

Incident ID	nAPP2200753107
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: Connor Walker Title: Sr. Engineer

Signature:  Date: 09/02/2022

email: cwalker@mewbourne.com Telephone: (806)202-5281

### OCD Only

Received by: Jocelyn Harimon Date: 02/07/2023

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

Closure Approved by: Robert Hamlet Date: 6/9/2023

Printed Name: Robert Hamlet Title: Environmental Specialist - Advanced

Incident ID	nAPP2125960064
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>25</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

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

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

State of New Mexico  
Oil Conservation Division

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Printed Name: Connor Walker Title: Sr. EngineerSignature:  Date: 09/02/2022email: cwalker@mewbourne.com Telephone: (806)202-5281**OCD Only**

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

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

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



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email: cwalker@mewbourne.com Telephone: (806)202-5281

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

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

## Remediation Summary & Soil Closure Request

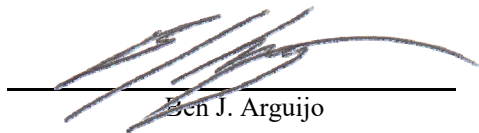
### **Mewbourne Oil Company Chicago 9/8 W0HE Fee Com #1H Battery**

Eddy County, New Mexico  
Unit Letter "H", Section 9, Township 24 South, Range 28 East  
Latitude 32.233647 North, Longitude 104.0862090 West  
New Mexico Oil Conservation Division (NMOCD) Reference #'s:  
nAPP2125960064 & nAPP2200753107

Prepared By:

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

2507 79th Street, Unit A  
Lubbock, Texas 79423



Ben J. Arguijo



Lance Crenshaw



Midland • San Antonio • Lubbock • Hobbs • Lafayette

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- Appendix A - Depth to Groundwater Information
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## 1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Mewbourne Oil Company (Mewbourne), has prepared this *Remediation Summary & Soil Closure Request* for the release site known as the Chicago 9/8 W0HE Fee Com #1H Battery. A produced water release on December 24, 2021 (NMOCD Incident #nAPP2200753107), affected areas that had been previously impacted by a produced water release that occurred on September 7, 2021 (NMOCD Incident #nAPP2125960064), which was undergoing delineation and remediation at the time. The releases were limited to the tank battery containment area and production pad and did not impact the adjacent pasture.

The information provided in the "Release Notification" (Form C-141) for each release is summarized below. The areas affected by the commingled releases (henceforth referred to collectively as "Chicago 9/8 Battery") were delineated and remediated concurrently.

Release #1				
Location of Release Source				
Latitude: 32.233647		Longitude: -104.086209		
Provided GPS are in WGS84 format.				
Site Name: Chicago 9/8 W0HE Fee Com #1H Battery		Site Type: Production Battery		
Date Release Discovered: 9/7/2021		API # (if applicable): 30-015-44260		
Unit Letter	Section	Township	Range	County
"H"	9	24S	28E	Eddy
Surface Owner: <input type="checkbox"/> State <input type="checkbox"/> Federal <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Private (Name <u>Dick Calderon</u> )				
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) 80		Volume Recovered (bbls) 60	
Is the concentration of total dissolved solids (TDS) in the produced water > 10,000 mg/L?			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
<input type="checkbox"/> Condensate	Volume Released (bbls)		Volume Recovered (bbls)	
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)		Volume Recovered (Mcf)	
<input type="checkbox"/> Other (describe)	Volume/Weight Released		Volume/Weight Recovered	
Cause of Release: A heater treater in the tank battery developed a hole at the bottom.				
Initial Response				
<input checked="" type="checkbox"/> The source of the release has been stopped.				
<input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment.				
<input checked="" type="checkbox"/> Release materials have been contained via the use of berms or dikes, absorbent pad, or other containment devices				
<input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.				

## Release #2

### Location of Release Source

Latitude: 32.233647 Longitude: -104.086209

Provided GPS are in format.

Site Name: Chicago 9/8 W0HE Fee Com #1H Battery	Site Type: Production Battery
Date Release Discovered: 12/24/2021	API # (if applicable): 30-015-44260

Unit Letter	Section	Township	Range	County
"H"	9	24S	28E	Eddy

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (Name Dick Calderon )

### 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) 1,135	Volume Recovered (bbls) 875
	Is the concentration of total dissolved solids (TDS) in the produced water > 10,000 mg/L?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released	Volume/Weight Recovered
Cause of Release: A welded connection on a poly line separated.		

### Initial Response

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

Previously submitted portions of the Form C-141 for each release are available in the NMOCD Imaging System.

## 2.0 SITE CHARACTERIZATION

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



## Site Assessment/Characterization

	25'	
What is the shallowest depth to groundwater beneath the area affected by the release?		
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
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Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production or storage site?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

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

### 3.0 CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE

Based on the volume and nature of the releases, inferred depth to groundwater, and NMOCD Siting Criteria, the NMOCD Closure Criteria and NMOCD Reclamation Standards for the Chicago 9/8 Battery release site are as follows:

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

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

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

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

## 4.0 REGULATORY APPROVALS & STIPULATIONS

On December 10, 2021, an extension request was submitted to the NMOCD in regard to the September 7, 2021, release asking for additional time to conduct a proper site assessment, fully delineate the release, and devise an appropriate remediation strategy to advance the site to an NMOCD-approved closure. The extension request was subsequently approved by the NMOCD, with no added stipulations.

On April 6, 2022, an extension request was submitted to the NMOCD asking for additional time to fully delineate and/or excavate the commingled releases and allow time for upcoming fracking activities in the region to be completed. The extension request was subsequently denied by the NMOCD, with no added stipulations, aside from inclusion of the communicate with the remediation and/or closure report.

Copies of all regulatory correspondence are provided in Appendix E.

## 5.0 SITE ASSESSMENT

On January 24, 2022, Etech conducted a site visit to assess the Chicago 9/8 Battery release site. During the site assessment, four (4) hand-augered soil bores (SP1 through SP4) were advanced within the inferred margins of the affected area in an effort to determine the vertical extent of impacted soil. In addition, eight (8) hand-augered soil bores (NH 1, NH 2, EH 1, EH 2, SH 1, SH 2, WH 1, and WH 2) were advanced at the inferred edges of the affected area in an effort to determine the horizontal extent of impacted soil. During the advancement of the hand-augered soil bores, soil samples were collected and field-screened for the presence of Volatile Organic Compounds (VOCs) utilizing olfactory/visual senses and/or concentrations of chloride utilizing a Hach Quantab® chloride test kit.

Based on field observations and field test data, a total of 24 delineation soil samples (NH 1 @ Surface, NH 1 @ 1', NH 2 @ Surface, NH 2 @ 1', EH 1 @ Surface, EH 1 @ 1', EH 2 @ Surface, EH 2 @ 1', SH 1 @ Surface, SH 1 @ 1', SH 2 @ Surface, SH 2 @ 1', WH 1 @ Surface, WH 1 @ 1', WH 2 @ Surface, WH 2 @ 1', SP1 @ Surface, SP1 @ 1', SP2 @ Surface, SP2 @ 1', SP3 @ Surface, SP3 @ 2', SP4 @ Surface, and SP4 @ 3') were submitted to a certified, commercial laboratory (henceforth, "the laboratory") for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX and TPH concentrations were below both the applicable NMOCD Closure Criteria and laboratory method detection limit (MDL) in each of the submitted soil samples, with the exceptions of soil samples SH 2 @ Surface, SP1 @ Surface, and SP3 @ Surface, which exhibited TPH concentrations ranging from 11.3 mg/kg (SH 2 @ Surface) to 102 mg/kg (SP1 @ Surface). Chloride concentrations ranged from 16.0 mg/kg in soil samples WH 2 @ Surface and WH 2 @ 1' to 11,800 mg/kg in soil samples SP1 @ Surface and SP2 @ Surface. Based on laboratory analytical results, the horizontal and vertical extent of impacted soil was adequately defined, and the depth of impacted soil ranged from approximately one (1) foot below ground surface (bgs) in the areas characterized by sample points SP1 and SP2 to three (3) feet bgs in the area characterized by sample point SP4.

The locations of the hand-augered soil bores are depicted in Figure 3, "Site & Sample Location Map".

## 6.0 REMEDIATION ACTIVITIES SUMMARY

On April 20, 2022, remediation activities commenced at the release site following the cessation of fracking activities in the immediate area and the complete deconstruction and removal of the Chicago 9/8 tank battery and associated containment areas, pumps, pipes, appurtenances, electrical facilities, and other miscellaneous equipment. In accordance with NMOCD regulatory guidelines, impacted soil affected above the NMOCD Closure Criteria and 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 BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards. Representative five-point composite confirmation soil samples were collected every 50 linear feet from the excavation sidewalls and every 200 square feet from the floor of the excavated area to be submitted for laboratory analysis.

On April 26, 2022, Etech collected 14 confirmation soil samples (EW1, SW1, WW1, FL 1 @ 11' through FL 9 @ 11', FL 11 @ 12, and FL 12 @ 12) from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX and TPH were below the applicable NMOCD Closure Criteria, NMOCD Reclamation Standards, and laboratory MDL in each of the submitted soil samples. Chloride concentrations ranged from 144 mg/kg in soil sample FL 4 @ 9' to 672 mg/kg in soil sample FL 6 @ 9', which exceeded the NMOCD Closure Criterion. Based on these laboratory analytical results, the excavation was further advanced in the area characterized by soil sample FL 6 @ 9'.

On April 28, 2022, Etech collected four (4) confirmation soil samples (EW2, FS 10 @ 11', FS 16 @ 12', and FS 18 @ 11') from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX and TPH were below the applicable NMOCD Closure Criteria, NMOCD Reclamation Standards, and laboratory MDL in each of the submitted soil samples. Chloride concentrations ranged from 336 mg/kg in soil sample FS 10 @ 11' to 784 mg/kg in soil sample EW2, which exceeded the NMOCD Closure Criterion. Based on laboratory analytical results, the excavation was further advanced in the area characterized by soil sample EW2.

On April 29, 2022, Etech collected 13 confirmation soil samples (WW2, FS 6 @ 10', FS 17 @ 11', and FS 19 @ 8' through FS 28 @ 7') from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and/or chloride. Laboratory analytical results indicated BTEX and TPH were below the applicable NMOCD Closure Criteria, NMOCD Reclamation Standards, and laboratory MDL in each of the submitted soil samples. Chloride concentrations ranged from 80.0 mg/kg in soil sample FS 27 @ 7' to 880 mg/kg in soil sample WW2, which exceeded the NMOCD Closure Criterion. Based on laboratory analytical results, the excavation was further advanced in the areas characterized by soil sample WW2 and soil sample FS 17 @ 11', which also exceeded the NMOCD Closure Criterion for chloride.

On May 3, 2022, Etech collected 10 confirmation soil samples (EW3, WW3, and FS 29 @ 7' through FS 36 @ 7') from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX and TPH were below the applicable NMOCD Closure Criteria, NMOCD Reclamation Standards, and laboratory MDL in each of the submitted soil samples. Chloride concentrations ranged from 96.0 mg/kg in soil sample WW3 to 688 mg/kg in soil sample FS 35 @ 7', which exceeded the NMOCD Closure Criterion. Based on laboratory analytical results, the excavation was further advanced in the area characterized by soil sample FS 35 @ 7'.

On May 4, 2022, Etech collected five (5) confirmation soil samples (FS 37 @ 7' through FS 41 @ 7') from the floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL. Chloride concentrations ranged from 112 mg/kg in soil sample FS 37 @ 7' to 400 mg/kg in soil sample FS 39 @ 7'.

On May 5, 2022, Etech collected two (2) confirmation soil samples (EW4 and WW4) from the sidewalls of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL. Chloride concentrations were 128 mg/kg in soil sample EW4 and 160 mg/kg in soil sample WW4.

