

<b>Spill Volume(Bbls) Calculator</b>		
<i>Inputs in blue, Outputs in red</i>		
Length(Ft)	Width(Ft)	Depth(Ft)
<u>400</u>	<u>10.000</u>	<u>0.333</u>
Cubic Feet of Soil Impacted		<u>1332.000</u>
Barrels of Soil Impacted		<u>237.43</u>
Soil Type		<u>Clay/Sand</u>
Barrels of Oil Assuming 100% Saturation		<u>35.61</u>
Saturation	<u>Fluid present with shovel/backhoe</u>	
Estimated Barrels of Oil Released		<u>36</u>

Incident ID	nAPP2315150992
District RP	
Facility ID	
Application ID	

## Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>&gt;102</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	<input 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.

## Oil Conservation Division

Incident ID	nAPP2315150992
District RP	
Facility ID	
Application ID	

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: Katherine Purvis Title: EHS Coordinator

Signature: Katherine Purvis Date: 12/07/2023

email: katherine.purvis@spurenergy.com Telephone: (575) 441-8619

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

Incident ID	nAPP2315150992
District RP	
Facility ID	
Application ID	

## Closure

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

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

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

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

Printed Name: Katherine Purvis Title: EHS Coordinator

Signature: Katherine Purvis Date: 12/07/2023

email: katherine.purvis@spurenergy.com Telephone: (575) 441-8619

### OCD Only

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

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

Closure Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_



## Remediation Summary and Soil Closure Request

**Spur Energy Partners, LLC**

**Tin Horn 73 Main Line**

Eddy County, New Mexico

Unit Letter B, Section 21, Township 17 South, Range 31 East

Latitude 32.82605 North, Longitude 103.87067 West

**NMOCD Reference No. nAPP2315150992**

Prepared By:

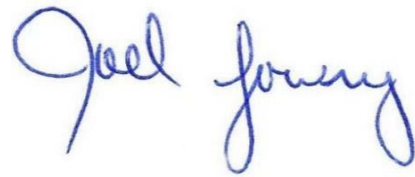
**Etech Environmental & Safety Solutions, Inc.**

2617 W. Marland

Hobbs, New Mexico 88240



Matthew Grieco



Joel W. Lowry



Midland • San Antonio • Lubbock • Hobbs • Lafayette

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## 1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Spur Energy Partners, LLC, has prepared this *Remediation Summary and Soil Closure Request* for the release site known as the Tin Horn 73 Main Line (henceforth, "Site"). Details of the release are summarized below:

### Location of Release Source

Latitude: 32.82605 Longitude: -103.87067

Provided GPS are in WGS84 format.

Site Name:	Tin Horn 73 Main Line	Site Type:	Pipeline
Date Release Discovered:	5/30/2023	API # (if applicable):	N/A

Unit Letter	Section	Township	Range	County
B	21	17S	31E	Eddy

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) 35	Volume Recovered (bbls) 25
	Is the concentration of total dissolved solids (TDS) in the produced water > 10,000 mg/L?	<input type="checkbox"/> Yes <input checked="" 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:

High pressure caused a poly tee failure, releasing produced water onto a pad and in the pasture.

### Initial Response

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

Previously submitted portions of the New Mexico Oil Conservation Division (NMOCD) Form C-141 are available on the NMOCD Imaging System.

## 2.0 SITE CHARACTERIZATION

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>&gt;102 Feet</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 type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within the incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production or storage site?	<input 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, 4, and 5.

## 3.0 CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE

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

Probable Depth to Groundwater	Constituent	Laboratory Analytical Method	Closure Criteria**†	Reclamation Standard**‡
>102 Feet	Chloride (Cl <sup>-</sup> )	EPA 300.0 or SM4500 Cl B	20,000	600
	Total Petroleum Hydrocarbons (TPH)	EPA SW-846 Method 8015M Ext	2,500	100
	Gas Range Organics + Diesel Range Organics (GRO + DRO)	EPA SW-846 Method 8015M	1,000	-
	Benzene	EPA SW-846 Methods 8021b or 8260b	10	10
	Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX)	EPA SW-846 Methods 8021b or 8260b	50	50

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

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

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

## 4.0 REMEDIATION ACTIVITIES SUMMARY

On October 2, 2023, remediation activities commenced at the Site. In accordance with NMOCD regulations, impacted soil affected above the NMOCD Closure Criteria and/or NMOCD Reclamation Standards was excavated and stockpiled on-site, pending transfer to an NMOCD-approved surface waste facility for disposal. The floor and sidewalls of the excavation were advanced until field observations and test results suggested that BTEX, TPH, and chloride concentrations were below the NMOCD Closure Criteria and/or NMOCD Reclamation Standards.

On October 3, 2023, Etech collected twenty (20) confirmation soil samples (FL #1 @ 4FT through FL #12 @ 4FT, EW 1, EW 2, NW 1, NW 2, SW 1, SW 2, WW 1, and WW 2) from the floor and walls of the excavated area. The collected soil samples were submitted to a certified, commercial laboratory (henceforth, "the laboratory") for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX, TPH, and chloride concentrations were below the NMOCD Closure Criteria and/or NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the laboratory Method Detection Limit (MDL). Chloride concentrations ranged from less than the laboratory MDL in samples FL #9 @ 4FT and SW 1 to 144 mg/kg in samples NW 1 and WW 1.

On October 4, 2023, Etech collected 28 confirmation soil samples (FL #13 @ 4FT through FL #26 @ 4FT, NW 3 through NW 9, and SW 3 through SW 9) from the floor and walls of the excavated area. The collected soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX, TPH, and chloride concentrations were below the NMOCD Closure Criteria and/or NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the laboratory MDL. Chloride concentrations ranged from less than the laboratory MDL in samples NW 4, NW 5, and NW 6 to 2,480 mg/kg in sample FL #24 @ 4FT.

On October 5, 2023, Etech collected 24 confirmation soil samples (FL #27 @ 4FT through FL #36 @ 4FT, EW 3 through EW 8, NW 10, SW 10, and WW 3 through WW 8) from the floor and walls of the excavated area. The collected soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX, TPH, and chloride concentrations were below the NMOCD Closure Criteria and/or NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the laboratory MDL. Chloride concentrations ranged from 16.0 mg/kg in samples EW 5, WW 5, and WW 8 to 1,090 mg/kg in sample FL #36 @ 4FT.

On October 9, 2023, Etech collected 37 confirmation soil samples (FL #38 @ 4FT through FL #67 @ 4FT, EW 9, NW 11 through NW 13, and SW 11 through SW 13) from the floor and walls of the excavated area. The collected soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX, TPH, and chloride concentrations were below the NMOCD Closure Criteria and/or NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the laboratory MDL. Chloride concentrations ranged from 16.0 mg/kg in samples EW 9, NW 11, NW 12, and SW 11 to 11,600 mg/kg in sample FL #53 @ 4FT.

On October 11, 2023, Etech collected ten (10) confirmation soil samples (FL #69 @ 2FT through FL #76 @ 3FT, EW 10, and SW 14) from the floor and walls of the excavated area. The collected soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX, TPH, and chloride concentrations were below the NMOCD Closure Criteria and/or NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the laboratory MDL. Chloride concentrations ranged from 16.0 mg/kg in samples FL #73 @ 2FT and EW 10 to 80.0 mg/kg in sample SW 14.

On October 12, 2023, Etech collected twelve (12) confirmation soil samples (FL #77 @ 2FT through FL #88 @ 4FT) from the floor of the excavated area. The collected soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX, TPH, and chloride concentrations were below the NMOCD Closure Criteria and/or NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also

below the laboratory MDL. Chloride concentrations ranged from less than the laboratory MDL in samples FL #82 @ 2FT and FL #83 @ 2FT to 2,240 mg/kg in sample FL #87 @ 4FT.

On October 17, 2023, Etech collected fifteen (15) confirmation soil samples (FL #89 @ 1FT through FL #100 @ 2FT, NW 14, NW 15, and SW 15) from the floor and walls of the excavated area. The collected soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX, TPH, and chloride concentrations were below the NMOCD Closure Criteria and/or NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the laboratory MDL. Chloride concentrations ranged from 16.0 mg/kg in sample NW 14 to 208 mg/kg in sample FL #89 @ 1FT.

On October 18, 2023, Etech collected ten (10) confirmation soil samples (FL #101 @ 3FT through FL #110 @ 2FT) from the floor of the excavated area. The collected soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX, TPH, and chloride concentrations were below the NMOCD Closure Criteria and/or NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the laboratory MDL. Chloride concentrations ranged from 16.0 mg/kg in sample FL #101 @ 3FT to 176 mg/kg in sample FL #110 @ 2FT.

On October 19, 2023, Etech collected 21 confirmation soil samples (FL #111 @ 4FT through FL #126 @ 2FT, EW 11, NW 16, SW 16, SW 17, and WW 9) from the floor and walls of the excavated area. The collected soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX, TPH, and chloride concentrations were below the NMOCD Closure Criteria and/or NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the laboratory MDL. Chloride concentrations ranged from 16.0 mg/kg in samples FL #112 @ 3FT, FL #114 @ 2FT, FL #116 @ 2FT, NW 16, and WW 9 to 176 mg/kg in sample FL #119 @ 2FT.

On October 23, 2023, Etech collected ten (10) confirmation soil samples (FL #127 @ 2FT through FL #135 @ 2FT and WW) from the floor and walls of the excavated area. The collected soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX, TPH, and chloride concentrations were below the NMOCD Closure Criteria and/or NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the laboratory MDL. Chloride concentrations ranged from 32.0 mg/kg in samples FL #127 @ 2FT, FL #130 @ 2FT, and WW to 112 mg/kg in sample FL #134 @ 2FT.

A site and sample location map is provided as Figure 3. A soil chemistry table is provided as Table 1. Field data is provided as Appendix B. A photographic log of remediation activities is provided as Appendix C. Laboratory analytical reports are provided as Appendix D. Copies of regulatory correspondence are provided in Appendix E.

The final dimensions of the excavated area were approximately 1,720 feet in length, five (5) to 135 feet in width, and one (1) to four (4) feet in depth. During the course of remediation activities, approximately 3,844 cubic yards of impacted soil was transported to an NMOCD-approved surface waste facility for disposal.

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

Upon receiving laboratory analytical results from confirmation soil samples, excavated areas were backfilled with 3,900 cubic yards of locally sourced, non-impacted "like" material placed at or near original relative positions. The affected area was compacted and contoured to achieve erosion control, stability, and preservation of surface water flow, to the extent practicable. Affected areas not on production pads and/or lease roads will be reseeded with an agency and/or landowner-approved seed mixture free of noxious weeds during the first favorable growing season following closure of the Site.

## 6.0 SOIL CLOSURE REQUEST

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

Based on laboratory analytical results and field activities conducted to date, Etech recommends Spur Energy Partners, LLC, provide copies of this *Remediation Summary and Soil Closure Request* to the appropriate agencies and request closure be granted to the Tin Horn 73 Main Line site.

## 7.0 LIMITATIONS

Etech Environmental & Safety Solutions, Inc., has prepared this *Remediation Summary and Soil Closure Request* to the best of its ability. No other warranty, expressed or implied, is made or intended. Etech has examined and relied upon documents 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 Spur Energy Partners, LLC. Use of the information contained in this report is prohibited without the consent of Etech and/or Spur Energy Partners, LLC.

## **8.0 DISTRIBUTION**

***Spur Energy Partners, LLC***

*9655 Katy Freeway*

*Suite 500*

*Houston, TX 77024*

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

*Oil Conservation Division, District 2*

*811 S. First Street*

*Artesia, NM 88210*

***United States Department of the Interior***

*Bureau of Land Management*

*620 E. Greene Street*

*Carlsbad, NM 88220*

*(Electronic Submission)*



## **Figure 1**

### **Topographic Map**





Tin Horn 73 Main Line

### Legend

 Site Location

### Figure 1

Topographic Map  
Spur Energy Partners, LLC  
Tin Horn 73 Main Line  
GPS: 32.82605, -103.87067  
Eddy County

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

Drafted: mag

Checked: jwl

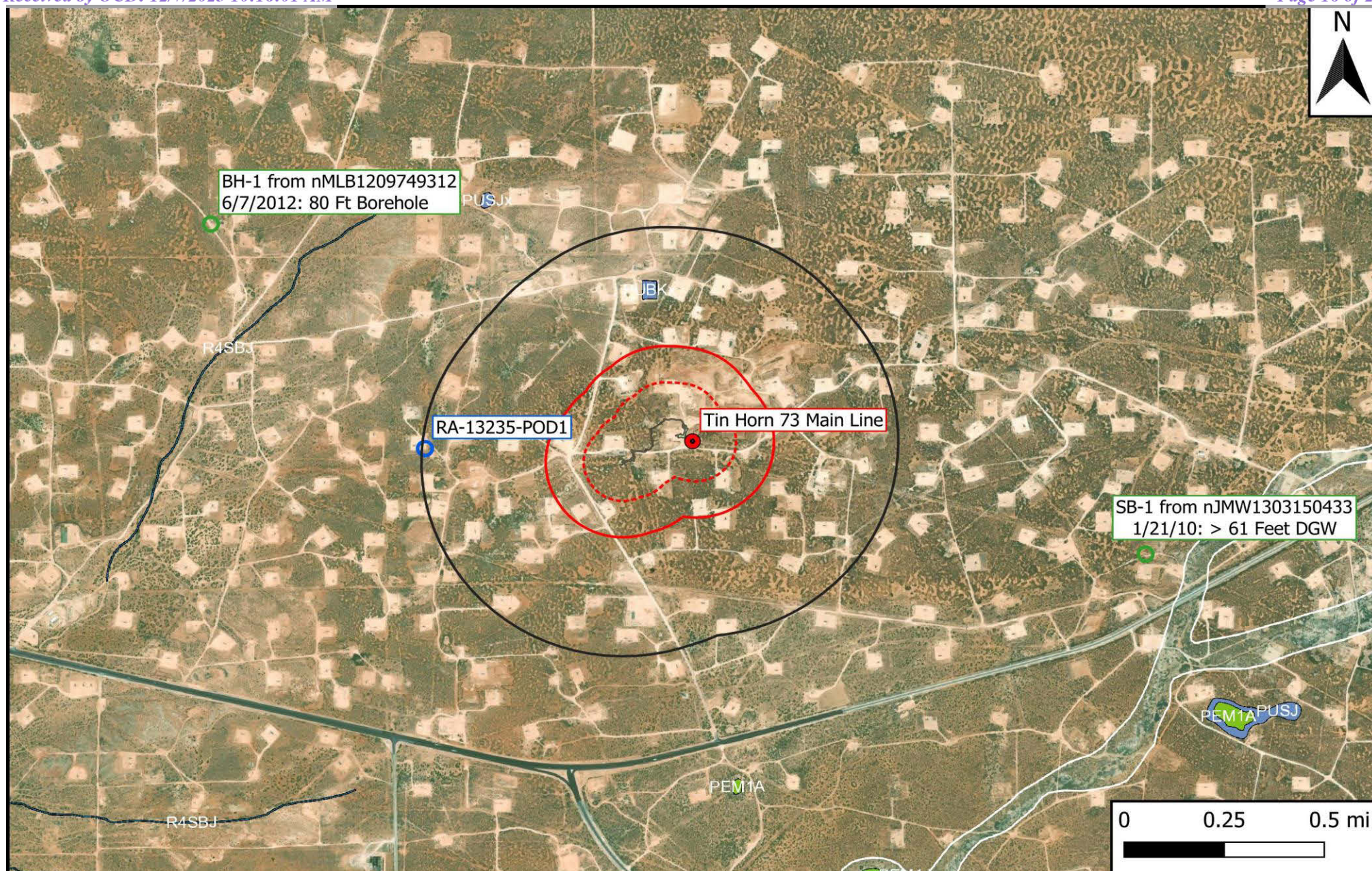
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## **Figure 2**

### **Aerial Proximity Map**





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

**Figure 2**  
Aerial Proximity Map  
Spur Energy Partners, LLC  
Tin Horn 73 Main Line  
GPS: 32.82605, -103.87067  
Eddy County

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

Drafted: mag

Checked: jwl

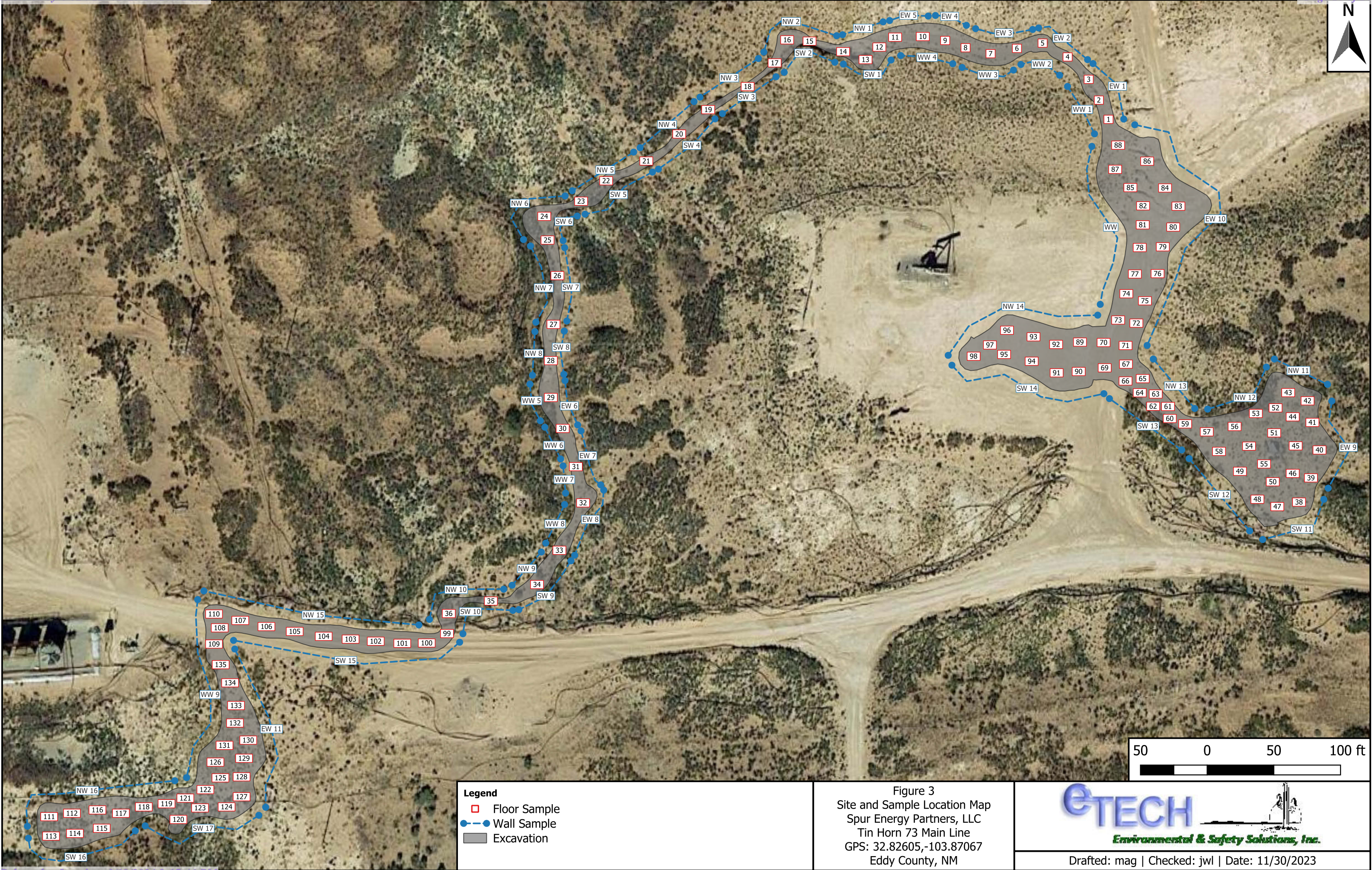
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## **Figure 3**

### **Site and Sample Location Map**







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

**Table 1**  
**Concentrations of BTEX, TPH, and Chloride in Soil**  
**Spur Energy Partners, LLC**  
**Tin Horn 73 Main Line**  
**NMOCD Ref. #: nAPP2315150992**

NMOCD Closure Criteria				10	50	-	-	1,000	-	2,500	20,000
NMOCD Reclamation Standard				10	50	-	-	-	-	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C <sub>6</sub> -C <sub>10</sub> (mg/kg)	DRO C <sub>10</sub> -C <sub>28</sub> (mg/kg)	GRO + DRO C <sub>6</sub> -C <sub>28</sub> (mg/kg)	ORO C <sub>28</sub> -C <sub>36</sub> (mg/kg)	TPH C <sub>6</sub> -C <sub>36</sub> (mg/kg)	Chloride (mg/kg)
FL #1 @ 4FT	10/3/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL #2 @ 4FT	10/3/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL #3 @ 4FT	10/3/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL #4 @ 4FT	10/3/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL #5 @ 4FT	10/3/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL #6 @ 4FT	10/3/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL #7 @ 4FT	10/3/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL #8 @ 4FT	10/3/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL #9 @ 4FT	10/3/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL #10 @ 4FT	10/3/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL #11 @ 4FT	10/3/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL #12 @ 4FT	10/3/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL #13 @ 4FT	10/4/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL #14 @ 4FT	10/4/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,420
FL #15 @ 4FT	10/4/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	640
FL #16 @ 4FT	10/4/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,860
FL #17 @ 4FT	10/4/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,490
FL #18 @ 4FT	10/4/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	384
FL #19 @ 4FT	10/4/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
FL #20 @ 4FT	10/4/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
FL #21 @ 4FT	10/4/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
FL #22 @ 4FT	10/4/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	560
FL #23 @ 4FT	10/4/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	416
FL #24 @ 4FT	10/4/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,480
FL #25 @ 4FT	10/4/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,360
FL #26 @ 4FT	10/4/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,230
FL #27 @ 4FT	10/5/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	336
FL #28 @ 4FT	10/5/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,060
FL #29 @ 4FT	10/5/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	384
FL #30 @ 4FT	10/5/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	848
FL #31 @ 4FT	10/5/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL #32 @ 4FT	10/5/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL #33 @ 4FT	10/5/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL #34 @ 4FT	10/5/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	576
FL #35 @ 4FT	10/5/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	448
FL #36 @ 4FT	10/5/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,090
FL #38 @ 4FT	10/9/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL #39 @ 4FT	10/9/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,300
FL #40 @ 4FT	10/9/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,870
FL #41 @ 4FT	10/9/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	848
FL #42 @ 4FT	10/9/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320

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

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.



**Table 1**  
**Concentrations of BTEX, TPH, and Chloride in Soil**  
**Spur Energy Partners, LLC**  
**Tin Horn 73 Main Line**  
**NMOCD Ref. #: nAPP2315150992**

NMOCD Closure Criteria				10	50	-	-	1,000	-	2,500	20,000
NMOCD Reclamation Standard				10	50	-	-	-	-	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C <sub>6</sub> -C <sub>10</sub> (mg/kg)	DRO C <sub>10</sub> -C <sub>28</sub> (mg/kg)	GRO + DRO C <sub>6</sub> -C <sub>28</sub> (mg/kg)	ORO C <sub>28</sub> -C <sub>36</sub> (mg/kg)	TPH C <sub>6</sub> -C <sub>36</sub> (mg/kg)	Chloride (mg/kg)
FL #43 @ 4FT	10/9/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,330
FL #44 @ 4FT	10/9/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL #45 @ 4FT	10/9/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	336
FL #46 @ 4FT	10/9/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL #47 @ 4FT	10/9/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL #48 @ 4FT	10/9/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL #49 @ 4FT	10/9/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL #50 @ 4FT	10/9/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	368
FL #51 @ 4FT	10/9/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	7,600
FL #52 @ 4FT	10/9/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	4,080
FL #53 @ 4FT	10/9/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	11,600
FL #54 @ 4FT	10/9/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	976
FL #55 @ 4FT	10/9/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,880
FL #56 @ 4FT	10/9/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	7,040
FL #57 @ 4FT	10/9/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	8,660
FL #58 @ 4FT	10/9/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,600
FL #59 @ 4FT	10/9/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	11,200
FL #60 @ 4FT	10/9/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,320
FL #61 @ 4FT	10/9/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL #62 @ 4FT	10/9/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,540
FL #63 @ 4FT	10/9/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FL #64 @ 4FT	10/9/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,560
FL #65 @ 4FT	10/9/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,500
FL #66 @ 4FT	10/9/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,280
FL #67 @ 4FT	10/9/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,480
FL #69 @ 2FT	10/11/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL #70 @ 2FT	10/11/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL #71 @ 3FT	10/11/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL #72 @ 3FT	10/11/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL #73 @ 2FT	10/11/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL #74 @ 2FT	10/11/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL #75 @ 3FT	10/11/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL #76 @ 3FT	10/11/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL #77 @ 2FT	10/12/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL #78 @ 2FT	10/12/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL #79 @ 2FT	10/12/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
FL #80 @ 2FT	10/12/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
FL #81 @ 2FT	10/12/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FL #82 @ 2FT	10/12/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL #83 @ 2FT	10/12/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL #84 @ 2FT	10/12/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0

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

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

**Table 1**  
**Concentrations of BTEX, TPH, and Chloride in Soil**  
**Spur Energy Partners, LLC**  
**Tin Horn 73 Main Line**  
**NMOCD Ref. #: nAPP2315150992**

NMOCD Closure Criteria				10	50	-	-	1,000	-	2,500	20,000
NMOCD Reclamation Standard				10	50	-	-	-	-	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C <sub>6</sub> -C <sub>10</sub> (mg/kg)	DRO C <sub>10</sub> -C <sub>28</sub> (mg/kg)	GRO + DRO C <sub>6</sub> -C <sub>28</sub> (mg/kg)	ORO C <sub>28</sub> -C <sub>36</sub> (mg/kg)	TPH C <sub>6</sub> -C <sub>36</sub> (mg/kg)	Chloride (mg/kg)
FL #85 @ 2FT	10/12/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL #86 @ 2FT	10/12/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FL #87 @ 4FT	10/12/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,240
FL #88 @ 4FT	10/12/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,330
FL #89 @ 1FT	10/17/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FL #90 @ 1FT	10/17/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL #91 @ 1FT	10/17/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
FL #92 @ 1FT	10/17/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL #93 @ 1FT	10/17/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL #94 @ 1FT	10/17/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL #95 @ 1FT	10/17/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL #96 @ 1FT	10/17/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL #97 @ 1FT	10/17/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL #98 @ 1FT	10/17/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL #99 @ 2FT	10/17/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL #100 @ 2FT	10/17/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL #101 @ 3FT	10/18/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL #102 @ 3FT	10/18/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL #103 @ 3FT	10/18/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL #104 @ 3FT	10/18/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL #105 @ 2FT	10/18/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL #106 @ 2FT	10/18/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL #107 @ 2FT	10/18/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL #108 @ 2FT	10/18/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL #109 @ 2FT	10/18/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL #110 @ 2FT	10/18/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FL #111 @ 4FT	10/19/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL #112 @ 3FT	10/19/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL #113 @ 2FT	10/19/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL #114 @ 2FT	10/19/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL #115 @ 2FT	10/19/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL #116 @ 2FT	10/19/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL #117 @ 2FT	10/19/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL #118 @ 2FT	10/19/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL #119 @ 2FT	10/19/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FL #120 @ 2FT	10/19/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL #121 @ 2FT	10/19/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL #122 @ 2FT	10/19/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL #123 @ 2FT	10/19/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL #124 @ 2FT	10/19/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL #125 @ 2FT	10/19/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0

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

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

**Table 1**  
**Concentrations of BTEX, TPH, and Chloride in Soil**  
**Spur Energy Partners, LLC**  
**Tin Horn 73 Main Line**  
**NMOCD Ref. #: nAPP2315150992**

