |  |
| Total BTX      | <0.300 | 0.300           | 10/20/2019 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 73.3-129

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 480    | 16.0            | 10/22/2019 | ND              | 432 | 108        | 400           | 3.77 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 10/19/2019 | ND              | 205 | 103        | 200           | 5.85 |           |
| DRO >C10-C28*    | 965    | 10.0            | 10/19/2019 | ND              | 197 | 98.5       | 200           | 4.30 |           |
| EXT DRO >C28-C36 | 239    | 10.0            | 10/19/2019 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 82.2 % 41-142

Surrogate: 1-Chlorooctadecane 130 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 DANIEL DOMINGUEZ  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

|                   |                             |                     |               |
|-------------------|-----------------------------|---------------------|---------------|
| Received:         | 10/17/2019                  | Sampling Date:      | 10/14/2019    |
| Reported:         | 10/23/2019                  | Sampling Type:      | Soil          |
| Project Name:     | PIPER SWD FIRE              | Sampling Condition: | Cool & Intact |
| Project Number:   | GOODNIGHT MIDSTREAM - 10769 | Sample Received By: | Jodi Henson   |
| Project Location: | UL M SEC18 T21S R37W        |                     |               |

**Sample ID: FLOOR 10 (H903563-10)**

| BTX 8021B      |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 10/20/2019 | ND              | 1.81 | 90.5       | 2.00          | 9.55 |           |  |
| Toluene*       | <0.050 | 0.050           | 10/20/2019 | ND              | 1.81 | 90.4       | 2.00          | 9.40 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 10/20/2019 | ND              | 1.80 | 90.1       | 2.00          | 9.42 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 10/20/2019 | ND              | 5.38 | 89.6       | 6.00          | 9.46 |           |  |
| Total BTX      | <0.300 | 0.300           | 10/20/2019 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 288    | 16.0            | 10/22/2019 | ND              | 432 | 108        | 400           | 3.77 |           |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 10/19/2019 | ND              | 205 | 103        | 200           | 5.85 |           |
| DRO >C10-C28*    | 72.4   | 10.0            | 10/19/2019 | ND              | 197 | 98.5       | 200           | 4.30 |           |
| EXT DRO >C28-C36 | 31.5   | 10.0            | 10/19/2019 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 86.9 % 41-142

Surrogate: 1-Chlorooctadecane 104 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 DANIEL DOMINGUEZ  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

|                   |                             |                     |               |
|-------------------|-----------------------------|---------------------|---------------|
| Received:         | 10/17/2019                  | Sampling Date:      | 10/14/2019    |
| Reported:         | 10/23/2019                  | Sampling Type:      | Soil          |
| Project Name:     | PIPER SWD FIRE              | Sampling Condition: | Cool & Intact |
| Project Number:   | GOODNIGHT MIDSTREAM - 10769 | Sample Received By: | Jodi Henson   |
| Project Location: | UL M SEC18 T21S R37W        |                     |               |

**Sample ID: FLOOR 11 (H903563-11)**

| BTX 8021B      |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 10/20/2019 | ND              | 1.81 | 90.5       | 2.00          | 9.55 |           |  |
| Toluene*       | <0.050 | 0.050           | 10/20/2019 | ND              | 1.81 | 90.4       | 2.00          | 9.40 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 10/20/2019 | ND              | 1.80 | 90.1       | 2.00          | 9.42 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 10/20/2019 | ND              | 5.38 | 89.6       | 6.00          | 9.46 |           |  |
| Total BTX      | <0.300 | 0.300           | 10/20/2019 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 73.3-129

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 240    | 16.0            | 10/22/2019 | ND              | 432 | 108        | 400           | 3.77 |           |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 10/19/2019 | ND              | 205 | 103        | 200           | 5.85 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 10/19/2019 | ND              | 197 | 98.5       | 200           | 4.30 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 10/19/2019 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 84.6 % 41-142

Surrogate: 1-Chlorooctadecane 95.7 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 DANIEL DOMINGUEZ  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

|                   |                             |                     |               |
|-------------------|-----------------------------|---------------------|---------------|
| Received:         | 10/17/2019                  | Sampling Date:      | 10/14/2019    |
| Reported:         | 10/23/2019                  | Sampling Type:      | Soil          |
| Project Name:     | PIPER SWD FIRE              | Sampling Condition: | Cool & Intact |
| Project Number:   | GOODNIGHT MIDSTREAM - 10769 | Sample Received By: | Jodi Henson   |
| Project Location: | UL M SEC18 T21S R37W        |                     |               |

**Sample ID: FLOOR 12 (H903563-12)**

| BTEx 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 10/20/2019 | ND              | 1.81 | 90.5       | 2.00          | 9.55 |           |  |
| Toluene*       | <0.050 | 0.050           | 10/20/2019 | ND              | 1.81 | 90.4       | 2.00          | 9.40 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 10/20/2019 | ND              | 1.80 | 90.1       | 2.00          | 9.42 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 10/20/2019 | ND              | 5.38 | 89.6       | 6.00          | 9.46 |           |  |
| Total BTEX     | <0.300 | 0.300           | 10/20/2019 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 73.3-129

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 384    | 16.0            | 10/22/2019 | ND              | 432 | 108        | 400           | 3.77 |           |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 10/19/2019 | ND              | 205 | 103        | 200           | 5.85 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 10/19/2019 | ND              | 197 | 98.5       | 200           | 4.30 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 10/19/2019 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 88.8 % 41-142

Surrogate: 1-Chlorooctadecane 99.9 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 DANIEL DOMINGUEZ  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

|                   |                             |                     |               |
|-------------------|-----------------------------|---------------------|---------------|
| Received:         | 10/17/2019                  | Sampling Date:      | 10/14/2019    |
| Reported:         | 10/23/2019                  | Sampling Type:      | Soil          |
| Project Name:     | PIPER SWD FIRE              | Sampling Condition: | Cool & Intact |
| Project Number:   | GOODNIGHT MIDSTREAM - 10769 | Sample Received By: | Jodi Henson   |
| Project Location: | UL M SEC18 T21S R37W        |                     |               |

**Sample ID: NW 1 b (H903563-13)**

| BTX 8021B      |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 10/20/2019 | ND              | 1.81 | 90.5       | 2.00          | 9.55 |           |  |
| Toluene*       | <0.050 | 0.050           | 10/20/2019 | ND              | 1.81 | 90.4       | 2.00          | 9.40 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 10/20/2019 | ND              | 1.80 | 90.1       | 2.00          | 9.42 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 10/20/2019 | ND              | 5.38 | 89.6       | 6.00          | 9.46 |           |  |
| Total BTX      | <0.300 | 0.300           | 10/20/2019 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 73.3-129

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 432    | 16.0            | 10/22/2019 | ND              | 432 | 108        | 400           | 3.77 |           |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 10/19/2019 | ND              | 205 | 103        | 200           | 5.85 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 10/19/2019 | ND              | 197 | 98.5       | 200           | 4.30 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 10/19/2019 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 92.7 % 41-142