On May 9, 2022, Etech collected 10 confirmation soil samples (FS 42 @ 7' through FS 51 @ 7') from the floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL. Chloride concentrations ranged from 112 mg/kg in soil sample FS 48 @ 7' to 464 mg/kg in soil sample FS 42 @ 7'.

On May 11, 2022, Etech collected three (3) confirmation soil samples (EW2A, WW2A, and FS 17 @ 19') from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of chloride. Laboratory analytical results indicated chloride concentrations ranged from 320 mg/kg in soil sample WW2A to 448 mg/kg in soil sample FS 17 @ 19'.

On May 13, 2022, Etech collected 20 confirmation soil samples (EW5, WW5, FS 35 @ 8', and FS 54 @ 9' through FS 70 @ 6') from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and/or chloride. Laboratory analytical results indicated BTEX, TPH, and chloride were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL. Chloride concentrations ranged from 112 mg/kg in soil sample FS 70 @ 6' to 496 mg/kg in soil sample FS 54 @ 9'.

On May 16, 2022, Etech collected 10 confirmation soil samples (FS 52 @ 19.5', FS 53 @ 19.5', FS 71 @ 4' through FS 77 @ 7', and FS 81 @ 4') from the floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL. Chloride concentrations ranged from 96.0 mg/kg in soil sample FS 81 @ 4' to 448 mg/kg in soil sample FS 77 @ 7'.

On May 17, 2022, Etech collected 10 confirmation soil samples (EW6, WW6, FS 78 @ 5' through FS 80 @ 4', FS 82 @ 4' through FS 84 @ 8', FS 86 @ 3', and FS 87 @ 3') from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL. Chloride concentrations ranged from 80.0 mg/kg in soil sample FS 82 @ 4' to 560 mg/kg in soil sample FS 79 @ 4'.

On May 18, 2022, Etech collected 10 confirmation soil samples (FS 88 @ 4.5' through FS 96 @ 3' and FS 98 @ 4.5') from the floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL. Chloride concentrations ranged from 64.0 mg/kg in soil sample FS 90 @ 5' to 400 mg/kg in soil samples FS 88 @ 4.5' and FS 92 @ 6'.

On May 19, 2022, Etech collected 10 confirmation soil samples (EW7, WW7, FS 97 @ 8.5', and FS 99 @ 3.5' through FS 105 @ 2.5') from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL, with the exception of soil sample EW7, which exhibited a TPH concentration of 20.3 mg/kg. Chloride concentrations ranged from 80.0 mg/kg in soil samples FS 100 @ 4' and FS 104 @ 2.5' to 528 mg/kg in soil sample FS 101 @ 2.5'.

On May 23, 2022, Etech collected seven (7) confirmation soil samples (EW8 and FS 106 @ 2' through FS 111 @ 5') from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL, with the exception of soil sample FS 106 @ 2', which exhibited a TPH concentration of 15.7 mg/kg. Chloride concentrations ranged from 144 mg/kg in soil sample FS 106 @ 2' to 400 mg/kg in soil samples FS 108 @ 5.5' and FS 109 @ 5.5'.

On May 24, 2022, Etech collected three (3) confirmation soil samples (FS 112 @ 6', FS 113 @ 5', and FS 114 @ 4.5') from the floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL. Chloride concentrations ranged from 64.0 mg/kg in soil sample FS 112 @ 6' to 448 mg/kg in soil sample FS 114 @ 4.5'.

On May 25, 2022, Etech collected seven (7) confirmation soil samples (NW1, WW8, and FS 115 @ 4.5' through FS 119 @ 5') from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL. Chloride concentrations ranged from 96.0 mg/kg in soil samples NW1, FS 117 @ 5', FS 118 @ 5', and FS 119 @ 5' to 400 mg/kg in soil sample FS 116 @ 4'.

The final dimensions of the excavated area were approximately 420 feet in length, 52 to 90 feet in width, and two (2) to 19.5 feet in depth. During the course of remediation activities, Etech transported approximately 10,042 cubic yards of impacted soil to an NMOCD-permitted surface waste facility for disposal and imported approximately 8,550 cubic yards of locally sourced, non-impacted material to the site for use as backfill.

Soil sample locations and the extent of the excavated area are depicted in Figure 3, "Site & Sample Location Map". Soil chemistry data is summarized in Table 1. Field data and soil profile logs are provided in Appendix B. General photographs of the release site are provided in Appendix C. Laboratory analytical reports are provided in Appendix D.

## **7.0 RESTORATION, RECLAMATION & RE-VEGETATION PLAN**

The releases were limited to the tank battery containment area and production pad and did not impact the adjacent pasture. Upon receiving laboratory analytical results from confirmation soil samples, excavated areas were backfilled with locally sourced, non-impacted, "like" material placed at or near original relative positions and compacted/contoured to facilitate rebuilding of the tank battery. Final reclamation and revegetation will be conducted upon decommissioning and abandonment of the new facility.

## **8.0 SOIL CLOSURE REQUEST**

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

Based on laboratory analytical results and field activities conducted to date, Etech recommends Mewbourne provide copies of this *Remediation Summary & Soil Closure Request* to the appropriate agencies and request closure be granted to the Chicago 9/8 Battery release site.

## 9.0 LIMITATIONS

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

This report has been prepared for the benefit of Mewbourne Oil Company. Use of the information contained in this report is prohibited without the consent of Etech and/or Mewbourne Oil Company.

## **10.0      DISTRIBUTION**

*Mewbourne Oil Company*  
4801 Business Park Blvd.  
Hobbs, NM 88240

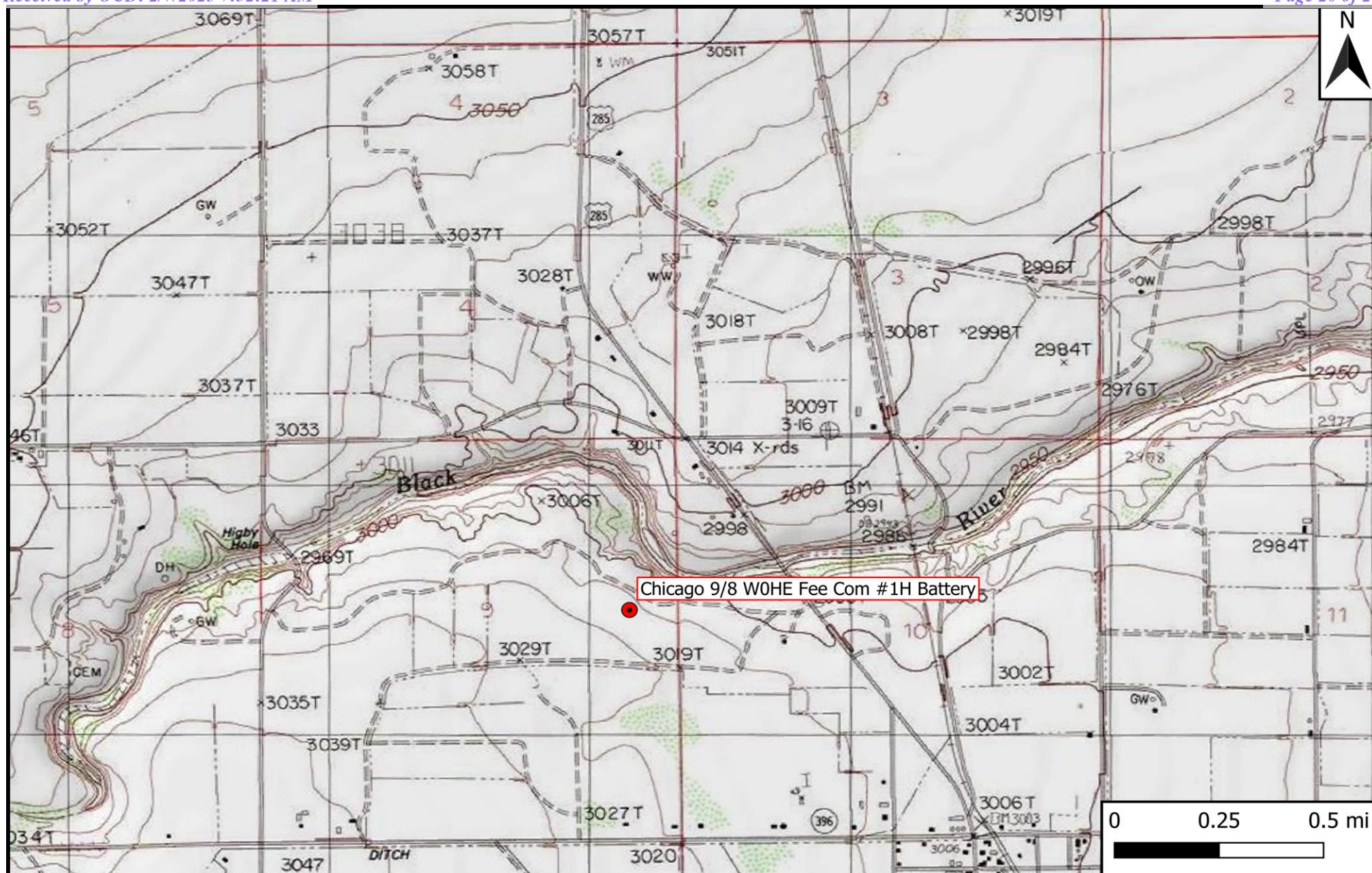
*New Mexico Energy, Minerals and Natural Resources Department*  
Oil Conservation Division, District 2  
811 S. First Street  
Artesia, NM 88210

*(Electronic Submission)*



## **Figure 1**

### **Topographic Map**



### Legend

-  Site Location

### Figure 1

Topographic Map  
Mewbourne Oil Company  
Chicago 9/8 W0HE Fee Com #1H Battery  
GPS: 32.233647, -104.086209  
Eddy County