NMOCD Closure Criteria				10	50	-	-	1,000	-	2,500	20,000
NMOCD Reclamation Standard				10	50	-	-	-	-	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C <sub>6</sub> -C <sub>10</sub> (mg/kg)	DRO C <sub>10</sub> -C <sub>28</sub> (mg/kg)	GRO + DRO C <sub>6</sub> -C <sub>28</sub> (mg/kg)	ORO C <sub>28</sub> -C <sub>36</sub> (mg/kg)	TPH C <sub>6</sub> -C <sub>36</sub> (mg/kg)	Chloride (mg/kg)
FL #126 @ 2FT	10/19/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL #127 @ 2FT	10/23/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL #128 @ 2FT	10/23/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL #129 @ 2FT	10/23/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL #130 @ 2FT	10/23/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL #131 @ 2FT	10/23/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL #132 @ 2FT	10/23/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL #133 @ 2FT	10/23/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL #134 @ 2FT	10/23/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL #135 @ 2FT	10/23/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
EW 1	10/3/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
EW 2	10/3/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
EW 3	10/5/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
EW 4	10/5/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
EW 5	10/5/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
EW 6	10/5/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
EW 7	10/5/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	416
EW 8	10/5/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
EW 9	10/9/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
EW 10	10/11/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
EW 11	10/19/2023	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
NW 1	10/3/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
NW 2	10/3/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
NW 3	10/4/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
NW 4	10/4/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
NW 5	10/4/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
NW 6	10/4/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
NW 7	10/4/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
NW 8	10/4/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
NW 9	10/4/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
NW 10	10/5/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
NW 11	10/9/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
NW 12	10/9/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
NW 13	10/9/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
NW 14	10/17/2023	0-1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
NW 15	10/17/2023	0-3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
NW 16	10/19/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SW 1	10/3/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SW 2	10/3/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SW 3	10/4/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SW 4	10/4/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272

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

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

**Table 1**  
**Concentrations of BTEX, TPH, and Chloride in Soil**  
**Spur Energy Partners, LLC**  
**Tin Horn 73 Main Line**  
**NMOCD Ref. #: nAPP2315150992**

<b>NMOCD Closure Criteria</b>				<b>10</b>	<b>50</b>	<b>-</b>	<b>-</b>	<b>1,000</b>	<b>-</b>	<b>2,500</b>	<b>20,000</b>
<b>NMOCD Reclamation Standard</b>				<b>10</b>	<b>50</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>100</b>	<b>600</b>
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C <sub>6</sub> -C <sub>10</sub> (mg/kg)	DRO C <sub>10</sub> -C <sub>28</sub> (mg/kg)	GRO + DRO C <sub>6</sub> -C <sub>28</sub> (mg/kg)	ORO C <sub>28</sub> -C <sub>36</sub> (mg/kg)	TPH C <sub>6</sub> -C <sub>36</sub> (mg/kg)	Chloride (mg/kg)
SW 5	10/4/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SW 6	10/4/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SW 7	10/4/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SW 8	10/4/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SW 9	10/4/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SW 10	10/5/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
SW 11	10/9/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SW 12	10/9/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SW 13	10/9/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SW 14	10/11/2023	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
SW 15	10/17/2023	0-3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
SW 16	10/19/2023	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
SW 17	10/19/2023	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
WW 1	10/3/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
WW 2	10/3/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
WW 3	10/5/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
WW 4	10/5/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
WW 5	10/5/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
WW 6	10/5/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
WW 7	10/5/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
WW 8	10/5/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
WW 9	10/19/2023	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
WW	10/23/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0

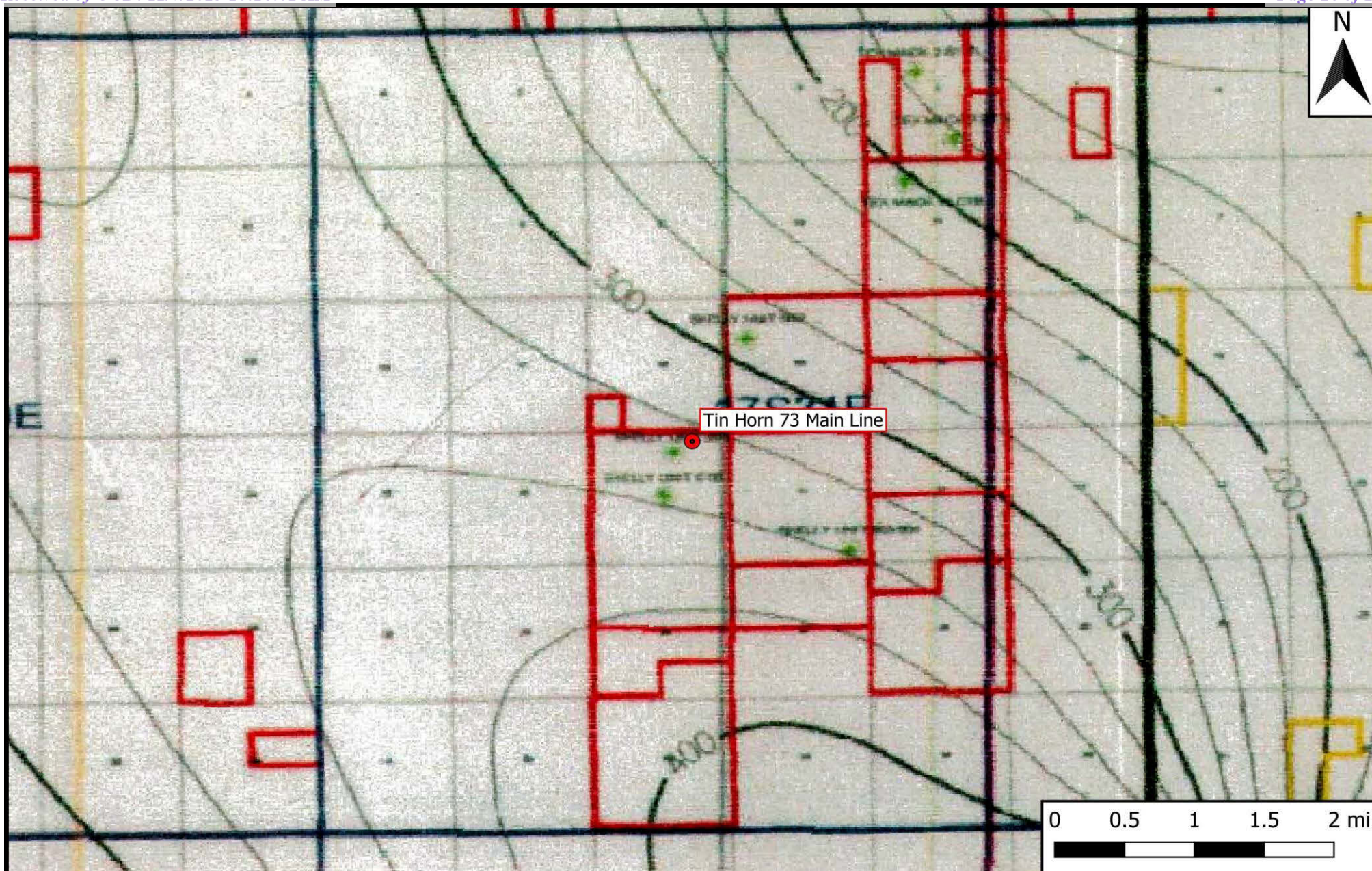
Dash (-): Sample not analyzed for that constituent.

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

## **Appendix A**

### **Depth to Groundwater Information**





## Legend

- Site Location

## Figure 4

Inferred Depth to Groundwater Trend Map  
Spur Energy Partners, LLC  
Tin Horn 73 Main Line  
GPS: 32.82605, -103.87067  
Eddy County



Drafted: mag

Checked: jwl

Date: 6/2/23



# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

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

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

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

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

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
<a href="#">RA 13235 POD1</a>		RA	ED	1	1	1	21	17S	31E	604631	3632537	1076	102		

Average Depth to Water: --

Minimum Depth: --

Maximum Depth: --

**Record Count:** 1

**UTM NAD83 Radius Search (in meters):**

**Easting (X):** 605706.68

**Northing (Y):** 3632567.88

**Radius:** 1610

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.

6/2/23 7:32 AM

WATER COLUMN/ AVERAGE DEPTH TO  
WATER






# New Mexico Office of the State Engineer

## Point of Diversion Summary

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

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
NA	RA 13235 POD1	1	1	1	21	17S	31E	604631	3632537 

**Driller License:** 1249 **Driller Company:** ATKINS ENGINEERING ASSOC. INC.

**Driller Name:** JACKIE D ATKINS

**Drill Start Date:** 10/08/2022 **Drill Finish Date:** 10/09/2022 **Plug Date:**

**Log File Date:** 11/04/2022 **PCW Rev Date:** **Source:**

**Pump Type:** **Pipe Discharge Size:** **Estimated Yield:**

**Casing Size:** **Depth Well:** 102 feet **Depth Water:**

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.

6/2/23 7:32 AM

POINT OF DIVERSION SUMMARY





# WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

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

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD-1		WELL TAG ID NO. n/a		OSE FILE NO(S). RA-13235			
	WELL OWNER NAME(S) Spur Energy Partners LLC				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS 919 Milam St Ste 2475				CITY Houston	STATE TX	ZIP 77002	
	WELL LOCATION (FROM GPS)	DEGREES 32	MINUTES 49	SECONDS 33.16	* ACCURACY REQUIRED: ONE TENTH OF A SECOND			
		LATITUDE	103	52	55.80	* DATUM REQUIRED: WGS 84		
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE Nw NW NW Sec. 21 T17S R31E, NMPM								
2. DRILLING & CASING INFORMATION	LICENSE NO. 1249		NAME OF LICENSED DRILLER Jackie D. Atkins			NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc.		
	DRILLING STARTED 10/8/2022		DRILLING ENDED 10/9/2022		DEPTH OF COMPLETED WELL (FT) 102	BORE HOLE DEPTH (FT) ±102	DEPTH WATER FIRST ENCOUNTERED (FT) n/a	
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) n/a	DATE STATIC MEASURED 10/31/2022	
	DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES – SPECIFY:							
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER – SPECIFY: Hollow Stem Auger						CHECK HERE IF PITLESS ADAPTER IS INSTALLED <input type="checkbox"/>	
	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	0 102		±6.5	Soil Boring	--	--	--	--
3. ANNULAR MATERIAL	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL		AMOUNT (cubic feet)	METHOD OF PLACEMENT	


FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 01/28/2022)

FILE NO. RA-13235	POD NO. 1	TRN NO. 733608
LOCATION 21.175. 31E 111	WELL TAG ID NO. NA	PAGE 1 OF 2

	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	FROM	TO				
4. HYDROGEOLOGIC LOG OF WELL	0	4	4	Sand, Fine-grained with caliche, Tanish white	Y    ✓ N	
	4	14	10	Sand, Fine-grained, poorly graded, unconsolidated, Tann	Y    ✓ N	
	17	70	53	Sand, Fine-grained, poorly graded, unconsolidated, Reddish Brown	Y    ✓ N	
	70	102	32	Clay, consolidated, Reddish Brown	Y    ✓ N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
	METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:					TOTAL ESTIMATED WELL YIELD (gpm):
<input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER - SPECIFY:					0.00	

5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.
	MISCELLANEOUS INFORMATION: Removed well material, back filled from total depth to 10 feet below ground surface. Then plugged using hydrated benonite hole plug from 10 below ground surface to surface.	
	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Shane Eldridge, Cameron Pruitt	

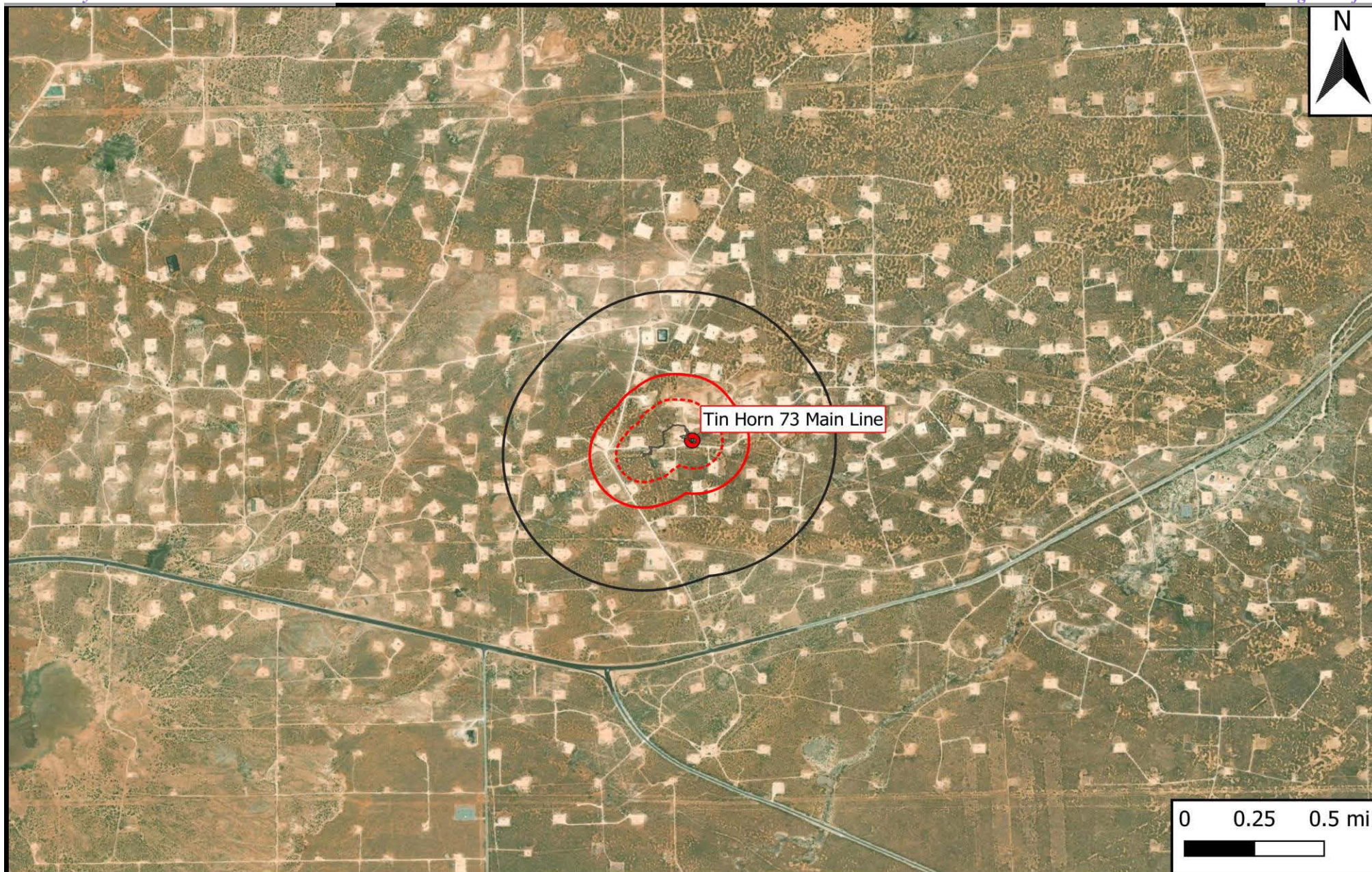
6. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:	
	 Jackie D. Atkins SIGNATURE OF DRILLER / PRINT SIGNEE NAME	11/1/2022 DATE

FOR OSE INTERNAL USE

WR-20 WELL RECORD &amp; LOG (Version 01/28/2022)

FILE NO. BA-13235	POD NO. 1	TRN NO. 733608
LOCATION 21.175.31E 111	WELL TAG ID NO. NA	PAGE 2 OF 2



**Legend**

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

**Figure 5**

USGS Well Proximity Map  
Spur Energy Partners, LLC  
Tin Horn 73 Main Line  
GPS: 32.82605, -103.87067  
Eddy County



Drafted: mag

Checked: jwl

Date: 11/30/23



## **Appendix B**

### **Field Data**



## Sample Log

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

Project: Tin Horn 73 Main Line

Project Number: 18274      Latitude: 32.82605      Longitude: -103.87067

Sample ID	PID/Odor		Chloride Conc.	GPS
V1 @ surface	light	6.0	1296	
V1 @ 1'	light	2.8	324	
V1 @ 2'	-	4.0	604	
V1 @ 3'	-	1.8	152	
V2 @ surface	-	5.0	908	
V2 @ 1'	-	5.0 H.S.	4152	
V2 @ 2'	-	4.0	604	
V2 @ 3'	-	1.8	152	
V3 @ surface	-	6.0 H.S.	6204	
V3 @ 1'	-	6.8 H.S.	8664	
V3 @ 2'	-	8.0	2588	
V3 @ 3'	-	7.0	1820	
V3 @ 4'	-	5.4	1052	
V3 @ 5'	-	3.4	452	
V4 @ surface	-	8.0	2588	
V4 @ 1'	-	6.0 H.S.	6204	
V4 @ 2'	-	6.0	1296	
V4 @ 3'	-	7.0	1820	
V4 @ 4'	-	6.0 H.S.	6204	
V4 @ 5'	-	3.0	364	
V5 @ 0'	-	9.0	2588	
V5 @ 1'	-	6.0	1296	
V5 @ 2'	-	3.0	364	
V5 @ 3'	-	2.8	324	

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



## Sample Log

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

Project: Tin Horn 73 Main Line

Project Number: 18274 Latitude: 32.82605 Longitude: -103.87067

Sample ID	PID/Odor	Chloride Conc.	GPS
FL # 1 @ 4 Ft	-	1176	
FL # 2 @ 4 Ft	-	528	
FL # 3 @ 4 Ft	-	528	
FL # 4 @ 4 Ft	-	396	
FL # 5 @ 4 Ft	-	628	
FL # 6 @ 4 Ft	-	436	
FL # 7 @ 4 Ft	-	192	
FL # 8 @ 4 Ft	-	320	
FL # 9 @ 4 Ft	-	396	
FL # 10 @ 4 Ft	-	480	
FL # 11 @ 4 Ft	-	320	
FL # 12 @ 4 Ft	-	220	
EW 1.	-	<del>192</del> 320	
EW 2.	-	192	
WW 1.	-	436	
WW 2.	-	220	
SW 1.	-	436	
SW 2.	-	628	
NW 1.	-	576	
NW 2.	-	<del>480</del> 480	
FL # 13 @ 4 Ft	-	444	
FL # 14 @ 4 Ft	-	1292	
FL # 15 @ 4 Ft	-	648	
FL # 16 @ 4 Ft	-	2396	
FL # 17 @ 4 Ft	-	1816	
FL # 18 @ 4 Ft	-	1584	
FL # 19 @ 4 Ft	-	972	
FL # 20 @ 4 Ft	-	444	
SW 3.	-	320	
SW 4.	-	440	
NW 3.	-	444	
NW 4.	-	164	
SW 5.	-	592	
SW 6.	-	488	
NW 5.	-	488	
NW 6.	-	592	

Sample Point = SP #1 @ ## etc

Test Trench = TT #1 @ ##

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

Floor = FL #1 etc

Refusal = SP #1 @ 4'-R

Stockpile = Stockpile #1

Sidewall = SW #1 etc

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

GPS Sample Points, Center of Comp Areas



## Sample Log

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

Project: \_\_\_\_\_

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

Sample ID	PID/Odor	Chloride Conc.	GPS
NW 7.	-	540	
NW 8.	-	488	
SW 7.	-	540	
SW 8.	-	248	
FL # 21. @ 4 Ft	-	1208	
FL # 22. @ 4 Ft	-	1048	
FL # 23. @ 4 Ft	-	1124	
FL # 24. @ 4 Ft	-	2588	
FL # 25. @ 4 Ft	-	1584	
FL # 26. @ 4 Ft	-	972	
SW 9.	-	592	
NW 9.	-	528	
FL # 27. @ 4 Ft	-	996	
FL # 28. @ 4 Ft	-	1148	
FL # 29. @ 4 Ft	-	924	
FL # 30. @ 4 Ft	-	528	
EW 3.	-	592	
EW 4.	-	248	
WW 3.	-	444	
WW 4.	-	528	
EW 5.	-	480	
EW 6.	-	576	
WW 5.	-	576	
WW 6.	-	576	
FL # 31. @ 4 Ft	-	680	
FL # 32. @ 4 Ft	-	628	
EW 7.	-	596	
WW 7.	-	576	
FL # 33. @ 4 Ft	-	592	
FL # 34. @ 4 Ft	-	1696	
EW 8.	-	116	
WW 8.	-	116	
NW 10.	-	248	
SW 10.	-	248	
FL # 35. @ 4 Ft	-	2232	
FL # 36. @ 4 Ft	-	1048	

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



## Sample Log

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

Project: \_\_\_\_\_

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

Sample ID	PID/Odor	Chloride Conc.	GPS
FL # 38. @ 4 ft	-	1384	
FL # 39. @ 4 ft	-	1384	
FL # 40. @ 4 ft	-	2080	
FL # 41. @ 4 ft	-	1292	
FL # 42. @ 4 ft	-	972	
FL # 43. @ 4 ft	-	2080	
FL # 44. @ 4 ft	-	972	
FL # 45. @ 4 ft	-	708	
FL # 46. @ 4 ft	-	698	
EW 9.	-	116	
SW 11.	-	396	
FL # 47 @ 4 ft	-	280	
FL # 48 @ 4 ft	-	832	
FL # 49 @ 4 ft	-	592	
FL # 50 @ 4 ft	-	1328	
FL # 51 @ 4 ft	-	10,692	
FL # 52 @ 4 ft	-	6,624	
FL # 53 @ 4 ft	-	13,864	
SW 12.	-	520	
FL # 54. @ 4 ft	-	1696	
FL # 55. @ 4 ft	-	2588	
FL # 56 @ 4 ft	-	6,124	
FL # 57. @ 4 ft	-	9,862	
FL # 58. @ 4 ft	-	6,396	
FL # 59. @ 4 ft	-	2588	
FL # 60. @ 4 ft	-	5904	
FL # 61. @ 4 ft	-	3,680	
FL # 62 @ 4 ft	-	11,916	
FL # 63 @ 4 ft	-	900	
FL # 64 @ 4 ft	-	6,396	
FL # 65 @ 4 ft	-	2588	
FL # 66 @ 4 ft	-	4324	
NW 11.	-	528	
NW 12.	-	528	
NW 13.	-	444	
SW 13.	-	396	

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





## Sample Log

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

Project: \_\_\_\_\_

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

Sample ID	PID/Odor	Chloride Conc.	GPS
FL# 67. @ 4 Ft	-	2588	
FL# 68. @ 4 Ft	-	2588	
Sw 10.	-	5464	
FL# 69. @ 2 Ft	-	320	
FL# 70. @ 2 Ft	-	320	
FL# 71. @ 3 Ft	-	192	
FL# 72. @ 3 Ft	-	444	
FL# 73. @ 2 Ft	-	396	
Sw 14.	-	444	
Sw 10.	-	216	
FL# 74. @ 2 Ft	-	596	
FL# 75. @ 3 Ft	-	488	
FL# 76. @ 3 Ft	-	356	
FL# 77. @ 2 Ft	-	320	
FL# 78. @ 2 Ft	-	528	
FL# 79. @ 2 Ft	-	444	
FL# 80. @ 2 Ft	-	396	
FL# 81. @ 2 Ft	-	444	
FL# 82. @ 2 Ft	-	488	
FL# 83. @ 2 Ft	-	488	
FL# 84. @ 2 Ft	-	488	
FL# 85. @ 2 Ft	-	396	
FL# 86. @ 2 Ft	-	444	
FL# 87. @ 4 Ft	-	2588	
FL# 88. @ 4 Ft	-	1384	
FL# 89. @ 1 Ft	-	592	
FL# 90. @ 1 Ft	-	488	
FL# 91. @ 1 Ft	-	248	
FL# 92. @ 1 Ft	-	592	
FL# 93. @ 1 Ft	-	540	
FL# 94. @ 1 Ft	-	444	
FL# 95. @ 1 Ft	-	444	
FL# 96. @ 1 Ft	-	540	
FL# 97. @ 1 Ft	-	356	
FL# 98. @ 1 Ft	-	444	
NW 14	-	386	

Sample Point = SP #1 @ ## etc

Test Trench = TT #1 @ ##

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

Floor = FL #1 etc

Refusal = SP #1 @ 4'-R

Stockpile = Stockpile #1

Sidewall = SW #1 etc

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

GPS Sample Points, Center of Comp Areas



## Sample Log

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

Project: \_\_\_\_\_

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

Sample ID	PID/Odor	Chloride Conc.	GPS
NW 15.	-	592	FL # 124. @ 2 Ft
FL # 99. @ 2 Ft	-	444	FL # 125. @ 2 Ft
SW 15.	-	280	FL # 126. @ 2 Ft
FL # 100. @ 2 Ft	-	592	FL # 127. @ 2 Ft
FL # 101. @ 3 Ft	-	592	FL # 128. @ 2 Ft
FL # 102. @ 3 Ft	-	444	FL # 129. @ 2 Ft
FL # 103. @ 3 Ft	-	444	FL # 130. @ 2 Ft
FL # 104. @ 3 Ft	-	592	FL # 131. @ 2 Ft
FL # 105. @ 2 Ft	-	356	FL # 132. @ 2 Ft
FL # 106. @ 2 Ft	-	248	FL # 133. @ 2 Ft
FL # 107. @ 2 Ft	-	540	FL # 134. @ 2 Ft
FL # 108. @ 2 Ft	-	540	FL # 135. @ 2 Ft
FL # 109. @ 2 Ft	-	356	
FL # 110. @ 2 Ft	-	444	
WW 9	-	2588	
SW 16.	-	832	
NW 16.	-	444	
FL # 111. @ 3 Ft	-	1816	
SW 16.	-	396	
WW 9.	-	396	
FL # 111. @ 4 Ft	-	592	
FL # 112. @ 3 Ft	-	356	
FL # 113. @ 2 Ft	-	316	
FL # 114. @ 2 Ft	-	592	
FL # 115. @ 2 Ft	-	316	
FL # 116. @ 2 Ft	-	118	
FL # 117. @ 2 Ft	-	444	
FL # 118. @ 2 Ft	-	316	
FL # 119. @ 2 Ft	-	488	
NW 17.	-	1944	
SW 17.	-	ND	
EW 11.	-	ND	
FL # 120. @ 2 Ft	-	488	
FL # 121. @ 2 Ft	-	488	
FL # 122. @ 2 Ft	-	316	
FL # 123. @ 2 Ft	-	856	

Sample Point = SP #1 @ ## etc

Test Trench = TT #1 @ ##

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

Floor = FL #1 etc

Refusal = SP #1 @ 4'-R

Stockpile = Stockpile #1

Sidewall = SW #1 etc

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


GPS Sample Points, Center of Comp Areas


## **Appendix C**

### **Photographic Log**




## Photographic Log


<b>Photo Number:</b> 1	 <p>May 31, 2023 at 10:24:22 AM +32.826039,-103.870564 ±5.00m 318° NW</p>
<b>Photo Direction:</b> Northwest	
<b>Photo Description:</b>  View of release area.	

<b>Photo Number:</b> 2	 <p>May 31, 2023 at 10:22:35 AM +32.826180,-103.871065 ±10.00m 291° W</p>
<b>Photo Direction:</b> West	
<b>Photo Description:</b>  View of release area.	




## Photographic Log


<b>Photo Number:</b> 3	 <p>May 31, 2023 at 10:22:28 AM +32.826180,-103.871065 ±10.00m 104° E</p>
<b>Photo Direction:</b> East	
<b>Photo Description:</b>  View of release area.	

<b>Photo Number:</b> 4	 <p>May 31, 2023 at 10:19:38 AM +32.826622,-103.870830 ±5.00m 216° SW</p>
<b>Photo Direction:</b> Southwest	
<b>Photo Description:</b>  View of release area.	




## Photographic Log


<b>Photo Number:</b> 5	
<b>Photo Direction:</b> West	
<b>Photo Description:</b>  View of release area.	

<b>Photo Number:</b> 6	
<b>Photo Direction:</b> Northwest	
<b>Photo Description:</b>  View of release area.	