Surrogate: 1-Chlorooctadecane 101 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 DANIEL DOMINGUEZ  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

|                   |                             |                     |               |
|-------------------|-----------------------------|---------------------|---------------|
| Received:         | 10/17/2019                  | Sampling Date:      | 10/14/2019    |
| Reported:         | 10/23/2019                  | Sampling Type:      | Soil          |
| Project Name:     | PIPER SWD FIRE              | Sampling Condition: | Cool & Intact |
| Project Number:   | GOODNIGHT MIDSTREAM - 10769 | Sample Received By: | Jodi Henson   |
| Project Location: | UL M SEC18 T21S R37W        |                     |               |

**Sample ID: NW 2 b (H903563-14)**

| BTX 8021B      |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 10/20/2019 | ND              | 1.81 | 90.5       | 2.00          | 9.55 |           |  |
| Toluene*       | <0.050 | 0.050           | 10/20/2019 | ND              | 1.81 | 90.4       | 2.00          | 9.40 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 10/20/2019 | ND              | 1.80 | 90.1       | 2.00          | 9.42 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 10/20/2019 | ND              | 5.38 | 89.6       | 6.00          | 9.46 |           |  |
| Total BTX      | <0.300 | 0.300           | 10/20/2019 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 73.3-129

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 512    | 16.0            | 10/22/2019 | ND              | 432 | 108        | 400           | 3.77 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 10/19/2019 | ND              | 205 | 103        | 200           | 5.85 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 10/19/2019 | ND              | 197 | 98.5       | 200           | 4.30 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 10/19/2019 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 84.9 % 41-142

Surrogate: 1-Chlorooctadecane 103 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 DANIEL DOMINGUEZ  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

|                   |                             |                     |               |
|-------------------|-----------------------------|---------------------|---------------|
| Received:         | 10/17/2019                  | Sampling Date:      | 10/14/2019    |
| Reported:         | 10/23/2019                  | Sampling Type:      | Soil          |
| Project Name:     | PIPER SWD FIRE              | Sampling Condition: | Cool & Intact |
| Project Number:   | GOODNIGHT MIDSTREAM - 10769 | Sample Received By: | Jodi Henson   |
| Project Location: | UL M SEC18 T21S R37W        |                     |               |

**Sample ID: NW 3 b (H903563-15)**

| BTX 8021B      |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 10/20/2019 | ND              | 1.81 | 90.5       | 2.00          | 9.55 |           |  |
| Toluene*       | <0.050 | 0.050           | 10/20/2019 | ND              | 1.81 | 90.4       | 2.00          | 9.40 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 10/20/2019 | ND              | 1.80 | 90.1       | 2.00          | 9.42 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 10/20/2019 | ND              | 5.38 | 89.6       | 6.00          | 9.46 |           |  |
| Total BTX      | <0.300 | 0.300           | 10/20/2019 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 73.3-129

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 80.0   | 16.0            | 10/22/2019 | ND              | 432 | 108        | 400           | 3.77 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 10/19/2019 | ND              | 205 | 103        | 200           | 5.85 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 10/19/2019 | ND              | 197 | 98.5       | 200           | 4.30 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 10/19/2019 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 90.6 % 41-142

Surrogate: 1-Chlorooctadecane 110 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 DANIEL DOMINGUEZ  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

|                   |                             |                     |               |
|-------------------|-----------------------------|---------------------|---------------|
| Received:         | 10/17/2019                  | Sampling Date:      | 10/14/2019    |
| Reported:         | 10/23/2019                  | Sampling Type:      | Soil          |
| Project Name:     | PIPER SWD FIRE              | Sampling Condition: | Cool & Intact |
| Project Number:   | GOODNIGHT MIDSTREAM - 10769 | Sample Received By: | Jodi Henson   |
| Project Location: | UL M SEC18 T21S R37W        |                     |               |

**Sample ID: EW 1 b (H903563-16)**

| BTX 8021B      |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 10/20/2019 | ND              | 1.81 | 90.5       | 2.00          | 9.55 |           |
| Toluene*       | <0.050 | 0.050           | 10/20/2019 | ND              | 1.81 | 90.4       | 2.00          | 9.40 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 10/20/2019 | ND              | 1.80 | 90.1       | 2.00          | 9.42 |           |
| Total Xylenes* | <0.150 | 0.150           | 10/20/2019 | ND              | 5.38 | 89.6       | 6.00          | 9.46 |           |
| Total BTX      | <0.300 | 0.300           | 10/20/2019 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 73.3-129

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 16.0   | 16.0            | 10/22/2019 | ND              | 432 | 108        | 400           | 3.77 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 10/19/2019 | ND              | 205 | 103        | 200           | 5.85 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 10/19/2019 | ND              | 197 | 98.5       | 200           | 4.30 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 10/19/2019 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 84.1 % 41-142

Surrogate: 1-Chlorooctadecane 101 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 DANIEL DOMINGUEZ  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

|                   |                             |                     |               |
|-------------------|-----------------------------|---------------------|---------------|
| Received:         | 10/17/2019                  | Sampling Date:      | 10/14/2019    |
| Reported:         | 10/23/2019                  | Sampling Type:      | Soil          |
| Project Name:     | PIPER SWD FIRE              | Sampling Condition: | Cool & Intact |
| Project Number:   | GOODNIGHT MIDSTREAM - 10769 | Sample Received By: | Jodi Henson   |
| Project Location: | UL M SEC18 T21S R37W        |                     |               |

**Sample ID: EW 2 (H903563-17)**

| BTX 8021B      |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 10/20/2019 | ND              | 1.81 | 90.5       | 2.00          | 9.55 |           |
| Toluene*       | <0.050 | 0.050           | 10/20/2019 | ND              | 1.81 | 90.4       | 2.00          | 9.40 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 10/20/2019 | ND              | 1.80 | 90.1       | 2.00          | 9.42 |           |
| Total Xylenes* | <0.150 | 0.150           | 10/20/2019 | ND              | 5.38 | 89.6       | 6.00          | 9.46 |           |
| Total BTX      | <0.300 | 0.300           | 10/20/2019 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 73.3-129

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 48.0   | 16.0            | 10/22/2019 | ND              | 432 | 108        | 400           | 3.77 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 10/19/2019 | ND              | 205 | 103        | 200           | 5.85 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 10/19/2019 | ND              | 197 | 98.5       | 200           | 4.30 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 10/19/2019 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 90.5 % 41-142

Surrogate: 1-Chlorooctadecane 109 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 DANIEL DOMINGUEZ  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

|                   |                             |                     |               |
|-------------------|-----------------------------|---------------------|---------------|
| Received:         | 10/17/2019                  | Sampling Date:      | 10/14/2019    |
| Reported:         | 10/23/2019                  | Sampling Type:      | Soil          |
| Project Name:     | PIPER SWD FIRE              | Sampling Condition: | Cool & Intact |
| Project Number:   | GOODNIGHT MIDSTREAM - 10769 | Sample Received By: | Jodi Henson   |
| Project Location: | UL M SEC18 T21S R37W        |                     |               |