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

Drafted: bja

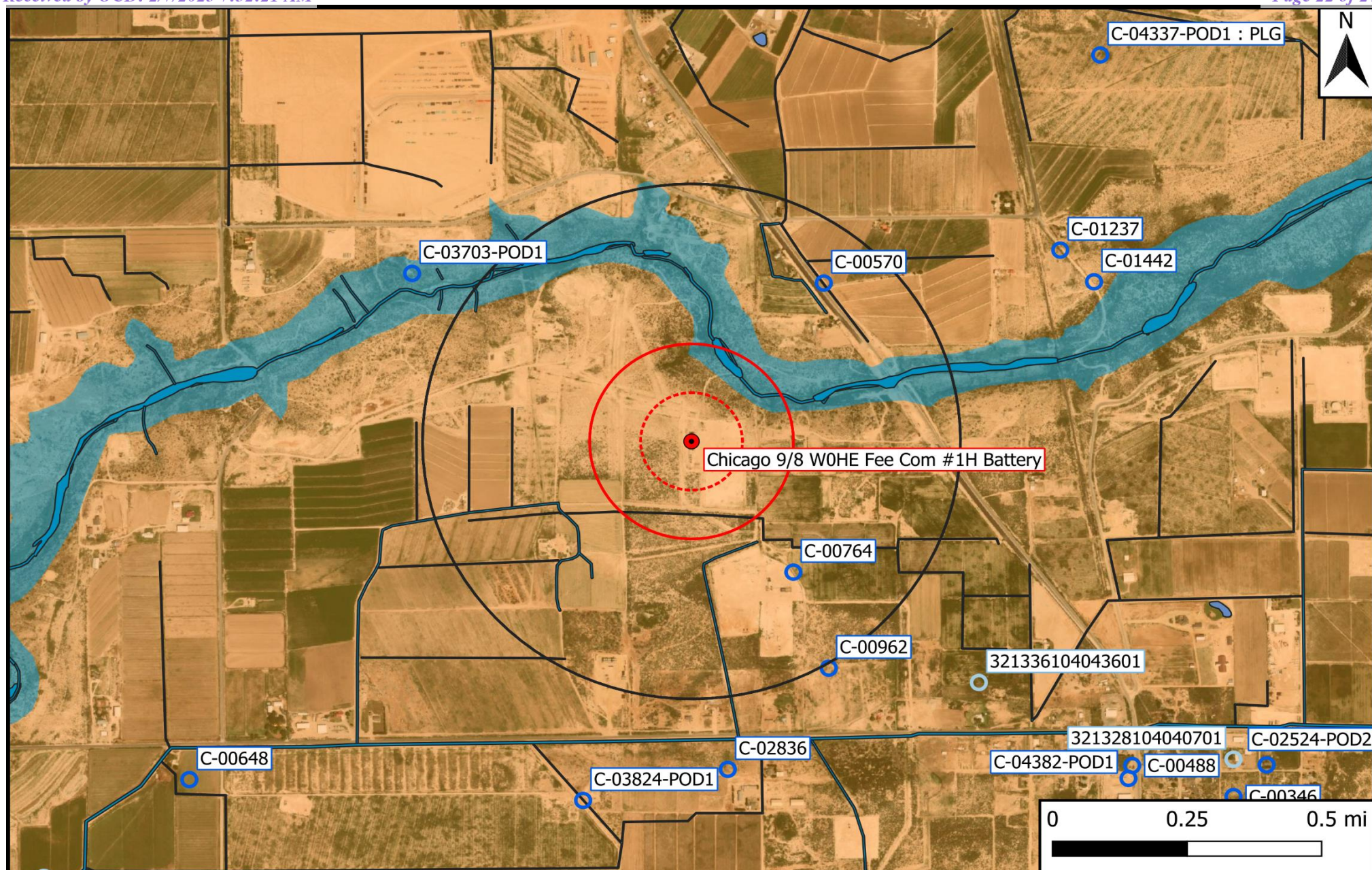
Checked: jwl

Date: 7/19/22

## **Figure 2**

### **Site Characterization Map**





## Legend

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

Figure 2

Site Characterization Map  
Mewbourne Oil Company  
Chicago 9/8 W0HE Fee Com #1H Battery  
GPS: 32.233647, -104.0862090  
Eddy County

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

Drafted: bja

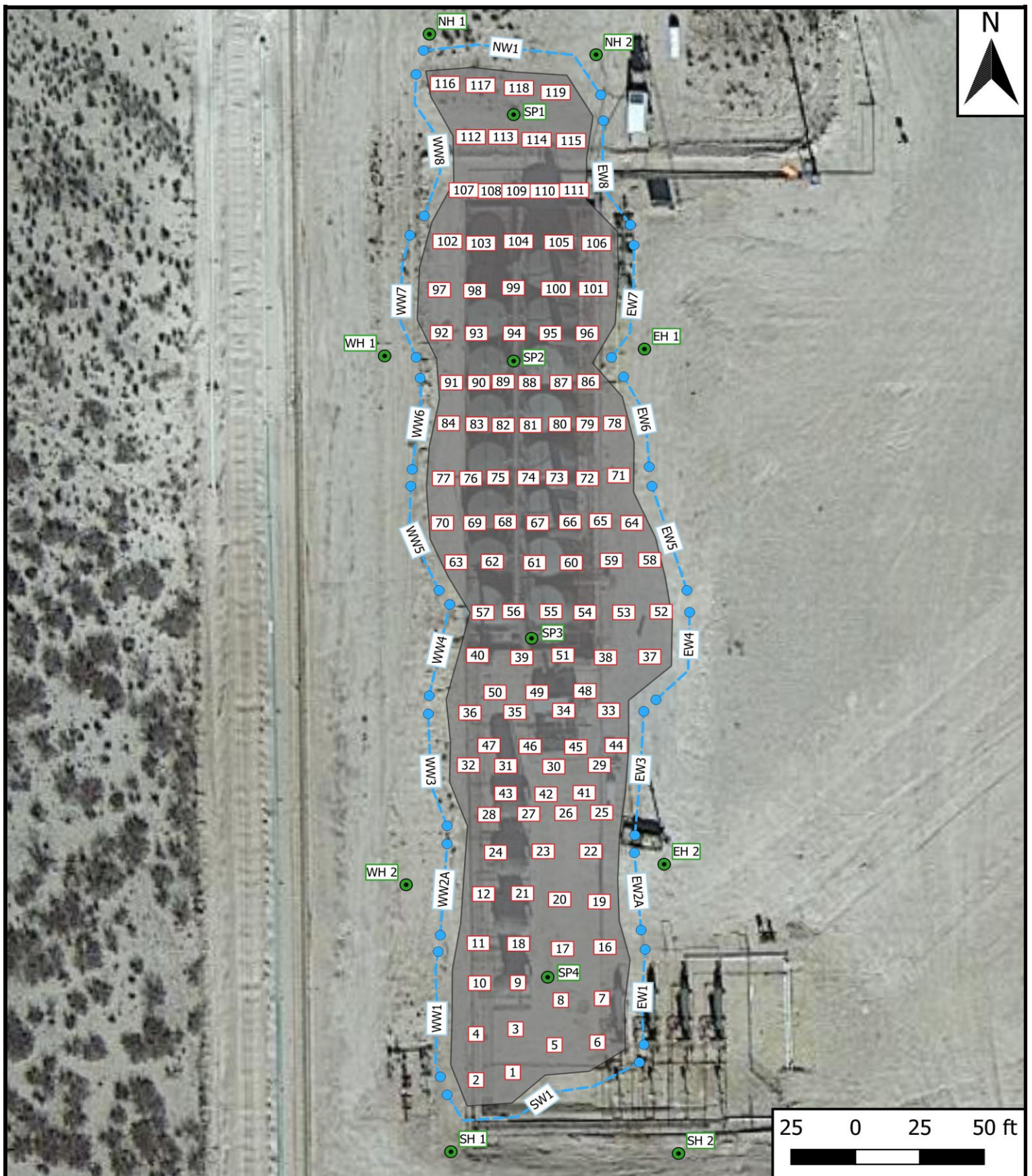
Checked: jwl

Date: 8/4/22

## **Figure 3**

### **Site & Sample Location Map**





## Legend

- Excavation
- Composite Floor Sample
- Composite Wall Sample
- Delineation Sample Location

## Figure 3

Site & Sample Location Map  
 Mewbourne Oil Company  
 Chicago 9/8 WOHE Fee Com #1H Battery  
 GPS: 32.233647, -104.086209  
 Eddy County



Revised: bja

Checked: jwl

Date: 8/5/22

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



Table 1 Concentrations of BTEX, TPH & Chloride in Soil Mewbourne Oil Company Chicago 9/8 W0HE Fee Com #1H Battery NMOCD Reference #'s: nAPP2125960064 & nAPP2200753107											
NMOCD Closure Criteria				10	50	N/A	N/A	N/A	N/A	100	600
NMOCD Reclamation Standard				10	50	N/A	N/A	N/A	N/A	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C <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)
Delineation Samples											
NH 1 @ Surface	1/24/2022	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
NH 1 @ 1'	1/24/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
NH 2 @ Surface	1/24/2022	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	368
NH 2 @ 1'	1/24/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
EH 1 @ Surface	1/24/2022	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
EH 1 @ 1'	1/24/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	336
EH 2 @ Surface	1/24/2022	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
EH 2 @ 1'	1/24/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
SH 1 @ Surface	1/24/2022	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
SH 1 @ 1'	1/24/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
SH 2 @ Surface	1/24/2022	0	In-Situ	<0.050	<0.300	<10.0	11.3	11.3	<10.0	11.3	240
SH 2 @ 1'	1/24/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
WH 1 @ Surface	1/24/2022	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
WH 1 @ 1'	1/24/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
WH 2 @ Surface	1/24/2022	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
WH 2 @ 1'	1/24/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SP1 @ Surface	1/24/2022	0	Excavated	<0.050	<0.300	<10.0	102	102	<10.0	102	11,800
SP1 @ 1'	1/24/2022	1	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
SP2 @ Surface	1/24/2022	0	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	11,800
SP2 @ 1'	1/24/2022	1	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
SP3 @ Surface	1/24/2022	0	Excavated	<0.050	<0.300	<10.0	19.3	19.3	<10.0	19.3	560
SP3 @ 2'	1/24/2022	2	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
SP4 @ Surface	1/24/2022	0	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,440
SP4 @ 3'	1/24/2022	3	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
Excavation Samples											
NW1	5/25/2022	1-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
EW1	4/26/2022	1-11	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	448
EW2	4/28/2022	1-11	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	784
EW2A	5/11/2022	1-11	In-Situ	-	-	-	-	-	-	-	352
EW3	5/3/2022	1-6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
EW4	5/5/2022	1-18.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
EW5	5/13/2022	1-6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
EW6	5/17/2022	1-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	384
EW7	5/19/2022	1-2	In-Situ	<0.050	<0.300	<10.0	20.3	20.3	<10.0	20.3	144
EW8	5/23/2022	1-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
SW1	4/26/2022	1-10	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
WW1	4/26/2022	1-11	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
WW2	4/29/2022	1-11	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	880
WW2A	5/11/2022	1-11	In-Situ	-	-	-	-	-	-	-	320
WW3	5/3/2022	1-6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
WW4	5/5/2022	1-6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
WW5	5/13/2022	1-9	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160

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

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

<b>Table 1</b> <b>Concentrations of BTEX, TPH &amp; Chloride in Soil</b> <b>Mewbourne Oil Company</b> <b>Chicago 9/8 W0HE Fee Com #1H Battery</b> <b>NMOCD Reference #'s: nAPP2125960064 &amp; nAPP2200753107</b>											
NMOCD Closure Criteria				10	50	N/A	N/A	N/A	N/A	100	600
NMOCD Reclamation Standard				10	50	N/A	N/A	N/A	N/A	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C <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)
WW6	5/17/2022	1-7	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	416
WW7	5/19/2022	1-7.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	432
WW8	5/25/2022	1-5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL 1 @ 11'	4/26/2022	11	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	544
FL 2 @ 11'	4/26/2022	11	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	512
FL 3 @ 11'	4/26/2022	11	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	464
FL 4 @ 9'	4/26/2022	9	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FL 5 @ 9'	4/26/2022	9	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FL 6 @ 9'	4/26/2022	9	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	672
FS 6 @ 10'	4/29/2022	10	In-Situ	-	-	-	-	-	-	-	272
FL 7 @ 11'	4/26/2022	11	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
FL 8 @ 11'	4/26/2022	11	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	336
FL 9 @ 11'	4/26/2022	11	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	400
FS 10 @ 11'	4/28/2022	11	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	336
FL 11 @ 12	4/26/2022	12	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
FL 12 @ 12	4/26/2022	12	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
FS 16 @ 12'	4/28/2022	12	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	448
FS 17 @ 11'	4/29/2022	11	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	800
FS 17 @ 19'	5/11/2022	19	In-Situ	-	-	-	-	-	-	-	448
FS 18 @ 11'	4/28/2022	11	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	560
FS 19 @ 8'	4/29/2022	8	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	528
FS 20 @ 7'	4/29/2022	7	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FS 21 @ 7'	4/29/2022	7	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FS 22 @ 8'	4/29/2022	8	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	544
FS 23 @ 7'	4/29/2022	7	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FS 24 @ 7'	4/29/2022	7	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FS 25 @ 7'	4/29/2022	7	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
FS 26 @ 7'	4/29/2022	7	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
FS 27 @ 7'	4/29/2022	7	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FS 28 @ 7'	4/29/2022	7	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FS 29 @ 7'	5/3/2022	7	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
FS 30 @ 7'	5/3/2022	7	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	352
FS 31 @ 7'	5/3/2022	7	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	432
FS 32 @ 7'	5/3/2022	7	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	464
FS 33 @ 7'	5/3/2022	7	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	400
FS 34 @ 7'	5/3/2022	7	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	464
FS 35 @ 7'	5/3/2022	7	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	688
FS 35 @ 8'	5/13/2022	8	In-Situ	-	-	-	-	-	-	-	464
FS 36 @ 7'	5/3/2022	7	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	560
FS 37 @ 7'	5/4/2022	7	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FS 38 @ 7'	5/4/2022	7	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
FS 39 @ 7'	5/4/2022	7	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	400
FS 40 @ 7'	5/4/2022	7	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288