## Photographic Log


<b>Photo Number:</b> 7	<div>May 31, 2023 at 10:02:53 AM +32.825573,-103.873147 ±5.00m 95° E</div> 
<b>Photo Direction:</b> East	
<b>Photo Description:</b>  View of release area.	

<b>Photo Number:</b> 8	<div>May 31, 2023 at 10:02:59 AM +32.825697,-103.873304 ±5.00m 135° SE</div> 
<b>Photo Direction:</b> Southeast	
<b>Photo Description:</b>  View of release area.	




## Photographic Log

<b>Photo Number:</b> 9	<div>10/16/23, 8:15 AM +32.825897,-103.870711 NM,Artesia</div> 
<b>Photo Direction:</b> North	
<b>Photo Description:</b>  View of open excavation.	

<b>Photo Number:</b> 10	<div>10/11/23, 11:15 AM +32.825964,-103.872323 NM,Artesia</div> 
<b>Photo Direction:</b> West	
<b>Photo Description:</b>  View of open excavation.	

## Photographic Log

<b>Photo Number:</b> 11	<div>10/10/23, 9:32 AM +32.826848,-103.871062 NM,Artesia</div> 
<b>Photo Direction:</b> West	
<b>Photo Description:</b>  View of open excavation.	

<b>Photo Number:</b> 12	<div>10/16/23, 8:15 AM +32.825897,-103.870711 NM,Artesia</div> 
<b>Photo Direction:</b> North	
<b>Photo Description:</b>  View of open excavation.	



## Photographic Log

<b>Photo Number:</b> 13	<div>10/18/23, 1:51 PM +32.825594,-103.873023 NM,Artesia</div> 
<b>Photo Direction:</b> West	
<b>Photo Description:</b>  View of open excavation.	

<b>Photo Number:</b> 14	<div>10/16/23, 7:19 AM +32.826594,-103.870820 NM,Artesia</div> 
<b>Photo Direction:</b> North	
<b>Photo Description:</b>  View of open excavation.	

## Photographic Log


<b>Photo Number:</b> 15	<div>10/24/23, 9:20 AM +32.825994,-103.873426 NM,Artesia</div> 
<b>Photo Direction:</b> South	
<b>Photo Description:</b>  View of open excavation.	

<b>Photo Number:</b> 16	<div>10/17/23, 11:21 AM +32.826194,-103.871417 NM,Artesia</div> 
<b>Photo Direction:</b> East	
<b>Photo Description:</b>  View of open excavation.	




## Photographic Log


<b>Photo Number:</b> 17	<div>10/30/23, 4:25 PM +32.826169,-103.870930 NM,Artesia</div> 
<b>Photo Direction:</b> North	
<b>Photo Description:</b>  View of remediated area after backfill and grading.	

<b>Photo Number:</b> 18	<div>10/30/23, 4:25 PM +32.826169,-103.870930 NM,Artesia</div> 
<b>Photo Direction:</b> East	
<b>Photo Description:</b>  View of remediated area after backfill and grading.	





## Photographic Log

<b>Photo Number:</b> 19	<div>10/30/23, 4:24 PM +32.826169,-103.870930 NM,Artesia</div> 
<b>Photo Direction:</b> East	
<b>Photo Description:</b>  View of remediated area after backfill and grading.	

<b>Photo Number:</b> 20	<div>10/30/23, 4:34 PM +32.825751,-103.873497 NM,Artesia</div> 
<b>Photo Direction:</b> East	
<b>Photo Description:</b>  View of remediated area after backfill and grading.	


## Photographic Log

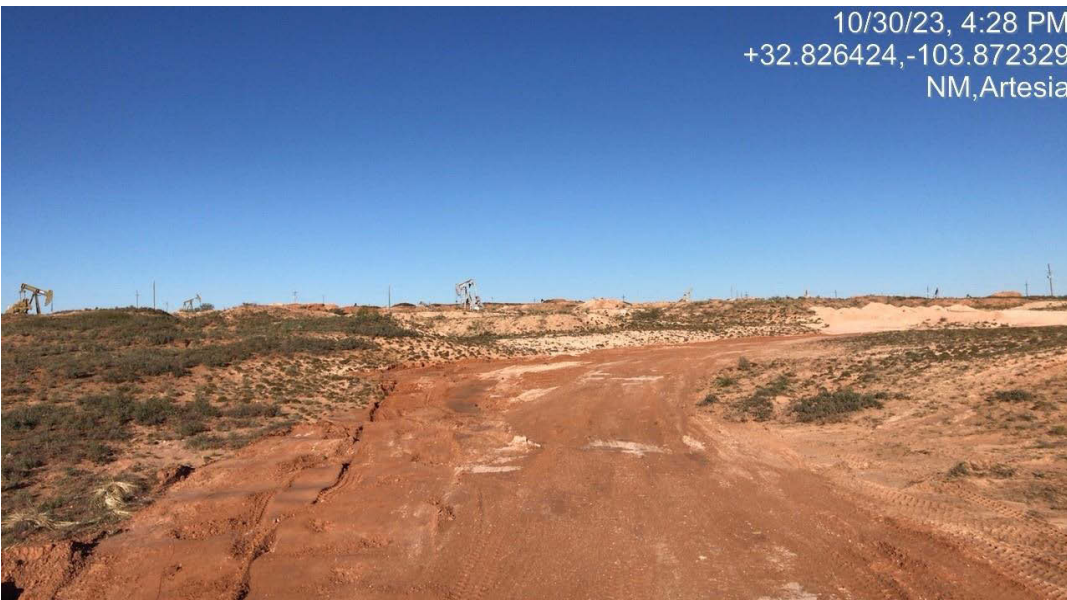
<b>Photo Number:</b> 21	<div>10/30/23, 4:28 PM +32.826511,-103.872277 NM,Artesia</div> 
<b>Photo Direction:</b> North	
<b>Photo Description:</b>  View of remediated area after backfill and grading.	

<b>Photo Number:</b> 22	<div>10/30/23, 4:33 PM +32.825641,-103.872766 NM,Artesia</div> 
<b>Photo Direction:</b> West	
<b>Photo Description:</b>  View of remediated area after backfill and grading.	



## Photographic Log

<b>Photo Number:</b> 23	 <p>10/30/23, 4:26 PM +32.826634,-103.871066 NM, Artesia</p>
<b>Photo Direction:</b> North	
<b>Photo Description:</b>  View of remediated area after backfill and grading.	

<b>Photo Number:</b> 24	 <p>10/30/23, 4:28 PM +32.826424,-103.872329 NM, Artesia</p>
<b>Photo Direction:</b> East	
<b>Photo Description:</b>  View of remediated area after backfill and grading.	



## **Appendix D**

### **Laboratory Analytical Reports**



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

---

October 10, 2023

ZACH CONDER

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: TIN HORN 73 MAIN LINE

Enclosed are the results of analyses for samples received by the laboratory on 10/04/23 16:20.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style 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  
 ZACH CONDER  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/04/2023  
 Reported: 10/10/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/03/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL #1 @ 4FT (H235412-01)**

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	10/06/2023	ND	2.20	110	2.00	3.64		
Toluene*	<0.050	0.050	10/06/2023	ND	2.08	104	2.00	3.05		
Ethylbenzene*	<0.050	0.050	10/06/2023	ND	2.12	106	2.00	4.06		
Total Xylenes*	<0.150	0.150	10/06/2023	ND	6.18	103	6.00	3.51		
Total BTEX	<0.300	0.300	10/06/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	10/06/2023	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	10/05/2023	ND	210	105	200	0.123	
DRO >C10-C28*	<10.0	10.0	10/05/2023	ND	220	110	200	1.36	
EXT DRO >C28-C36	<10.0	10.0	10/05/2023	ND					

Surrogate: 1-Chlorooctane 91.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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  
 ZACH CONDER  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/04/2023  
 Reported: 10/10/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/03/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL #2 @ 4FT (H235412-02)**

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	10/06/2023	ND	2.20	110	2.00	3.64	
Toluene*	<0.050	0.050	10/06/2023	ND	2.08	104	2.00	3.05	
Ethylbenzene*	<0.050	0.050	10/06/2023	ND	2.12	106	2.00	4.06	
Total Xylenes*	<0.150	0.150	10/06/2023	ND	6.18	103	6.00	3.51	
Total BTEx	<0.300	0.300	10/06/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/06/2023	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	10/05/2023	ND	210	105	200	0.123	
DRO >C10-C28*	<10.0	10.0	10/05/2023	ND	220	110	200	1.36	
EXT DRO >C28-C36	<10.0	10.0	10/05/2023	ND					

Surrogate: 1-Chlorooctane 86.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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  
 ZACH CONDER  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/04/2023  
 Reported: 10/10/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/03/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL #3 @ 4FT (H235412-03)**

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	10/06/2023	ND	2.20	110	2.00	3.64	
Toluene*	<0.050	0.050	10/06/2023	ND	2.08	104	2.00	3.05	
Ethylbenzene*	<0.050	0.050	10/06/2023	ND	2.12	106	2.00	4.06	
Total Xylenes*	<0.150	0.150	10/06/2023	ND	6.18	103	6.00	3.51	
Total BTEx	<0.300	0.300	10/06/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	10/06/2023	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	10/05/2023	ND	210	105	200	0.123	
DRO >C10-C28*	<10.0	10.0	10/05/2023	ND	220	110	200	1.36	
EXT DRO >C28-C36	<10.0	10.0	10/05/2023	ND					

Surrogate: 1-Chlorooctane 89.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/04/2023  
 Reported: 10/10/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/03/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL #4 @ 4FT (H235412-04)**

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	10/06/2023	ND	2.20	110	2.00	3.64	
Toluene*	<0.050	0.050	10/06/2023	ND	2.08	104	2.00	3.05	
Ethylbenzene*	<0.050	0.050	10/06/2023	ND	2.12	106	2.00	4.06	
Total Xylenes*	<0.150	0.150	10/06/2023	ND	6.18	103	6.00	3.51	
Total BTEx	<0.300	0.300	10/06/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/06/2023	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	10/05/2023	ND	210	105	200	0.123	
DRO >C10-C28*	<10.0	10.0	10/05/2023	ND	220	110	200	1.36	
EXT DRO >C28-C36	<10.0	10.0	10/05/2023	ND					

Surrogate: 1-Chlorooctane 93.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 10/04/2023  
 Reported: 10/10/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/03/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL #5 @ 4FT (H235412-05)**

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	10/06/2023	ND	2.20	110	2.00	3.64	
Toluene*	<0.050	0.050	10/06/2023	ND	2.08	104	2.00	3.05	
Ethylbenzene*	<0.050	0.050	10/06/2023	ND	2.12	106	2.00	4.06	
Total Xylenes*	<0.150	0.150	10/06/2023	ND	6.18	103	6.00	3.51	
Total BTEX	<0.300	0.300	10/06/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/06/2023	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	10/05/2023	ND	216	108	200	3.49	
DRO >C10-C28*	<10.0	10.0	10/05/2023	ND	212	106	200	1.21	
EXT DRO >C28-C36	<10.0	10.0	10/05/2023	ND					

Surrogate: 1-Chlorooctane 98.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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**Analytical Results For:**

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

Received: 10/04/2023  
 Reported: 10/10/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/03/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL #6 @ 4FT (H235412-06)**

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	10/06/2023	ND	2.20	110	2.00	3.64	
Toluene*	<0.050	0.050	10/06/2023	ND	2.08	104	2.00	3.05	
Ethylbenzene*	<0.050	0.050	10/06/2023	ND	2.12	106	2.00	4.06	
Total Xylenes*	<0.150	0.150	10/06/2023	ND	6.18	103	6.00	3.51	
Total BTEx	<0.300	0.300	10/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	10/06/2023	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	10/05/2023	ND	216	108	200	3.49	
DRO >C10-C28*	<10.0	10.0	10/05/2023	ND	212	106	200	1.21	
EXT DRO >C28-C36	<10.0	10.0	10/05/2023	ND					

Surrogate: 1-Chlorooctane 97.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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**Analytical Results For:**

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

Received: 10/04/2023  
 Reported: 10/10/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/03/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL #7 @ 4FT (H235412-07)**

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	10/06/2023	ND	2.20	110	2.00	3.64	
Toluene*	<0.050	0.050	10/06/2023	ND	2.08	104	2.00	3.05	
Ethylbenzene*	<0.050	0.050	10/06/2023	ND	2.12	106	2.00	4.06	
Total Xylenes*	<0.150	0.150	10/06/2023	ND	6.18	103	6.00	3.51	
Total BTEx	<0.300	0.300	10/06/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/06/2023	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	10/05/2023	ND	216	108	200	3.49	
DRO >C10-C28*	<10.0	10.0	10/05/2023	ND	212	106	200	1.21	
EXT DRO >C28-C36	<10.0	10.0	10/05/2023	ND					

Surrogate: 1-Chlorooctane 96.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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**Analytical Results For:**

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

Received: 10/04/2023  
 Reported: 10/10/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/03/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL #8 @ 4FT (H235412-08)**

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	10/06/2023	ND	2.20	110	2.00	3.64	
Toluene*	<0.050	0.050	10/06/2023	ND	2.08	104	2.00	3.05	
Ethylbenzene*	<0.050	0.050	10/06/2023	ND	2.12	106	2.00	4.06	
Total Xylenes*	<0.150	0.150	10/06/2023	ND	6.18	103	6.00	3.51	
Total BTEx	<0.300	0.300	10/06/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/06/2023	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	10/05/2023	ND	216	108	200	3.49	
DRO >C10-C28*	<10.0	10.0	10/05/2023	ND	212	106	200	1.21	
EXT DRO >C28-C36	<10.0	10.0	10/05/2023	ND					

Surrogate: 1-Chlorooctane 94.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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**Analytical Results For:**

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

Received: 10/04/2023  
 Reported: 10/10/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/03/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL #9 @ 4FT (H235412-09)**

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	10/06/2023	ND	2.20	110	2.00	3.64	
Toluene*	<0.050	0.050	10/06/2023	ND	2.08	104	2.00	3.05	
Ethylbenzene*	<0.050	0.050	10/06/2023	ND	2.12	106	2.00	4.06	
Total Xylenes*	<0.150	0.150	10/06/2023	ND	6.18	103	6.00	3.51	
Total BTEx	<0.300	0.300	10/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/06/2023	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	10/05/2023	ND	216	108	200	3.49	
DRO >C10-C28*	<10.0	10.0	10/05/2023	ND	212	106	200	1.21	
EXT DRO >C28-C36	<10.0	10.0	10/05/2023	ND					

Surrogate: 1-Chlorooctane 90.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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**Analytical Results For:**

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

Received: 10/04/2023  
 Reported: 10/10/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/03/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL #10 @ 4FT (H235412-10)**

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	10/06/2023	ND	2.20	110	2.00	3.64	
Toluene*	<0.050	0.050	10/06/2023	ND	2.08	104	2.00	3.05	
Ethylbenzene*	<0.050	0.050	10/06/2023	ND	2.12	106	2.00	4.06	
Total Xylenes*	<0.150	0.150	10/06/2023	ND	6.18	103	6.00	3.51	
Total BTX	<0.300	0.300	10/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/06/2023	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	10/05/2023	ND	216	108	200	3.49	
DRO >C10-C28*	<10.0	10.0	10/05/2023	ND	212	106	200	1.21	
EXT DRO >C28-C36	<10.0	10.0	10/05/2023	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 133 % 49.1-148

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**Analytical Results For:**

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

Received: 10/04/2023  
 Reported: 10/10/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/03/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL #11 @ 4FT (H235412-11)**

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	10/06/2023	ND	2.10	105	2.00	4.23	
Toluene*	<0.050	0.050	10/06/2023	ND	2.11	105	2.00	4.40	
Ethylbenzene*	<0.050	0.050	10/06/2023	ND	2.00	100	2.00	3.97	
Total Xylenes*	<0.150	0.150	10/06/2023	ND	6.00	100	6.00	3.65	
Total BTEx	<0.300	0.300	10/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	10/06/2023	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	10/05/2023	ND	216	108	200	3.49	
DRO >C10-C28*	<10.0	10.0	10/05/2023	ND	212	106	200	1.21	
EXT DRO >C28-C36	<10.0	10.0	10/05/2023	ND					

Surrogate: 1-Chlorooctane 120 % 48.2-134

Surrogate: 1-Chlorooctadecane 140 % 49.1-148

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**Analytical Results For:**

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

Received: 10/04/2023  
 Reported: 10/10/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/03/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL #12 @ 4FT (H235412-12)**

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	10/06/2023	ND	2.10	105	2.00	4.23	
Toluene*	<0.050	0.050	10/06/2023	ND	2.11	105	2.00	4.40	
Ethylbenzene*	<0.050	0.050	10/06/2023	ND	2.00	100	2.00	3.97	
Total Xylenes*	<0.150	0.150	10/06/2023	ND	6.00	100	6.00	3.65	
Total BTEX	<0.300	0.300	10/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.6 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/06/2023	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	10/05/2023	ND	216	108	200	3.49	
DRO >C10-C28*	<10.0	10.0	10/05/2023	ND	212	106	200	1.21	
EXT DRO >C28-C36	<10.0	10.0	10/05/2023	ND					

Surrogate: 1-Chlorooctane 92.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/04/2023  
 Reported: 10/10/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/03/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW 1 (H235412-13)**

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	10/06/2023	ND	2.10	105	2.00	4.23	
Toluene*	<0.050	0.050	10/06/2023	ND	2.11	105	2.00	4.40	
Ethylbenzene*	<0.050	0.050	10/06/2023	ND	2.00	100	2.00	3.97	
Total Xylenes*	<0.150	0.150	10/06/2023	ND	6.00	100	6.00	3.65	
Total BTX	<0.300	0.300	10/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.0 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/06/2023	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	10/05/2023	ND	216	108	200	3.49	
DRO >C10-C28*	<10.0	10.0	10/05/2023	ND	212	106	200	1.21	
EXT DRO >C28-C36	<10.0	10.0	10/05/2023	ND					

Surrogate: 1-Chlorooctane 96.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 10/04/2023  
 Reported: 10/10/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/03/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW 2 (H235412-14)**

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	10/06/2023	ND	2.10	105	2.00	4.23	
Toluene*	<0.050	0.050	10/06/2023	ND	2.11	105	2.00	4.40	
Ethylbenzene*	<0.050	0.050	10/06/2023	ND	2.00	100	2.00	3.97	
Total Xylenes*	<0.150	0.150	10/06/2023	ND	6.00	100	6.00	3.65	
Total BTEX	<0.300	0.300	10/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/06/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/05/2023	ND	216	108	200	3.49	
DRO >C10-C28*	<10.0	10.0	10/05/2023	ND	212	106	200	1.21	
EXT DRO >C28-C36	<10.0	10.0	10/05/2023	ND					

Surrogate: 1-Chlorooctane 97.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/04/2023  
 Reported: 10/10/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/03/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: NW 1 (H235412-15)**

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	10/06/2023	ND	2.10	105	2.00	4.23	
Toluene*	<0.050	0.050	10/06/2023	ND	2.11	105	2.00	4.40	
Ethylbenzene*	<0.050	0.050	10/06/2023	ND	2.00	100	2.00	3.97	
Total Xylenes*	<0.150	0.150	10/06/2023	ND	6.00	100	6.00	3.65	
Total BTEX	<0.300	0.300	10/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	10/06/2023	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/05/2023	ND	216	108	200	3.49	
DRO >C10-C28*	<10.0	10.0	10/05/2023	ND	212	106	200	1.21	
EXT DRO >C28-C36	<10.0	10.0	10/05/2023	ND					

Surrogate: 1-Chlorooctane 95.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/04/2023  
 Reported: 10/10/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/03/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: NW 2 (H235412-16)**

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	10/06/2023	ND	2.10	105	2.00	4.23	
Toluene*	<0.050	0.050	10/06/2023	ND	2.11	105	2.00	4.40	
Ethylbenzene*	<0.050	0.050	10/06/2023	ND	2.00	100	2.00	3.97	
Total Xylenes*	<0.150	0.150	10/06/2023	ND	6.00	100	6.00	3.65	
Total BTEX	<0.300	0.300	10/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	10/06/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/05/2023	ND	216	108	200	3.49	
DRO >C10-C28*	<10.0	10.0	10/05/2023	ND	212	106	200	1.21	
EXT DRO >C28-C36	<10.0	10.0	10/05/2023	ND					

Surrogate: 1-Chlorooctane 95.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 10/04/2023  
 Reported: 10/10/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/03/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: EW 1 (H235412-17)**

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	10/06/2023	ND	2.10	105	2.00	4.23	
Toluene*	<0.050	0.050	10/06/2023	ND	2.11	105	2.00	4.40	
Ethylbenzene*	<0.050	0.050	10/06/2023	ND	2.00	100	2.00	3.97	
Total Xylenes*	<0.150	0.150	10/06/2023	ND	6.00	100	6.00	3.65	
Total BTX	<0.300	0.300	10/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.2 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/06/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/05/2023	ND	216	108	200	3.49	
DRO >C10-C28*	<10.0	10.0	10/05/2023	ND	212	106	200	1.21	
EXT DRO >C28-C36	<10.0	10.0	10/05/2023	ND					

Surrogate: 1-Chlorooctane 93.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/04/2023  
 Reported: 10/10/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/03/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: EW 2 (H235412-18)**

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	10/06/2023	ND	2.10	105	2.00	4.23	
Toluene*	<0.050	0.050	10/06/2023	ND	2.11	105	2.00	4.40	
Ethylbenzene*	<0.050	0.050	10/06/2023	ND	2.00	100	2.00	3.97	
Total Xylenes*	<0.150	0.150	10/06/2023	ND	6.00	100	6.00	3.65	
Total BTEx	<0.300	0.300	10/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.2 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/06/2023	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/05/2023	ND	216	108	200	3.49	
DRO >C10-C28*	<10.0	10.0	10/05/2023	ND	212	106	200	1.21	
EXT DRO >C28-C36	<10.0	10.0	10/05/2023	ND					

Surrogate: 1-Chlorooctane 95.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/04/2023  
 Reported: 10/10/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/03/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: WW 1 (H235412-19)**

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	10/06/2023	ND	2.10	105	2.00	4.23	
Toluene*	<0.050	0.050	10/06/2023	ND	2.11	105	2.00	4.40	
Ethylbenzene*	<0.050	0.050	10/06/2023	ND	2.00	100	2.00	3.97	
Total Xylenes*	<0.150	0.150	10/06/2023	ND	6.00	100	6.00	3.65	
Total BTEx	<0.300	0.300	10/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	10/06/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/05/2023	ND	216	108	200	3.49	
DRO >C10-C28*	<10.0	10.0	10/05/2023	ND	212	106	200	1.21	
EXT DRO >C28-C36	<10.0	10.0	10/05/2023	ND					

Surrogate: 1-Chlorooctane 96.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 10/04/2023  
 Reported: 10/10/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/03/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: WW 2 (H235412-20)**

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	10/06/2023	ND	2.10	105	2.00	4.23	
Toluene*	<0.050	0.050	10/06/2023	ND	2.11	105	2.00	4.40	
Ethylbenzene*	<0.050	0.050	10/06/2023	ND	2.00	100	2.00	3.97	
Total Xylenes*	<0.150	0.150	10/06/2023	ND	6.00	100	6.00	3.65	
Total BTEx	<0.300	0.300	10/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/06/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/05/2023	ND	216	108	200	3.49	
DRO >C10-C28*	<10.0	10.0	10/05/2023	ND	212	106	200	1.21	
EXT DRO >C28-C36	<10.0	10.0	10/05/2023	ND					

Surrogate: 1-Chlorooctane 95.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

### Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager

[illegible]

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476  
FORM-006 R 2.0





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

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Spur Energy Partners, LLC				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																					
Project Manager: Zach Conder				P.O. #:																									
Address: 2617 W Marland Blvd				Company: Spur																									
City: Hobbs		State: NM		Zip: 88240		Attn: Kathy Purvis																							
Phone #: 575-396-2378		Fax #: 575-396-1429		Address:																									
Project #: 18274		Project Owner: Spur Energy Partners, LLC		City:																									
Project Name: Tin Horn 73 Main Line		State: NM		Zip:																									
Project Location: Rural Eddy				Phone #:																									
Sampler Name: Aaron Rios				Fax #:																									
FOR LAB USE ONLY																													
Lab I.D.  H2354/2		Sample I.D.		(G)RAB OR (C)OMP. # CONTAINERS	MATRIX					PRESERV.		SAMPLING																	
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :													DATE	TIME		
11 FL # 11 @ 4 Ft				X			X			X			10/3/23		X	X	X												
12 FL # 12 @ 4 Ft																													
13 SW 1.																													
14 SW 2.																													
15 NW 1.																													
16 NW 2.																													
17 EW 1.																													
18 EW 2.																													
19 WW 1.																													
20 WW 2.																													
<small>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.</small>																													
Relinquished By: Aaron Rios				Date: 10-4-23 Time: 1620				Received By: [Signature]				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Phone #: Add'l Fax #:													
Relinquished By:				Date: Time:				Received By:				REMARKS: Email results to <a href="mailto:pm@etechenv.com">pm@etechenv.com</a>																	
Delivered By: (Circle One) Sampler - UPS - Bus - Other: - 6.2c				#140				Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> <input type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No				CHECKED BY: (Initials) V.D.																	