**Sample ID: EW 3 (H903563-18)**

| BTX 8021B      |        |                 | mg/kg      |              | Analyzed By: MS |            |               |      |           |  |
|----------------|--------|-----------------|------------|--------------|-----------------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank | BS              | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 10/20/2019 | ND           | 1.81            | 90.5       | 2.00          | 9.55 |           |  |
| Toluene*       | <0.050 | 0.050           | 10/20/2019 | ND           | 1.81            | 90.4       | 2.00          | 9.40 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 10/20/2019 | ND           | 1.80            | 90.1       | 2.00          | 9.42 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 10/20/2019 | ND           | 5.38            | 89.6       | 6.00          | 9.46 |           |  |
| Total BTX      | <0.300 | 0.300           | 10/20/2019 | ND           |                 |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 160    | 16.0            | 10/22/2019 | ND              | 432 | 108        | 400           | 3.77 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | 11.8   | 10.0            | 10/21/2019 | ND              | 215 | 108        | 200           | 2.74 |           |
| DRO >C10-C28*    | 1430   | 10.0            | 10/21/2019 | ND              | 208 | 104        | 200           | 1.57 |           |
| EXT DRO >C28-C36 | 408    | 10.0            | 10/21/2019 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 104 % 41-142

Surrogate: 1-Chlorooctadecane 146 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 DANIEL DOMINGUEZ  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

|                   |                             |                     |               |
|-------------------|-----------------------------|---------------------|---------------|
| Received:         | 10/17/2019                  | Sampling Date:      | 10/14/2019    |
| Reported:         | 10/23/2019                  | Sampling Type:      | Soil          |
| Project Name:     | PIPER SWD FIRE              | Sampling Condition: | Cool & Intact |
| Project Number:   | GOODNIGHT MIDSTREAM - 10769 | Sample Received By: | Jodi Henson   |
| Project Location: | UL M SEC18 T21S R37W        |                     |               |

**Sample ID: EW 4 b (H903563-19)**

| BTX 8021B      |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 10/20/2019 | ND              | 1.81 | 90.5       | 2.00          | 9.55 |           |  |
| Toluene*       | <0.050 | 0.050           | 10/20/2019 | ND              | 1.81 | 90.4       | 2.00          | 9.40 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 10/20/2019 | ND              | 1.80 | 90.1       | 2.00          | 9.42 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 10/20/2019 | ND              | 5.38 | 89.6       | 6.00          | 9.46 |           |  |
| Total BTX      | <0.300 | 0.300           | 10/20/2019 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 80.0   | 16.0            | 10/22/2019 | ND              | 432 | 108        | 400           | 3.77 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 10/21/2019 | ND              | 215 | 108        | 200           | 2.74 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 10/21/2019 | ND              | 208 | 104        | 200           | 1.57 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 10/21/2019 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 105 % 41-142

Surrogate: 1-Chlorooctadecane 106 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 DANIEL DOMINGUEZ  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

|                   |                             |                     |               |
|-------------------|-----------------------------|---------------------|---------------|
| Received:         | 10/17/2019                  | Sampling Date:      | 10/14/2019    |
| Reported:         | 10/23/2019                  | Sampling Type:      | Soil          |
| Project Name:     | PIPER SWD FIRE              | Sampling Condition: | Cool & Intact |
| Project Number:   | GOODNIGHT MIDSTREAM - 10769 | Sample Received By: | Jodi Henson   |
| Project Location: | UL M SEC18 T21S R37W        |                     |               |

**Sample ID: SW 1 (H903563-20)**

| BTEx 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 10/20/2019 | ND              | 1.81 | 90.5       | 2.00          | 9.55 |           |  |
| Toluene*       | <0.050 | 0.050           | 10/20/2019 | ND              | 1.81 | 90.4       | 2.00          | 9.40 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 10/20/2019 | ND              | 1.80 | 90.1       | 2.00          | 9.42 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 10/20/2019 | ND              | 5.38 | 89.6       | 6.00          | 9.46 |           |  |
| Total BTEx     | <0.300 | 0.300           | 10/20/2019 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 73.3-129

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 144    | 16.0            | 10/22/2019 | ND              | 432 | 108        | 400           | 3.77 |           |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 10/21/2019 | ND              | 215 | 108        | 200           | 2.74 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 10/21/2019 | ND              | 208 | 104        | 200           | 1.57 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 10/21/2019 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 101 % 41-142

Surrogate: 1-Chlorooctadecane 102 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 DANIEL DOMINGUEZ  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

|                   |                             |                     |               |
|-------------------|-----------------------------|---------------------|---------------|
| Received:         | 10/17/2019                  | Sampling Date:      | 10/14/2019    |
| Reported:         | 10/23/2019                  | Sampling Type:      | Soil          |
| Project Name:     | PIPER SWD FIRE              | Sampling Condition: | Cool & Intact |
| Project Number:   | GOODNIGHT MIDSTREAM - 10769 | Sample Received By: | Jodi Henson   |
| Project Location: | UL M SEC18 T21S R37W        |                     |               |

**Sample ID: SW 2 b (H903563-21)**

| BTX 8021B      |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 10/20/2019 | ND              | 1.81 | 90.5       | 2.00          | 9.55 |           |
| Toluene*       | <0.050 | 0.050           | 10/20/2019 | ND              | 1.81 | 90.4       | 2.00          | 9.40 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 10/20/2019 | ND              | 1.80 | 90.1       | 2.00          | 9.42 |           |
| Total Xylenes* | <0.150 | 0.150           | 10/20/2019 | ND              | 5.38 | 89.6       | 6.00          | 9.46 |           |
| Total BTX      | <0.300 | 0.300           | 10/20/2019 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 73.3-129

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 16.0   | 16.0            | 10/22/2019 | ND              | 432 | 108        | 400           | 3.77 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 10/21/2019 | ND              | 215 | 108        | 200           | 2.74 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 10/21/2019 | ND              | 208 | 104        | 200           | 1.57 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 10/21/2019 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 98.3 % 41-142

Surrogate: 1-Chlorooctadecane 99.9 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 DANIEL DOMINGUEZ  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

|                   |                             |                     |               |
|-------------------|-----------------------------|---------------------|---------------|
| Received:         | 10/17/2019                  | Sampling Date:      | 10/14/2019    |
| Reported:         | 10/23/2019                  | Sampling Type:      | Soil          |
| Project Name:     | PIPER SWD FIRE              | Sampling Condition: | Cool & Intact |
| Project Number:   | GOODNIGHT MIDSTREAM - 10769 | Sample Received By: | Jodi Henson   |
| Project Location: | UL M SEC18 T21S R37W        |                     |               |

**Sample ID: SW 3 b (H903563-22)**

| BTX 8021B      |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 10/19/2019 | ND              | 1.88 | 93.9       | 2.00          | 5.62 |           |  |
| Toluene*       | <0.050 | 0.050           | 10/19/2019 | ND              | 1.89 | 94.7       | 2.00          | 5.58 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 10/19/2019 | ND              | 1.90 | 95.0       | 2.00          | 5.65 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 10/19/2019 | ND              | 5.69 | 94.8       | 6.00          | 5.77 |           |  |
| Total BTX      | <0.300 | 0.300           | 10/19/2019 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 73.3-129