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

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

<b>Table 1</b> <b>Concentrations of BTEX, TPH &amp; Chloride in Soil</b> <b>Mewbourne Oil Company</b> <b>Chicago 9/8 W0HE Fee Com #1H Battery</b> <b>NMOCD Reference #'s: nAPP2125960064 &amp; nAPP2200753107</b>											
NMOCD Closure Criteria				10	50	N/A	N/A	N/A	N/A	100	600
NMOCD Reclamation Standard				10	50	N/A	N/A	N/A	N/A	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C <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)
FS 41 @ 7'	5/4/2022	7	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
FS 42 @ 7'	5/9/2022	7	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	464
FS 43 @ 7'	5/9/2022	7	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FS 44 @ 7'	5/9/2022	7	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
FS 45 @ 7'	5/9/2022	7	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FS 46 @ 7'	5/9/2022	7	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	432
FS 47 @ 7'	5/9/2022	7	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	416
FS 48 @ 7'	5/9/2022	7	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FS 49 @ 7'	5/9/2022	7	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FS 50 @ 7'	5/9/2022	7	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
FS 51 @ 7'	5/9/2022	7	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FS 52 @ 19.5'	5/16/2022	19.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
FS 53 @ 19.5'	5/16/2022	19.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	384
FS 54 @ 9'	5/13/2022	9	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	496
FS 55 @ 9'	5/13/2022	9	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	464
FS 56 @ 6.5'	5/13/2022	6.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FS 57 @ 6.5'	5/13/2022	6.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	416
FS 58 @ 7'	5/13/2022	7	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	384
FS 59 @ 7'	5/13/2022	7	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	384
FS 60 @ 7.5'	5/13/2022	7.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	416
FS 61 @ 10'	5/13/2022	10	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	336
FS 62 @ 10'	5/13/2022	10	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FS 63 @ 10'	5/13/2022	10	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
FS 64 @ 4'	5/13/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FS 65 @ 4'	5/13/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	464
FS 66 @ 11'	5/13/2022	11	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
FS 67 @ 4'	5/13/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	368
FS 68 @ 5'	5/13/2022	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	352
FS 69 @ 6'	5/13/2022	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
FS 70 @ 6'	5/13/2022	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FS 71 @ 4'	5/16/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
FS 72 @ 5'	5/16/2022	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	400
FS 73 @ 4'	5/16/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FS 74 @ 4'	5/16/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
FS 75 @ 5'	5/16/2022	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
FS 76 @ 4'	5/16/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	336
FS 77 @ 7'	5/16/2022	7	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	448
FS 78 @ 5'	5/17/2022	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
FS 79 @ 4'	5/17/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	560
FS 80 @ 4'	5/17/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
FS 81 @ 4'	5/16/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FS 82 @ 4'	5/17/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FS 83 @ 6.5'	5/17/2022	6.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	448

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

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

<b>Table 1</b> <b>Concentrations of BTEX, TPH &amp; Chloride in Soil</b> <b>Mewbourne Oil Company</b> <b>Chicago 9/8 W0HE Fee Com #1H Battery</b> <b>NMOCD Reference #'s: nAPP2125960064 &amp; nAPP2200753107</b>											
NMOCD Closure Criteria				10	50	N/A	N/A	N/A	N/A	100	600
NMOCD Reclamation Standard				10	50	N/A	N/A	N/A	N/A	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C <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)
FS 84 @ 8'	5/17/2022	8	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	464
FS 86 @ 3'	5/17/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FS 87 @ 3'	5/17/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
FS 88 @ 4.5'	5/18/2022	4.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	400
FS 89 @ 4.5'	5/18/2022	4.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	368
FS 90 @ 5'	5/18/2022	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FS 91 @ 5'	5/18/2022	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
FS 92 @ 6'	5/18/2022	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	400
FS 93 @ 3'	5/18/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
FS 94 @ 3'	5/18/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FS 95 @ 3'	5/18/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FS 96 @ 3'	5/18/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FS 97 @ 8.5'	5/19/2022	8.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
FS 98 @ 4.5'	5/18/2022	4.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
FS 99 @ 3.5'	5/19/2022	3.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FS 100 @ 4'	5/19/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FS 101 @ 2.5'	5/19/2022	2.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	528
FS 102 @ 5.5'	5/19/2022	5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FS 103 @ 4.5'	5/19/2022	4.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	464
FS 104 @ 2.5'	5/19/2022	2.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FS 105 @ 2.5'	5/19/2022	2.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FS 106 @ 2'	5/23/2022	2	In-Situ	<0.050	<0.300	<10.0	15.7	15.7	<10.0	15.7	144
FS 107 @ 6.5'	5/23/2022	6.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
FS 108 @ 5.5'	5/23/2022	5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	400
FS 109 @ 5.5'	5/23/2022	5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	400
FS 110 @ 5'	5/23/2022	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
FS 111 @ 5'	5/23/2022	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
FS 112 @ 6'	5/24/2022	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FS 113 @ 5'	5/24/2022	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FS 114 @ 4.5'	5/24/2022	4.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	448
FS 115 @ 4.5'	5/25/2022	4.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FS 116 @ 4'	5/25/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	400
FS 117 @ 5'	5/25/2022	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FS 118 @ 5'	5/25/2022	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FS 119 @ 5'	5/25/2022	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0

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

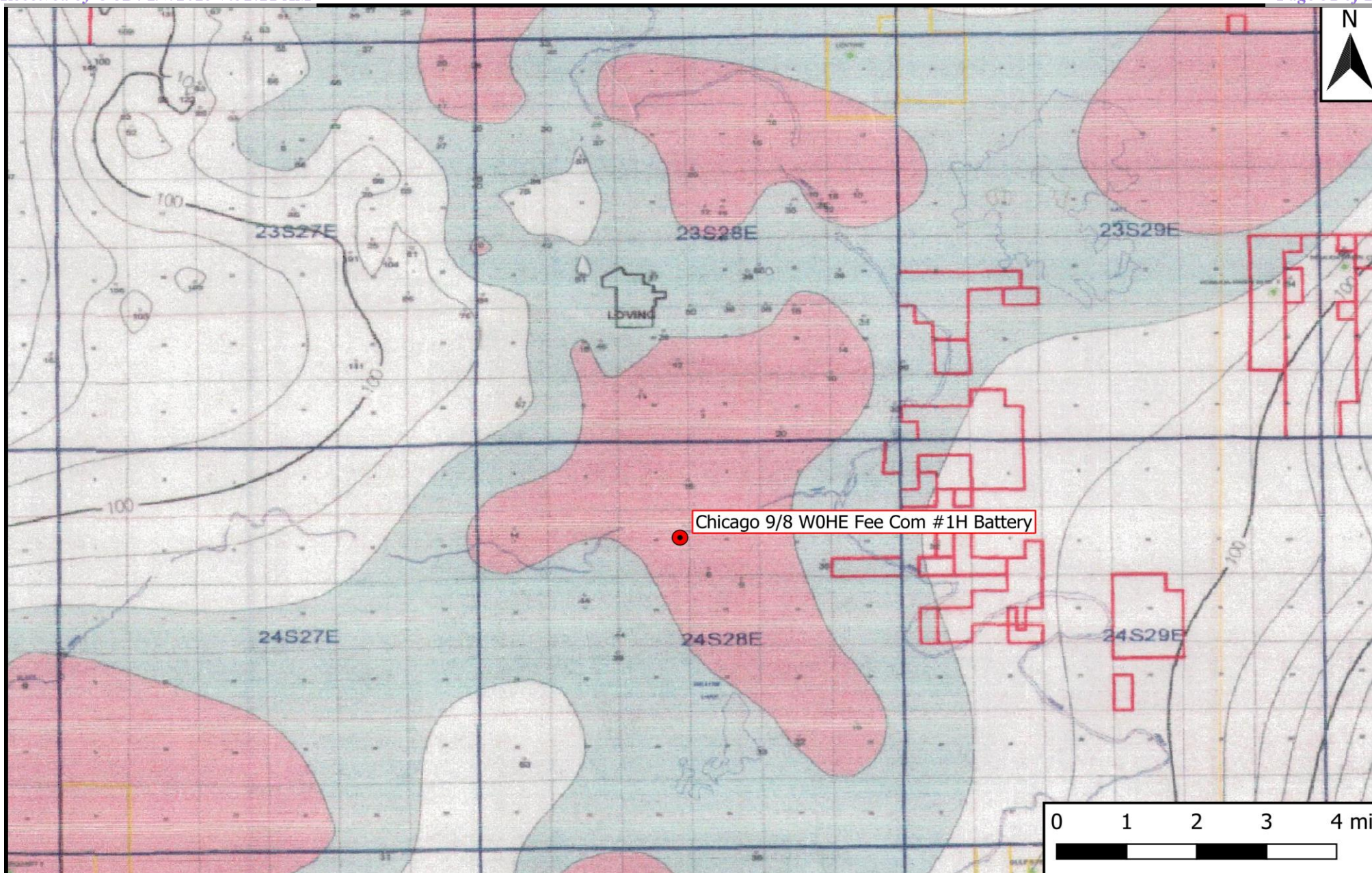
Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

## **Appendix A**

### **Depth to Groundwater Information**





## Legend

● Site Location

## Figure 4

Inferred Depth to Groundwater Trend Map  
 Mewbourne Oil Company  
 Chicago 9/8 W0HE Fee Com #1H Battery  
 GPS: 32.233647, -104.086209  
 Eddy County

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

Drafted: bja

Checked: jwl

Date: 7/19/22



# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
<a href="#">C 00764</a>	CUB	ED		3	1	3	10	24S	28E	586399	3566292*	509	118	25	93
<a href="#">C 00570</a>	CUB	ED			1	1	10	24S	28E	586490	3567195*	633	100	28	72

Average Depth to Water: **26 feet**

Minimum Depth: **25 feet**

Maximum Depth: **28 feet**

Record Count: 2

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

**Easting (X):** 586094.43

**Northing (Y):** 3566700.38

**Radius:** 804.67

\*UTM location was derived from PLSS - see Help

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

8/4/22 3:26 PM

Page 1 of 1


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
C	00764	3	1	3	10	24S	28E	586399	3566292* 
Driller License:		Driller Company:							
Driller Name:		W.C. MOORE							
Drill Start Date:	05/15/1957	Drill Finish Date:		05/25/1957		Plug Date:			
Log File Date:	10/16/1958	PCW Rcv Date:		04/15/1958		Source:		Shallow	
Pump Type:	TURBIN	Pipe Discharge Size:				Estimated Yield:		400 GPM	
Casing Size:	16.00	Depth Well:		118 feet		Depth Water:		25 feet	
Water Bearing Stratifications:		Top	Bottom	Description					
		23	24	Other/Unknown					
		85	115	Sandstone/Gravel/Conglomerate					
Casing Perforations:		Top	Bottom						
		23	30						
		85	115						