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476  
FORM-006 R 2.0



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

October 10, 2023

ZACH CONDER

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: TIN HORN 73 MAIN LINE

Enclosed are the results of analyses for samples received by the laboratory on 10/04/23 16:20.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style 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  
 ZACH CONDER  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	10/04/2023	Sampling Date:	10/04/2023
Reported:	10/10/2023	Sampling Type:	Soil
Project Name:	TIN HORN 73 MAIN LINE	Sampling Condition:	Cool & Intact
Project Number:	18274	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - RURAL EDDY CO., NM		

**Sample ID: SW 3 (H235414-01)**

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	10/06/2023	ND	2.10	105	2.00	4.23	
Toluene*	<0.050	0.050	10/06/2023	ND	2.11	105	2.00	4.40	
Ethylbenzene*	<0.050	0.050	10/06/2023	ND	2.00	100	2.00	3.97	
Total Xylenes*	<0.150	0.150	10/06/2023	ND	6.00	100	6.00	3.65	
Total BTX	<0.300	0.300	10/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/06/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/05/2023	ND	213	107	200	0.466	
DRO >C10-C28*	<10.0	10.0	10/05/2023	ND	237	119	200	0.173	
EXT DRO >C28-C36	<10.0	10.0	10/05/2023	ND					

Surrogate: 1-Chlorooctane 88.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 10/04/2023  
 Reported: 10/10/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/04/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW 4 (H235414-02)**

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	10/06/2023	ND	2.10	105	2.00	4.23	
Toluene*	<0.050	0.050	10/06/2023	ND	2.11	105	2.00	4.40	
Ethylbenzene*	<0.050	0.050	10/06/2023	ND	2.00	100	2.00	3.97	
Total Xylenes*	<0.150	0.150	10/06/2023	ND	6.00	100	6.00	3.65	
Total BTX	<0.300	0.300	10/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	10/06/2023	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/05/2023	ND	213	107	200	0.466	
DRO >C10-C28*	<10.0	10.0	10/05/2023	ND	237	119	200	0.173	
EXT DRO >C28-C36	<10.0	10.0	10/05/2023	ND					

Surrogate: 1-Chlorooctane 93.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/04/2023  
 Reported: 10/10/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/04/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW 5 (H235414-03)**

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	10/06/2023	ND	2.10	105	2.00	4.23	
Toluene*	<0.050	0.050	10/06/2023	ND	2.11	105	2.00	4.40	
Ethylbenzene*	<0.050	0.050	10/06/2023	ND	2.00	100	2.00	3.97	
Total Xylenes*	<0.150	0.150	10/06/2023	ND	6.00	100	6.00	3.65	
Total BTX	<0.300	0.300	10/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	10/06/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/05/2023	ND	213	107	200	0.466	
DRO >C10-C28*	<10.0	10.0	10/05/2023	ND	237	119	200	0.173	
EXT DRO >C28-C36	<10.0	10.0	10/05/2023	ND					

Surrogate: 1-Chlorooctane 93.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/04/2023  
 Reported: 10/10/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/04/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW 6 (H235414-04)**

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	10/06/2023	ND	2.10	105	2.00	4.23	
Toluene*	<0.050	0.050	10/06/2023	ND	2.11	105	2.00	4.40	
Ethylbenzene*	<0.050	0.050	10/06/2023	ND	2.00	100	2.00	3.97	
Total Xylenes*	<0.150	0.150	10/06/2023	ND	6.00	100	6.00	3.65	
Total BTEX	<0.300	0.300	10/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	10/06/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/05/2023	ND	213	107	200	0.466	
DRO >C10-C28*	<10.0	10.0	10/05/2023	ND	237	119	200	0.173	
EXT DRO >C28-C36	<10.0	10.0	10/05/2023	ND					

Surrogate: 1-Chlorooctane 96.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 10/04/2023  
 Reported: 10/10/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/04/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW 7 (H235414-05)**

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	10/06/2023	ND	2.10	105	2.00	4.23	
Toluene*	<0.050	0.050	10/06/2023	ND	2.11	105	2.00	4.40	
Ethylbenzene*	<0.050	0.050	10/06/2023	ND	2.00	100	2.00	3.97	
Total Xylenes*	<0.150	0.150	10/06/2023	ND	6.00	100	6.00	3.65	
Total BTX	<0.300	0.300	10/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.2 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	10/06/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/05/2023	ND	213	107	200	0.466	
DRO >C10-C28*	<10.0	10.0	10/05/2023	ND	237	119	200	0.173	
EXT DRO >C28-C36	<10.0	10.0	10/05/2023	ND					

Surrogate: 1-Chlorooctane 95.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/04/2023  
 Reported: 10/10/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/04/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW 8 (H235414-06)**

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	10/06/2023	ND	2.10	105	2.00	4.23	
Toluene*	<0.050	0.050	10/06/2023	ND	2.11	105	2.00	4.40	
Ethylbenzene*	<0.050	0.050	10/06/2023	ND	2.00	100	2.00	3.97	
Total Xylenes*	<0.150	0.150	10/06/2023	ND	6.00	100	6.00	3.65	
Total BTEX	<0.300	0.300	10/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/06/2023	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/05/2023	ND	213	107	200	0.466	
DRO >C10-C28*	<10.0	10.0	10/05/2023	ND	237	119	200	0.173	
EXT DRO >C28-C36	<10.0	10.0	10/05/2023	ND					

Surrogate: 1-Chlorooctane 92.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/04/2023  
 Reported: 10/10/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/04/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: NW 3 (H235414-07)**

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	10/06/2023	ND	2.27	114	2.00	6.00	
Toluene*	<0.050	0.050	10/06/2023	ND	2.12	106	2.00	4.00	
Ethylbenzene*	<0.050	0.050	10/06/2023	ND	2.10	105	2.00	1.69	
Total Xylenes*	<0.150	0.150	10/06/2023	ND	6.15	103	6.00	1.81	
Total BTX	<0.300	0.300	10/06/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/06/2023	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/05/2023	ND	213	107	200	0.466	
DRO >C10-C28*	<10.0	10.0	10/05/2023	ND	237	119	200	0.173	
EXT DRO >C28-C36	<10.0	10.0	10/05/2023	ND					

Surrogate: 1-Chlorooctane 97.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 10/04/2023  
 Reported: 10/10/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/04/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: NW 4 (H235414-08)**

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	10/06/2023	ND	2.27	114	2.00	6.00	
Toluene*	<0.050	0.050	10/06/2023	ND	2.12	106	2.00	4.00	
Ethylbenzene*	<0.050	0.050	10/06/2023	ND	2.10	105	2.00	1.69	
Total Xylenes*	<0.150	0.150	10/06/2023	ND	6.15	103	6.00	1.81	
Total BTEX	<0.300	0.300	10/06/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/06/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/05/2023	ND	213	107	200	0.466	
DRO >C10-C28*	<10.0	10.0	10/05/2023	ND	237	119	200	0.173	
EXT DRO >C28-C36	<10.0	10.0	10/05/2023	ND					

Surrogate: 1-Chlorooctane 92.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 10/04/2023  
 Reported: 10/10/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/04/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: NW 5 (H235414-09)**

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	10/06/2023	ND	2.27	114	2.00	6.00	
Toluene*	<0.050	0.050	10/06/2023	ND	2.12	106	2.00	4.00	
Ethylbenzene*	<0.050	0.050	10/06/2023	ND	2.10	105	2.00	1.69	
Total Xylenes*	<0.150	0.150	10/06/2023	ND	6.15	103	6.00	1.81	
Total BTX	<0.300	0.300	10/06/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/06/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/05/2023	ND	213	107	200	0.466	
DRO >C10-C28*	<10.0	10.0	10/05/2023	ND	237	119	200	0.173	
EXT DRO >C28-C36	<10.0	10.0	10/05/2023	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 138 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 10/04/2023  
 Reported: 10/10/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/04/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: NW 6 (H235414-10)**

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	10/06/2023	ND	2.27	114	2.00	6.00	
Toluene*	<0.050	0.050	10/06/2023	ND	2.12	106	2.00	4.00	
Ethylbenzene*	<0.050	0.050	10/06/2023	ND	2.10	105	2.00	1.69	
Total Xylenes*	<0.150	0.150	10/06/2023	ND	6.15	103	6.00	1.81	
Total BTX	<0.300	0.300	10/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/06/2023	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	10/05/2023	ND	213	107	200	0.466	
DRO >C10-C28*	<10.0	10.0	10/05/2023	ND	237	119	200	0.173	
EXT DRO >C28-C36	<10.0	10.0	10/05/2023	ND					

Surrogate: 1-Chlorooctane 96.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 10/04/2023  
 Reported: 10/10/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/04/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: NW 7 (H235414-11)**

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	10/06/2023	ND	2.27	114	2.00	6.00	
Toluene*	<0.050	0.050	10/06/2023	ND	2.12	106	2.00	4.00	
Ethylbenzene*	<0.050	0.050	10/06/2023	ND	2.10	105	2.00	1.69	
Total Xylenes*	<0.150	0.150	10/06/2023	ND	6.15	103	6.00	1.81	
Total BTEX	<0.300	0.300	10/06/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/06/2023	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	10/05/2023	ND	213	107	200	0.466	
DRO >C10-C28*	<10.0	10.0	10/05/2023	ND	237	119	200	0.173	
EXT DRO >C28-C36	<10.0	10.0	10/05/2023	ND					

Surrogate: 1-Chlorooctane 89.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 10/04/2023  
 Reported: 10/10/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/04/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: NW 8 (H235414-12)**

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	10/06/2023	ND	2.27	114	2.00	6.00	
Toluene*	<0.050	0.050	10/06/2023	ND	2.12	106	2.00	4.00	
Ethylbenzene*	<0.050	0.050	10/06/2023	ND	2.10	105	2.00	1.69	
Total Xylenes*	<0.150	0.150	10/06/2023	ND	6.15	103	6.00	1.81	
Total BTEX	<0.300	0.300	10/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/06/2023	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	10/05/2023	ND	213	107	200	0.466	
DRO >C10-C28*	<10.0	10.0	10/05/2023	ND	237	119	200	0.173	
EXT DRO >C28-C36	<10.0	10.0	10/05/2023	ND					

Surrogate: 1-Chlorooctane 87.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 10/04/2023  
 Reported: 10/10/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/04/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL #13 @ 4FT (H235414-13)**

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	10/06/2023	ND	2.27	114	2.00	6.00	
Toluene*	<0.050	0.050	10/06/2023	ND	2.12	106	2.00	4.00	
Ethylbenzene*	<0.050	0.050	10/06/2023	ND	2.10	105	2.00	1.69	
Total Xylenes*	<0.150	0.150	10/06/2023	ND	6.15	103	6.00	1.81	
Total BTEx	<0.300	0.300	10/06/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/06/2023	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	10/05/2023	ND	213	107	200	0.466	
DRO >C10-C28*	<10.0	10.0	10/05/2023	ND	237	119	200	0.173	
EXT DRO >C28-C36	<10.0	10.0	10/05/2023	ND					

Surrogate: 1-Chlorooctane 91.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 10/04/2023  
 Reported: 10/10/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/04/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL #14 @ 4FT (H235414-14)**

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	10/06/2023	ND	2.27	114	2.00	6.00	
Toluene*	<0.050	0.050	10/06/2023	ND	2.12	106	2.00	4.00	
Ethylbenzene*	<0.050	0.050	10/06/2023	ND	2.10	105	2.00	1.69	
Total Xylenes*	<0.150	0.150	10/06/2023	ND	6.15	103	6.00	1.81	
Total BTEX	<0.300	0.300	10/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1420	16.0	10/06/2023	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	10/05/2023	ND	213	107	200	0.466	
DRO >C10-C28*	<10.0	10.0	10/05/2023	ND	237	119	200	0.173	
EXT DRO >C28-C36	<10.0	10.0	10/05/2023	ND					

Surrogate: 1-Chlorooctane 89.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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

**Analytical Results For:**

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

Received: 10/04/2023  
 Reported: 10/10/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/04/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL #15 @ 4FT (H235414-15)**

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	10/06/2023	ND	2.27	114	2.00	6.00	
Toluene*	<0.050	0.050	10/06/2023	ND	2.12	106	2.00	4.00	
Ethylbenzene*	<0.050	0.050	10/06/2023	ND	2.10	105	2.00	1.69	
Total Xylenes*	<0.150	0.150	10/06/2023	ND	6.15	103	6.00	1.81	
Total BTEx	<0.300	0.300	10/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	10/06/2023	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	10/05/2023	ND	213	107	200	0.466	
DRO >C10-C28*	<10.0	10.0	10/05/2023	ND	237	119	200	0.173	
EXT DRO >C28-C36	<10.0	10.0	10/05/2023	ND					

Surrogate: 1-Chlorooctane 91.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 10/04/2023  
 Reported: 10/10/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/04/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL #16 @ 4FT (H235414-16)**

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	10/06/2023	ND	2.27	114	2.00	6.00		
Toluene*	<0.050	0.050	10/06/2023	ND	2.12	106	2.00	4.00		
Ethylbenzene*	<0.050	0.050	10/06/2023	ND	2.10	105	2.00	1.69		
Total Xylenes*	<0.150	0.150	10/06/2023	ND	6.15	103	6.00	1.81		
Total BTX	<0.300	0.300	10/06/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1860	16.0	10/06/2023	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	10/05/2023	ND	213	107	200	0.466	
DRO >C10-C28*	<10.0	10.0	10/05/2023	ND	237	119	200	0.173	
EXT DRO >C28-C36	<10.0	10.0	10/05/2023	ND					

Surrogate: 1-Chlorooctane 89.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/04/2023  
 Reported: 10/10/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/04/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL #17 @ 4FT (H235414-17)**

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	10/06/2023	ND	2.27	114	2.00	6.00	
Toluene*	<0.050	0.050	10/06/2023	ND	2.12	106	2.00	4.00	
Ethylbenzene*	<0.050	0.050	10/06/2023	ND	2.10	105	2.00	1.69	
Total Xylenes*	<0.150	0.150	10/06/2023	ND	6.15	103	6.00	1.81	
Total BTEx	<0.300	0.300	10/06/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1490	16.0	10/06/2023	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	10/05/2023	ND	213	107	200	0.466	
DRO >C10-C28*	<10.0	10.0	10/05/2023	ND	237	119	200	0.173	
EXT DRO >C28-C36	<10.0	10.0	10/05/2023	ND					

Surrogate: 1-Chlorooctane 90.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/04/2023  
 Reported: 10/10/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/04/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL #18 @ 4FT (H235414-18)**

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	10/06/2023	ND	2.27	114	2.00	6.00		
Toluene*	<0.050	0.050	10/06/2023	ND	2.12	106	2.00	4.00		
Ethylbenzene*	<0.050	0.050	10/06/2023	ND	2.10	105	2.00	1.69		
Total Xylenes*	<0.150	0.150	10/06/2023	ND	6.15	103	6.00	1.81		
Total BTX	<0.300	0.300	10/06/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	384	16.0	10/06/2023	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	10/05/2023	ND	213	107	200	0.466	
DRO >C10-C28*	<10.0	10.0	10/05/2023	ND	237	119	200	0.173	
EXT DRO >C28-C36	<10.0	10.0	10/05/2023	ND					

Surrogate: 1-Chlorooctane 90.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 10/04/2023  
 Reported: 10/10/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/04/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL #19 @ 4FT (H235414-19)**

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	10/06/2023	ND	2.27	114	2.00	6.00	
Toluene*	<0.050	0.050	10/06/2023	ND	2.12	106	2.00	4.00	
Ethylbenzene*	<0.050	0.050	10/06/2023	ND	2.10	105	2.00	1.69	
Total Xylenes*	<0.150	0.150	10/06/2023	ND	6.15	103	6.00	1.81	
Total BTEx	<0.300	0.300	10/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	10/06/2023	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	10/05/2023	ND	213	107	200	0.466	
DRO >C10-C28*	<10.0	10.0	10/05/2023	ND	237	119	200	0.173	
EXT DRO >C28-C36	<10.0	10.0	10/05/2023	ND					

Surrogate: 1-Chlorooctane 83.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.7 % 49.1-148

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**Analytical Results For:**

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

Received: 10/04/2023  
 Reported: 10/10/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/04/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL #20 @ 4FT (H235414-20)**

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	10/06/2023	ND	2.27	114	2.00	6.00	
Toluene*	<0.050	0.050	10/06/2023	ND	2.12	106	2.00	4.00	
Ethylbenzene*	<0.050	0.050	10/06/2023	ND	2.10	105	2.00	1.69	
Total Xylenes*	<0.150	0.150	10/06/2023	ND	6.15	103	6.00	1.81	
Total BTEX	<0.300	0.300	10/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	10/06/2023	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	10/05/2023	ND	213	107	200	0.466	
DRO >C10-C28*	<10.0	10.0	10/05/2023	ND	237	119	200	0.173	
EXT DRO >C28-C36	<10.0	10.0	10/05/2023	ND					

Surrogate: 1-Chlorooctane 90.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 10/04/2023  
 Reported: 10/10/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/04/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL #21 @ 4FT (H235414-21)**

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	10/06/2023	ND	2.27	114	2.00	6.00	
Toluene*	<0.050	0.050	10/06/2023	ND	2.12	106	2.00	4.00	
Ethylbenzene*	<0.050	0.050	10/06/2023	ND	2.10	105	2.00	1.69	
Total Xylenes*	<0.150	0.150	10/06/2023	ND	6.15	103	6.00	1.81	
Total BTX	<0.300	0.300	10/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	10/06/2023	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	10/05/2023	ND	193	96.4	200	6.10	
DRO >C10-C28*	<10.0	10.0	10/05/2023	ND	193	96.6	200	4.00	
EXT DRO >C28-C36	<10.0	10.0	10/05/2023	ND					

Surrogate: 1-Chlorooctane 91.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.0 % 49.1-148

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**Analytical Results For:**

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

Received: 10/04/2023  
 Reported: 10/10/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/04/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL #22 @ 4FT (H235414-22)**

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	10/06/2023	ND	2.27	114	2.00	6.00	
Toluene*	<0.050	0.050	10/06/2023	ND	2.12	106	2.00	4.00	
Ethylbenzene*	<0.050	0.050	10/06/2023	ND	2.10	105	2.00	1.69	
Total Xylenes*	<0.150	0.150	10/06/2023	ND	6.15	103	6.00	1.81	
Total BTEx	<0.300	0.300	10/06/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	10/06/2023	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	10/05/2023	ND	193	96.4	200	6.10	
DRO >C10-C28*	<10.0	10.0	10/05/2023	ND	193	96.6	200	4.00	
EXT DRO >C28-C36	<10.0	10.0	10/05/2023	ND					

Surrogate: 1-Chlorooctane 93.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 10/04/2023  
 Reported: 10/10/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/04/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL #23 @ 4FT (H235414-23)**

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	10/06/2023	ND	2.27	114	2.00	6.00	
Toluene*	<0.050	0.050	10/06/2023	ND	2.12	106	2.00	4.00	
Ethylbenzene*	<0.050	0.050	10/06/2023	ND	2.10	105	2.00	1.69	
Total Xylenes*	<0.150	0.150	10/06/2023	ND	6.15	103	6.00	1.81	
Total BTEX	<0.300	0.300	10/06/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	10/06/2023	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	10/05/2023	ND	193	96.4	200	6.10	
DRO >C10-C28*	<10.0	10.0	10/05/2023	ND	193	96.6	200	4.00	
EXT DRO >C28-C36	<10.0	10.0	10/05/2023	ND					

Surrogate: 1-Chlorooctane 95.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 10/04/2023  
 Reported: 10/10/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/04/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL #24 @ 4FT (H235414-24)**

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	10/06/2023	ND	2.27	114	2.00	6.00	
Toluene*	<0.050	0.050	10/06/2023	ND	2.12	106	2.00	4.00	
Ethylbenzene*	<0.050	0.050	10/06/2023	ND	2.10	105	2.00	1.69	
Total Xylenes*	<0.150	0.150	10/06/2023	ND	6.15	103	6.00	1.81	
Total BTEX	<0.300	0.300	10/06/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2480	16.0	10/06/2023	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	10/05/2023	ND	193	96.4	200	6.10	
DRO >C10-C28*	<10.0	10.0	10/05/2023	ND	193	96.6	200	4.00	
EXT DRO >C28-C36	<10.0	10.0	10/05/2023	ND					

Surrogate: 1-Chlorooctane 88.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.6 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/04/2023  
 Reported: 10/10/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/04/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL #25 @ 4FT (H235414-25)**

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	10/06/2023	ND	2.27	114	2.00	6.00	
Toluene*	<0.050	0.050	10/06/2023	ND	2.12	106	2.00	4.00	
Ethylbenzene*	<0.050	0.050	10/06/2023	ND	2.10	105	2.00	1.69	
Total Xylenes*	<0.150	0.150	10/06/2023	ND	6.15	103	6.00	1.81	
Total BTX	<0.300	0.300	10/06/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1360	16.0	10/06/2023	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	10/05/2023	ND	193	96.4	200	6.10	
DRO >C10-C28*	<10.0	10.0	10/05/2023	ND	193	96.6	200	4.00	
EXT DRO >C28-C36	<10.0	10.0	10/05/2023	ND					

Surrogate: 1-Chlorooctane 98.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/04/2023  
 Reported: 10/10/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/04/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL #26 @ 4FT (H235414-26)**

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	10/06/2023	ND	2.27	114	2.00	6.00	
Toluene*	<0.050	0.050	10/06/2023	ND	2.12	106	2.00	4.00	
Ethylbenzene*	<0.050	0.050	10/06/2023	ND	2.10	105	2.00	1.69	
Total Xylenes*	<0.150	0.150	10/06/2023	ND	6.15	103	6.00	1.81	
Total BTX	<0.300	0.300	10/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1230	16.0	10/06/2023	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	10/05/2023	ND	193	96.4	200	6.10	
DRO >C10-C28*	<10.0	10.0	10/05/2023	ND	193	96.6	200	4.00	
EXT DRO >C28-C36	<10.0	10.0	10/05/2023	ND					

Surrogate: 1-Chlorooctane 91.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/04/2023  
 Reported: 10/10/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/04/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW 9 (H235414-27)**

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	10/05/2023	ND	2.09	104	2.00	0.535	
Toluene*	<0.050	0.050	10/05/2023	ND	2.11	105	2.00	0.401	
Ethylbenzene*	<0.050	0.050	10/05/2023	ND	2.04	102	2.00	0.844	
Total Xylenes*	<0.150	0.150	10/05/2023	ND	6.15	102	6.00	0.385	
Total BTX	<0.300	0.300	10/05/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/06/2023	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	10/05/2023	ND	193	96.4	200	6.10	
DRO >C10-C28*	<10.0	10.0	10/05/2023	ND	193	96.6	200	4.00	
EXT DRO >C28-C36	<10.0	10.0	10/05/2023	ND					

Surrogate: 1-Chlorooctane 93.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 10/04/2023  
 Reported: 10/10/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/04/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: NW 9 (H235414-28)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/06/2023	ND	2.00	100	2.00	2.21	
Toluene*	<0.050	0.050	10/06/2023	ND	1.97	98.3	2.00	1.02	
Ethylbenzene*	<0.050	0.050	10/06/2023	ND	2.04	102	2.00	0.135	
Total Xylenes*	<0.150	0.150	10/06/2023	ND	6.14	102	6.00	0.473	
Total BTEX	<0.300	0.300	10/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/06/2023	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	10/05/2023	ND	193	96.4	200	6.10	
DRO >C10-C28*	<10.0	10.0	10/05/2023	ND	193	96.6	200	4.00	
EXT DRO >C28-C36	<10.0	10.0	10/05/2023	ND					

Surrogate: 1-Chlorooctane 91.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

---

Celey D. Keene, Lab Director/Quality Manager



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

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Spur Energy Partners, LLC				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																																			
Project Manager: Zach Conder				P.O. #:																																							
Address: 2617 W Marland Blvd				Company: Spur																																							
City: Hobbs		State: NM		Zip: 88240		Attn: Kathy Purvis																																					
Phone #: 575-396-2378		Fax #: 575-396-1429		Address:		City:																																					
Project #: 18274		Project Owner: Spur Energy Partners, LLC		State: NM		Zip:																																					
Project Name: Tin Horn 73 Main Line				Phone #:																																							
Project Location: Rural Eddy				Fax #:																																							
Sampler Name: Aaron Rios																																											
FOR LAB USE ONLY																																											
Lab I.D.		Sample I.D.		GRAB OR (C)OMP.		MATRIX		PRESERV.		SAMPLING																																	
				# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME		Chloride		TPH		BTEX 8021											
H235414				X		X		X		X		10/4/23		X		X		X																									
1		SW 3.																																									
2		SW 4.																																									
3		SW 5.																																									
4		SW 6.																																									
5		SW 7.																																									
6		SW 8.																																									
7		NW 3.																																									
8		NW 4.																																									
9		NW 5.																																									
10		NW 6.																																									

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Relinquished By: Aaron Rios		Date: 10-4-23		Received By: [Signature]		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
Relinquished By:		Time: 1620		Received By:		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:	
Delivered By: (Circle One)						REMARKS: Email results to <a href="mailto:pm@etechenv.com">pm@etechenv.com</a>			
Sampler - UPS - Bus - Other:		4.98		#140		Sample Condition		CHECKED BY: (Initials)	
						Cool Intact			
						<input type="checkbox"/> Yes <input type="checkbox"/> No			
						<input type="checkbox"/> Yes <input type="checkbox"/> No			

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476  
FORM-006 R 2.0





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

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 32 of 33

<b>Company Name:</b> Spur Energy Partners, LLC <b>Project Manager:</b> Zach Conder <b>Address:</b> 2617 W Marland Blvd <b>City:</b> Hobbs <b>State:</b> NM <b>Zip:</b> 88240 <b>Phone #:</b> 575-396-2378 <b>Fax #:</b> 575-396-1429 <b>Project #:</b> 18274 <b>Project Owner:</b> Spur Energy Partners, LLC <b>Project Name:</b> Tin Horn 73 Main Line <b>Project Location:</b> Rural Eddy <b>Sampler Name:</b> Aaron RioS				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>															
				<b>P.O. #:</b> <b>Company:</b> Spur <b>Attn:</b> Kathy Purvis <b>Address:</b> <b>City:</b> <b>State:</b> NM <b>Zip:</b> <b>Phone #:</b> <b>Fax #:</b>																			
FOR LAB USE ONLY		Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP. # CONTAINERS		MATRIX		PRESERV.		SAMPLING											
								GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:		ACID/BASE: ICE / COOL OTHER:		DATE TIME		Chloride TPH BTEX 8021									
H235414						X		X		X		10/4/23		X X X									
11		NW 7.																					
12		NW 8.																					
13		FL # 13. @ 4 Ft																					
14		FL # 14. @ 4 Ft																					
15		FL # 15. @ 4 Ft																					
16		FL # 16. @ 4 Ft																					
17		FL # 17. @ 4 Ft																					
18		FL # 18. @ 4 Ft																					
19		FL # 19. @ 4 Ft																					
20		FL # 20. @ 4 Ft																					

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<b>Relinquished By:</b> Aaron RioS <b>Relinquished By:</b>		<b>Date:</b> 10-4-23 <b>Time:</b> 1620 <b>Date:</b> <b>Time:</b>		<b>Received By:</b> [Signature] <b>Received By:</b>		<b>Phone Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>Fax Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>REMARKS:</b> Email results to <a href="mailto:pm@etechenv.com">pm@etechenv.com</a>	
--	--	---	--	---	--	---	--

<b>Delivered By: (Circle One)</b> Sampler - UPS - Bus - Other: 4.9c		Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: (Initials) [Signature]	
--	--	--	--	--	--

† Cardinal cannot accept verbal changes. Please fax written changes to 575-396-1429





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

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Spur Energy Partners, LLC				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>													
Project Manager: Zach Conder				P.O. #:																	
Address: 2617 W Marland Blvd				Company: Spur																	
City: Hobbs		State: NM		Zip: 88240		Attn: Kathy Purvis															
Phone #: 575-396-2378		Fax #: 575-396-1429		Address:		City:															
Project #: 18274		Project Owner: Spur Energy Partners, LLC		State: NM		Zip:															
Project Name: Tin Horn 73 Main Line		Phone #:		Fax #:																	
Project Location: Rural Eddy																					
Sampler Name: <i>Aaron Rios</i>																					
FOR LAB USE ONLY																					
Lab I.D.		Sample I.D.		MATRIX		PRESERV.		SAMPLING													
H235414																					
21		FL # 21, @ 4 Ft		X		X		10/4/23		X X X											
22		FL # 22, @ 4 Ft																			
23		FL # 23, @ 4 Ft																			
24		FL # 24, @ 4 Ft																			
25		FL # 25, @ 4 Ft																			
26		FL # 26, @ 4 Ft																			
27		SW 9.		V		V		V		V V V											
28		NW 9.		X		X		10/4/23		X X X											
								TO 10/5/23													

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Relinquished By: <i>Aaron Rios</i>		Date: 10-4-23		Received By: <i>Remona</i>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
Relinquished By:		Time: 1620		Received By:		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:	
Delivered By: (Circle One)						REMARKS: Email results to <a href="mailto:pm@etechenv.com">pm@etechenv.com</a>			
Sampler - UPS - Bus - Other:		4.9c		#140		Sample Condition		CHECKED BY: (Initials)	
						Cool Intact			
						<input type="checkbox"/> Yes <input type="checkbox"/> No			

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FORM-006 R 2.0



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

October 11, 2023

ZACH CONDER

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: TIN HORN 73 MAIN LINE

Enclosed are the results of analyses for samples received by the laboratory on 10/05/23 16:26.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style 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  
 ZACH CONDER  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/05/2023  
 Reported: 10/11/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/05/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL #28 @ 4FT (H235440-01)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/08/2023	ND	2.01	101	2.00	1.83		
Toluene*	<0.050	0.050	10/08/2023	ND	2.04	102	2.00	5.17		
Ethylbenzene*	<0.050	0.050	10/08/2023	ND	2.13	107	2.00	6.07		
Total Xylenes*	<0.150	0.150	10/08/2023	ND	6.47	108	6.00	6.56		
Total BTEX	<0.300	0.300	10/08/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1060	16.0	10/06/2023	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/06/2023	ND	201	100	200	1.38	
DRO >C10-C28*	<10.0	10.0	10/06/2023	ND	220	110	200	0.397	
EXT DRO >C28-C36	<10.0	10.0	10/06/2023	ND					