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 528    | 16.0            | 10/22/2019 | ND              | 432 | 108        | 400           | 3.77 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 10/21/2019 | ND              | 215 | 108        | 200           | 2.74 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 10/21/2019 | ND              | 208 | 104        | 200           | 1.57 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 10/21/2019 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 97.0 % 41-142

Surrogate: 1-Chlorooctadecane 99.4 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 DANIEL DOMINGUEZ  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

|                   |                             |                     |               |
|-------------------|-----------------------------|---------------------|---------------|
| Received:         | 10/17/2019                  | Sampling Date:      | 10/14/2019    |
| Reported:         | 10/23/2019                  | Sampling Type:      | Soil          |
| Project Name:     | PIPER SWD FIRE              | Sampling Condition: | Cool & Intact |
| Project Number:   | GOODNIGHT MIDSTREAM - 10769 | Sample Received By: | Jodi Henson   |
| Project Location: | UL M SEC18 T21S R37W        |                     |               |

**Sample ID: SW 4 b (H903563-23)**

| BTX 8021B      |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 10/19/2019 | ND              | 1.88 | 93.9       | 2.00          | 5.62 |           |  |
| Toluene*       | <0.050 | 0.050           | 10/19/2019 | ND              | 1.89 | 94.7       | 2.00          | 5.58 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 10/19/2019 | ND              | 1.90 | 95.0       | 2.00          | 5.65 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 10/19/2019 | ND              | 5.69 | 94.8       | 6.00          | 5.77 |           |  |
| Total BTX      | <0.300 | 0.300           | 10/19/2019 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 73.3-129

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 240    | 16.0            | 10/22/2019 | ND              | 432 | 108        | 400           | 3.77 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 10/21/2019 | ND              | 215 | 108        | 200           | 2.74 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 10/21/2019 | ND              | 208 | 104        | 200           | 1.57 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 10/21/2019 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 105 % 41-142

Surrogate: 1-Chlorooctadecane 107 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 DANIEL DOMINGUEZ  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

|                   |                             |                     |               |
|-------------------|-----------------------------|---------------------|---------------|
| Received:         | 10/17/2019                  | Sampling Date:      | 10/14/2019    |
| Reported:         | 10/23/2019                  | Sampling Type:      | Soil          |
| Project Name:     | PIPER SWD FIRE              | Sampling Condition: | Cool & Intact |
| Project Number:   | GOODNIGHT MIDSTREAM - 10769 | Sample Received By: | Jodi Henson   |
| Project Location: | UL M SEC18 T21S R37W        |                     |               |

**Sample ID: WW 1 b (H903563-24)**

| BTX 8021B      |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 10/19/2019 | ND              | 1.88 | 93.9       | 2.00          | 5.62 |           |
| Toluene*       | <0.050 | 0.050           | 10/19/2019 | ND              | 1.89 | 94.7       | 2.00          | 5.58 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 10/19/2019 | ND              | 1.90 | 95.0       | 2.00          | 5.65 |           |
| Total Xylenes* | <0.150 | 0.150           | 10/19/2019 | ND              | 5.69 | 94.8       | 6.00          | 5.77 |           |
| Total BTX      | <0.300 | 0.300           | 10/19/2019 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 73.3-129

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 2800   | 16.0            | 10/22/2019 | ND              | 432 | 108        | 400           | 3.77 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 10/21/2019 | ND              | 215 | 108        | 200           | 2.74 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 10/21/2019 | ND              | 208 | 104        | 200           | 1.57 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 10/21/2019 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 102 % 41-142

Surrogate: 1-Chlorooctadecane 102 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 DANIEL DOMINGUEZ  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

|                   |                             |                     |               |
|-------------------|-----------------------------|---------------------|---------------|
| Received:         | 10/17/2019                  | Sampling Date:      | 10/14/2019    |
| Reported:         | 10/23/2019                  | Sampling Type:      | Soil          |
| Project Name:     | PIPER SWD FIRE              | Sampling Condition: | Cool & Intact |
| Project Number:   | GOODNIGHT MIDSTREAM - 10769 | Sample Received By: | Jodi Henson   |
| Project Location: | UL M SEC18 T21S R37W        |                     |               |

**Sample ID: WW 2 b (H903563-25)**

| BTX 8021B      |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 10/19/2019 | ND              | 1.88 | 93.9       | 2.00          | 5.62 |           |
| Toluene*       | <0.050 | 0.050           | 10/19/2019 | ND              | 1.89 | 94.7       | 2.00          | 5.58 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 10/19/2019 | ND              | 1.90 | 95.0       | 2.00          | 5.65 |           |
| Total Xylenes* | <0.150 | 0.150           | 10/19/2019 | ND              | 5.69 | 94.8       | 6.00          | 5.77 |           |
| Total BTX      | <0.300 | 0.300           | 10/19/2019 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 73.3-129

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 960    | 16.0            | 10/22/2019 | ND              | 432 | 108        | 400           | 3.77 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 10/21/2019 | ND              | 215 | 108        | 200           | 2.74 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 10/21/2019 | ND              | 208 | 104        | 200           | 1.57 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 10/21/2019 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 95.1 % 41-142

Surrogate: 1-Chlorooctadecane 95.1 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 DANIEL DOMINGUEZ  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

|                   |                             |                     |               |
|-------------------|-----------------------------|---------------------|---------------|
| Received:         | 10/17/2019                  | Sampling Date:      | 10/14/2019    |
| Reported:         | 10/23/2019                  | Sampling Type:      | Soil          |
| Project Name:     | PIPER SWD FIRE              | Sampling Condition: | Cool & Intact |
| Project Number:   | GOODNIGHT MIDSTREAM - 10769 | Sample Received By: | Jodi Henson   |
| Project Location: | UL M SEC18 T21S R37W        |                     |               |

**Sample ID: WW 3 (H903563-26)**

| BTX 8021B      |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 10/19/2019 | ND              | 1.88 | 93.9       | 2.00          | 5.62 |           |
| Toluene*       | <0.050 | 0.050           | 10/19/2019 | ND              | 1.89 | 94.7       | 2.00          | 5.58 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 10/19/2019 | ND              | 1.90 | 95.0       | 2.00          | 5.65 |           |
| Total Xylenes* | <0.150 | 0.150           | 10/19/2019 | ND              | 5.69 | 94.8       | 6.00          | 5.77 |           |
| Total BTX      | <0.300 | 0.300           | 10/19/2019 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 73.3-129

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 1180   | 16.0            | 10/22/2019 | ND              | 432 | 108        | 400           | 3.77 |           |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 10/21/2019 | ND              | 215 | 108        | 200           | 2.74 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 10/21/2019 | ND              | 208 | 104        | 200           | 1.57 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 10/21/2019 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 103 % 41-142