\*UTM location was derived from PLSS - see Help

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

1/31/22 10:47 AM

POINT OF DIVERSION SUMMARY



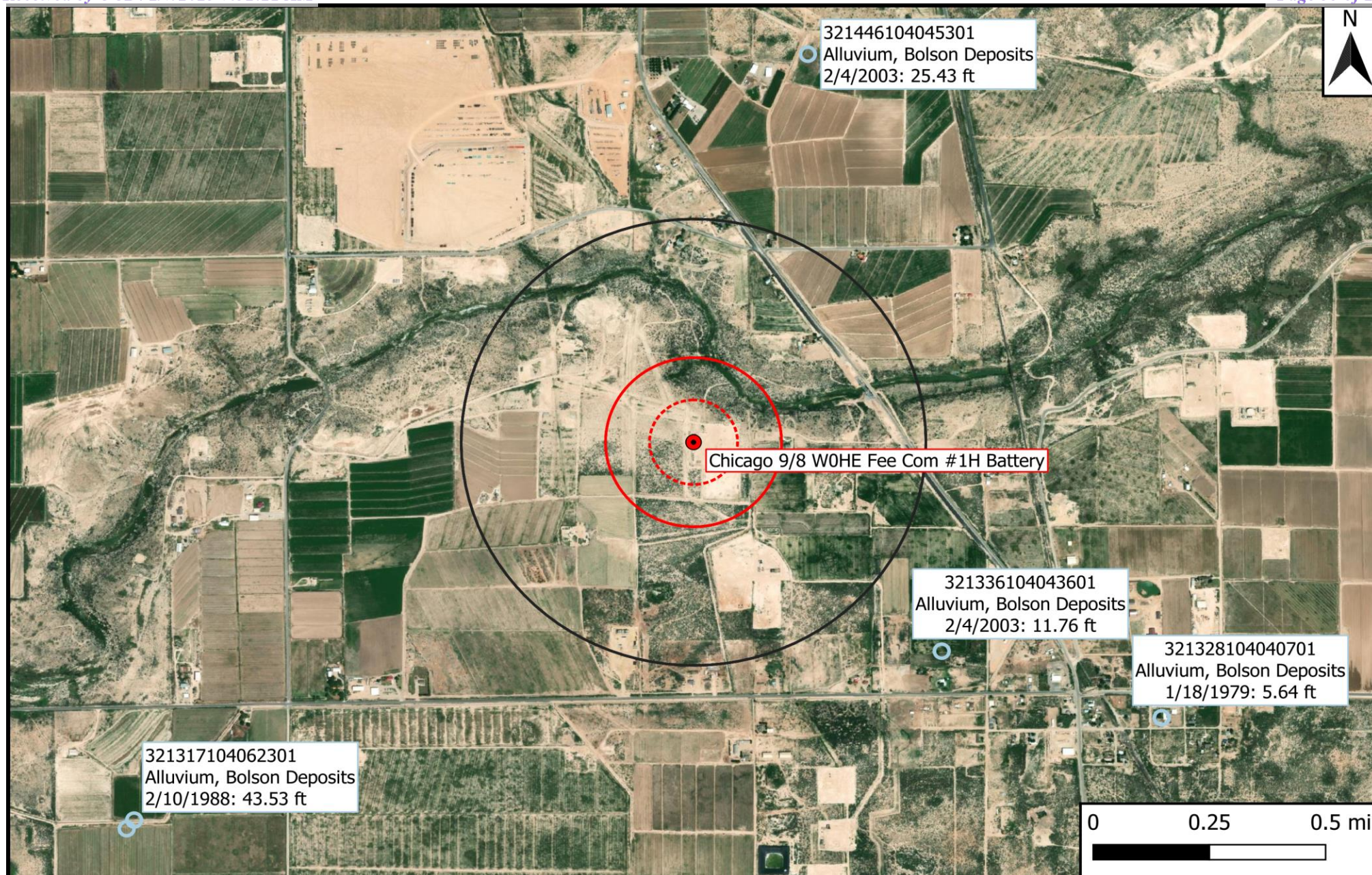
X	Y
586490	3567195* 

**Depth Water:** 28 feet

30      32 Sandstone/Gravel/Conglomerate

### POINT OF DIVERSION SUMMARY





## Legend

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

## Figure 5

USGS Well Proximity Map  
Mewbourne Oil Company  
Chicago 9/8 W0HE Fee Com #1H Battery  
GPS: 32.233647, -104.086209  
Eddy County

**eTECH**

Environmental & Safety Solutions, Inc.



Drafted: bja

Checked: jwl

Date: 7/19/22



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Data Category:

Groundwater

Geographic Area:

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Agency code = usgs

site\_no list =

- 321336104043601

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload**USGS 321336104043601 24S.28E.10.343114**

Eddy County, New Mexico

Latitude 32°13'36", Longitude 104°04'36" NAD27

Land-surface elevation 3,012 feet above NAVD88

The depth of the well is 50 feet below land surface.

This well is completed in the Other aquifers (N9999OTHER) national aquifer.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

**Output formats**[Table of data](#)[Tab-separated data](#)[Graph of data](#)[Reselect period](#)

Date	Time	? Water- level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water- level approval status
1974-01-25		D	72019	7.00			1	Z			A
1983-01-31		D	72019	7.10			1	Z			A
1988-02-11		D	72019	6.89			1	Z			A
1992-10-20		D	72019	6.48			1	S			A
1998-01-07		D	72019	7.62			1	S			A
2003-02-04		D	72019	11.76			1	S	USGS	S	A

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

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0.29 0.23 nadww01



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### Search Results -- 1 sites found

Agency code = usgs

site\_no list =

- 321328104040701

Minimum number of levels = 1

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### USGS 321328104040701 24S.28E.15.21224

Eddy County, New Mexico

Latitude 32°13'28", Longitude 104°04'07" NAD27

Land-surface elevation 3,003 feet above NAVD88

This well is completed in the Other aquifers (N9999OTHER) national aquifer.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

#### Output formats

[Table of data](#)

[Tab-separated data](#)

[Graph of data](#)

[Reselect period](#)

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1955-07-13			D 72019	10.38			1	Z			A
1974-01-25			D 72019	9.30			1	Z			A
1975-01-29			D 72019	5.35			1	Z			A
1976-01-14			D 72019	9.02			1	Z			A
1977-01-14			D 72019	10.07			1	Z			A
1978-01-25			D 72019	9.84			1	Z			A
1979-01-18			D 72019	5.64			1	Z			A

Explanation

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

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### Search Results -- 1 sites found

Agency code = usgs

site\_no list =

- 321446104045301

Minimum number of levels = 1

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### USGS 321446104045301 24S.28E.04.422422

Eddy County, New Mexico

Latitude 32°14'46", Longitude 104°04'53" NAD27

Land-surface elevation 3,021 feet above NAVD88

The depth of the well is 250 feet below land surface.

This well is completed in the Other aquifers (N9999OTHER) national aquifer.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

#### Output formats

[Table of data](#)

[Tab-separated data](#)

[Graph of data](#)

[Reselect period](#)

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1983-01-31		D	72019	23.56			1	Z			A
1988-02-12		D	72019	21.57			1	Z			A
1992-11-20		D	72019	18.05			1	S			A
1998-01-23		D	72019	20.77			1	S			A
2003-02-04		D	72019	25.43			1	S	USGS	S	A



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

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



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Agency code = usgs

site\_no list =

- 321317104062301

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload**USGS 321317104062301 24S.28E.17.231111**

Eddy County, New Mexico

Latitude 32°13'17", Longitude 104°06'23" NAD27

Land-surface elevation 3,054 feet above NAVD88

The depth of the well is 265 feet below land surface.

This well is completed in the Other aquifers (N9999OTHER) national aquifer.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

**Output formats**[Table of data](#)[Tab-separated data](#)[Graph of data](#)[Reselect period](#)

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water- level approval status
1946-10-22			D	72019	25.90			1	Z		A
1947-02-08			D	72019	25.10			1	Z		A
1947-10-22			D	72019	23.51			1	Z		A
1948-01-13			D	72019	23.18			1	Z		A
1948-02-09			D	72019	24.87			1	Z		A
1949-01-29			D	72019	24.54			1	Z		A
1950-01-19			D	72019	26.59			1	Z		A
1951-01-17			D	72019	22.70			1	Z		A

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water- level approval status
1952-01-16		D	72019	22.71			1	Z			A
1953-01-24		D	72019	23.38			1	Z			A
1954-01-18		D	72019	27.05			1	Z			A
1955-01-19		D	72019	25.68			1	Z			A
1956-01-11		D	72019	25.55			1	Z			A
1959-01-14		D	72019	27.42			1	Z			A
1988-02-10		D	72019	43.53			1	Z			A

## Explanation

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

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0.31 0.26 nadww01



## **Appendix B**

### **Field Data & Soil Profile Logs**



# Sample Log

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

Project: Chicago 9-8 WOH E Fee Con 1

Project Number: 15066

Latitude: 32.233468

Longitude: -104.08525

Sample ID	PID/Odor	Chloride Conc.	GPS
F11 @ 11	None	440	
F12 @ 11	None	280	
F3 @ 11	None	280	
F4 @ 9	None	200	
F5 @ 9	None	352	
F6 @ 9	None	440	
SW1	None	200	
F9 @ 11	None	488	
EW1 @	None	440	
WW1	None	352	
F11 @ 12	None	440	
F12 @ 12	None	488	
F7 @ 11	None	488	
FL8 @ 11	None	536	
EW2	-	1384.1164.900.576	
FS10 @ 11	-	432	
FS16 @ 11 • FS16 @ 12	- -	704.316	
FS17 @ 11 • FS17 @ 12 • FS17 @ 13	-	592.648.680.1144.680.488	
FS18 @ 11	-	488	
WW2	-		
<del>FS23 @ 7</del> FS26 @ 7	-	476	
<del>FS24 @ 7</del> FS27 @ 7	-	312	
<del>FS26 @ 7</del> FS20 @ 7	-	348	
<del>FS27 @ 7</del> FS21 @ 7	-	276	
FS28 @ 7	-	312	
FS19 @ 7 • FS19 @ 8	-	628.476	
FS22 @ 7 • FS22 @ 8	-	740.524	
<del>FS23 @ 7</del> FS23 @ 7	-	348	
<del>FS24 @ 7</del> FS24 @ 7	-	312	
FS25 @ 7	-	476	
FS29 @ 7	-	348	
FS30 @ 7	-	524	
FS31 @ 7	-	476	
FS32 @ 7	-	524	
EW3	-	212	

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc WW3

Sidewall = SW #1 etc

2096-184 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

n

## Sample Log

Dat: \_\_\_\_\_

Project: Chicago 9-8 NOHE Fee Coal HProject Number: 15066Latitude: 32.833468Longitude: -104.08525

Sample ID	PID/Odor	Chloride Conc.	GPS
		432	
		476	
FS35e8	-	576-524	
WW4	-	>2432-800-524-WW4+524	
FS37e7	-	312	
FS38e7	-	524	
FS39e	-	432	
FS40e8-FS40e7	-	1224-524	
EW4	-	244	
FW2A	-	432	
WW2A	-	524	
FS17e19	-	432	
FS41e7	-	524	
FS42e7	-	476	
FS43e7	-	476	
FS44e7	-	348	
FS45e7	-	212	
FS46e7	-	432	
FS47e7	-	524	
FS48e7	-	244	
FS49e7	-	312	
FS50e7	-	476	
FS51e7	-	312	
FS52e9e11e13e14e15	-	1068-756-900-900-900e16-1124e17-1292-18-1292e19-592	
FS53e9e11e13e14e15	-	1068-800-1044-1124-832e16-1044e17-900-18-1124e19-588	
FS54e6 1/2e9	-	496-476	
FS55e6 1/2e7 1/2e9	-	680-680-476	
FS56e6 1/2	-	576	
FS57e6 1/2	-	352	
EW4+	-	860-800-972-1292-1124-1204-1204	
FS58e7	✓	488	
FS59e7	-	440	
FS60e7 1/2	-	488	
FS61e7 1/2e9e10	-	900-768-396	
FS62e8 1/2e7 1/2e9e10	-	1204-900-1124-704e11-316	