Surrogate: 1-Chlorooctane 80.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.5 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/05/2023  
 Reported: 10/11/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/05/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL #29 @ 4FT (H235440-02)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/08/2023	ND	2.01	101	2.00	1.83	
Toluene*	<0.050	0.050	10/08/2023	ND	2.04	102	2.00	5.17	
Ethylbenzene*	<0.050	0.050	10/08/2023	ND	2.13	107	2.00	6.07	
Total Xylenes*	<0.150	0.150	10/08/2023	ND	6.47	108	6.00	6.56	
Total BTEx	<0.300	0.300	10/08/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	384	16.0	10/06/2023	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/06/2023	ND	201	100	200	1.38	
DRO >C10-C28*	<10.0	10.0	10/06/2023	ND	220	110	200	0.397	
EXT DRO >C28-C36	<10.0	10.0	10/06/2023	ND					

Surrogate: 1-Chlorooctane 79.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.6 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 10/05/2023  
 Reported: 10/11/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/05/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL #30 @ 4FT (H235440-03)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/08/2023	ND	2.01	101	2.00	1.83	
Toluene*	<0.050	0.050	10/08/2023	ND	2.04	102	2.00	5.17	
Ethylbenzene*	<0.050	0.050	10/08/2023	ND	2.13	107	2.00	6.07	
Total Xylenes*	<0.150	0.150	10/08/2023	ND	6.47	108	6.00	6.56	
Total BTX	<0.300	0.300	10/08/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	848	16.0	10/06/2023	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/06/2023	ND	201	100	200	1.38	
DRO >C10-C28*	<10.0	10.0	10/06/2023	ND	220	110	200	0.397	
EXT DRO >C28-C36	<10.0	10.0	10/06/2023	ND					

Surrogate: 1-Chlorooctane 78.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 10/05/2023  
 Reported: 10/11/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/05/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL #31 @ 4FT (H235440-04)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/08/2023	ND	2.01	101	2.00	1.83	
Toluene*	<0.050	0.050	10/08/2023	ND	2.04	102	2.00	5.17	
Ethylbenzene*	<0.050	0.050	10/08/2023	ND	2.13	107	2.00	6.07	
Total Xylenes*	<0.150	0.150	10/08/2023	ND	6.47	108	6.00	6.56	
Total BTEX	<0.300	0.300	10/08/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	10/06/2023	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/06/2023	ND	201	100	200	1.38	
DRO >C10-C28*	<10.0	10.0	10/06/2023	ND	220	110	200	0.397	
EXT DRO >C28-C36	<10.0	10.0	10/06/2023	ND					

Surrogate: 1-Chlorooctane 91.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 10/05/2023  
 Reported: 10/11/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/05/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL #32 @ 4FT (H235440-05)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/08/2023	ND	2.01	101	2.00	1.83		
Toluene*	<0.050	0.050	10/08/2023	ND	2.04	102	2.00	5.17		
Ethylbenzene*	<0.050	0.050	10/08/2023	ND	2.13	107	2.00	6.07		
Total Xylenes*	<0.150	0.150	10/08/2023	ND	6.47	108	6.00	6.56		
Total BTEx	<0.300	0.300	10/08/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	10/06/2023	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/06/2023	ND	201	100	200	1.38	
DRO >C10-C28*	<10.0	10.0	10/06/2023	ND	220	110	200	0.397	
EXT DRO >C28-C36	<10.0	10.0	10/06/2023	ND					

Surrogate: 1-Chlorooctane 94.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 10/05/2023  
 Reported: 10/11/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/05/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL #33 @ 4FT (H235440-06)**

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	10/07/2023	ND	1.98	98.8	2.00	1.81	
Toluene*	<0.050	0.050	10/07/2023	ND	1.98	98.8	2.00	1.90	
Ethylbenzene*	<0.050	0.050	10/07/2023	ND	1.89	94.5	2.00	3.10	
Total Xylenes*	<0.150	0.150	10/07/2023	ND	5.64	94.0	6.00	3.94	
Total BTX	<0.300	0.300	10/07/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.7 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	10/06/2023	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/06/2023	ND	201	100	200	1.38	
DRO >C10-C28*	<10.0	10.0	10/06/2023	ND	220	110	200	0.397	
EXT DRO >C28-C36	<10.0	10.0	10/06/2023	ND					

Surrogate: 1-Chlorooctane 87.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 10/05/2023  
 Reported: 10/11/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/05/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL #34 @ 4FT (H235440-07)**

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	10/07/2023	ND	1.98	98.8	2.00	1.81	
Toluene*	<0.050	0.050	10/07/2023	ND	1.98	98.8	2.00	1.90	
Ethylbenzene*	<0.050	0.050	10/07/2023	ND	1.89	94.5	2.00	3.10	
Total Xylenes*	<0.150	0.150	10/07/2023	ND	5.64	94.0	6.00	3.94	
Total BTX	<0.300	0.300	10/07/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	10/06/2023	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/06/2023	ND	201	100	200	1.38	
DRO >C10-C28*	<10.0	10.0	10/06/2023	ND	220	110	200	0.397	
EXT DRO >C28-C36	<10.0	10.0	10/06/2023	ND					

Surrogate: 1-Chlorooctane 90.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/05/2023  
 Reported: 10/11/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/05/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL #35 @ 4FT (H235440-08)**

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	10/07/2023	ND	1.98	98.8	2.00	1.81		
Toluene*	<0.050	0.050	10/07/2023	ND	1.98	98.8	2.00	1.90		
Ethylbenzene*	<0.050	0.050	10/07/2023	ND	1.89	94.5	2.00	3.10		
Total Xylenes*	<0.150	0.150	10/07/2023	ND	5.64	94.0	6.00	3.94		
Total BTX	<0.300	0.300	10/07/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.4 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	10/06/2023	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/06/2023	ND	201	100	200	1.38	
DRO >C10-C28*	<10.0	10.0	10/06/2023	ND	220	110	200	0.397	
EXT DRO >C28-C36	<10.0	10.0	10/06/2023	ND					

Surrogate: 1-Chlorooctane 89.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/05/2023  
 Reported: 10/11/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/05/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL #36 @ 4FT (H235440-09)**

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	10/07/2023	ND	1.98	98.8	2.00	1.81	
Toluene*	<0.050	0.050	10/07/2023	ND	1.98	98.8	2.00	1.90	
Ethylbenzene*	<0.050	0.050	10/07/2023	ND	1.89	94.5	2.00	3.10	
Total Xylenes*	<0.150	0.150	10/07/2023	ND	5.64	94.0	6.00	3.94	
Total BTEx	<0.300	0.300	10/07/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.4 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1090	16.0	10/06/2023	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/06/2023	ND	201	100	200	1.38	
DRO >C10-C28*	<10.0	10.0	10/06/2023	ND	220	110	200	0.397	
EXT DRO >C28-C36	<10.0	10.0	10/06/2023	ND					

Surrogate: 1-Chlorooctane 89.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/05/2023  
 Reported: 10/11/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/05/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW 10 (H235440-10)**

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	10/07/2023	ND	1.98	98.8	2.00	1.81	
Toluene*	<0.050	0.050	10/07/2023	ND	1.98	98.8	2.00	1.90	
Ethylbenzene*	<0.050	0.050	10/07/2023	ND	1.89	94.5	2.00	3.10	
Total Xylenes*	<0.150	0.150	10/07/2023	ND	5.64	94.0	6.00	3.94	
Total BTX	<0.300	0.300	10/07/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.5 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	10/06/2023	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/06/2023	ND	201	100	200	1.38	
DRO >C10-C28*	<10.0	10.0	10/06/2023	ND	220	110	200	0.397	
EXT DRO >C28-C36	<10.0	10.0	10/06/2023	ND					

Surrogate: 1-Chlorooctane 93.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 10/05/2023  
 Reported: 10/11/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/05/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: NW 10 (H235440-11)**

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	10/07/2023	ND	1.98	98.8	2.00	1.81	
Toluene*	<0.050	0.050	10/07/2023	ND	1.98	98.8	2.00	1.90	
Ethylbenzene*	<0.050	0.050	10/07/2023	ND	1.89	94.5	2.00	3.10	
Total Xylenes*	<0.150	0.150	10/07/2023	ND	5.64	94.0	6.00	3.94	
Total BTEx	<0.300	0.300	10/07/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.6 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/09/2023	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	10/06/2023	ND	145	72.4	200	0.0913	
DRO >C10-C28*	<10.0	10.0	10/06/2023	ND	163	81.3	200	0.709	
EXT DRO >C28-C36	<10.0	10.0	10/06/2023	ND					

Surrogate: 1-Chlorooctane 77.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/05/2023  
 Reported: 10/11/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/05/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: EW 3 (H235440-12)**

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	10/07/2023	ND	1.98	98.8	2.00	1.81		
Toluene*	<0.050	0.050	10/07/2023	ND	1.98	98.8	2.00	1.90		
Ethylbenzene*	<0.050	0.050	10/07/2023	ND	1.89	94.5	2.00	3.10		
Total Xylenes*	<0.150	0.150	10/07/2023	ND	5.64	94.0	6.00	3.94		
Total BTEx	<0.300	0.300	10/07/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.2 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/09/2023	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	10/06/2023	ND	145	72.4	200	0.0913	
DRO >C10-C28*	<10.0	10.0	10/06/2023	ND	163	81.3	200	0.709	
EXT DRO >C28-C36	<10.0	10.0	10/06/2023	ND					

Surrogate: 1-Chlorooctane 79.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/05/2023  
 Reported: 10/11/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/05/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: EW 4 (H235440-13)**

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	10/07/2023	ND	1.98	98.8	2.00	1.81		
Toluene*	<0.050	0.050	10/07/2023	ND	1.98	98.8	2.00	1.90		
Ethylbenzene*	<0.050	0.050	10/07/2023	ND	1.89	94.5	2.00	3.10		
Total Xylenes*	<0.150	0.150	10/07/2023	ND	5.64	94.0	6.00	3.94		
Total BTEx	<0.300	0.300	10/07/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.4 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	10/09/2023	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	10/06/2023	ND	145	72.4	200	0.0913	
DRO >C10-C28*	<10.0	10.0	10/06/2023	ND	163	81.3	200	0.709	
EXT DRO >C28-C36	<10.0	10.0	10/06/2023	ND					

Surrogate: 1-Chlorooctane 82.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/05/2023  
 Reported: 10/11/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/05/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: EW 5 (H235440-14)**

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	10/07/2023	ND	1.98	98.8	2.00	1.81		
Toluene*	<0.050	0.050	10/07/2023	ND	1.98	98.8	2.00	1.90		
Ethylbenzene*	<0.050	0.050	10/07/2023	ND	1.89	94.5	2.00	3.10		
Total Xylenes*	<0.150	0.150	10/07/2023	ND	5.64	94.0	6.00	3.94		
Total BTEx	<0.300	0.300	10/07/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.6 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	10/09/2023	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	10/06/2023	ND	145	72.4	200	0.0913	
DRO >C10-C28*	<10.0	10.0	10/06/2023	ND	163	81.3	200	0.709	
EXT DRO >C28-C36	<10.0	10.0	10/06/2023	ND					

Surrogate: 1-Chlorooctane 75.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 10/05/2023  
 Reported: 10/11/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/05/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: EW 6 (H235440-15)**

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	10/07/2023	ND	1.98	98.8	2.00	1.81	
Toluene*	<0.050	0.050	10/07/2023	ND	1.98	98.8	2.00	1.90	
Ethylbenzene*	<0.050	0.050	10/07/2023	ND	1.89	94.5	2.00	3.10	
Total Xylenes*	<0.150	0.150	10/07/2023	ND	5.64	94.0	6.00	3.94	
Total BTEx	<0.300	0.300	10/07/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.7 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/09/2023	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	10/06/2023	ND	145	72.4	200	0.0913	
DRO >C10-C28*	<10.0	10.0	10/06/2023	ND	163	81.3	200	0.709	
EXT DRO >C28-C36	<10.0	10.0	10/06/2023	ND					

Surrogate: 1-Chlorooctane 74.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.7 % 49.1-148

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

**Analytical Results For:**

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

Received: 10/05/2023  
 Reported: 10/11/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/05/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: EW 7 (H235440-16)**

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	10/07/2023	ND	1.98	98.8	2.00	1.81	
Toluene*	<0.050	0.050	10/07/2023	ND	1.98	98.8	2.00	1.90	
Ethylbenzene*	<0.050	0.050	10/07/2023	ND	1.89	94.5	2.00	3.10	
Total Xylenes*	<0.150	0.150	10/07/2023	ND	5.64	94.0	6.00	3.94	
Total BTEx	<0.300	0.300	10/07/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	10/09/2023	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	10/06/2023	ND	145	72.4	200	0.0913	
DRO >C10-C28*	<10.0	10.0	10/06/2023	ND	163	81.3	200	0.709	
EXT DRO >C28-C36	<10.0	10.0	10/06/2023	ND					

Surrogate: 1-Chlorooctane 79.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/05/2023  
 Reported: 10/11/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/05/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: EW 8 (H235440-17)**

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	10/07/2023	ND	1.98	98.8	2.00	1.81	
Toluene*	<0.050	0.050	10/07/2023	ND	1.98	98.8	2.00	1.90	
Ethylbenzene*	<0.050	0.050	10/07/2023	ND	1.89	94.5	2.00	3.10	
Total Xylenes*	<0.150	0.150	10/07/2023	ND	5.64	94.0	6.00	3.94	
Total BTEx	<0.300	0.300	10/07/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.0 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/09/2023	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	10/06/2023	ND	145	72.4	200	0.0913	
DRO >C10-C28*	<10.0	10.0	10/06/2023	ND	163	81.3	200	0.709	
EXT DRO >C28-C36	<10.0	10.0	10/06/2023	ND					

Surrogate: 1-Chlorooctane 86.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.6 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/05/2023  
 Reported: 10/11/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/05/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: WW 3 (H235440-18)**

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	10/07/2023	ND	1.98	98.8	2.00	1.81	
Toluene*	<0.050	0.050	10/07/2023	ND	1.98	98.8	2.00	1.90	
Ethylbenzene*	<0.050	0.050	10/07/2023	ND	1.89	94.5	2.00	3.10	
Total Xylenes*	<0.150	0.150	10/07/2023	ND	5.64	94.0	6.00	3.94	
Total BTEx	<0.300	0.300	10/07/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.0 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/09/2023	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	10/06/2023	ND	145	72.4	200	0.0913	
DRO >C10-C28*	<10.0	10.0	10/06/2023	ND	163	81.3	200	0.709	
EXT DRO >C28-C36	<10.0	10.0	10/06/2023	ND					

Surrogate: 1-Chlorooctane 81.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.2 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 10/05/2023  
 Reported: 10/11/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/05/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: WW 4 (H235440-19)**

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	10/07/2023	ND	1.98	98.8	2.00	1.81		
Toluene*	<0.050	0.050	10/07/2023	ND	1.98	98.8	2.00	1.90		
Ethylbenzene*	<0.050	0.050	10/07/2023	ND	1.89	94.5	2.00	3.10		
Total Xylenes*	<0.150	0.150	10/07/2023	ND	5.64	94.0	6.00	3.94		
Total BTEX	<0.300	0.300	10/07/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.3 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	10/09/2023	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	10/06/2023	ND	145	72.4	200	0.0913	
DRO >C10-C28*	<10.0	10.0	10/06/2023	ND	163	81.3	200	0.709	
EXT DRO >C28-C36	<10.0	10.0	10/06/2023	ND					

Surrogate: 1-Chlorooctane 75.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/05/2023  
 Reported: 10/11/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/05/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: WW 5 (H235440-20)**

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	10/07/2023	ND	1.98	98.8	2.00	1.81	
Toluene*	<0.050	0.050	10/07/2023	ND	1.98	98.8	2.00	1.90	
Ethylbenzene*	<0.050	0.050	10/07/2023	ND	1.89	94.5	2.00	3.10	
Total Xylenes*	<0.150	0.150	10/07/2023	ND	5.64	94.0	6.00	3.94	
Total BTEx	<0.300	0.300	10/07/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/09/2023	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	10/06/2023	ND	145	72.4	200	0.0913	
DRO >C10-C28*	<10.0	10.0	10/06/2023	ND	163	81.3	200	0.709	
EXT DRO >C28-C36	<10.0	10.0	10/06/2023	ND					

Surrogate: 1-Chlorooctane 81.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/05/2023  
 Reported: 10/11/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/05/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: WW 6 (H235440-21)**

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	10/07/2023	ND	1.98	98.8	2.00	1.81	
Toluene*	<0.050	0.050	10/07/2023	ND	1.98	98.8	2.00	1.90	
Ethylbenzene*	<0.050	0.050	10/07/2023	ND	1.89	94.5	2.00	3.10	
Total Xylenes*	<0.150	0.150	10/07/2023	ND	5.64	94.0	6.00	3.94	
Total BTEX	<0.300	0.300	10/07/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.2 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	10/09/2023	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	10/06/2023	ND	145	72.4	200	0.0913	
DRO >C10-C28*	<10.0	10.0	10/06/2023	ND	163	81.3	200	0.709	
EXT DRO >C28-C36	<10.0	10.0	10/06/2023	ND					

Surrogate: 1-Chlorooctane 79.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/05/2023  
 Reported: 10/11/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/05/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: WW 7 (H235440-22)**

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	10/07/2023	ND	1.98	98.8	2.00	1.81	
Toluene*	<0.050	0.050	10/07/2023	ND	1.98	98.8	2.00	1.90	
Ethylbenzene*	<0.050	0.050	10/07/2023	ND	1.89	94.5	2.00	3.10	
Total Xylenes*	<0.150	0.150	10/07/2023	ND	5.64	94.0	6.00	3.94	
Total BTEX	<0.300	0.300	10/07/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.4 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/09/2023	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	10/06/2023	ND	145	72.4	200	0.0913	
DRO >C10-C28*	<10.0	10.0	10/06/2023	ND	163	81.3	200	0.709	
EXT DRO >C28-C36	<10.0	10.0	10/06/2023	ND					

Surrogate: 1-Chlorooctane 78.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 10/05/2023  
 Reported: 10/11/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/05/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: WW 8 (H235440-23)**

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	10/07/2023	ND	1.98	98.8	2.00	1.81	
Toluene*	<0.050	0.050	10/07/2023	ND	1.98	98.8	2.00	1.90	
Ethylbenzene*	<0.050	0.050	10/07/2023	ND	1.89	94.5	2.00	3.10	
Total Xylenes*	<0.150	0.150	10/07/2023	ND	5.64	94.0	6.00	3.94	
Total BTEx	<0.300	0.300	10/07/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.5 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	10/09/2023	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	10/06/2023	ND	145	72.4	200	0.0913	
DRO >C10-C28*	<10.0	10.0	10/06/2023	ND	163	81.3	200	0.709	
EXT DRO >C28-C36	<10.0	10.0	10/06/2023	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/05/2023  
 Reported: 10/11/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/05/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL #27 @ 4FT (H235440-24)**

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	10/07/2023	ND	1.98	98.8	2.00	1.81		
Toluene*	<0.050	0.050	10/07/2023	ND	1.98	98.8	2.00	1.90		
Ethylbenzene*	<0.050	0.050	10/07/2023	ND	1.89	94.5	2.00	3.10		
Total Xylenes*	<0.150	0.150	10/07/2023	ND	5.64	94.0	6.00	3.94		
Total BTEx	<0.300	0.300	10/07/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.3 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	10/09/2023	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	10/06/2023	ND	145	72.4	200	0.0913	
DRO >C10-C28*	<10.0	10.0	10/06/2023	ND	163	81.3	200	0.709	
EXT DRO >C28-C36	<10.0	10.0	10/06/2023	ND					

Surrogate: 1-Chlorooctane 71.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 68.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

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.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476  
FORM-006 R 2.0





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

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Spur Energy Partners, LLC				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																			
Project Manager: Zach Conder				P.O. #:																							
Address: 2617 W Marland Blvd				Company: Spur																							
City: Hobbs		State: NM		Zip: 88240		Attn: Kathy Purvis																					
Phone #: 575-396-2378		Fax #: 575-396-1429		Address:		City:																					
Project #: 18274		Project Owner: Spur Energy Partners, LLC		State: NM		Zip:																					
Project Name: Tin Horn 73 Main Line				Phone #:																							
Project Location: Rural Eddy				Fax #:																							
Sampler Name: Aaron KOS																											
FOR LAB USE ONLY																											
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX		PRESERV.		SAMPLING															
								GROUNDWATER																			
								WASTEWATER																			
								SOIL																			
								OIL																			
								SLUDGE																			
								OTHER:																			
								ACID/BASE:																			
								ICE / COOL																			
								OTHER:																			
								DATE		TIME																	
H235440				X						X		10/5/23		Chloride		TPH		BTEX 8021									
11		NW 10.		X						X				X		X		X									
12		EW 3.																									
13		EW 4.																									
14		EW 5.																									
15		EW 6.																									
16		EW 7.																									
17		EW 8.																									
18		WW 3.																									
19		WW 4.																									
20		WW 5.																									

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Relinquished By: <i>Aaron KOS</i>		Date: 10-5-23		Received By: <i>Shedkiy</i>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
Relinquished By:		Time: 10:20		Received By:		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:	
Delivered By: (Circle One)		Time:		Sample Condition		CHECKED BY: (Initials)		REMARKS: Email results to <a href="mailto:pm@etechenv.com">pm@etechenv.com</a>	
Sampler - UPS - Bus - Other: 2-2: #140				Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No		<i>SK</i>			

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476  
FORM-006 R 2.0






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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 29 of 29

[illegible]

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Relinquished By:		Date:	Received By:	Phone Result:	<input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
		10523		Fax Result:	<input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:		Time:		REMARKS: Email results to <a href="mailto:pm@etechenv.com">pm@etechenv.com</a>		
Delivered By: (Circle One)			Sample Condition	CHECKED BY:		
Sampler - UPS - Bus - Other:		2-2: #140	Cool Intact	(Initials)		
			<input type="checkbox"/> Yes <input type="checkbox"/> Yes			
			<input type="checkbox"/> No <input type="checkbox"/> No			

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476  
FORM-006 R 2.0



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

October 16, 2023

ZACH CONDER

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: TIN HORN 73 MAIN LINE

Enclosed are the results of analyses for samples received by the laboratory on 10/11/23 15:56.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style 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  
 ZACH CONDER  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/11/2023  
 Reported: 10/16/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/11/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: FL # 69. @ 2FT (H235546-01)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/12/2023	ND	1.94	97.2	2.00	1.64	
Toluene*	<0.050	0.050	10/12/2023	ND	1.90	95.0	2.00	0.0988	
Ethylbenzene*	<0.050	0.050	10/12/2023	ND	1.98	99.2	2.00	0.796	
Total Xylenes*	<0.150	0.150	10/12/2023	ND	5.76	95.9	6.00	1.28	
Total BTEX	<0.300	0.300	10/12/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/12/2023	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	10/12/2023	ND	176	88.0	200	1.14	
DRO >C10-C28*	<10.0	10.0	10/12/2023	ND	201	101	200	1.67	
EXT DRO >C28-C36	<10.0	10.0	10/12/2023	ND					

Surrogate: 1-Chlorooctane 116 % 48.2-134

Surrogate: 1-Chlorooctadecane 137 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 10/11/2023  
 Reported: 10/16/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/11/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: FL # 70. @ 2FT (H235546-02)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/12/2023	ND	1.94	97.2	2.00	1.64		
Toluene*	<0.050	0.050	10/12/2023	ND	1.90	95.0	2.00	0.0988		
Ethylbenzene*	<0.050	0.050	10/12/2023	ND	1.98	99.2	2.00	0.796		
Total Xylenes*	<0.150	0.150	10/12/2023	ND	5.76	95.9	6.00	1.28		
Total BTEX	<0.300	0.300	10/12/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/12/2023	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	10/12/2023	ND	176	88.0	200	1.14	
DRO >C10-C28*	<10.0	10.0	10/12/2023	ND	201	101	200	1.67	
EXT DRO >C28-C36	<10.0	10.0	10/12/2023	ND					

Surrogate: 1-Chlorooctane 120 % 48.2-134

Surrogate: 1-Chlorooctadecane 141 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 10/11/2023  
 Reported: 10/16/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/11/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: FL # 71. @ 3FT (H235546-03)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/12/2023	ND	1.94	97.2	2.00	1.64		
Toluene*	<0.050	0.050	10/12/2023	ND	1.90	95.0	2.00	0.0988		
Ethylbenzene*	<0.050	0.050	10/12/2023	ND	1.98	99.2	2.00	0.796		
Total Xylenes*	<0.150	0.150	10/12/2023	ND	5.76	95.9	6.00	1.28		
Total BTEX	<0.300	0.300	10/12/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/12/2023	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	10/12/2023	ND	176	88.0	200	1.14	
DRO >C10-C28*	<10.0	10.0	10/12/2023	ND	201	101	200	1.67	
EXT DRO >C28-C36	<10.0	10.0	10/12/2023	ND					

Surrogate: 1-Chlorooctane 119 % 48.2-134

Surrogate: 1-Chlorooctadecane 140 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 10/11/2023  
 Reported: 10/16/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/11/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: FL # 72. @ 3FT (H235546-04)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/12/2023	ND	1.94	97.2	2.00	1.64		
Toluene*	<0.050	0.050	10/12/2023	ND	1.90	95.0	2.00	0.0988		
Ethylbenzene*	<0.050	0.050	10/12/2023	ND	1.98	99.2	2.00	0.796		
Total Xylenes*	<0.150	0.150	10/12/2023	ND	5.76	95.9	6.00	1.28		
Total BTX	<0.300	0.300	10/12/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/12/2023	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	10/12/2023	ND	176	88.0	200	1.14	
DRO >C10-C28*	<10.0	10.0	10/12/2023	ND	201	101	200	1.67	
EXT DRO >C28-C36	<10.0	10.0	10/12/2023	ND					

Surrogate: 1-Chlorooctane 117 % 48.2-134

Surrogate: 1-Chlorooctadecane 138 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/11/2023  
 Reported: 10/16/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/11/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: FL # 73. @ 2FT (H235546-05)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/12/2023	ND	1.94	97.2	2.00	1.64		
Toluene*	<0.050	0.050	10/12/2023	ND	1.90	95.0	2.00	0.0988		
Ethylbenzene*	<0.050	0.050	10/12/2023	ND	1.98	99.2	2.00	0.796		
Total Xylenes*	<0.150	0.150	10/12/2023	ND	5.76	95.9	6.00	1.28		
Total BTEX	<0.300	0.300	10/12/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	10/12/2023	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	10/12/2023	ND	176	88.0	200	1.14	
DRO >C10-C28*	<10.0	10.0	10/12/2023	ND	201	101	200	1.67	
EXT DRO >C28-C36	<10.0	10.0	10/12/2023	ND					

Surrogate: 1-Chlorooctane 116 % 48.2-134

Surrogate: 1-Chlorooctadecane 137 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 10/11/2023  
 Reported: 10/16/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/11/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: FL # 74. @ 2FT (H235546-06)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/12/2023	ND	1.94	97.2	2.00	1.64		
Toluene*	<0.050	0.050	10/12/2023	ND	1.90	95.0	2.00	0.0988		
Ethylbenzene*	<0.050	0.050	10/12/2023	ND	1.98	99.2	2.00	0.796		
Total Xylenes*	<0.150	0.150	10/12/2023	ND	5.76	95.9	6.00	1.28		
Total BTEX	<0.300	0.300	10/12/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	10/12/2023	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	10/12/2023	ND	176	88.0	200	1.14	
DRO >C10-C28*	<10.0	10.0	10/12/2023	ND	201	101	200	1.67	
EXT DRO >C28-C36	<10.0	10.0	10/12/2023	ND					