Surrogate: 1-Chlorooctadecane 102 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 DANIEL DOMINGUEZ  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

|                   |                             |                     |               |
|-------------------|-----------------------------|---------------------|---------------|
| Received:         | 10/17/2019                  | Sampling Date:      | 10/14/2019    |
| Reported:         | 10/23/2019                  | Sampling Type:      | Soil          |
| Project Name:     | PIPER SWD FIRE              | Sampling Condition: | Cool & Intact |
| Project Number:   | GOODNIGHT MIDSTREAM - 10769 | Sample Received By: | Jodi Henson   |
| Project Location: | UL M SEC18 T21S R37W        |                     |               |

**Sample ID: WW 4 (H903563-27)**

| BTX 8021B      |        | mg/kg           |            | Analyzed By: MS |      |            |               |       |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Benzene*       | <0.050 | 0.050           | 10/23/2019 | ND              | 1.76 | 87.9       | 2.00          | 0.186 |           |
| Toluene*       | <0.050 | 0.050           | 10/23/2019 | ND              | 1.75 | 87.7       | 2.00          | 0.319 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 10/23/2019 | ND              | 1.76 | 88.2       | 2.00          | 0.455 |           |
| Total Xylenes* | <0.150 | 0.150           | 10/23/2019 | ND              | 5.28 | 88.1       | 6.00          | 0.430 |           |
| Total BTX      | <0.300 | 0.300           | 10/23/2019 | ND              |      |            |               |       |           |

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 2240   | 16.0            | 10/22/2019 | ND              | 432 | 108        | 400           | 3.77 |           |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 10/22/2019 | ND              | 209 | 104        | 200           | 2.83 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 10/22/2019 | ND              | 207 | 103        | 200           | 2.45 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 10/22/2019 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 95.4 % 41-142

Surrogate: 1-Chlorooctadecane 91.4 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



---

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

---

### Notes and Definitions

|       |   |
|-------|---|
| QR-02 | The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data. |
| QM-07 | The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.  |
| ND    | Analyte NOT DETECTED at or above the reporting limit  |
| RPD   | Relative Percent Difference   |
| **    | Samples not received at proper temperature of 6°C or below.   |
| ***   | Insufficient time to reach temperature.   |
| -     | Chloride by SM4500Cl-B does not require samples be received at or below 6°C<br>Samples reported on an as received basis (wet) unless otherwise noted on report  |

---

Cardinal Laboratories

\*=Accredited Analyte

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

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

---

Celey D. Keene, Lab Director/Quality Manager

Page 30 of 32



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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

|   |  |  |  |  |  |  |  |  |  |   |  |                        |  |           |  |  |  |  |  |  |  |  |  |  |  |
|---|--|--|--|--|--|--|--|--|--|---|--|------------------------|--|-----------|--|--|--|--|--|--|--|--|--|--|--|
| Company Name: Goodnight Midstream Permian, LLC  |  |  |  |  |  |  |  |  |  | P.O. #:   |  | ANALYSIS REQUEST       |  |           |  |  |  |  |  |  |  |  |  |  |  |
| Project Manager: Daniel Dominguez   |  |  |  |  |  |  |  |  |  | Company: Etech Environmental & Safety Solutions |  |                        |  |           |  |  |  |  |  |  |  |  |  |  |  |
| Address: 3100 Plains Hwy  |  |  |  |  |  |  |  |  |  | Attn: Daniel Dominguez                          |  |                        |  |           |  |  |  |  |  |  |  |  |  |  |  |
| City: Lovington   |  |  |  |  |  |  |  |  |  | Address: P.O. Box 301                           |  |                        |  |           |  |  |  |  |  |  |  |  |  |  |  |
| Phone #: 575-396-2378   |  |  |  |  |  |  |  |  |  | City: Lovington                                 |  |                        |  |           |  |  |  |  |  |  |  |  |  |  |  |
| Project #: 10769  |  |  |  |  |  |  |  |  |  | State: NM                                       |  |                        |  |           |  |  |  |  |  |  |  |  |  |  |  |
| Project Name: Piper SWD Fire  |  |  |  |  |  |  |  |  |  | Zip: 88260                                      |  |                        |  |           |  |  |  |  |  |  |  |  |  |  |  |
| Project Location: U/L "W" Sec 18 T21S - R37W  |  |  |  |  |  |  |  |  |  | Phone #: 575-396-2378                           |  |                        |  |           |  |  |  |  |  |  |  |  |  |  |  |
| Sample Name: Daniel Dominguez   |  |  |  |  |  |  |  |  |  | Fax #: 575-396-1429                             |  |                        |  |           |  |  |  |  |  |  |  |  |  |  |  |
| FOR LAB USE ONLY  |  |  |  |  |  |  |  |  |  | PRESERV.  |  | SAMPLING               |  |           |  |  |  |  |  |  |  |  |  |  |  |
| Lab I.D. Sample I.D.  |  |  |  |  |  |  |  |  |  | DATE  |  | TIME                   |  |           |  |  |  |  |  |  |  |  |  |  |  |
| H9D3563   |  |  |  |  |  |  |  |  |  | Chloride  |  | TPH                    |  | BTEX 8021 |  |  |  |  |  |  |  |  |  |  |  |
| 1 Floor 1   |  |  |  |  |  |  |  |  |  | X   |  | X                      |  | X         |  |  |  |  |  |  |  |  |  |  |  |
| 2 Floor 2   |  |  |  |  |  |  |  |  |  | X   |  | X                      |  | X         |  |  |  |  |  |  |  |  |  |  |  |
| 3 Floor 3   |  |  |  |  |  |  |  |  |  | X   |  | X                      |  | X         |  |  |  |  |  |  |  |  |  |  |  |
| 4 Floor 4   |  |  |  |  |  |  |  |  |  | X   |  | X                      |  | X         |  |  |  |  |  |  |  |  |  |  |  |
| 5 Floor 5   |  |  |  |  |  |  |  |  |  | X   |  | X                      |  | X         |  |  |  |  |  |  |  |  |  |  |  |
| 6 Floor 6   |  |  |  |  |  |  |  |  |  | X   |  | X                      |  | X         |  |  |  |  |  |  |  |  |  |  |  |
| 7 Floor 7   |  |  |  |  |  |  |  |  |  | X   |  | X                      |  | X         |  |  |  |  |  |  |  |  |  |  |  |
| 8 Floor 8   |  |  |  |  |  |  |  |  |  | X   |  | X                      |  | X         |  |  |  |  |  |  |  |  |  |  |  |
| 9 Floor 9   |  |  |  |  |  |  |  |  |  | X   |  | X                      |  | X         |  |  |  |  |  |  |  |  |  |  |  |
| 10 Floor 10   |  |  |  |  |  |  |  |  |  | X   |  | X                      |  | X         |  |  |  |  |  |  |  |  |  |  |  |
| PLEASE NOTE: Liability and Damages, Cardinal's liability and client's exclusive remedy for any claim arising from this contract or tort, shall be limited to the amount paid by the client for the analysis. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. |  |  |  |  |  |  |  |  |  |   |  |                        |  |           |  |  |  |  |  |  |  |  |  |  |  |
| Relinquished By: [Signature]  |  |  |  |  |  |  |  |  |  | Phone Result: [ ] Yes [ ] No                    |  | Add'l Phone #: [ ]     |  |           |  |  |  |  |  |  |  |  |  |  |  |
| Relinquished By: [Signature]  |  |  |  |  |  |  |  |  |  | Fax Result: [ ] Yes [ ] No                      |  | Add'l Fax #: [ ]       |  |           |  |  |  |  |  |  |  |  |  |  |  |
| Delivered By: (Circle One) t.14 #97   |  |  |  |  |  |  |  |  |  | Sample Condition                                |  | CHECKED BY: (Initials) |  |           |  |  |  |  |  |  |  |  |  |  |  |
| Sampler - UPS - Bus - Other: 2.50 2.90  |  |  |  |  |  |  |  |  |  | Cool Intact: [ ] Yes [ ] No                     |  | [Signature]            |  |           |  |  |  |  |  |  |  |  |  |  |  |
|   |  |  |  |  |  |  |  |  |  |   |  |                        |  |           |  |  |  |  |  |  |  |  |  |  |  |