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 @ Sb or SW #1b

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas

FS63e6 1/2 - 1204e7 1/2  
 WW5+ ~ 2584  
 EW5+ ~ 352





## Sample Log

Date:

4/20/22

Project: Chicago 9-8 WOHE Fee Com 1

Project Number: 15066

Latitude: 32.233468

Longitude: -104.08525

Sample ID	PID/Odor	Chloride Conc.	GPS
FL1 @ 6'	Yes	8.9 > 2572	
FL1 @ 7'	—	7.2 2044	
FL1 @ 7.5'	—	7.0 1900	
FL1 @ 8.5'	—	6.8 1768	
FL1 @ 9'	—	6.6 1648	
FL1 @ 10'	—	5.8 344	
WW1 @ 10'	—	7.2 2044	
SW1 @ 10'	—	9.0 > 2572	
WW1b @ 10'	—	6.4 1532	
WW1c @ 10'	—	6.2 1478	
WW1d @ 10'	—	5.0 924	
WW1e @ 10'	—	5.2 996	Alt test of WW1d
	—	4.6 768	
	—	5.8 536	
	—	7.0 352	FS70 @ 6'
FS69 @ 4' @ 6'	—	768-536	352
WW5	—	2584-22584-316	
FS68 @ 4' @ 5'	—	768-536	
FS67 @ 4'	—	536	
FS66 @ 4' @ 5' @ 6' @ 7'	—	768-592-648-900	
FS65 @ 4'	—	488	
FS64 @ 4'	—	352	
EW5 @ 6'	—	536	
WW5 @ 6'	—	900	
FS77 @ 4' @ 6'	—	832-488	
FS76 @ 4'	—	488	
FS75 @ 4' @ 5'	—	592-396	
FS74 @ 4'	—	488	
FS73 @ 4'	—	244	
FS72 @ 4'	—	592-588?	
FS71 @ 4'	—	400	
EW5 @ 6'	—	356	
FS84 @ 5' @ 6' @ 8'	—	1544-536	
FS83 @ 5' @ 6' @ 1/2'	—	756-536	
WW6?	—	488	

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc FS82 @ 4'

Sidewall = SW #1 etc FS81 @ 4'

Make sure for 52253 @ 1/2'

444

536

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: Chicago 9-8 WOHETecCom1Project Number: 15066Latitude: 32.233468Longitude: -104.08525

Sample ID	PID/Odor	Chloride Conc.	GPS
FS 80e4'	—	400	
FS 79e4'	—	536	
EW 6	—	880-536	
FS 78e4'e5'	—	676-356	
FS 91e5'	—	356	
FS 90e5'	—	356	
WW 6	—	488	
FS 89e4½'	—	356	
FS 88e4½'	—	444	
FS 87e3'	—	400	
FS 86e3'	—	400	
EW 6	—	536	
FS 92e3'e6'	—	836-536	
FS 93e3'	—	488	
FS 94e3'	—	444	
FS 95e3'	—	444	
FS 96e3'	—	356	
WW 7	—	2188-1020-696	
FS 97e5'e6½'e8½'	—	2616-1176-356	
FS 98e4½'	—	244	
FS 99e3½'	—	280	
FS 100e3½'	—	400	
FS 101e2½'	—	536	
EW 7 <sup>25</sup>	—	1544-1096-400	
WW 7 <sup>25</sup>	—	488	
FS 102e5½'	—	212	
FS 103e2'e4½'	—	1176-536	
FS 104e2½'	—	180	
FS 105e2½'	—	316	
EW 7+	—	1348-1096-400	
FS 106e2½'	—	400	
FS 107e4'e5½'e6½'	—	948-880	
<del>FS 108e3'e5½'</del> EW 8?	—	880-244	
FS 108e3'e5½'	—	948-396	
FS 109e3'e5½'	—	816-488	
FS 110e2½'	—	696-400	

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





out  
maybe?  
10,042

$$\begin{array}{r} 14 \\ 16 \times 4 \\ \hline 26 \end{array}$$
$$\begin{array}{r} 34 \\ \times 56 \\ \hline 204 \\ 1700 \\ \hline 1912 \end{array}$$

## Sample Log

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

Project: Chicago PS NCHC Fee Gm 1

Project Number: 15066 Latitude: 32.233468 Longitude: -104.08525

[illegible]

Sample Point = SP #1 @ ## etc

**Floor = FL #1 etc**

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

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

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

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

**Stockpile = Stockpile #1**

### GPS Sample Points, Center of Comr



Soil Profile

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


Project: Chicago 9-8 WOHE Fee Com 1  
Project Number: 15066 Latitude: 32.233468 Longitude: -104.08525


Depth (ft. bgs)	Description
1	Caliche
2	
3	
4	
5	
6	
7	
8	Rocky
9	
10	M-s
11	Caliche
12	
13	
14	
15	
16	
17	
18	
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20	
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40	

## **Appendix C**

### **Photographic Log**


## Photographic Log


<b>Photo Number:</b> 1	
<b>Photo Direction:</b> North	
<b>Photo Description:</b>  View of the affected area (9/7/2021 Release)	

<b>Photo Number:</b> 2	
<b>Photo Direction:</b> South	
<b>Photo Description:</b>  View of the affected area (9/7/2021 Release)	




## Photographic Log


<b>Photo Number:</b> 3	
<b>Photo Direction:</b> North-Northeast	
<b>Photo Description:</b>  View of the affected area (12/24/2021 Release)	

<b>Photo Number:</b> 4	
<b>Photo Direction:</b> Northeast	
<b>Photo Description:</b>  View of the affected area (12/24/2021 Release)	





## Photographic Log

<b>Photo Number:</b> 5	
<b>Photo Direction:</b> East-Northeast	
<b>Photo Description:</b>  View of the affected area (12/24/2021 Release)	

<b>Photo Number:</b> 6	
<b>Photo Direction:</b> North	
<b>Photo Description:</b>  View of the affected area (12/24/2021 Release)	

## Photographic Log


<b>Photo Number:</b>	7
<b>Photo Direction:</b>	Northeast
<b>Photo Description:</b>	<p>View of the affected area (12/24/2021 Release)</p> 

<b>Photo Number:</b>	8
<b>Photo Direction:</b>	Southeast
<b>Photo Description:</b>	<p>View of the affected area (12/24/2021 Release)</p> 



## Photographic Log

<b>Photo Number:</b> 9	 <p>5/26/22, 8:47 AM +32.234016,-104.086112 ±5.00m 170° S</p> <p>View of the excavated area</p>
<b>Photo Direction:</b> South	
<b>Photo Description:</b>	

<b>Photo Number:</b> 10	 <p>5/26/22, 9:00 AM +32.232826,-104.086214 ±10.00m 359° N</p> <p>View of the excavated area</p>
<b>Photo Direction:</b> North	
<b>Photo Description:</b>	

## Photographic Log

<b>Photo Number:</b> 11	 <p>5/26/22, 8:46 AM +32.234063, -104.086021 ±5.00m 219° SW</p> <p>View of the excavated area</p>
<b>Photo Direction:</b> Southwest	
<b>Photo Description:</b>	

<b>Photo Number:</b> 12	 <p>5/26/22, 8:49 AM +32.233425, -104.086315 ±10.00m 114° SE</p> <p>View of the excavated area</p>
<b>Photo Direction:</b> East-Southeast	
<b>Photo Description:</b>	



## Photographic Log

<b>Photo Number:</b> 13	 <p>5/26/22, 9:43 AM +32.233425, -104.086315 ±10.00m 36° NE</p>
<b>Photo Direction:</b> Northeast	
<b>Photo Description:</b>  View of the excavated area	

<b>Photo Number:</b> 14	 <p>5/26/22, 9:02 AM +32.233090, -104.086052 ±10.00m 213° SW</p>
<b>Photo Direction:</b> Southwest	
<b>Photo Description:</b>  View of the excavated area	



## Photographic Log

<b>Photo Number:</b> 15	
<b>Photo Direction:</b> Northwest	
<b>Photo Description:</b>  View of the excavated area	

<b>Photo Number:</b> 16	
<b>Photo Direction:</b> South-Southwest	
<b>Photo Description:</b>  View of the excavated area	

## Photographic Log

<b>Photo Number:</b> 17	
<b>Photo Direction:</b> Northeast	
<b>Photo Description:</b>  View of the remediated area after backfill and regrading	

<b>Photo Number:</b> 18	
<b>Photo Direction:</b> Southeast	
<b>Photo Description:</b>  View of the remediated area after backfill and regrading	



## Photographic Log

<b>Photo Number:</b> 19	
<b>Photo Direction:</b> North-Northeast	
<b>Photo Description:</b>  View of the remediated area after backfill and regrading	

<b>Photo Number:</b> 20	
<b>Photo Direction:</b> Southeast	
<b>Photo Description:</b>  View of the remediated area after backfill and regrading	

## **Appendix D**

### **Laboratory Analytical Reports**



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

January 28, 2022

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: CHICAGO 9-8 W0HE FED COM 1

Enclosed are the results of analyses for samples received by the laboratory on 01/24/22 15:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 01/24/2022  
 Reported: 01/28/2022  
 Project Name: CHICAGO 9-8 WOHE FED COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 01/24/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: NH 1 @ SURFACE (H220266-01)**

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	01/27/2022	ND	2.14	107	2.00	1.49	
Toluene*	<0.050	0.050	01/27/2022	ND	2.26	113	2.00	0.507	QR-03
Ethylbenzene*	<0.050	0.050	01/27/2022	ND	2.08	104	2.00	1.81	QR-03
Total Xylenes*	<0.150	0.150	01/27/2022	ND	6.47	108	6.00	1.95	QR-03
Total BTEX	<0.300	0.300	01/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/26/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2022	ND	204	102	200	1.48	
DRO >C10-C28*	<10.0	10.0	01/27/2022	ND	187	93.4	200	3.44	
EXT DRO >C28-C36	<10.0	10.0	01/27/2022	ND					

Surrogate: 1-Chlorooctane 87.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 84.4 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 01/24/2022  
 Reported: 01/28/2022  
 Project Name: CHICAGO 9-8 WOHE FED COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 01/24/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: NH 1 @ 1' (H220266-02)**

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	01/27/2022	ND	2.14	107	2.00	1.49	
Toluene*	<0.050	0.050	01/27/2022	ND	2.26	113	2.00	0.507	
Ethylbenzene*	<0.050	0.050	01/27/2022	ND	2.08	104	2.00	1.81	
Total Xylenes*	<0.150	0.150	01/27/2022	ND	6.47	108	6.00	1.95	
Total BTEx	<0.300	0.300	01/27/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/26/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2022	ND	204	102	200	1.48	
DRO >C10-C28*	<10.0	10.0	01/27/2022	ND	187	93.4	200	3.44	
EXT DRO >C28-C36	<10.0	10.0	01/27/2022	ND					

Surrogate: 1-Chlorooctane 78.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 75.4 % 59.5-142

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	01/24/2022	Sampling Date:	01/24/2022
Reported:	01/28/2022	Sampling Type:	Soil
Project Name:	CHICAGO 9-8 WOHE FED COM 1	Sampling Condition:	** (See Notes)
Project Number:	15066	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