Surrogate: 1-Chlorooctane 120 % 48.2-134

Surrogate: 1-Chlorooctadecane 142 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/11/2023  
 Reported: 10/16/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/11/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: FL # 75. @ 3FT (H235546-07)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/12/2023	ND	1.94	97.2	2.00	1.64		
Toluene*	<0.050	0.050	10/12/2023	ND	1.90	95.0	2.00	0.0988		
Ethylbenzene*	<0.050	0.050	10/12/2023	ND	1.98	99.2	2.00	0.796		
Total Xylenes*	<0.150	0.150	10/12/2023	ND	5.76	95.9	6.00	1.28		
Total BTEx	<0.300	0.300	10/12/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/12/2023	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	10/12/2023	ND	176	88.0	200	1.14	
DRO >C10-C28*	<10.0	10.0	10/12/2023	ND	201	101	200	1.67	
EXT DRO >C28-C36	<10.0	10.0	10/12/2023	ND					

Surrogate: 1-Chlorooctane 118 % 48.2-134

Surrogate: 1-Chlorooctadecane 139 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/11/2023  
 Reported: 10/16/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/11/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: FL # 76. @ 3FT (H235546-08)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/12/2023	ND	1.94	97.2	2.00	1.64		
Toluene*	<0.050	0.050	10/12/2023	ND	1.90	95.0	2.00	0.0988		
Ethylbenzene*	<0.050	0.050	10/12/2023	ND	1.98	99.2	2.00	0.796		
Total Xylenes*	<0.150	0.150	10/12/2023	ND	5.76	95.9	6.00	1.28		
Total BTEX	<0.300	0.300	10/12/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/12/2023	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	10/12/2023	ND	176	88.0	200	1.14	
DRO >C10-C28*	<10.0	10.0	10/12/2023	ND	201	101	200	1.67	
EXT DRO >C28-C36	<10.0	10.0	10/12/2023	ND					

Surrogate: 1-Chlorooctane 116 % 48.2-134

Surrogate: 1-Chlorooctadecane 138 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/11/2023  
 Reported: 10/16/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/11/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: EW 10. (H235546-09)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/12/2023	ND	1.94	97.2	2.00	1.64		
Toluene*	<0.050	0.050	10/12/2023	ND	1.90	95.0	2.00	0.0988		
Ethylbenzene*	<0.050	0.050	10/12/2023	ND	1.98	99.2	2.00	0.796		
Total Xylenes*	<0.150	0.150	10/12/2023	ND	5.76	95.9	6.00	1.28		
Total BTEx	<0.300	0.300	10/12/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	10/12/2023	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	10/12/2023	ND	176	88.0	200	1.14	
DRO >C10-C28*	<10.0	10.0	10/12/2023	ND	201	101	200	1.67	
EXT DRO >C28-C36	<10.0	10.0	10/12/2023	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 130 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 10/11/2023  
 Reported: 10/16/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/11/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: SW 14. (H235546-10)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/12/2023	ND	1.94	97.2	2.00	1.64	
Toluene*	<0.050	0.050	10/12/2023	ND	1.90	95.0	2.00	0.0988	
Ethylbenzene*	<0.050	0.050	10/12/2023	ND	1.98	99.2	2.00	0.796	
Total Xylenes*	<0.150	0.150	10/12/2023	ND	5.76	95.9	6.00	1.28	
Total BTEX	<0.300	0.300	10/12/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	10/12/2023	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	10/12/2023	ND	176	88.0	200	1.14	
DRO >C10-C28*	<10.0	10.0	10/12/2023	ND	201	101	200	1.67	
EXT DRO >C28-C36	<10.0	10.0	10/12/2023	ND					

Surrogate: 1-Chlorooctane 117 % 48.2-134

Surrogate: 1-Chlorooctadecane 137 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



# **CARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

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

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

Company Name: Etech Environmental & Safety Solutions, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																					
Project Manager: <i>Zack Conder</i>				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																					
Address: 2617 West Marland				Company: <i>SPR</i>																									
City: Hobbs State: NM Zip: 88240				Attn: <i>Kathy Pervis</i>																									
Phone #: (575) 264-9884 Fax #:				Address:																									
Project #: <i>18274</i> Project Owner: <i>SPR Energy Partners, LLC</i>				City:																									
Project Name: <i>Tin Horn 73 main line</i>				State: Zip:																									
Project Location: <i>Rural Edley</i>				Phone #:																									
Sampler Name: <i>Aaron Rios</i>				Fax #:																									
FOR LAB USE ONLY						MATRIX		PRESERV.		SAMPLING																			
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER:		ACID/BASE:		ICE / COOL		OTHER:		DATE		TIME	
<i>H035546</i>				<i>X</i>								<i>X</i>								<i>X</i>						<i>10-11-23</i>			
<i>1</i>		<i>FL # 69 @ 2 Ft</i>		<i>X</i>								<i>X</i>								<i>X</i>									
<i>2</i>		<i>FL # 70 @ 2 Ft</i>																											
<i>3</i>		<i>FL # 71 @ 3 Ft</i>																											
<i>4</i>		<i>FL # 72 @ 3 Ft</i>																											
<i>5</i>		<i>FL # 73 @ 2 Ft</i>																											
<i>6</i>		<i>FL # 74 @ 2 Ft</i>																											
<i>7</i>		<i>FL # 75 @ 3 Ft</i>																											
<i>8</i>		<i>FL # 76 @ 3 Ft</i>																											
<i>9</i>		<i>EW 10.</i>																											
<i>10</i>		<i>SW 14.</i>																											

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Relinquished By: <i>Aaron Rios</i>		Date: <i>10-11-23</i>	Received By: <i>[Signature]</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By:		Date:	Received By:	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One)		Time: <i>4:32</i>	Sample Condition	CHECKED BY: (Initials)	
Sampler - UPS - Bus - Other:		<i>#1410</i>	<input checked="" type="checkbox"/> Cool <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No	<i>[Signature]</i>	

REMARKS:

Please email copy of COC and results to pm@etechenv.com.



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

October 18, 2023

ZACH CONDER

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: TIN HORN 73 MAIN LINE

Enclosed are the results of analyses for samples received by the laboratory on 10/12/23 16:42.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". 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  
 ZACH CONDER  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/12/2023  
 Reported: 10/18/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/12/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL # 77 @ 2FT (H235594-01)**

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	10/15/2023	ND	1.95	97.6	2.00	1.43		
Toluene*	<0.050	0.050	10/15/2023	ND	1.97	98.6	2.00	2.34		
Ethylbenzene*	<0.050	0.050	10/15/2023	ND	2.01	101	2.00	1.52		
Total Xylenes*	<0.150	0.150	10/15/2023	ND	6.03	101	6.00	1.74		
Total BTX	<0.300	0.300	10/15/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	10/16/2023	ND	448	112	400	3.51		

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	10/13/2023	ND	190	94.9	200	1.08	
DRO >C10-C28*	<10.0	10.0	10/13/2023	ND	175	87.4	200	3.14	
EXT DRO >C28-C36	<10.0	10.0	10/13/2023	ND					

Surrogate: 1-Chlorooctane 69.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 59.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 10/12/2023  
 Reported: 10/18/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/12/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL # 78 @ 2FT (H235594-02)**

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	10/15/2023	ND	1.95	97.6	2.00	1.43	
Toluene*	<0.050	0.050	10/15/2023	ND	1.97	98.6	2.00	2.34	
Ethylbenzene*	<0.050	0.050	10/15/2023	ND	2.01	101	2.00	1.52	
Total Xylenes*	<0.150	0.150	10/15/2023	ND	6.03	101	6.00	1.74	
Total BTEx	<0.300	0.300	10/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	10/16/2023	ND	448	112	400	3.51	

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	10/13/2023	ND	190	94.9	200	1.08	
DRO >C10-C28*	<10.0	10.0	10/13/2023	ND	175	87.4	200	3.14	
EXT DRO >C28-C36	<10.0	10.0	10/13/2023	ND					

Surrogate: 1-Chlorooctane 72.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 62.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/12/2023  
 Reported: 10/18/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/12/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL # 79 @ 2FT (H235594-03)**

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	10/15/2023	ND	1.95	97.6	2.00	1.43	
Toluene*	<0.050	0.050	10/15/2023	ND	1.97	98.6	2.00	2.34	
Ethylbenzene*	<0.050	0.050	10/15/2023	ND	2.01	101	2.00	1.52	
Total Xylenes*	<0.150	0.150	10/15/2023	ND	6.03	101	6.00	1.74	
Total BTX	<0.300	0.300	10/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	10/16/2023	ND	448	112	400	3.51		

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	10/13/2023	ND	190	94.9	200	1.08	
DRO >C10-C28*	<10.0	10.0	10/13/2023	ND	175	87.4	200	3.14	
EXT DRO >C28-C36	<10.0	10.0	10/13/2023	ND					

Surrogate: 1-Chlorooctane 70.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 60.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/12/2023  
 Reported: 10/18/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/12/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL # 80 @ 2FT (H235594-04)**

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	10/15/2023	ND	1.95	97.6	2.00	1.43	
Toluene*	<0.050	0.050	10/15/2023	ND	1.97	98.6	2.00	2.34	
Ethylbenzene*	<0.050	0.050	10/15/2023	ND	2.01	101	2.00	1.52	
Total Xylenes*	<0.150	0.150	10/15/2023	ND	6.03	101	6.00	1.74	
Total BTX	<0.300	0.300	10/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	10/16/2023	ND	448	112	400	3.51		

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	10/13/2023	ND	190	94.9	200	1.08	
DRO >C10-C28*	<10.0	10.0	10/13/2023	ND	175	87.4	200	3.14	
EXT DRO >C28-C36	<10.0	10.0	10/13/2023	ND					

Surrogate: 1-Chlorooctane 65.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 54.9 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/12/2023  
 Reported: 10/18/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/12/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL # 81 @ 2FT (H235594-05)**

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	10/15/2023	ND	1.95	97.6	2.00	1.43		
Toluene*	<0.050	0.050	10/15/2023	ND	1.97	98.6	2.00	2.34		
Ethylbenzene*	<0.050	0.050	10/15/2023	ND	2.01	101	2.00	1.52		
Total Xylenes*	<0.150	0.150	10/15/2023	ND	6.03	101	6.00	1.74		
Total BTEx	<0.300	0.300	10/15/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	10/16/2023	ND	448	112	400	3.51		

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	10/13/2023	ND	190	94.9	200	1.08	
DRO >C10-C28*	<10.0	10.0	10/13/2023	ND	175	87.4	200	3.14	
EXT DRO >C28-C36	<10.0	10.0	10/13/2023	ND					

Surrogate: 1-Chlorooctane 67.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 57.3 % 49.1-148

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**Analytical Results For:**

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

Received: 10/12/2023  
 Reported: 10/18/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/12/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL # 82 @ 2FT (H235594-06)**

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	10/15/2023	ND	1.95	97.6	2.00	1.43	
Toluene*	<0.050	0.050	10/15/2023	ND	1.97	98.6	2.00	2.34	
Ethylbenzene*	<0.050	0.050	10/15/2023	ND	2.01	101	2.00	1.52	
Total Xylenes*	<0.150	0.150	10/15/2023	ND	6.03	101	6.00	1.74	
Total BTEx	<0.300	0.300	10/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/16/2023	ND	448	112	400	3.51		

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	10/13/2023	ND	190	94.9	200	1.08	
DRO >C10-C28*	<10.0	10.0	10/13/2023	ND	175	87.4	200	3.14	
EXT DRO >C28-C36	<10.0	10.0	10/13/2023	ND					

Surrogate: 1-Chlorooctane 66.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 55.6 % 49.1-148

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**Analytical Results For:**

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

Received: 10/12/2023  
 Reported: 10/18/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/12/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL # 83 @ 2FT (H235594-07)**

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	10/15/2023	ND	1.95	97.6	2.00	1.43	
Toluene*	<0.050	0.050	10/15/2023	ND	1.97	98.6	2.00	2.34	
Ethylbenzene*	<0.050	0.050	10/15/2023	ND	2.01	101	2.00	1.52	
Total Xylenes*	<0.150	0.150	10/15/2023	ND	6.03	101	6.00	1.74	
Total BTX	<0.300	0.300	10/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/16/2023	ND	448	112	400	3.51		

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	10/13/2023	ND	190	94.9	200	1.08	
DRO >C10-C28*	<10.0	10.0	10/13/2023	ND	175	87.4	200	3.14	
EXT DRO >C28-C36	<10.0	10.0	10/13/2023	ND					

Surrogate: 1-Chlorooctane 66.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 55.6 % 49.1-148

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**Analytical Results For:**

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

Received: 10/12/2023  
 Reported: 10/18/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/12/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL # 84 @ 2FT (H235594-08)**

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	10/15/2023	ND	1.95	97.6	2.00	1.43	
Toluene*	<0.050	0.050	10/15/2023	ND	1.97	98.6	2.00	2.34	
Ethylbenzene*	<0.050	0.050	10/15/2023	ND	2.01	101	2.00	1.52	
Total Xylenes*	<0.150	0.150	10/15/2023	ND	6.03	101	6.00	1.74	
Total BTEx	<0.300	0.300	10/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/16/2023	ND	448	112	400	3.51	

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	10/13/2023	ND	190	94.9	200	1.08	
DRO >C10-C28*	<10.0	10.0	10/13/2023	ND	175	87.4	200	3.14	
EXT DRO >C28-C36	<10.0	10.0	10/13/2023	ND					

Surrogate: 1-Chlorooctane 66.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 55.2 % 49.1-148

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**Analytical Results For:**

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

Received: 10/12/2023  
 Reported: 10/18/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/12/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL # 85 @ 2FT (H235594-09)**

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	10/15/2023	ND	1.95	97.6	2.00	1.43	
Toluene*	<0.050	0.050	10/15/2023	ND	1.97	98.6	2.00	2.34	
Ethylbenzene*	<0.050	0.050	10/15/2023	ND	2.01	101	2.00	1.52	
Total Xylenes*	<0.150	0.150	10/15/2023	ND	6.03	101	6.00	1.74	
Total BTX	<0.300	0.300	10/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/16/2023	ND	448	112	400	3.51	

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	10/13/2023	ND	190	94.9	200	1.08	
DRO >C10-C28*	<10.0	10.0	10/13/2023	ND	175	87.4	200	3.14	
EXT DRO >C28-C36	<10.0	10.0	10/13/2023	ND					

Surrogate: 1-Chlorooctane 68.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 57.3 % 49.1-148

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**Analytical Results For:**

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

Received: 10/12/2023  
 Reported: 10/18/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/12/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL # 86 @ 2FT (H235594-10)**

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	10/15/2023	ND	1.95	97.6	2.00	1.43	
Toluene*	<0.050	0.050	10/15/2023	ND	1.97	98.6	2.00	2.34	
Ethylbenzene*	<0.050	0.050	10/15/2023	ND	2.01	101	2.00	1.52	
Total Xylenes*	<0.150	0.150	10/15/2023	ND	6.03	101	6.00	1.74	
Total BTEx	<0.300	0.300	10/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	10/16/2023	ND	448	112	400	3.51		

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	10/13/2023	ND	190	94.9	200	1.08	
DRO >C10-C28*	<10.0	10.0	10/13/2023	ND	175	87.4	200	3.14	
EXT DRO >C28-C36	<10.0	10.0	10/13/2023	ND					

Surrogate: 1-Chlorooctane 60.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 52.3 % 49.1-148

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**Analytical Results For:**

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

Received: 10/12/2023  
 Reported: 10/18/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/12/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL # 87 @ 4FT (H235594-11)**

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	10/15/2023	ND	1.95	97.6	2.00	1.43	
Toluene*	<0.050	0.050	10/15/2023	ND	1.97	98.6	2.00	2.34	
Ethylbenzene*	<0.050	0.050	10/15/2023	ND	2.01	101	2.00	1.52	
Total Xylenes*	<0.150	0.150	10/15/2023	ND	6.03	101	6.00	1.74	
Total BTX	<0.300	0.300	10/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2240	16.0	10/16/2023	ND	448	112	400	3.51		

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	10/13/2023	ND	188	94.1	200	1.31	
DRO >C10-C28*	<10.0	10.0	10/13/2023	ND	199	99.7	200	3.65	
EXT DRO >C28-C36	<10.0	10.0	10/13/2023	ND					

Surrogate: 1-Chlorooctane 74.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.9 % 49.1-148

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**Analytical Results For:**

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

Received: 10/12/2023  
 Reported: 10/18/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/12/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL # 88 @ 4FT (H235594-12)**

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	10/15/2023	ND	1.95	97.6	2.00	1.43	
Toluene*	<0.050	0.050	10/15/2023	ND	1.97	98.6	2.00	2.34	
Ethylbenzene*	<0.050	0.050	10/15/2023	ND	2.01	101	2.00	1.52	
Total Xylenes*	<0.150	0.150	10/15/2023	ND	6.03	101	6.00	1.74	
Total BTX	<0.300	0.300	10/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1330	16.0	10/16/2023	ND	448	112	400	3.51	

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	10/13/2023	ND	188	94.1	200	1.31	
DRO >C10-C28*	<10.0	10.0	10/13/2023	ND	199	99.7	200	3.65	
EXT DRO >C28-C36	<10.0	10.0	10/13/2023	ND					

Surrogate: 1-Chlorooctane 98.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



---

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---

### Notes and Definitions

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

---

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\*=Accredited Analyte

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

---

Celey D. Keene, Lab Director/Quality Manager



**CARDINAL LABORATORIES**

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

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

Company Name: Etech Environmental & Safety Solutions, Inc.  
Project Manager: Zack Corder

Address: P.O. Box 301

City: Lovington

Phone #: (575) 396-2378

State: NM Zip: 88260

Project #: 18274

Fax #: (575) 396-1429

Project Name: Tin Horn 73 main line

Project Owner: SP Energy Partners

Project Location: Rural Eddy

Sampler Name: Aaron Rios

**BILL TO**

P.O. #:

Company: SP

Attn: Kathy Purvis

Address:

City:

State: Zip:

Phone #:

Fax #:

**ANALYSIS REQUEST**

Chloride  
TPH (8015M)  
BTEX (8021B)

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

H235594

		(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.	SAMPLING		DATE	TIME
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER		ICE / COOL	OTHER		
1	FL # 77. @ 2 ft	X				X					X		10/12/23	
2	FL # 78. @ 2 ft													
3	FL # 79. @ 2 ft													
4	FL # 80. @ 2 ft													
5	FL # 81. @ 2 ft													
6	FL # 82. @ 2 ft													
7	FL # 83. @ 2 ft													
8	FL # 84. @ 2 ft													
9	FL # 85. @ 2 ft													
10	FL # 86. @ 2 ft													

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Relinquished By:

Aaron Rios

Date: 10-12-23

Time: 1642

Received By:

Senora S. S. S.

Received By:

Relinquished By:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

#140  
4.0°C

Sample Condition  
Cool Intact  
☒ Yes ☐ No  
☐ Yes ☐ No

CHECKED BY:  
(Initials)  
[Signature]

Phone Result:

☐ Yes ☐ No

Fax Result:

☐ Yes ☐ No

Add'l Phone #:

Add'l Fax #:

REMARKS:

Please email results to [prn@etechenv.com](mailto:prn@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

<b>Company Name:</b> Spur Energy Partners, LLC <b>Project Manager:</b> Zach Conder <b>Address:</b> 2617 W Marland Blvd <b>City:</b> Hobbs <b>State:</b> NM <b>Zip:</b> 88240 <b>Phone #:</b> 575-396-2378 <b>Fax #:</b> 575-396-1429 <b>Project #:</b> 18274 <b>Project Owner:</b> Spur Energy Partners, LLC <b>Project Name:</b> Tin Horn 73 Main Line <b>Project Location:</b> Rural Eddy <b>Sampler Name:</b> Aaron Ricks				<b>BILL TO</b> <b>P.O. #:</b> <b>Company:</b> Spur <b>Attn:</b> Kathy Purvis <b>Address:</b> <b>City:</b> <b>State:</b> NM <b>Zip:</b> <b>Phone #:</b> <b>Fax #:</b>				<b>ANALYSIS REQUEST</b>													
FOR LAB USE ONLY				<b>MATRIX</b> GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:				<b>PRESERV.</b> ACID/BASE: ICE / COOL OTHER:		<b>SAMPLING</b> DATE TIME		Chloride TPH BTEX 8021									
Lab I.D.	Sample I.D.	(GRAB OR (C)OMP.)	# CONTAINERS																		
H235594	11 FL # 87. @ 49	X																			
	12 FL # 88. @ 4A	X																			

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<b>Relinquished By:</b> Aaron Ricks <b>Relinquished By:</b> Date: 10-12-23 Time: 1642	<b>Received By:</b> [Signature] <b>Received By:</b> Date: Time:	<b>Phone Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>Fax Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>REMARKS:</b> Email results to <a href="mailto:pm@etechenv.com">pm@etechenv.com</a>
---	---	---

<b>Delivered By: (Circle One)</b> Sampler - UPS - Bus - Other: 4.0C	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No	<b>CHECKED BY:</b> (Initials) [Signature]
--	---	---

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476  
FORM-006 R 2.0



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

---

October 24, 2023

ZACH CONDER

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: TIN HORN 73 MAIN LINE

Enclosed are the results of analyses for samples received by the laboratory on 10/18/23 15:11.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style 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  
 ZACH CONDER  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/18/2023  
 Reported: 10/24/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/17/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: FL # 89. @ 1 FT (H235704-01)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/19/2023	ND	1.99	99.6	2.00	3.39		
Toluene*	<0.050	0.050	10/19/2023	ND	1.98	99.0	2.00	1.90		
Ethylbenzene*	<0.050	0.050	10/19/2023	ND	2.10	105	2.00	3.85		
Total Xylenes*	<0.150	0.150	10/19/2023	ND	6.30	105	6.00	3.54		
Total BTEX	<0.300	0.300	10/19/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	10/19/2023	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	10/19/2023	ND	175	87.5	200	1.76	
DRO >C10-C28*	<10.0	10.0	10/19/2023	ND	171	85.3	200	2.50	
EXT DRO >C28-C36	<10.0	10.0	10/19/2023	ND					

Surrogate: 1-Chlorooctane 96.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.7 % 49.1-148

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/18/2023  
 Reported: 10/24/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/17/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: FL # 90. @ 1 FT (H235704-02)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/19/2023	ND	1.99	99.6	2.00	3.39		
Toluene*	<0.050	0.050	10/19/2023	ND	1.98	99.0	2.00	1.90		
Ethylbenzene*	<0.050	0.050	10/19/2023	ND	2.10	105	2.00	3.85		
Total Xylenes*	<0.150	0.150	10/19/2023	ND	6.30	105	6.00	3.54		
Total BTEX	<0.300	0.300	10/19/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	10/19/2023	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	10/19/2023	ND	175	87.5	200	1.76	
DRO >C10-C28*	<10.0	10.0	10/19/2023	ND	171	85.3	200	2.50	
EXT DRO >C28-C36	<10.0	10.0	10/19/2023	ND					

Surrogate: 1-Chlorooctane 92.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/18/2023  
 Reported: 10/24/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/17/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: FL # 91. @ 1 FT (H235704-03)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/19/2023	ND	1.99	99.6	2.00	3.39		
Toluene*	<0.050	0.050	10/19/2023	ND	1.98	99.0	2.00	1.90		
Ethylbenzene*	<0.050	0.050	10/19/2023	ND	2.10	105	2.00	3.85		
Total Xylenes*	<0.150	0.150	10/19/2023	ND	6.30	105	6.00	3.54		
Total BTEX	<0.300	0.300	10/19/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	10/19/2023	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	10/19/2023	ND	175	87.5	200	1.76	
DRO >C10-C28*	<10.0	10.0	10/19/2023	ND	171	85.3	200	2.50	
EXT DRO >C28-C36	<10.0	10.0	10/19/2023	ND					

Surrogate: 1-Chlorooctane 95.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/18/2023  
 Reported: 10/24/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/17/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: FL # 92. @ 1 FT (H235704-04)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/19/2023	ND	1.99	99.6	2.00	3.39		
Toluene*	<0.050	0.050	10/19/2023	ND	1.98	99.0	2.00	1.90		
Ethylbenzene*	<0.050	0.050	10/19/2023	ND	2.10	105	2.00	3.85		
Total Xylenes*	<0.150	0.150	10/19/2023	ND	6.30	105	6.00	3.54		
Total BTEx	<0.300	0.300	10/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	10/19/2023	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	10/19/2023	ND	175	87.5	200	1.76	
DRO >C10-C28*	<10.0	10.0	10/19/2023	ND	171	85.3	200	2.50	
EXT DRO >C28-C36	<10.0	10.0	10/19/2023	ND					

Surrogate: 1-Chlorooctane 84.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.4 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/18/2023  
 Reported: 10/24/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/17/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: FL # 93. @ 1 FT (H235704-05)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/19/2023	ND	1.99	99.6	2.00	3.39		
Toluene*	<0.050	0.050	10/19/2023	ND	1.98	99.0	2.00	1.90		
Ethylbenzene*	<0.050	0.050	10/19/2023	ND	2.10	105	2.00	3.85		
Total Xylenes*	<0.150	0.150	10/19/2023	ND	6.30	105	6.00	3.54		
Total BTEX	<0.300	0.300	10/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/19/2023	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	10/19/2023	ND	175	87.5	200	1.76	
DRO >C10-C28*	<10.0	10.0	10/19/2023	ND	171	85.3	200	2.50	
EXT DRO >C28-C36	<10.0	10.0	10/19/2023	ND					

Surrogate: 1-Chlorooctane 90.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.8 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 10/18/2023  
 Reported: 10/24/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/17/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: FL # 94. @ 1 FT (H235704-06)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/19/2023	ND	1.99	99.6	2.00	3.39		
Toluene*	<0.050	0.050	10/19/2023	ND	1.98	99.0	2.00	1.90		
Ethylbenzene*	<0.050	0.050	10/19/2023	ND	2.10	105	2.00	3.85		
Total Xylenes*	<0.150	0.150	10/19/2023	ND	6.30	105	6.00	3.54		
Total BTEX	<0.300	0.300	10/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/19/2023	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	10/19/2023	ND	175	87.5	200	1.76	
DRO >C10-C28*	<10.0	10.0	10/19/2023	ND	171	85.3	200	2.50	
EXT DRO >C28-C36	<10.0	10.0	10/19/2023	ND					

Surrogate: 1-Chlorooctane 85.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.9 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/18/2023  
 Reported: 10/24/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/17/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: FL # 95. @ 1 FT (H235704-07)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/19/2023	ND	1.99	99.6	2.00	3.39	
Toluene*	<0.050	0.050	10/19/2023	ND	1.98	99.0	2.00	1.90	
Ethylbenzene*	<0.050	0.050	10/19/2023	ND	2.10	105	2.00	3.85	
Total Xylenes*	<0.150	0.150	10/19/2023	ND	6.30	105	6.00	3.54	
Total BTEX	<0.300	0.300	10/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/19/2023	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	10/19/2023	ND	175	87.5	200	1.76	
DRO >C10-C28*	<10.0	10.0	10/19/2023	ND	171	85.3	200	2.50	
EXT DRO >C28-C36	<10.0	10.0	10/19/2023	ND					

Surrogate: 1-Chlorooctane 90.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/18/2023  
 Reported: 10/24/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/17/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: FL # 96. @ 1 FT (H235704-08)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/19/2023	ND	1.99	99.6	2.00	3.39		
Toluene*	<0.050	0.050	10/19/2023	ND	1.98	99.0	2.00	1.90		
Ethylbenzene*	<0.050	0.050	10/19/2023	ND	2.10	105	2.00	3.85		
Total Xylenes*	<0.150	0.150	10/19/2023	ND	6.30	105	6.00	3.54		
Total BTEx	<0.300	0.300	10/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/19/2023	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	10/19/2023	ND	175	87.5	200	1.76	
DRO >C10-C28*	<10.0	10.0	10/19/2023	ND	171	85.3	200	2.50	
EXT DRO >C28-C36	<10.0	10.0	10/19/2023	ND					