Page 31 of 32



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

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

|   |  |  |  |                  |  |  |  |  |  |
|---|--|--|--|------------------|--|--|--|--|--|
| Company Name: Goodnight Midstream Permian, LLC  |  | <b>BILL TO</b>                                 |  | ANALYSIS REQUEST |  |  |  |  |  |
| Project Manager: Daniel Dominguez               |  |  |  |                  |  |  |  |  |  |
| Address: 3100 Plains Hwy                        |  | P.O. #:  |  |                  |  |  |  |  |  |
| City: Lovington                                 |  | Company: Each Environmental & Safety Solutions |  |                  |  |  |  |  |  |
| State: NM                                       |  | Attn: Daniel Dominguez                         |  |                  |  |  |  |  |  |
| Zip: 88260                                      |  | Address: P.O. Box 301                          |  |                  |  |  |  |  |  |
| Phone #: 575-396-2378                           |  | City: Lovington                                |  |                  |  |  |  |  |  |
| Fax #: 575-396-1429                             |  | State: NM                                      |  |                  |  |  |  |  |  |
| Zip: 88260                                      |  | Phone #: 575-396-2378                          |  |                  |  |  |  |  |  |
| Project #: 10769                                |  | Fax #: 575-396-1429                            |  |                  |  |  |  |  |  |
| Project Owner: Goodnight Midstream Permian, LLC |  |  |  |                  |  |  |  |  |  |
| Project Name: Piper SWD Fire                    |  |  |  |                  |  |  |  |  |  |
| Project Location: UL/ "W" Sec 18 T21S - R37W    |  |  |  |                  |  |  |  |  |  |
| Sampler Name: Daniel Dominguez                  |  |  |  |                  |  |  |  |  |  |

[illegible]

**PLEASE NOTE:** Liability and Damages. Cardinal's liability and clients' exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable analyses. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of a services rendered by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

|                              |               |       |   |                   |   |                              |                             |                |
|------------------------------|---------------|-------|---|-------------------|---|------------------------------|-----------------------------|----------------|
| Relinquished By:             | Date:         | 12/15 | Received By:  | Shelley Henderson | Phone Result:                                 | <input type="checkbox"/> Yes | <input type="checkbox"/> No | Add'l Phone #: |
|                              | Time:         | 4:41  |   |                   | Fax Result:                                   | <input type="checkbox"/> Yes | <input type="checkbox"/> No | Add'l Fax #:   |
| Relinquished By:             | Date:         |       | Received By:  |                   | REMARKS: email results to daniel@detechny.com |                              |                             |                |
|                              | Time:         |       |   |                   |   |                              |                             |                |
| Delivered By: (Circle One)   | t.4           |       | Sample Condition  | CHECKED BY:       |   |                              |                             |                |
| Sampler - UPS - Bus - Other: | 2.50 2.90 #97 |       | Cool Intact   | (Initials)        |   |                              |                             |                |
|                              |               |       | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |                   |   |                              |                             |                |

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

26 jo 26 ebd



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Goodnight Midstream Permian, LLC

Project Manager: Daniel Dominguez

Address: 3100 Plains Hwy

City: Lovington

Phone #: 575-396-2378

Project #: 10769

Project Name: Piper SWD Fire

Project Location: U/L "M" Sec 18 T21S - R37W

Sample Name:

P.O. #:

Company: Etech Environmental & Safety Solutions

Attn: Daniel Dominguez

Address: P.O. Box 301

City: Lovington

State: NM Zip: 88260

Phone #: 575-396-2378

Fax #: 575-396-1429

## BILL TO

## ANALYSIS REQUEST

| Lab I.D. | Sample I.D. | (G)RAB OR (C)OMP. | # CONTAINERS | MATRIX      |            |      |     |        | DATE | TIME | Chloride | TPH | BTEX 8021 |  |  |  |  |  |  |  |  |  |  |
|----------|-------------|-------------------|--------------|-------------|------------|------|-----|--------|------|------|----------|-----|-----------|--|--|--|--|--|--|--|--|--|--|
|          |             |                   |              | GROUNDWATER | WASTEWATER | SOIL | OIL | SLUDGE |      |      |          |     |           |  |  |  |  |  |  |  |  |  |  |
| 21       | SW2b        | C                 | 1            | X           |            |      |     |        |      |      | X        | X   | X         |  |  |  |  |  |  |  |  |  |  |
| 22       | SW3b        | C                 | 1            | X           |            |      |     |        |      |      | X        | X   | X         |  |  |  |  |  |  |  |  |  |  |
| 23       | SW4b        | C                 | 1            | X           |            |      |     |        |      |      | X        | X   | X         |  |  |  |  |  |  |  |  |  |  |
| 24       | WW1b        | C                 | 1            | X           |            |      |     |        |      |      | X        | X   | X         |  |  |  |  |  |  |  |  |  |  |
| 25       | WW2b        | C                 | 1            | X           |            |      |     |        |      |      | X        | X   | X         |  |  |  |  |  |  |  |  |  |  |
| 26       | WW3         | C                 | 1            | X           |            |      |     |        |      |      | X        | X   | X         |  |  |  |  |  |  |  |  |  |  |
| 27       | WW4         | C                 | 1            | X           |            |      |     |        |      |      | X        | X   | X         |  |  |  |  |  |  |  |  |  |  |

PLEASE NOTE: Liability and Damages: Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:

Date: 10/17

Received By:

Phone Result: ☐ Yes ☐ No ☐ Add'l Phone #:

Fax Result: ☐ Yes ☐ No ☐ Add'l Fax #:

REMARKS: email results to [daniel@etechenv.com](mailto:daniel@etechenv.com)

Relinquished By:

Date: 10/17

Received By:

Delivered By: (Circle One)

Time: 4:41

Sample Condition

CHECKED BY: (Initials)

Sampler - UPS - Bus - Other: 2.50 2.90

Time: 4:41

Sample Condition

CHECKED BY: (Initials)