**Sample ID: NH 2 @ SURFACE (H220266-03)**

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	01/27/2022	ND	2.14	107	2.00	1.49	
Toluene*	<0.050	0.050	01/27/2022	ND	2.26	113	2.00	0.507	
Ethylbenzene*	<0.050	0.050	01/27/2022	ND	2.08	104	2.00	1.81	
Total Xylenes*	<0.150	0.150	01/27/2022	ND	6.47	108	6.00	1.95	
Total BTX	<0.300	0.300	01/27/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	01/26/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2022	ND	204	102	200	1.48	
DRO >C10-C28*	<10.0	10.0	01/27/2022	ND	187	93.4	200	3.44	
EXT DRO >C28-C36	<10.0	10.0	01/27/2022	ND					

Surrogate: 1-Chlorooctane 78.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 73.1 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 01/24/2022  
 Reported: 01/28/2022  
 Project Name: CHICAGO 9-8 WOHE FED COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 01/24/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: NH 2 @ 1' (H220266-04)**

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	01/27/2022	ND	2.14	107	2.00	1.49	
Toluene*	<0.050	0.050	01/27/2022	ND	2.26	113	2.00	0.507	
Ethylbenzene*	<0.050	0.050	01/27/2022	ND	2.08	104	2.00	1.81	
Total Xylenes*	<0.150	0.150	01/27/2022	ND	6.47	108	6.00	1.95	
Total BTX	<0.300	0.300	01/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	01/26/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2022	ND	204	102	200	1.48	
DRO >C10-C28*	<10.0	10.0	01/27/2022	ND	187	93.4	200	3.44	
EXT DRO >C28-C36	<10.0	10.0	01/27/2022	ND					

Surrogate: 1-Chlorooctane 81.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 75.2 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 01/24/2022  
 Reported: 01/28/2022  
 Project Name: CHICAGO 9-8 WOHE FED COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 01/24/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: EH 1 @ SURFACE (H220266-05)**

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	01/27/2022	ND	2.14	107	2.00	1.49		
Toluene*	<0.050	0.050	01/27/2022	ND	2.26	113	2.00	0.507		
Ethylbenzene*	<0.050	0.050	01/27/2022	ND	2.08	104	2.00	1.81		
Total Xylenes*	<0.150	0.150	01/27/2022	ND	6.47	108	6.00	1.95		
Total BTX	<0.300	0.300	01/27/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	01/26/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2022	ND	204	102	200	1.48	
DRO >C10-C28*	<10.0	10.0	01/27/2022	ND	187	93.4	200	3.44	
EXT DRO >C28-C36	<10.0	10.0	01/27/2022	ND					

Surrogate: 1-Chlorooctane 79.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 75.1 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 01/24/2022  
 Reported: 01/28/2022  
 Project Name: CHICAGO 9-8 WOHE FED COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 01/24/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: EH 1 @ 1' (H220266-06)**

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	01/27/2022	ND	2.14	107	2.00	1.49	
Toluene*	<0.050	0.050	01/27/2022	ND	2.26	113	2.00	0.507	
Ethylbenzene*	<0.050	0.050	01/27/2022	ND	2.08	104	2.00	1.81	
Total Xylenes*	<0.150	0.150	01/27/2022	ND	6.47	108	6.00	1.95	
Total BTX	<0.300	0.300	01/27/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	01/26/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2022	ND	204	102	200	1.48	
DRO >C10-C28*	<10.0	10.0	01/27/2022	ND	187	93.4	200	3.44	
EXT DRO >C28-C36	<10.0	10.0	01/27/2022	ND					

Surrogate: 1-Chlorooctane 82.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 74.5 % 59.5-142

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 01/24/2022  
 Reported: 01/28/2022  
 Project Name: CHICAGO 9-8 WOHE FED COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 01/24/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: EH 2 @ SURFACE (H220266-07)**

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	01/27/2022	ND	2.14	107	2.00	1.49		
Toluene*	<0.050	0.050	01/27/2022	ND	2.26	113	2.00	0.507		
Ethylbenzene*	<0.050	0.050	01/27/2022	ND	2.08	104	2.00	1.81		
Total Xylenes*	<0.150	0.150	01/27/2022	ND	6.47	108	6.00	1.95		
Total BTX	<0.300	0.300	01/27/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	01/26/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2022	ND	204	102	200	1.48	
DRO >C10-C28*	<10.0	10.0	01/27/2022	ND	187	93.4	200	3.44	
EXT DRO >C28-C36	<10.0	10.0	01/27/2022	ND					

Surrogate: 1-Chlorooctane 81.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 73.7 % 59.5-142

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 01/24/2022  
 Reported: 01/28/2022  
 Project Name: CHICAGO 9-8 WOHE FED COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 01/24/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: EH 2 @ 1' (H220266-08)**

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	01/27/2022	ND	2.14	107	2.00	1.49	
Toluene*	<0.050	0.050	01/27/2022	ND	2.26	113	2.00	0.507	
Ethylbenzene*	<0.050	0.050	01/27/2022	ND	2.08	104	2.00	1.81	
Total Xylenes*	<0.150	0.150	01/27/2022	ND	6.47	108	6.00	1.95	
Total BTX	<0.300	0.300	01/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	01/26/2022	ND	432	108	400	7.69	

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	01/27/2022	ND	204	102	200	1.48	
DRO >C10-C28*	<10.0	10.0	01/27/2022	ND	187	93.4	200	3.44	
EXT DRO >C28-C36	<10.0	10.0	01/27/2022	ND					

Surrogate: 1-Chlorooctane 82.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 76.2 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 01/24/2022  
 Reported: 01/28/2022  
 Project Name: CHICAGO 9-8 WOHE FED COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 01/24/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: SH 1 @ SURFACE (H220266-09)**

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	01/27/2022	ND	2.14	107	2.00	1.49		
Toluene*	<0.050	0.050	01/27/2022	ND	2.26	113	2.00	0.507		
Ethylbenzene*	<0.050	0.050	01/27/2022	ND	2.08	104	2.00	1.81		
Total Xylenes*	<0.150	0.150	01/27/2022	ND	6.47	108	6.00	1.95		
Total BTX	<0.300	0.300	01/27/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	01/26/2022	ND	432	108	400	7.69		

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	01/27/2022	ND	204	102	200	1.48	
DRO >C10-C28*	<10.0	10.0	01/27/2022	ND	187	93.4	200	3.44	
EXT DRO >C28-C36	<10.0	10.0	01/27/2022	ND					

Surrogate: 1-Chlorooctane 79.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 73.6 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 01/24/2022  
 Reported: 01/28/2022  
 Project Name: CHICAGO 9-8 WOHE FED COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 01/24/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: SH 1 @ 1' (H220266-10)**

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	01/27/2022	ND	2.14	107	2.00	1.49	
Toluene*	<0.050	0.050	01/27/2022	ND	2.26	113	2.00	0.507	
Ethylbenzene*	<0.050	0.050	01/27/2022	ND	2.08	104	2.00	1.81	
Total Xylenes*	<0.150	0.150	01/27/2022	ND	6.47	108	6.00	1.95	
Total BTEx	<0.300	0.300	01/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	01/26/2022	ND	432	108	400	7.69		

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	01/27/2022	ND	204	102	200	1.48	
DRO >C10-C28*	<10.0	10.0	01/27/2022	ND	187	93.4	200	3.44	
EXT DRO >C28-C36	<10.0	10.0	01/27/2022	ND					

Surrogate: 1-Chlorooctane 81.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 73.1 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 01/24/2022  
 Reported: 01/28/2022  
 Project Name: CHICAGO 9-8 WOHE FED COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 01/24/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: SH 2 @ SURFACE (H220266-11)**

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	01/27/2022	ND	2.14	107	2.00	1.49	
Toluene*	<0.050	0.050	01/27/2022	ND	2.26	113	2.00	0.507	
Ethylbenzene*	<0.050	0.050	01/27/2022	ND	2.08	104	2.00	1.81	
Total Xylenes*	<0.150	0.150	01/27/2022	ND	6.47	108	6.00	1.95	
Total BTEx	<0.300	0.300	01/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	01/26/2022	ND	432	108	400	7.69		

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	01/27/2022	ND	204	102	200	1.48	
DRO >C10-C28*	11.3	10.0	01/27/2022	ND	187	93.4	200	3.44	
EXT DRO >C28-C36	<10.0	10.0	01/27/2022	ND					

Surrogate: 1-Chlorooctane 80.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 73.1 % 59.5-142

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**Analytical Results For:**

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

Received: 01/24/2022  
 Reported: 01/28/2022  
 Project Name: CHICAGO 9-8 WOHE FED COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 01/24/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: SH 2 @ 1' (H220266-12)**

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	01/27/2022	ND	2.14	107	2.00	1.49	
Toluene*	<0.050	0.050	01/27/2022	ND	2.26	113	2.00	0.507	
Ethylbenzene*	<0.050	0.050	01/27/2022	ND	2.08	104	2.00	1.81	
Total Xylenes*	<0.150	0.150	01/27/2022	ND	6.47	108	6.00	1.95	
Total BTX	<0.300	0.300	01/27/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/26/2022	ND	432	108	400	7.69	

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	01/27/2022	ND	204	102	200	1.48	
DRO >C10-C28*	<10.0	10.0	01/27/2022	ND	187	93.4	200	3.44	
EXT DRO >C28-C36	<10.0	10.0	01/27/2022	ND					

Surrogate: 1-Chlorooctane 75.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 69.5 % 59.5-142

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**Analytical Results For:**

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

Received: 01/24/2022  
 Reported: 01/28/2022  
 Project Name: CHICAGO 9-8 WOHE FED COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 01/24/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: WH 1 @ SURFACE (H220266-13)**

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	01/27/2022	ND	2.14	107	2.00	1.49		
Toluene*	<0.050	0.050	01/27/2022	ND	2.26	113	2.00	0.507		
Ethylbenzene*	<0.050	0.050	01/27/2022	ND	2.08	104	2.00	1.81		
Total Xylenes*	<0.150	0.150	01/27/2022	ND	6.47	108	6.00	1.95		
Total BTX	<0.300	0.300	01/27/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	01/26/2022	ND	432	108	400	7.69		

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	01/27/2022	ND	204	102	200	1.48	
DRO >C10-C28*	<10.0	10.0	01/27/2022	ND	187	93.4	200	3.44	
EXT DRO >C28-C36	<10.0	10.0	01/27/2022	ND					

Surrogate: 1-Chlorooctane 77.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 71.8 % 59.5-142

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**Analytical Results For:**

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

Received: 01/24/2022  
 Reported: 01/28/2022  
 Project Name: CHICAGO 9-8 WOHE FED COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 01/24/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: WH 1 @ 1' (H220266-14)**

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	01/27/2022	ND	2.14	107	2.00	1.49	
Toluene*	<0.050	0.050	01/27/2022	ND	2.26	113	2.00	0.507	
Ethylbenzene*	<0.050	0.050	01/27/2022	ND	2.08	104	2.00	1.81	
Total Xylenes*	<0.150	0.150	01/27/2022	ND	6.47	108	6.00	1.95	
Total BTX	<0.300	0.300	01/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	01/26/2022	ND	432	108	400	7.69		

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	01/27/2022	ND	204	102	200	1.48	
DRO >C10-C28*	<10.0	10.0	01/27/2022	ND	187	93.4	200	3.44	
EXT DRO >C28-C36	<10.0	10.0	01/27/2022	ND					

Surrogate: 1-Chlorooctane 83.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 74.0 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 01/24/2022  
 Reported: 01/28/2022  
 Project Name: CHICAGO 9-8 WOHE FED COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 01/24/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: WH 2 @ SURFACE (H220266-15)**