Surrogate: 1-Chlorooctane 91.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/18/2023  
 Reported: 10/24/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/17/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: FL # 97. @ 1 FT (H235704-09)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/19/2023	ND	1.99	99.6	2.00	3.39	
Toluene*	<0.050	0.050	10/19/2023	ND	1.98	99.0	2.00	1.90	
Ethylbenzene*	<0.050	0.050	10/19/2023	ND	2.10	105	2.00	3.85	
Total Xylenes*	<0.150	0.150	10/19/2023	ND	6.30	105	6.00	3.54	
Total BTEx	<0.300	0.300	10/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/19/2023	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	10/19/2023	ND	175	87.5	200	1.76	
DRO >C10-C28*	<10.0	10.0	10/19/2023	ND	171	85.3	200	2.50	
EXT DRO >C28-C36	<10.0	10.0	10/19/2023	ND					

Surrogate: 1-Chlorooctane 93.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/18/2023  
 Reported: 10/24/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/17/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: FL # 98. @ 1 FT (H235704-10)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/19/2023	ND	1.99	99.6	2.00	3.39	
Toluene*	<0.050	0.050	10/19/2023	ND	1.98	99.0	2.00	1.90	
Ethylbenzene*	<0.050	0.050	10/19/2023	ND	2.10	105	2.00	3.85	
Total Xylenes*	<0.150	0.150	10/19/2023	ND	6.30	105	6.00	3.54	
Total BTEX	<0.300	0.300	10/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/19/2023	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	10/19/2023	ND	175	87.5	200	1.76	
DRO >C10-C28*	<10.0	10.0	10/19/2023	ND	171	85.3	200	2.50	
EXT DRO >C28-C36	<10.0	10.0	10/19/2023	ND					

Surrogate: 1-Chlorooctane 92.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 10/18/2023  
 Reported: 10/24/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/17/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: FL # 99. @ 2 FT (H235704-11)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/19/2023	ND	1.99	99.6	2.00	3.39		
Toluene*	<0.050	0.050	10/19/2023	ND	1.98	99.0	2.00	1.90		
Ethylbenzene*	<0.050	0.050	10/19/2023	ND	2.10	105	2.00	3.85		
Total Xylenes*	<0.150	0.150	10/19/2023	ND	6.30	105	6.00	3.54		
Total BTEX	<0.300	0.300	10/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	10/19/2023	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	10/19/2023	ND	175	87.5	200	1.76	
DRO >C10-C28*	<10.0	10.0	10/19/2023	ND	171	85.3	200	2.50	
EXT DRO >C28-C36	<10.0	10.0	10/19/2023	ND					

Surrogate: 1-Chlorooctane 90.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/18/2023  
 Reported: 10/24/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/17/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: FL # 100. @ 2 FT (H235704-12)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/19/2023	ND	1.99	99.6	2.00	3.39		
Toluene*	<0.050	0.050	10/19/2023	ND	1.98	99.0	2.00	1.90		
Ethylbenzene*	<0.050	0.050	10/19/2023	ND	2.10	105	2.00	3.85		
Total Xylenes*	<0.150	0.150	10/19/2023	ND	6.30	105	6.00	3.54		
Total BTEX	<0.300	0.300	10/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	10/19/2023	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	10/19/2023	ND	175	87.5	200	1.76	
DRO >C10-C28*	<10.0	10.0	10/19/2023	ND	171	85.3	200	2.50	
EXT DRO >C28-C36	<10.0	10.0	10/19/2023	ND					

Surrogate: 1-Chlorooctane 83.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 10/18/2023  
 Reported: 10/24/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/17/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: NW 14. (H235704-13)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/19/2023	ND	1.99	99.6	2.00	3.39		
Toluene*	<0.050	0.050	10/19/2023	ND	1.98	99.0	2.00	1.90		
Ethylbenzene*	<0.050	0.050	10/19/2023	ND	2.10	105	2.00	3.85		
Total Xylenes*	<0.150	0.150	10/19/2023	ND	6.30	105	6.00	3.54		
Total BTEx	<0.300	0.300	10/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/19/2023	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	10/19/2023	ND	175	87.5	200	1.76	
DRO >C10-C28*	<10.0	10.0	10/19/2023	ND	171	85.3	200	2.50	
EXT DRO >C28-C36	<10.0	10.0	10/19/2023	ND					

Surrogate: 1-Chlorooctane 84.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.7 % 49.1-148

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

**Analytical Results For:**

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

Received: 10/18/2023  
 Reported: 10/24/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/17/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: NW 15. (H235704-14)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/19/2023	ND	1.99	99.6	2.00	3.39	
Toluene*	<0.050	0.050	10/19/2023	ND	1.98	99.0	2.00	1.90	
Ethylbenzene*	<0.050	0.050	10/19/2023	ND	2.10	105	2.00	3.85	
Total Xylenes*	<0.150	0.150	10/19/2023	ND	6.30	105	6.00	3.54	
Total BTEx	<0.300	0.300	10/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	10/19/2023	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	10/19/2023	ND	175	87.5	200	1.76	
DRO >C10-C28*	<10.0	10.0	10/19/2023	ND	171	85.3	200	2.50	
EXT DRO >C28-C36	<10.0	10.0	10/19/2023	ND					

Surrogate: 1-Chlorooctane 84.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.9 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/18/2023  
 Reported: 10/24/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/17/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: SW 15. (H235704-15)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/19/2023	ND	1.99	99.6	2.00	3.39		
Toluene*	<0.050	0.050	10/19/2023	ND	1.98	99.0	2.00	1.90		
Ethylbenzene*	<0.050	0.050	10/19/2023	ND	2.10	105	2.00	3.85		
Total Xylenes*	<0.150	0.150	10/19/2023	ND	6.30	105	6.00	3.54		
Total BTEx	<0.300	0.300	10/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	10/19/2023	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	10/19/2023	ND	175	87.5	200	1.76	
DRO >C10-C28*	<10.0	10.0	10/19/2023	ND	171	85.3	200	2.50	
EXT DRO >C28-C36	<10.0	10.0	10/19/2023	ND					

Surrogate: 1-Chlorooctane 79.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.1 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





---

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---

### Notes and Definitions

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

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

---

Celey D. Keene, Lab Director/Quality Manager



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

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental				<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>													
Project Manager: Zach Conder				P.O. #:															
Address: 2617 W Marland Blvd				Company: Spur															
City: Hobbs		State: NM		Zip: 88240															
Phone #: 575-396-2378		Fax #: 575-396-1429		Attn: Kathy Purvis															
Project #: 18274		Project Owner: Spur Energy Partners, LLC		Address:															
Project Name: Tin Horn 73 Main Line		City:		State: NM															
Project Location: Rural Eddy		Zip:		Phone #:															
Sampler Name: Aaron Rios		Fax #:																	
FOR LAB USE ONLY																			
Lab I.D.		Sample I.D.		(G/RAB OR (C)OMP.		# CONTAINERS		MATRIX		PRESERV.		SAMPLING							
								GROUNDWATER											
								WASTEWATER											
								SOIL											
								OIL											
								SLUDGE											
								OTHER:											
								ACID/BASE:											
								ICE / COOL											
								OTHER:											
										DATE		TIME							
														Chloride		TPH		BTEX 8021	
1		FL # 89. @ 1F+		X				X		10/17/23				X		X		X	
2		FL # 90. @ 1F+																	
3		FL # 91. @ 1F+																	
4		FL # 92. @ 1F+																	
5		FL # 93. @ 1F+																	
6		FL # 94. @ 1F+																	
7		FL # 95. @ 1F+																	
8		FL # 96. @ 1F+																	
9		FL # 97. @ 1F+																	
10		FL # 98. @ 1F+																	

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Relinquished By:		Date: 10-18-23	Received By:		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
		Time: 15:11			Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:	
Relinquished By:		Date:	Received By:		REMARKS: Email results to <a href="mailto:pm@etechenv.com">pm@etechenv.com</a>			
Time:								
Delivered By: (Circle One)		-7.5°C		Sample Condition		CHECKED BY: (Initials)		
Sampler - UPS - Bus - Other:		#140		Cool Intact				
				<input type="checkbox"/> Yes <input type="checkbox"/> No				
				<input type="checkbox"/> No <input type="checkbox"/> No				

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476  
FORM-006 R 2.0






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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 19 of 19

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Relinquished By: 		Date: 10-18-23		Received By: 		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
Relinquished By:		Time: 15:11		Received By:		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:	
Aron RIES		Date:		Time:		REMARKS: Email results to <a href="mailto:pm@etechenv.com">pm@etechenv.com</a>			
Delivered By: (Circle One)		Time:		Sample Condition					
Sampler - UPS - Bus - Other:		-7.5		#140		Cool <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
						CHECKED BY: (Initials)			

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FORM-006 R 2.0



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

---

October 25, 2023

ZACH CONDER

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: TIN HORN 73 MAIN LINE

Enclosed are the results of analyses for samples received by the laboratory on 10/19/23 16:45.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style 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  
 ZACH CONDER  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	10/19/2023	Sampling Date:	10/18/2023
Reported:	10/25/2023	Sampling Type:	Soil
Project Name:	TIN HORN 73 MAIN LINE	Sampling Condition:	Cool & Intact
Project Number:	18274	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - RURAL EDDY CO., NM		

**Sample ID: FL #101 @ 3FT (H235744-01)**

BTX 8021B		mg/kg		Analyzed By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	2.15	107	2.00	0.974	
Toluene*	<0.050	0.050	10/23/2023	ND	2.16	108	2.00	5.19	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	2.22	111	2.00	3.28	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	6.41	107	6.00	4.45	
Total BTX	<0.300	0.300	10/23/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	10/23/2023	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	10/23/2023	ND	220	110	200	1.73	
DRO >C10-C28*	<10.0	10.0	10/23/2023	ND	209	104	200	3.87	
EXT DRO >C28-C36	<10.0	10.0	10/23/2023	ND					

Surrogate: 1-Chlorooctane 96.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 10/19/2023  
 Reported: 10/25/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/18/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL #102 @ 3FT (H235744-02)**

BTX 8021B		mg/kg		Analyzed By: AW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/23/2023	ND	2.15	107	2.00	0.974		
Toluene*	<0.050	0.050	10/23/2023	ND	2.16	108	2.00	5.19		
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	2.22	111	2.00	3.28		
Total Xylenes*	<0.150	0.150	10/23/2023	ND	6.41	107	6.00	4.45		
Total BTX	<0.300	0.300	10/23/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	10/23/2023	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	10/23/2023	ND	220	110	200	1.73	
DRO >C10-C28*	<10.0	10.0	10/23/2023	ND	209	104	200	3.87	
EXT DRO >C28-C36	<10.0	10.0	10/23/2023	ND					

Surrogate: 1-Chlorooctane 92.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 10/19/2023  
 Reported: 10/25/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/18/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL #103 @ 3FT (H235744-03)**

BTEx 8021B		mg/kg		Analyzed By: AW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/23/2023	ND	2.15	107	2.00	0.974		
Toluene*	<0.050	0.050	10/23/2023	ND	2.16	108	2.00	5.19		
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	2.22	111	2.00	3.28		
Total Xylenes*	<0.150	0.150	10/23/2023	ND	6.41	107	6.00	4.45		
Total BTEX	<0.300	0.300	10/23/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	10/23/2023	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	10/23/2023	ND	220	110	200	1.73	
DRO >C10-C28*	<10.0	10.0	10/23/2023	ND	209	104	200	3.87	
EXT DRO >C28-C36	<10.0	10.0	10/23/2023	ND					

Surrogate: 1-Chlorooctane 96.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.8 % 49.1-148

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/19/2023  
 Reported: 10/25/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/18/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL #104 @ 3FT (H235744-04)**

BTEx 8021B		mg/kg		Analyzed By: AW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/23/2023	ND	2.15	107	2.00	0.974		
Toluene*	<0.050	0.050	10/23/2023	ND	2.16	108	2.00	5.19		
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	2.22	111	2.00	3.28		
Total Xylenes*	<0.150	0.150	10/23/2023	ND	6.41	107	6.00	4.45		
Total BTEX	<0.300	0.300	10/23/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/23/2023	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	10/23/2023	ND	220	110	200	1.73	
DRO >C10-C28*	<10.0	10.0	10/23/2023	ND	209	104	200	3.87	
EXT DRO >C28-C36	<10.0	10.0	10/23/2023	ND					

Surrogate: 1-Chlorooctane 97.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.6 % 49.1-148

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/19/2023  
 Reported: 10/25/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/18/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL #105 @ 2FT (H235744-05)**

BTX 8021B		mg/kg		Analyzed By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2023	ND	2.15	107	2.00	0.974	
Toluene*	<0.050	0.050	10/23/2023	ND	2.16	108	2.00	5.19	
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	2.22	111	2.00	3.28	
Total Xylenes*	<0.150	0.150	10/23/2023	ND	6.41	107	6.00	4.45	
Total BTX	<0.300	0.300	10/23/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	10/23/2023	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	10/23/2023	ND	220	110	200	1.73	
DRO >C10-C28*	<10.0	10.0	10/23/2023	ND	209	104	200	3.87	
EXT DRO >C28-C36	<10.0	10.0	10/23/2023	ND					

Surrogate: 1-Chlorooctane 97.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.0 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/19/2023  
 Reported: 10/25/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/18/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL #106 @ 2FT (H235744-06)**

BTX 8021B		mg/kg		Analyzed By: AW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/23/2023	ND	2.15	107	2.00	0.974		
Toluene*	<0.050	0.050	10/23/2023	ND	2.16	108	2.00	5.19		
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	2.22	111	2.00	3.28		
Total Xylenes*	<0.150	0.150	10/23/2023	ND	6.41	107	6.00	4.45		
Total BTX	<0.300	0.300	10/23/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	10/23/2023	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	10/23/2023	ND	220	110	200	1.73	
DRO >C10-C28*	<10.0	10.0	10/23/2023	ND	209	104	200	3.87	
EXT DRO >C28-C36	<10.0	10.0	10/23/2023	ND					

Surrogate: 1-Chlorooctane 92.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 10/19/2023  
 Reported: 10/25/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/18/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL #107 @ 2FT (H235744-07)**

BTEx 8021B		mg/kg		Analyzed By: AW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/23/2023	ND	2.15	107	2.00	0.974		
Toluene*	<0.050	0.050	10/23/2023	ND	2.16	108	2.00	5.19		
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	2.22	111	2.00	3.28		
Total Xylenes*	<0.150	0.150	10/23/2023	ND	6.41	107	6.00	4.45		
Total BTEX	<0.300	0.300	10/23/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/23/2023	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	10/23/2023	ND	220	110	200	1.73	
DRO >C10-C28*	<10.0	10.0	10/23/2023	ND	209	104	200	3.87	
EXT DRO >C28-C36	<10.0	10.0	10/23/2023	ND					

Surrogate: 1-Chlorooctane 95.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.4 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/19/2023  
 Reported: 10/25/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/18/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL #108 @ 2FT (H235744-08)**

BTX 8021B		mg/kg		Analyzed By: AW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/23/2023	ND	2.15	107	2.00	0.974		
Toluene*	<0.050	0.050	10/23/2023	ND	2.16	108	2.00	5.19		
Ethylbenzene*	<0.050	0.050	10/23/2023	ND	2.22	111	2.00	3.28		
Total Xylenes*	<0.150	0.150	10/23/2023	ND	6.41	107	6.00	4.45		
Total BTX	<0.300	0.300	10/23/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 127 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/23/2023	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	10/23/2023	ND	220	110	200	1.73	
DRO >C10-C28*	<10.0	10.0	10/23/2023	ND	209	104	200	3.87	
EXT DRO >C28-C36	<10.0	10.0	10/23/2023	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/19/2023  
 Reported: 10/25/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/18/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL #109 @ 2FT (H235744-09)**

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	10/21/2023	ND	2.18	109	2.00	1.20	
Toluene*	<0.050	0.050	10/21/2023	ND	2.25	112	2.00	1.03	
Ethylbenzene*	<0.050	0.050	10/21/2023	ND	2.25	112	2.00	0.273	
Total Xylenes*	<0.150	0.150	10/21/2023	ND	6.64	111	6.00	0.0904	
Total BTEx	<0.300	0.300	10/21/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	10/23/2023	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	10/23/2023	ND	220	110	200	1.73	
DRO >C10-C28*	<10.0	10.0	10/23/2023	ND	209	104	200	3.87	
EXT DRO >C28-C36	<10.0	10.0	10/23/2023	ND					

Surrogate: 1-Chlorooctane 97.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.2 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/19/2023  
 Reported: 10/25/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/18/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL #110 @ 2FT (H235744-10)**

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	10/21/2023	ND	2.18	109	2.00	1.20	
Toluene*	<0.050	0.050	10/21/2023	ND	2.25	112	2.00	1.03	
Ethylbenzene*	<0.050	0.050	10/21/2023	ND	2.25	112	2.00	0.273	
Total Xylenes*	<0.150	0.150	10/21/2023	ND	6.64	111	6.00	0.0904	
Total BTX	<0.300	0.300	10/21/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	10/23/2023	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	10/23/2023	ND	220	110	200	1.73	
DRO >C10-C28*	<10.0	10.0	10/23/2023	ND	209	104	200	3.87	
EXT DRO >C28-C36	<10.0	10.0	10/23/2023	ND					

Surrogate: 1-Chlorooctane 84.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.5 % 49.1-148

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

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

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A handwritten signature in black ink, appearing to read "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

<b>(575) 393-2326 FAX (575) 393-2476</b>				<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>																								
<b>Company Name:</b> Etech Environmental				<b>P.O. #:</b>																										
<b>Project Manager:</b> Zach Conder				<b>Company:</b> Spur																										
<b>Address:</b> 2617 W Marland Blvd				<b>Attn:</b> Kathy Purvis																										
<b>City:</b> Hobbs		<b>State:</b> NM		<b>Zip:</b> 88240																										
<b>Phone #:</b> 575-396-2378		<b>Fax #:</b> 575-396-1429		<b>Address:</b>																										
<b>Project #:</b> 18274		<b>Project Owner:</b> Spur Energy Partners, LLC		<b>City:</b>																										
<b>Project Name:</b> Tin Horn 73 Main Line				<b>State:</b> NM		<b>Zip:</b>																								
<b>Project Location:</b> Rural Eddy				<b>Phone #:</b>																										
<b>Sampler Name:</b> Aaron Rios				<b>Fax #:</b>																										
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING																						
Lab I.D.		Sample I.D.		(GRAB OR C/COMP.)	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	Chloride	TPH	BTEX 8021											
H235744				y				x					x			10/18/23		x	x	x										
1		FL #101. @ 3 Ft		y				x					x			10/18/23		x	x	x										
2		FL #102. @ 3 Ft		y												10/18/23														
3		FL #103. @ 3 Ft		y												10/18/23														
4		FL #104. @ 3 Ft		y												10/18/23														
5		FL #105. @ 2 Ft		y												10/18/23														
6		FL #106. @ 2 Ft		y												10/18/23														
7		FL #107. @ 2 Ft		y												10/18/23														
8		FL #108. @ 2 Ft		y												10/18/23														
9		FL #109. @ 2 Ft		y												10/18/23														
10		FL #110. @ 2 Ft		y												10/18/23														

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<b>Relinquished By:</b> Date: 10-19-23 Time: 1645		<b>Received By:</b> 		<b>Phone Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>Fax Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No		<b>Add'l Phone #:</b> <b>Add'l Fax #:</b>	
<b>Relinquished By:</b> Date: Time:		<b>Received By:</b> Date: Time:		<b>REMARKS:</b> Email results to <a href="mailto:pm@etechenv.com">pm@etechenv.com</a>			
<b>Delivered By: (Circle One)</b> Sampler - UPS - Bus - Other:		<b>Sample Condition</b> Cool Intact 					

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476  
FORM-006 R 2.0



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

October 26, 2023

ZACH CONDER

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: TIN HORN 73 MAIN LINE

Enclosed are the results of analyses for samples received by the laboratory on 10/20/23 16:12.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style 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  
 ZACH CONDER  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 10/20/2023  
 Reported: 10/26/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/19/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL # 111. @ 4 FT (H235772-01)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2023	ND	2.01	101	2.00	1.91	
Toluene*	<0.050	0.050	10/25/2023	ND	2.15	108	2.00	1.90	
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.10	105	2.00	2.38	
Total Xylenes*	<0.150	0.150	10/25/2023	ND	6.37	106	6.00	1.40	
Total BTEX	<0.300	0.300	10/25/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/24/2023	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	10/24/2023	ND	189	94.6	200	12.1	
DRO >C10-C28*	<10.0	10.0	10/24/2023	ND	167	83.3	200	15.0	
EXT DRO >C28-C36	<10.0	10.0	10/24/2023	ND					

Surrogate: 1-Chlorooctane 91.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.5 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/20/2023  
 Reported: 10/26/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/19/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL # 112. @ 3 FT (H235772-02)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/25/2023	ND	2.01	101	2.00	1.91		
Toluene*	<0.050	0.050	10/25/2023	ND	2.15	108	2.00	1.90		
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.10	105	2.00	2.38		
Total Xylenes*	<0.150	0.150	10/25/2023	ND	6.37	106	6.00	1.40		
Total BTEx	<0.300	0.300	10/25/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	10/24/2023	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	10/23/2023	ND	189	94.6	200	12.1	
DRO >C10-C28*	<10.0	10.0	10/23/2023	ND	167	83.3	200	15.0	
EXT DRO >C28-C36	<10.0	10.0	10/23/2023	ND					

Surrogate: 1-Chlorooctane 87.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/20/2023  
 Reported: 10/26/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/19/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL # 113. @ 2 FT (H235772-03)**

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/25/2023	ND	2.01	101	2.00	1.91		
Toluene*	<0.050	0.050	10/25/2023	ND	2.15	108	2.00	1.90		
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.10	105	2.00	2.38		
Total Xylenes*	<0.150	0.150	10/25/2023	ND	6.37	106	6.00	1.40		
Total BTEX	<0.300	0.300	10/25/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/24/2023	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	10/23/2023	ND	189	94.6	200	12.1	
DRO >C10-C28*	<10.0	10.0	10/23/2023	ND	167	83.3	200	15.0	
EXT DRO >C28-C36	<10.0	10.0	10/23/2023	ND					

Surrogate: 1-Chlorooctane 81.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 10/20/2023  
 Reported: 10/26/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/19/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL # 114. @ 2 FT (H235772-04)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/25/2023	ND	2.01	101	2.00	1.91		
Toluene*	<0.050	0.050	10/25/2023	ND	2.15	108	2.00	1.90		
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.10	105	2.00	2.38		
Total Xylenes*	<0.150	0.150	10/25/2023	ND	6.37	106	6.00	1.40		
Total BTEX	<0.300	0.300	10/25/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	10/24/2023	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	10/23/2023	ND	189	94.6	200	12.1	
DRO >C10-C28*	<10.0	10.0	10/23/2023	ND	167	83.3	200	15.0	
EXT DRO >C28-C36	<10.0	10.0	10/23/2023	ND					

Surrogate: 1-Chlorooctane 68.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 64.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/20/2023  
 Reported: 10/26/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/19/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL # 115. @ 2 FT (H235772-05)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/25/2023	ND	2.01	101	2.00	1.91		
Toluene*	<0.050	0.050	10/25/2023	ND	2.15	108	2.00	1.90		
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.10	105	2.00	2.38		
Total Xylenes*	<0.150	0.150	10/25/2023	ND	6.37	106	6.00	1.40		
Total BTEX	<0.300	0.300	10/25/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/24/2023	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	10/23/2023	ND	189	94.6	200	12.1	
DRO >C10-C28*	<10.0	10.0	10/23/2023	ND	167	83.3	200	15.0	
EXT DRO >C28-C36	<10.0	10.0	10/23/2023	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 10/20/2023  
 Reported: 10/26/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/19/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL # 116. @ 2 FT (H235772-06)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/25/2023	ND	2.01	101	2.00	1.91		
Toluene*	<0.050	0.050	10/25/2023	ND	2.15	108	2.00	1.90		
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.10	105	2.00	2.38		
Total Xylenes*	<0.150	0.150	10/25/2023	ND	6.37	106	6.00	1.40		
Total BTEx	<0.300	0.300	10/25/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	10/24/2023	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	10/23/2023	ND	189	94.6	200	12.1	
DRO >C10-C28*	<10.0	10.0	10/23/2023	ND	167	83.3	200	15.0	
EXT DRO >C28-C36	<10.0	10.0	10/23/2023	ND					

Surrogate: 1-Chlorooctane 80.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.4 % 49.1-148

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**Analytical Results For:**

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

Received: 10/20/2023  
 Reported: 10/26/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/19/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL # 117. @ 2 FT (H235772-07)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/25/2023	ND	2.01	101	2.00	1.91		
Toluene*	<0.050	0.050	10/25/2023	ND	2.15	108	2.00	1.90		
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.10	105	2.00	2.38		
Total Xylenes*	<0.150	0.150	10/25/2023	ND	6.37	106	6.00	1.40		
Total BTEx	<0.300	0.300	10/25/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/24/2023	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	10/23/2023	ND	189	94.6	200	12.1	
DRO >C10-C28*	<10.0	10.0	10/23/2023	ND	167	83.3	200	15.0	
EXT DRO >C28-C36	<10.0	10.0	10/23/2023	ND					

Surrogate: 1-Chlorooctane 75.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 10/20/2023  
 Reported: 10/26/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/19/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL # 118. @ 2 FT (H235772-08)**

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2023	ND	2.01	101	2.00	1.91	
Toluene*	<0.050	0.050	10/25/2023	ND	2.15	108	2.00	1.90	
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.10	105	2.00	2.38	
Total Xylenes*	<0.150	0.150	10/25/2023	ND	6.37	106	6.00	1.40	
Total BTEX	<0.300	0.300	10/25/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	10/24/2023	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	10/24/2023	ND	173	86.6	200	4.76	
DRO >C10-C28*	<10.0	10.0	10/24/2023	ND	164	81.9	200	10.2	
EXT DRO >C28-C36	<10.0	10.0	10/24/2023	ND					

Surrogate: 1-Chlorooctane 66.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 63.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 10/20/2023  
 Reported: 10/26/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/19/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL # 119. @ 2 FT (H235772-09)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/25/2023	ND	2.01	101	2.00	1.91		
Toluene*	<0.050	0.050	10/25/2023	ND	2.15	108	2.00	1.90		
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.10	105	2.00	2.38		
Total Xylenes*	<0.150	0.150	10/25/2023	ND	6.37	106	6.00	1.40		
Total BTEx	<0.300	0.300	10/25/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	10/24/2023	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	10/24/2023	ND	173	86.6	200	4.76	
DRO >C10-C28*	<10.0	10.0	10/24/2023	ND	164	81.9	200	10.2	
EXT DRO >C28-C36	<10.0	10.0	10/24/2023	ND					

Surrogate: 1-Chlorooctane 68.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 62.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/20/2023  
 Reported: 10/26/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/19/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: WW 9. (H235772-10)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/25/2023	ND	2.01	101	2.00	1.91		
Toluene*	<0.050	0.050	10/25/2023	ND	2.15	108	2.00	1.90		
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.10	105	2.00	2.38		
Total Xylenes*	<0.150	0.150	10/25/2023	ND	6.37	106	6.00	1.40		
Total BTEx	<0.300	0.300	10/25/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	10/24/2023	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	10/24/2023	ND	173	86.6	200	4.76	
DRO >C10-C28*	<10.0	10.0	10/24/2023	ND	164	81.9	200	10.2	
EXT DRO >C28-C36	<10.0	10.0	10/24/2023	ND					

Surrogate: 1-Chlorooctane 70.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 61.3 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/20/2023  
 Reported: 10/26/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/19/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: NW 16. (H235772-11)**

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2023	ND	2.01	101	2.00	1.91	
Toluene*	<0.050	0.050	10/25/2023	ND	2.15	108	2.00	1.90	
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.10	105	2.00	2.38	
Total Xylenes*	<0.150	0.150	10/25/2023	ND	6.37	106	6.00	1.40	
Total BTEx	<0.300	0.300	10/25/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	10/24/2023	ND	400	100	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	10/24/2023	ND	173	86.6	200	4.76	
DRO >C10-C28*	<10.0	10.0	10/24/2023	ND	164	81.9	200	10.2	
EXT DRO >C28-C36	<10.0	10.0	10/24/2023	ND					