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





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

---

February 14, 2020

JOEL LOWRY

Etech Environmental & Safety Solutions

P.O. Box 301

Lovington, NM 88260

RE: PIPER SWD FIRE

Enclosed are the results of analyses for samples received by the laboratory on 02/12/20 15:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

|                   |                      |                     |                |
|-------------------|----------------------|---------------------|----------------|
| Received:         | 02/12/2020           | Sampling Date:      | 02/10/2020     |
| Reported:         | 02/14/2020           | Sampling Type:      | Soil           |
| Project Name:     | PIPER SWD FIRE       | Sampling Condition: | Cool & Intact  |
| Project Number:   | 10769                | Sample Received By: | Tamara Oldaker |
| Project Location: | UL M SEC18 T21S R37W |                     |                |

**Sample ID: EW 36 (H000426-01)**

| TPH 8015M                     |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|-------------------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte                       | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*                   | <10.0  | 10.0            | 02/13/2020 | ND              | 219 | 109        | 200           | 2.23 |           |
| DRO >C10-C28*                 | <10.0  | 10.0            | 02/13/2020 | ND              | 221 | 110        | 200           | 1.01 |           |
| EXT DRO >C28-C36              | <10.0  | 10.0            | 02/13/2020 | ND              |     |            |               |      |           |
| <hr/>                         |        |                 |            |                 |     |            |               |      |           |
| Surrogate: 1-Chlorooctane     | 103 %  | 41-142          |            |                 |     |            |               |      |           |
| Surrogate: 1-Chlorooctadecane | 104 %  | 37.6-147        |            |                 |     |            |               |      |           |

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager

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

---

### Notes and Definitions

|       |   |
|-------|---|
| S-06  | The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.                                  |
| QR-03 | The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values. |
| QM-07 | The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.  |
| ND    | Analyte NOT DETECTED at or above the reporting limit  |
| RPD   | Relative Percent Difference   |
| **    | Samples not received at proper temperature of 6°C or below.   |
| ***   | Insufficient time to reach temperature.   |
| -     | Chloride by SM4500Cl-B does not require samples be received at or below 6°C<br>Samples reported on an as received basis (wet) unless otherwise noted on report                          |

---

Cardinal Laboratories

\*=Accredited Analyte

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

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

---

Celey D. Keene, Lab Director/Quality Manager

Page 4 of 4



# ARDINAL LABORATORIES

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

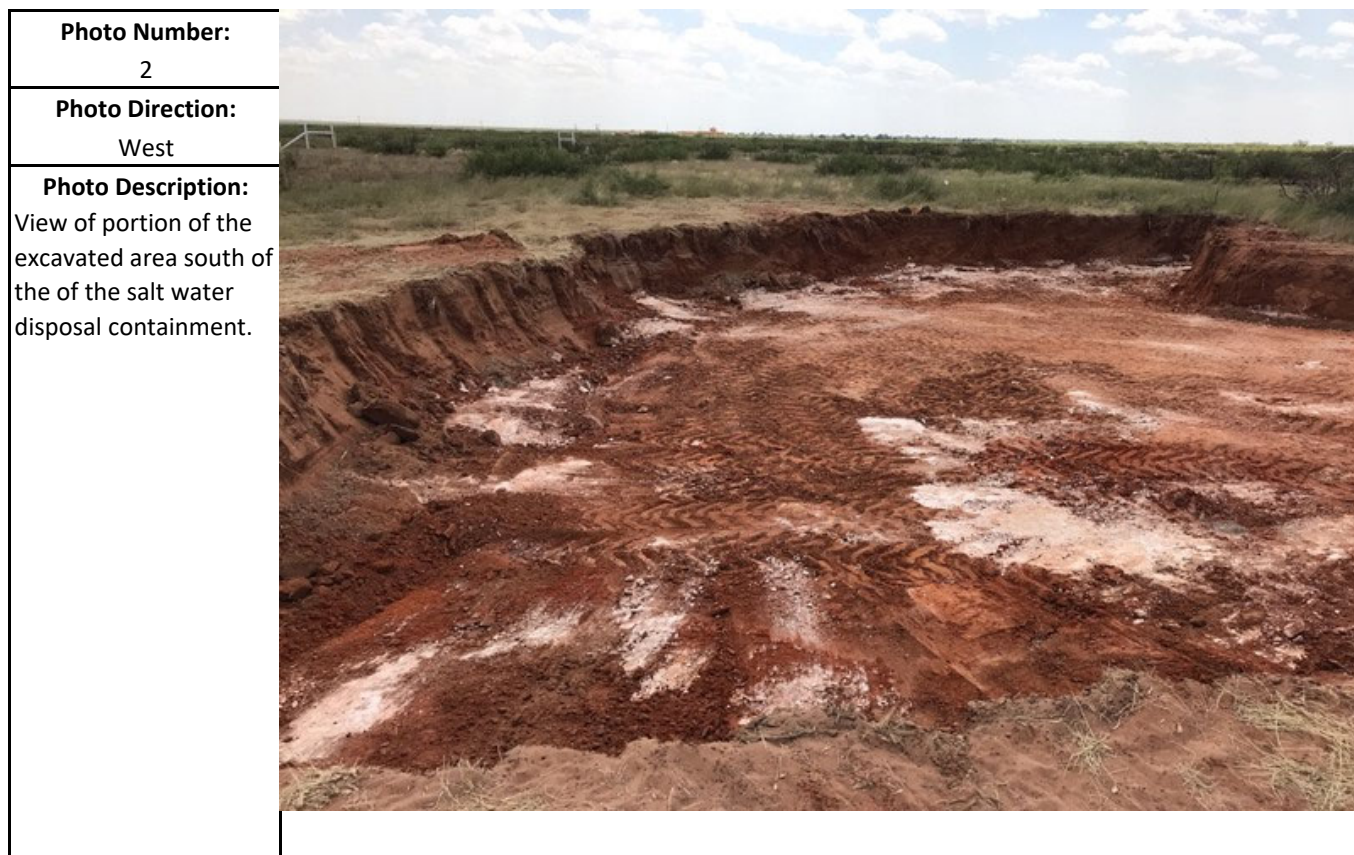
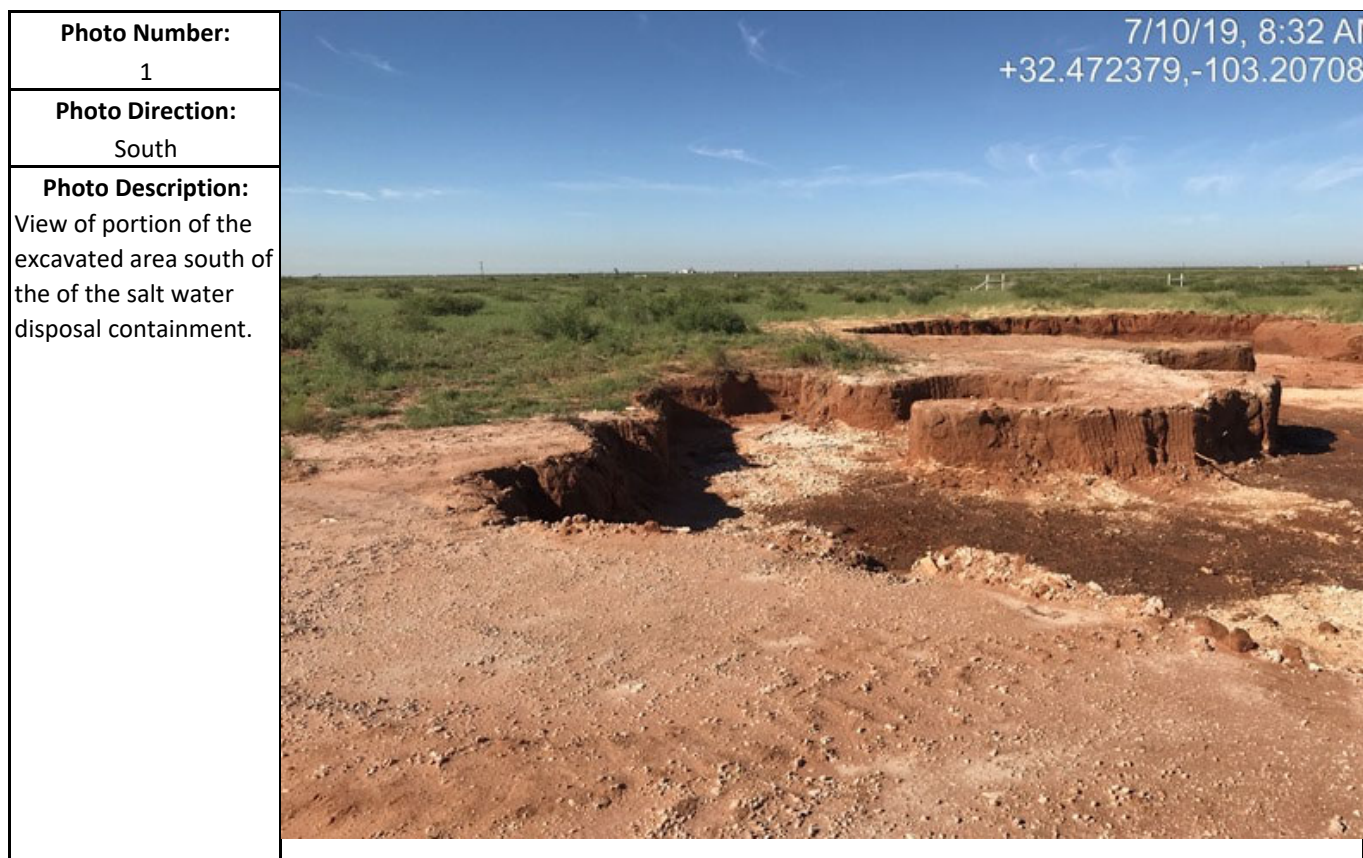
[illegible]