Surrogate: 1-Chlorooctane 72.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 64.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/20/2023  
 Reported: 10/26/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/19/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW 16. (H235772-12)**

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2023	ND	2.01	101	2.00	1.91	
Toluene*	<0.050	0.050	10/25/2023	ND	2.15	108	2.00	1.90	
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.10	105	2.00	2.38	
Total Xylenes*	<0.150	0.150	10/25/2023	ND	6.37	106	6.00	1.40	
Total BTEx	<0.300	0.300	10/25/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	10/24/2023	ND	400	100	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	10/24/2023	ND	173	86.6	200	4.76	
DRO >C10-C28*	<10.0	10.0	10/24/2023	ND	164	81.9	200	10.2	
EXT DRO >C28-C36	<10.0	10.0	10/24/2023	ND					

Surrogate: 1-Chlorooctane 74.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/20/2023  
 Reported: 10/26/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/19/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW 17. (H235772-13)**

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2023	ND	2.01	101	2.00	1.91	
Toluene*	<0.050	0.050	10/25/2023	ND	2.15	108	2.00	1.90	
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.10	105	2.00	2.38	
Total Xylenes*	<0.150	0.150	10/25/2023	ND	6.37	106	6.00	1.40	
Total BTEx	<0.300	0.300	10/25/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/24/2023	ND	400	100	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	10/24/2023	ND	173	86.6	200	4.76	
DRO >C10-C28*	<10.0	10.0	10/24/2023	ND	164	81.9	200	10.2	
EXT DRO >C28-C36	<10.0	10.0	10/24/2023	ND					

Surrogate: 1-Chlorooctane 79.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 10/20/2023  
 Reported: 10/26/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/20/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL # 120. @ 2 FT (H235772-14)**

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2023	ND	2.01	101	2.00	1.91	
Toluene*	<0.050	0.050	10/25/2023	ND	2.15	108	2.00	1.90	
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.10	105	2.00	2.38	
Total Xylenes*	<0.150	0.150	10/25/2023	ND	6.37	106	6.00	1.40	
Total BTEx	<0.300	0.300	10/25/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	10/24/2023	ND	400	100	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	10/24/2023	ND	173	86.6	200	4.76	
DRO >C10-C28*	<10.0	10.0	10/24/2023	ND	164	81.9	200	10.2	
EXT DRO >C28-C36	<10.0	10.0	10/24/2023	ND					

Surrogate: 1-Chlorooctane 72.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 10/20/2023  
 Reported: 10/26/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/20/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL # 121. @ 2 FT (H235772-15)**

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2023	ND	2.01	101	2.00	1.91	
Toluene*	<0.050	0.050	10/25/2023	ND	2.15	108	2.00	1.90	
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.10	105	2.00	2.38	
Total Xylenes*	<0.150	0.150	10/25/2023	ND	6.37	106	6.00	1.40	
Total BTEX	<0.300	0.300	10/25/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	10/24/2023	ND	400	100	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	10/24/2023	ND	173	86.6	200	4.76	
DRO >C10-C28*	<10.0	10.0	10/24/2023	ND	164	81.9	200	10.2	
EXT DRO >C28-C36	<10.0	10.0	10/24/2023	ND					

Surrogate: 1-Chlorooctane 79.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/20/2023  
 Reported: 10/26/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/20/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL # 122. @ 2 FT (H235772-16)**

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/25/2023	ND	2.01	100	2.00	2.33		
Toluene*	<0.050	0.050	10/25/2023	ND	2.18	109	2.00	3.54		
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.15	108	2.00	4.17		
Total Xylenes*	<0.150	0.150	10/25/2023	ND	6.49	108	6.00	4.04		
Total BTEX	<0.300	0.300	10/25/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	10/24/2023	ND	400	100	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	10/24/2023	ND	173	86.6	200	4.76	
DRO >C10-C28*	<10.0	10.0	10/24/2023	ND	164	81.9	200	10.2	
EXT DRO >C28-C36	<10.0	10.0	10/24/2023	ND					

Surrogate: 1-Chlorooctane 74.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.6 % 49.1-148

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

**Analytical Results For:**

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

Received: 10/20/2023  
 Reported: 10/26/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/20/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL # 123. @ 2 FT (H235772-17)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/25/2023	ND	2.01	100	2.00	2.33		
Toluene*	<0.050	0.050	10/25/2023	ND	2.18	109	2.00	3.54		
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.15	108	2.00	4.17		
Total Xylenes*	<0.150	0.150	10/25/2023	ND	6.49	108	6.00	4.04		
Total BTEx	<0.300	0.300	10/25/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	10/24/2023	ND	400	100	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	10/24/2023	ND	225	112	200	0.883	
DRO >C10-C28*	<10.0	10.0	10/24/2023	ND	210	105	200	1.44	
EXT DRO >C28-C36	<10.0	10.0	10/24/2023	ND					

Surrogate: 1-Chlorooctane 90.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/20/2023  
 Reported: 10/26/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/20/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL # 124. @ 2 FT (H235772-18)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/25/2023	ND	2.01	100	2.00	2.33		
Toluene*	<0.050	0.050	10/25/2023	ND	2.18	109	2.00	3.54		
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.15	108	2.00	4.17		
Total Xylenes*	<0.150	0.150	10/25/2023	ND	6.49	108	6.00	4.04		
Total BTEx	<0.300	0.300	10/25/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	10/24/2023	ND	400	100	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	10/24/2023	ND	225	112	200	0.883	
DRO >C10-C28*	<10.0	10.0	10/24/2023	ND	210	105	200	1.44	
EXT DRO >C28-C36	<10.0	10.0	10/24/2023	ND					

Surrogate: 1-Chlorooctane 83.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.8 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 10/20/2023  
 Reported: 10/26/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/20/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL # 125. @ 2 FT (H235772-19)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/25/2023	ND	2.01	100	2.00	2.33		
Toluene*	<0.050	0.050	10/25/2023	ND	2.18	109	2.00	3.54		
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.15	108	2.00	4.17		
Total Xylenes*	<0.150	0.150	10/25/2023	ND	6.49	108	6.00	4.04		
Total BTEx	<0.300	0.300	10/25/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	10/24/2023	ND	400	100	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	10/24/2023	ND	225	112	200	0.883	
DRO >C10-C28*	<10.0	10.0	10/24/2023	ND	210	105	200	1.44	
EXT DRO >C28-C36	<10.0	10.0	10/24/2023	ND					

Surrogate: 1-Chlorooctane 85.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.5 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/20/2023  
 Reported: 10/26/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/20/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL # 126. @ 2 FT (H235772-20)**

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2023	ND	2.01	100	2.00	2.33	
Toluene*	<0.050	0.050	10/25/2023	ND	2.18	109	2.00	3.54	
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.15	108	2.00	4.17	
Total Xylenes*	<0.150	0.150	10/25/2023	ND	6.49	108	6.00	4.04	
Total BTEx	<0.300	0.300	10/25/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	10/24/2023	ND	400	100	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	10/24/2023	ND	225	112	200	0.883	
DRO >C10-C28*	<10.0	10.0	10/24/2023	ND	210	105	200	1.44	
EXT DRO >C28-C36	<10.0	10.0	10/24/2023	ND					

Surrogate: 1-Chlorooctane 86.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.5 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/20/2023  
 Reported: 10/26/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/20/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: EW 11. (H235772-21)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/25/2023	ND	2.01	100	2.00	2.33		
Toluene*	<0.050	0.050	10/25/2023	ND	2.18	109	2.00	3.54		
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.15	108	2.00	4.17		
Total Xylenes*	<0.150	0.150	10/25/2023	ND	6.49	108	6.00	4.04		
Total BTEx	<0.300	0.300	10/25/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/24/2023	ND	400	100	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	10/24/2023	ND	225	112	200	0.883	
DRO >C10-C28*	<10.0	10.0	10/24/2023	ND	210	105	200	1.44	
EXT DRO >C28-C36	<10.0	10.0	10/24/2023	ND					

Surrogate: 1-Chlorooctane 89.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.0 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

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### Notes and Definitions

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

---

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

---

Celey D. Keene, Lab Director/Quality Manager



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Etech Environmental				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>															
Project Manager: Zach Conder				P.O. #:																			
Address: 2617 W Marland Blvd				Company: Spur																			
City: Hobbs		State: NM		Zip: 88240		Attn: Kathy Purvis																	
Phone #: 575-396-2378		Fax #: 575-396-1429		Address:																			
Project #: 18274		Project Owner: Spur Energy Partners, LLC		City:																			
Project Name: Tin Horn 73 Main Line				State: NM		Zip:																	
Project Location: Rural Eddy				Phone #:																			
Sampler Name: Aaron Pios				Fax #:																			
FOR LAB USE ONLY																							
Lab I.D.		Sample I.D.		(GRAB OR (C)OMP. # CONTAINERS)	MATRIX				PRESERV.	SAMPLING		Chloride	TPH	BTEX 8021									
H235712					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:										ICE / COOL	OTHER:	DATE
1	FL # 111. @ 4 Ft			X		X					X		10/19/23		X	X	X						
2	FL # 112. @ 3 Ft																						
3	FL # 113. @ 2 Ft																						
4	FL # 114. @ 2 Ft																						
5	FL # 115. @ 2 Ft																						
6	FL # 116. @ 2 Ft																						
7	FL # 117. @ 2 Ft																						
8	FL # 118. @ 2 Ft																						
9	FL # 119. @ 2 Ft																						
10	WW 9.																						

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Relinquished By:		Date:	Received By:		Phone Result:	<input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
		Time:			Fax Result:	<input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:		Date:	Received By:		REMARKS: Email results to <a href="mailto:pm@etechenv.com">pm@etechenv.com</a>		
Aaron Pios		10-20-23	Tamara Aldredge				
Delivered By: (Circle One)		Time:					
Sampler - UPS - Bus - Other:		1612					
		-8.3°C	#140				
			Sample Condition		CHECKED BY:		
			Cool Intact		(Initials)		
			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		JO		
			<input type="checkbox"/> Yes <input type="checkbox"/> No				

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476  
FORM-006 R 2.0



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# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Etech Environmental		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>																	
Project Manager: Zach Conder		P.O. #:																			
Address: 2617 W Marland Blvd		Company: Spur																			
City: Hobbs	State: NM Zip: 88240	Attn: Kathy Purvis																			
Phone #: 575-396-2378	Fax #: 575-396-1429	Address:																			
Project #: 18274	Project Owner: Spur Energy Partners, LLC	City:																			
Project Name: Tin Horn 73 Main Line		State: NM Zip:																			
Project Location: Rural Eddy		Phone #:																			
Sampler Name: Aaron Rios		Fax #:																			
FOR LAB USE ONLY																					
Lab I.D.	Sample I.D.	(G/RAB OR (C)OMP.	# CONTAINERS	MATRIX			PRESERV.	SAMPLING													
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	Chloride	TPH	BTEX 8021				
H235772																					
14	FL # 120. @ 2 Ft	X				X					X		10/20/23		X	X	X				
15	FL # 121. @ 2 Ft																				
16	FL # 122. @ 2 Ft																				
17	FL # 123. @ 2 Ft																				
18	FL # 124. @ 2 Ft																				
19	FL # 125. @ 2 Ft																				
20	FL # 126. @ 2 Ft																				
21	EW 11.	X				X					X		10/20/23		X	X	X				

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

Relinquished By:	Date: 10-20-23	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Aaron Rios	Time: 1612	[Signature]	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS: Email results to <a href="mailto:pm@etechenv.com">pm@etechenv.com</a>	
	Time:			
Delivered By: (Circle One)	#140	Sample Condition	CHECKED BY: (Initials)	
Sampler - UPS - Bus - Other:	- 8.3c	Cool Intact	[Signature]	
		<input type="checkbox"/> Yes <input type="checkbox"/> No		

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476  
FORM-006 R 2.0



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

---

October 30, 2023

ZACH CONDER

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: TIN HORN 73 MAIN LINE

Enclosed are the results of analyses for samples received by the laboratory on 10/23/23 16:23.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](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  
 ZACH CONDER  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	10/23/2023	Sampling Date:	10/23/2023
Reported:	10/30/2023	Sampling Type:	Soil
Project Name:	TIN HORN 73 MAIN LINE	Sampling Condition:	Cool & Intact
Project Number:	18274	Sample Received By:	Dionica Hinojos
Project Location:	SPUR - RURAL EDDY CO., NM		

**Sample ID: FL # 127. @ 2 FT (H235801-01)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/27/2023	ND	1.92	96.0	2.00	1.43	
Toluene*	<0.050	0.050	10/27/2023	ND	2.00	100	2.00	2.22	
Ethylbenzene*	<0.050	0.050	10/27/2023	ND	2.02	101	2.00	2.79	
Total Xylenes*	<0.150	0.150	10/27/2023	ND	6.05	101	6.00	2.77	
Total BTEX	<0.300	0.300	10/27/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/26/2023	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/26/2023	ND	196	98.0	200	0.310	
DRO >C10-C28*	<10.0	10.0	10/26/2023	ND	215	107	200	0.878	
EXT DRO >C28-C36	<10.0	10.0	10/26/2023	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 10/23/2023  
 Reported: 10/30/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/23/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: FL # 128. @ 2 FT (H235801-02)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/27/2023	ND	1.92	96.0	2.00	1.43		
Toluene*	<0.050	0.050	10/27/2023	ND	2.00	100	2.00	2.22		
Ethylbenzene*	<0.050	0.050	10/27/2023	ND	2.02	101	2.00	2.79		
Total Xylenes*	<0.150	0.150	10/27/2023	ND	6.05	101	6.00	2.77		
Total BTEx	<0.300	0.300	10/27/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	10/26/2023	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/26/2023	ND	196	98.0	200	0.310	
DRO >C10-C28*	<10.0	10.0	10/26/2023	ND	215	107	200	0.878	
EXT DRO >C28-C36	<10.0	10.0	10/26/2023	ND					

Surrogate: 1-Chlorooctane 94.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 10/23/2023  
 Reported: 10/30/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/23/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: FL # 129. @ 2 FT (H235801-03)**

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/27/2023	ND	1.92	96.0	2.00	1.43	
Toluene*	<0.050	0.050	10/27/2023	ND	2.00	100	2.00	2.22	
Ethylbenzene*	<0.050	0.050	10/27/2023	ND	2.02	101	2.00	2.79	
Total Xylenes*	<0.150	0.150	10/27/2023	ND	6.05	101	6.00	2.77	
Total BTEX	<0.300	0.300	10/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	10/26/2023	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/26/2023	ND	196	98.0	200	0.310	
DRO >C10-C28*	<10.0	10.0	10/26/2023	ND	215	107	200	0.878	
EXT DRO >C28-C36	<10.0	10.0	10/26/2023	ND					

Surrogate: 1-Chlorooctane 91.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/23/2023  
 Reported: 10/30/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/23/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: FL # 130. @ 2 FT (H235801-04)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/27/2023	ND	1.92	96.0	2.00	1.43		
Toluene*	<0.050	0.050	10/27/2023	ND	2.00	100	2.00	2.22		
Ethylbenzene*	<0.050	0.050	10/27/2023	ND	2.02	101	2.00	2.79		
Total Xylenes*	<0.150	0.150	10/27/2023	ND	6.05	101	6.00	2.77		
Total BTEX	<0.300	0.300	10/27/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/27/2023	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	10/26/2023	ND	196	98.0	200	0.310	
DRO >C10-C28*	<10.0	10.0	10/26/2023	ND	215	107	200	0.878	
EXT DRO >C28-C36	<10.0	10.0	10/26/2023	ND					

Surrogate: 1-Chlorooctane 88.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 10/23/2023  
 Reported: 10/30/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/23/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: FL # 131. @ 2 FT (H235801-05)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/27/2023	ND	1.92	96.0	2.00	1.43		
Toluene*	<0.050	0.050	10/27/2023	ND	2.00	100	2.00	2.22		
Ethylbenzene*	<0.050	0.050	10/27/2023	ND	2.02	101	2.00	2.79		
Total Xylenes*	<0.150	0.150	10/27/2023	ND	6.05	101	6.00	2.77		
Total BTEx	<0.300	0.300	10/27/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	10/27/2023	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	10/26/2023	ND	196	98.0	200	0.310	
DRO >C10-C28*	<10.0	10.0	10/26/2023	ND	215	107	200	0.878	
EXT DRO >C28-C36	<10.0	10.0	10/26/2023	ND					

Surrogate: 1-Chlorooctane 92.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 10/23/2023  
 Reported: 10/30/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/23/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: FL # 132. @ 2 FT (H235801-06)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/27/2023	ND	1.92	96.0	2.00	1.43		
Toluene*	<0.050	0.050	10/27/2023	ND	2.00	100	2.00	2.22		
Ethylbenzene*	<0.050	0.050	10/27/2023	ND	2.02	101	2.00	2.79		
Total Xylenes*	<0.150	0.150	10/27/2023	ND	6.05	101	6.00	2.77		
Total BTEX	<0.300	0.300	10/27/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	10/27/2023	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	10/26/2023	ND	196	98.0	200	0.310	
DRO >C10-C28*	<10.0	10.0	10/26/2023	ND	215	107	200	0.878	
EXT DRO >C28-C36	<10.0	10.0	10/26/2023	ND					

Surrogate: 1-Chlorooctane 92.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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**Analytical Results For:**

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

Received: 10/23/2023  
 Reported: 10/30/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/23/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: FL # 133. @ 2 FT (H235801-07)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/27/2023	ND	1.92	96.0	2.00	1.43		
Toluene*	<0.050	0.050	10/27/2023	ND	2.00	100	2.00	2.22		
Ethylbenzene*	<0.050	0.050	10/27/2023	ND	2.02	101	2.00	2.79		
Total Xylenes*	<0.150	0.150	10/27/2023	ND	6.05	101	6.00	2.77		
Total BTEx	<0.300	0.300	10/27/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	10/27/2023	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	10/26/2023	ND	196	98.0	200	0.310	
DRO >C10-C28*	<10.0	10.0	10/26/2023	ND	215	107	200	0.878	
EXT DRO >C28-C36	<10.0	10.0	10/26/2023	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

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**Analytical Results For:**

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

Received: 10/23/2023  
 Reported: 10/30/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/23/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: FL # 134. @ 2 FT (H235801-08)**

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/27/2023	ND	1.92	96.0	2.00	1.43	
Toluene*	<0.050	0.050	10/27/2023	ND	2.00	100	2.00	2.22	
Ethylbenzene*	<0.050	0.050	10/27/2023	ND	2.02	101	2.00	2.79	
Total Xylenes*	<0.150	0.150	10/27/2023	ND	6.05	101	6.00	2.77	
Total BTEX	<0.300	0.300	10/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	10/27/2023	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	10/26/2023	ND	196	98.0	200	0.310	
DRO >C10-C28*	<10.0	10.0	10/26/2023	ND	215	107	200	0.878	
EXT DRO >C28-C36	<10.0	10.0	10/26/2023	ND					

Surrogate: 1-Chlorooctane 90.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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**Analytical Results For:**

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

Received: 10/23/2023  
 Reported: 10/30/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/23/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: FL # 135. @ 2 FT (H235801-09)**

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/27/2023	ND	1.92	96.0	2.00	1.43	
Toluene*	<0.050	0.050	10/27/2023	ND	2.00	100	2.00	2.22	
Ethylbenzene*	<0.050	0.050	10/27/2023	ND	2.02	101	2.00	2.79	
Total Xylenes*	<0.150	0.150	10/27/2023	ND	6.05	101	6.00	2.77	
Total BTEx	<0.300	0.300	10/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	10/27/2023	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	10/26/2023	ND	196	98.0	200	0.310	
DRO >C10-C28*	<10.0	10.0	10/26/2023	ND	215	107	200	0.878	
EXT DRO >C28-C36	<10.0	10.0	10/26/2023	ND					

Surrogate: 1-Chlorooctane 95.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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**Analytical Results For:**

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

Received: 10/23/2023  
 Reported: 10/30/2023  
 Project Name: TIN HORN 73 MAIN LINE  
 Project Number: 18274  
 Project Location: SPUR - RURAL EDDY CO., NM

Sampling Date: 10/23/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: WW (H235801-10)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/27/2023	ND	1.92	96.0	2.00	1.43		
Toluene*	<0.050	0.050	10/27/2023	ND	2.00	100	2.00	2.22		
Ethylbenzene*	<0.050	0.050	10/27/2023	ND	2.02	101	2.00	2.79		
Total Xylenes*	<0.150	0.150	10/27/2023	ND	6.05	101	6.00	2.77		
Total BTEx	<0.300	0.300	10/27/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/27/2023	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	10/26/2023	ND	196	98.0	200	0.310	
DRO >C10-C28*	<10.0	10.0	10/26/2023	ND	215	107	200	0.878	
EXT DRO >C28-C36	<10.0	10.0	10/26/2023	ND					

Surrogate: 1-Chlorooctane 88.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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---

### Notes and Definitions

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

---

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A handwritten signature in black ink, appearing to read "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]

**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: 10-23-23	Received By:		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
		Time: 16:23			Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:		Date:	Received By:		REMARKS: Email results to <a href="mailto:pm@etechenv.com">pm@etechenv.com</a>	
		Time:				
Delivered By: (Circle One)		3.4°C	Sample Condition		CHECKED BY: (Initials)	
Sampler - UPS - Bus - Other:		#140	Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>		JA	

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476  
FORM-006 R 2.0



## **Appendix E**

### **Regulatory Correspondence**

**Matthew A. Grieco**

---

**From:** Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>  
**Sent:** Tuesday, October 3, 2023 9:37 AM  
**To:** Tamarah Kendrick; blm\_nm\_cfo\_spill@blm.gov; Hamlet, Robert, EMNRD  
**Cc:** Zach Conder; Bratcher, Michael, EMNRD  
**Subject:** RE: [EXTERNAL] nAPP2315150992 - Tin Horn 73 Main Line - Sampling Notification

Good morning Tamarah,

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thank you,

Shelly

**Shelly Wells** \* Environmental Specialist-Advanced  
Environmental Bureau  
EMNRD-Oil Conservation Division  
1220 S. St. Francis Drive | Santa Fe, NM 87505  
(505)469-7520 | [Shelly.Wells@emnrd.nm.gov](mailto:Shelly.Wells@emnrd.nm.gov)  
<http://www.emnrd.state.nm.us/OCD/>

---

**From:** Tamarah Kendrick <tamarah@etechenv.com>  
**Sent:** Tuesday, October 3, 2023 8:30 AM  
**To:** Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; blm\_nm\_cfo\_spill@blm.gov  
**Cc:** Zach Conder <zach@etechenv.com>  
**Subject:** [EXTERNAL] nAPP2315150992 - Tin Horn 73 Main Line - Sampling Notification

**CAUTION:** This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

This email serves as notice Etech intends to conduct confirmation soil sampling for the following reportable release site beginning 10/06/2023.

nAPP2315150992 - Tin Horn 73 Main Line

If you have any questions or need any additional information, please feel free to contact Zach Conder by phone or email.

Zach Conder  
Etech Environmental  
Phone: 432-234-5943  
[zach@etechenv.com](mailto:zach@etechenv.com)

*Tamarah Kendrick*  
**Project Coordinator**

**ETech - Environmental and Safety Solutions**

**2617 W. Marland Blvd**

**Hobbs, NM 88240**



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

QUESTIONS

Action 292180

**QUESTIONS**

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID:	328947
	Action Number:	292180
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nAPP2315150992
Incident Name	NAPP2315150992 TIN HORN 73 MAIN LINE @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received

**Location of Release Source**

Please answer all the questions in this group.

Site Name	TIN HORN 73 MAIN LINE
Date Release Discovered	05/30/2023
Surface Owner	State

**Incident Details**

Please answer all the questions in this group.

Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

**Nature and Volume of Release**

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.

Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: High Line Pressure   Pipeline (Any)   Produced Water   Released: 35 BBL   Recovered: 25 BBL   Lost: 10 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	HIGH PRESSURE CAUSED A POLY TEE TO FAIL AND RELEASE PRODUCED WATER ONTO PAD AND IN PASTURE

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QUESTIONS, Page 2

Action 292180

**QUESTIONS (continued)**

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID:	328947
	Action Number:	292180
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

**Initial Response**

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

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	N/A

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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

I hereby agree and sign off to the above statement	Name: Katherine Purvis Title: EHS Coordinator Email: katherine.purvis@spurenergy.com Date: 12/07/2023
--	--



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QUESTIONS, Page 3

Action 292180

**QUESTIONS (continued)**

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID:	328947
	Action Number:	292180
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS****Site Characterization**

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

**Remediation Plan**

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

**Soil Contamination Sampling:** (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride (EPA 300.0 or SM4500 Cl B)	11600
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	0
GRO+DRO (EPA SW-846 Method 8015M)	0
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

On what estimated date will the remediation commence	10/31/2023
On what date will (or did) the final sampling or liner inspection occur	10/23/2023
On what date will (or was) the remediation complete(d)	10/31/2023
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	36000
What is the estimated volume (in cubic yards) that will be remediated	3844

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 4

Action 292180

**QUESTIONS (continued)**

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID:	328947
	Action Number:	292180
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS****Remediation Plan (continued)**

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

**This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:**

(Select all answers below that apply.)

(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for <b>off-site</b> disposal	LEA LAND LANDFILL [fEEM0112342028]
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

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

I hereby agree and sign off to the above statement	Name: Katherine Purvis Title: EHS Coordinator Email: katherine.purvis@spurenergy.com Date: 12/07/2023
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The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 5  
  
Action 292180

QUESTIONS (continued)

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 292180
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

<b>Deferral Requests Only</b>	
<i>Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.</i>	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 292180

**QUESTIONS (continued)**

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID:
	328947
	Action Number:
	292180
Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

**QUESTIONS**

Sampling Event Information	
Last sampling notification (C-141N) recorded	292237
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/02/2023
What was the (estimated) number of samples that were to be gathered	150
What was the sampling surface area in square feet	16000

**Remediation Closure Request**

*Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.*

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	16000
What was the total volume (cubic yards) remediated	3844
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	0
What was the total volume (in cubic yards) reclaimed	0
Summarize any additional remediation activities not included by answers (above)	N/A

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

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

I hereby agree and sign off to the above statement	Name: Katherine Purvis Title: EHS Coordinator Email: katherine.purvis@spurenergy.com Date: 12/07/2023
--	--

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QUESTIONS, Page 7  
  
Action 292180

QUESTIONS (continued)

Operator:  Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID:  328947
	Action Number:  292180
	Action Type:  [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No



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CONDITIONS

Action 292180

**CONDITIONS**

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID:
	328947
	Action Number:
	292180
Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

**CONDITIONS**

Created By	Condition	Condition Date
rhamlet	We have received your Remediation Closure Report for Incident #NAPP2315150992 TIN HORN 73 MAIN LINE, thank you. This Remediation Closure Report is approved. The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical.	3/19/2024
rhamlet	Pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan. A revegetation report will not be accepted until the release area, including areas reasonably needed for production or drilling activities, are complete. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable. All revegetation activities will need to be documented and included in the revegetation report. The revegetation report will need to include: An executive summary of the revegetation activities including Seed mix, Method of seeding, dates of when the release area was reseeded, information pertinent to inspections, information about any amendments added to the soil.	3/19/2024
rhamlet	Information on how the vegetative cover established meets the life-form ratio of plus or minus fifty percent of pre-disturbance levels and a total percent plant cover of at least seventy percent of pre-disturbance levels, excluding noxious weeds per 19.15.29.13 D.(3) NMAC, and any additional information; a scaled Site Map including area that was revegetated in square feet; and pictures of the revegetated areas during reseeding activities, inspections, and final pictures when revegetation is achieved. OR Per 19.15.29.13 E. NMAC, if a reclamation and revegetation report has been submitted to the surface owner, it may be used if the requirements of the surface owner provide equal or better protection of freshwater, human health, and the environment. A copy of the approval of the reclamation and revegetation report from the surface owner and a copy of the approved reclamation and revegetation report will need to be submitted to the OCD via the Permitting website.	3/19/2024