## **Appendix D**

### **Photographic Log**

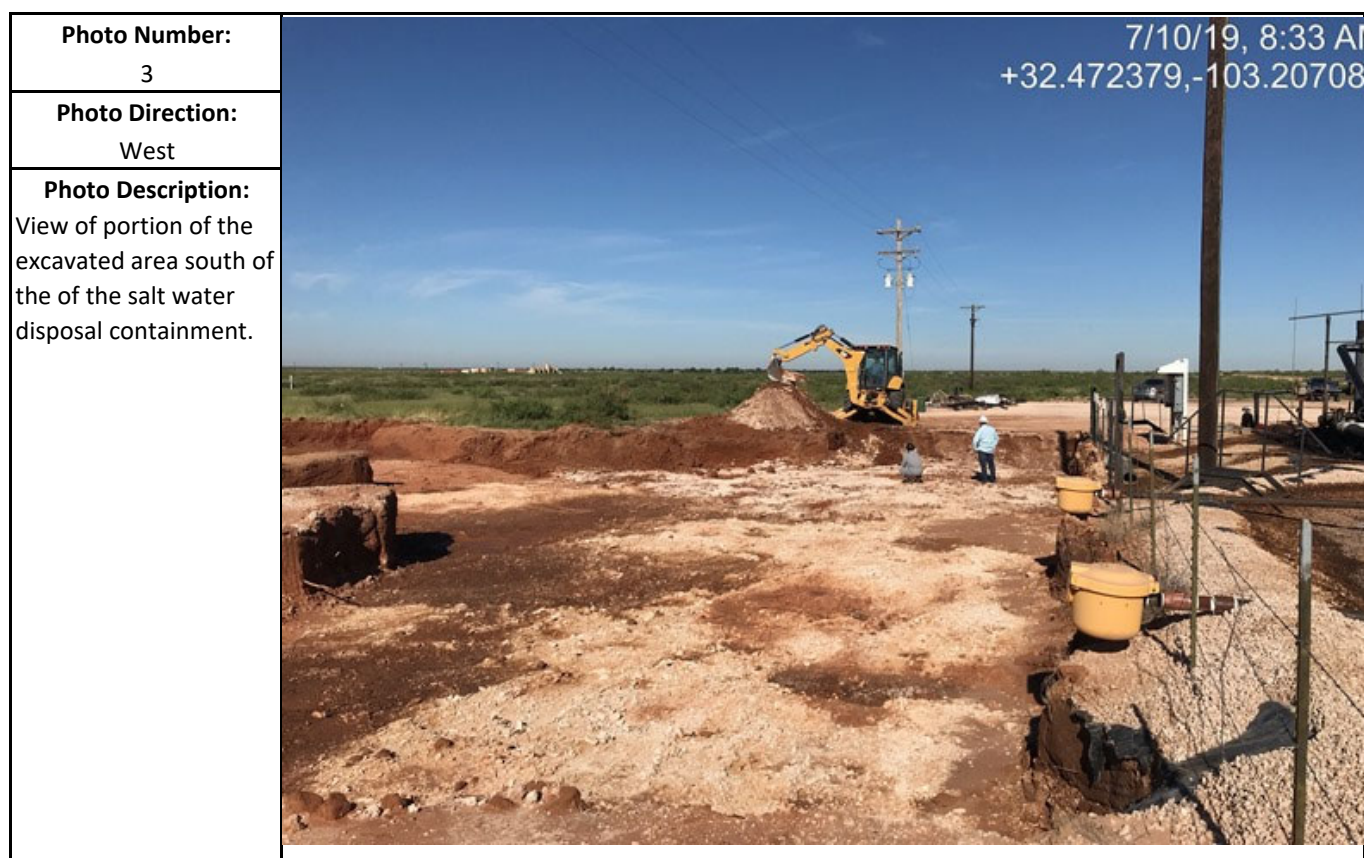


## Photographic Log







## Photographic Log





## Photographic Log

|  |   |
|--|---|
| <b>Photo Number:</b><br>5  |  |
| <b>Photo Direction:</b><br>South   |   |
| <b>Photo Description:</b><br>View of the affected area outside the salt water disposal containment after backfilling activities. |   |

|  |  |
|--|--|
| <b>Photo Number:</b><br>6  |  |
| <b>Photo Direction:</b><br>South   |  |
| <b>Photo Description:</b><br>View of the affected area outside the salt water disposal containment after backfilling activities. |  |



## Photographic Log





## Photographic Log