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	01/27/2022	ND	2.14	107	2.00	1.49	
Toluene*	<0.050	0.050	01/27/2022	ND	2.26	113	2.00	0.507	
Ethylbenzene*	<0.050	0.050	01/27/2022	ND	2.08	104	2.00	1.81	
Total Xylenes*	<0.150	0.150	01/27/2022	ND	6.47	108	6.00	1.95	
Total BTEx	<0.300	0.300	01/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	01/26/2022	ND	432	108	400	7.69		

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	01/27/2022	ND	204	102	200	1.48	
DRO >C10-C28*	<10.0	10.0	01/27/2022	ND	187	93.4	200	3.44	
EXT DRO >C28-C36	<10.0	10.0	01/27/2022	ND					

Surrogate: 1-Chlorooctane 77.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 71.7 % 59.5-142

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**Analytical Results For:**

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

Received: 01/24/2022  
 Reported: 01/28/2022  
 Project Name: CHICAGO 9-8 WOHE FED COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 01/24/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: WH 2 @ 1' (H220266-16)**

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	01/27/2022	ND	2.14	107	2.00	1.49	
Toluene*	<0.050	0.050	01/27/2022	ND	2.26	113	2.00	0.507	
Ethylbenzene*	<0.050	0.050	01/27/2022	ND	2.08	104	2.00	1.81	
Total Xylenes*	<0.150	0.150	01/27/2022	ND	6.47	108	6.00	1.95	
Total BTX	<0.300	0.300	01/27/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/26/2022	ND	432	108	400	7.69	

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	01/27/2022	ND	204	102	200	1.48	
DRO >C10-C28*	<10.0	10.0	01/27/2022	ND	187	93.4	200	3.44	
EXT DRO >C28-C36	<10.0	10.0	01/27/2022	ND					

Surrogate: 1-Chlorooctane 69.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 60.8 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	01/24/2022	Sampling Date:	01/24/2022
Reported:	01/28/2022	Sampling Type:	Soil
Project Name:	CHICAGO 9-8 WOHE FED COM 1	Sampling Condition:	** (See Notes)
Project Number:	15066	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

**Sample ID: SP 1 @ SURFACE (H220266-17)**

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	01/27/2022	ND	2.14	107	2.00	1.49		
Toluene*	<0.050	0.050	01/27/2022	ND	2.26	113	2.00	0.507		
Ethylbenzene*	<0.050	0.050	01/27/2022	ND	2.08	104	2.00	1.81		
Total Xylenes*	<0.150	0.150	01/27/2022	ND	6.47	108	6.00	1.95		
Total BTEx	<0.300	0.300	01/27/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	11800	16.0	01/26/2022	ND	432	108	400	7.69		

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	01/27/2022	ND	204	102	200	1.48	
DRO >C10-C28*	102	10.0	01/27/2022	ND	187	93.4	200	3.44	
EXT DRO >C28-C36	<10.0	10.0	01/27/2022	ND					

Surrogate: 1-Chlorooctane 79.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 79.4 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 01/24/2022  
 Reported: 01/28/2022  
 Project Name: CHICAGO 9-8 WOHE FED COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 01/24/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 1 @ 1' (H220266-18)**

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	01/27/2022	ND	2.14	107	2.00	1.49	
Toluene*	<0.050	0.050	01/27/2022	ND	2.26	113	2.00	0.507	
Ethylbenzene*	<0.050	0.050	01/27/2022	ND	2.08	104	2.00	1.81	
Total Xylenes*	<0.150	0.150	01/27/2022	ND	6.47	108	6.00	1.95	
Total BTX	<0.300	0.300	01/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	01/26/2022	ND	432	108	400	7.69	

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	01/27/2022	ND	204	102	200	1.48	
DRO >C10-C28*	<10.0	10.0	01/27/2022	ND	187	93.4	200	3.44	
EXT DRO >C28-C36	<10.0	10.0	01/27/2022	ND					

Surrogate: 1-Chlorooctane 86.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 80.0 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 01/24/2022  
 Reported: 01/28/2022  
 Project Name: CHICAGO 9-8 WOHE FED COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 01/24/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 2 @ SURFACE (H220266-19)**

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	01/27/2022	ND	2.14	107	2.00	1.49	
Toluene*	<0.050	0.050	01/27/2022	ND	2.26	113	2.00	0.507	
Ethylbenzene*	<0.050	0.050	01/27/2022	ND	2.08	104	2.00	1.81	
Total Xylenes*	<0.150	0.150	01/27/2022	ND	6.47	108	6.00	1.95	
Total BTX	<0.300	0.300	01/27/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	11800	16.0	01/26/2022	ND	432	108	400	7.69		

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	01/27/2022	ND	204	102	200	1.48	
DRO >C10-C28*	<10.0	10.0	01/27/2022	ND	187	93.4	200	3.44	
EXT DRO >C28-C36	<10.0	10.0	01/27/2022	ND					

Surrogate: 1-Chlorooctane 81.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 74.5 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 01/24/2022  
 Reported: 01/28/2022  
 Project Name: CHICAGO 9-8 WOHE FED COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 01/24/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 2 @ 1' (H220266-20)**

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	01/27/2022	ND	2.14	107	2.00	1.49	
Toluene*	<0.050	0.050	01/27/2022	ND	2.26	113	2.00	0.507	
Ethylbenzene*	<0.050	0.050	01/27/2022	ND	2.08	104	2.00	1.81	
Total Xylenes*	<0.150	0.150	01/27/2022	ND	6.47	108	6.00	1.95	
Total BTEX	<0.300	0.300	01/27/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	01/26/2022	ND	432	108	400	7.69	

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	01/27/2022	ND	196	98.0	200	8.76	
DRO >C10-C28*	<10.0	10.0	01/27/2022	ND	202	101	200	3.34	
EXT DRO >C28-C36	<10.0	10.0	01/27/2022	ND					

Surrogate: 1-Chlorooctane 91.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 92.2 % 59.5-142

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**Analytical Results For:**

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

Received:	01/24/2022	Sampling Date:	01/24/2022
Reported:	01/28/2022	Sampling Type:	Soil
Project Name:	CHICAGO 9-8 WOHE FED COM 1	Sampling Condition:	** (See Notes)
Project Number:	15066	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

**Sample ID: SP 3 @ SURFACE (H220266-21)**

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	01/27/2022	ND	2.13	107	2.00	4.69		
Toluene*	<0.050	0.050	01/27/2022	ND	2.19	110	2.00	0.630		
Ethylbenzene*	<0.050	0.050	01/27/2022	ND	2.06	103	2.00	1.56		
Total Xylenes*	<0.150	0.150	01/27/2022	ND	6.44	107	6.00	2.61		
Total BTEX	<0.300	0.300	01/27/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	560	16.0	01/26/2022	ND	432	108	400	7.69		

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	01/27/2022	ND	196	98.0	200	8.76	
DRO >C10-C28*	19.3	10.0	01/27/2022	ND	202	101	200	3.34	
EXT DRO >C28-C36	<10.0	10.0	01/27/2022	ND					

Surrogate: 1-Chlorooctane 77.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 78.3 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 01/24/2022  
 Reported: 01/28/2022  
 Project Name: CHICAGO 9-8 WOHE FED COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 01/24/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 3 @ 2' (H220266-22)**

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	01/27/2022	ND	2.13	107	2.00	4.69	
Toluene*	<0.050	0.050	01/27/2022	ND	2.19	110	2.00	0.630	
Ethylbenzene*	<0.050	0.050	01/27/2022	ND	2.06	103	2.00	1.56	
Total Xylenes*	<0.150	0.150	01/27/2022	ND	6.44	107	6.00	2.61	
Total BTEX	<0.300	0.300	01/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	01/26/2022	ND	432	108	400	7.69		

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	01/27/2022	ND	196	98.0	200	8.76	
DRO >C10-C28*	<10.0	10.0	01/27/2022	ND	202	101	200	3.34	
EXT DRO >C28-C36	<10.0	10.0	01/27/2022	ND					

Surrogate: 1-Chlorooctane 91.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 91.4 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	01/24/2022	Sampling Date:	01/24/2022
Reported:	01/28/2022	Sampling Type:	Soil
Project Name:	CHICAGO 9-8 WOHE FED COM 1	Sampling Condition:	** (See Notes)
Project Number:	15066	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

**Sample ID: SP 4 @ SURFACE (H220266-23)**

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	01/27/2022	ND	2.13	107	2.00	4.69	
Toluene*	<0.050	0.050	01/27/2022	ND	2.19	110	2.00	0.630	
Ethylbenzene*	<0.050	0.050	01/27/2022	ND	2.06	103	2.00	1.56	
Total Xylenes*	<0.150	0.150	01/27/2022	ND	6.44	107	6.00	2.61	
Total BTEX	<0.300	0.300	01/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1440	16.0	01/26/2022	ND	432	108	400	7.69		

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	01/27/2022	ND	196	98.0	200	8.76	
DRO >C10-C28*	<10.0	10.0	01/27/2022	ND	202	101	200	3.34	
EXT DRO >C28-C36	<10.0	10.0	01/27/2022	ND					

Surrogate: 1-Chlorooctane 95.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 97.0 % 59.5-142

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**Analytical Results For:**

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

Received: 01/24/2022  
 Reported: 01/28/2022  
 Project Name: CHICAGO 9-8 WOHE FED COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 01/24/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 4 @ 3' (H220266-24)**

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	01/27/2022	ND	2.13	107	2.00	4.69		
Toluene*	<0.050	0.050	01/27/2022	ND	2.19	110	2.00	0.630		
Ethylbenzene*	<0.050	0.050	01/27/2022	ND	2.06	103	2.00	1.56		
Total Xylenes*	<0.150	0.150	01/27/2022	ND	6.44	107	6.00	2.61		
Total BTEX	<0.300	0.300	01/27/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	01/26/2022	ND	432	108	400	7.69	

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	01/27/2022	ND	196	98.0	200	8.76	
DRO >C10-C28*	<10.0	10.0	01/27/2022	ND	202	101	200	3.34	
EXT DRO >C28-C36	<10.0	10.0	01/27/2022	ND					

Surrogate: 1-Chlorooctane 94.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 93.9 % 59.5-142

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\*=Accredited Analyte

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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



## ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 27 of 29

Released to Imaging: 6/9/2023 9:01:08 AM

Company Name: Etech Environmental & Safety Solutions, Inc. Project Manager: Joel Lowry Address: 2617 West Marland City: Hobbs State: NM Zip: 88240 Phone #: (575) 264-9884 Fax #: - Project #: 15066 Project Owner: Newbourn Project Name: Chicago 9-8 WOLF Fedcom 1 Project Location: Rural Eddy Co, NM Sampler Name: Miguel Ramirez				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>									
				P.O. #: Company Newbourn Attn: Address: City: State: Zip: Phone #: Fax #:		<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Chloride</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH (8015M)</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX (8021B)</div> </div>											
FOR LAB USE ONLY																MATRIX	
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							
H220266				G 1		X		X		1/24/24							
1 NH1 @ surface				↓		↓		↓		X X X							
2 NH1 @ 1'				↓		↓		↓									
3 NH2 @ surface				↓		↓		↓									
4 NH2 @ 1'				↓		↓		↓									
5 EH1 @ surface				↓		↓		↓									
6 EH1 @ 1'				↓		↓		↓									
7 EH2 @ surface				↓		↓		↓									
8 EH2 @ 1'				↓		↓		↓									
9 SH1 @ surface				↓		↓		↓									
10 SH1 @ 1'				↓		↓		↓									
<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: Date: 1/24/22 Time: 1515				Received By: Date: _____ Time: _____				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 #: _____ REMARKS: Standard									
Relinquished By: _____ Date: _____ Time: _____				Received By: _____ Date: _____ Time: _____				Please email copy of COC and results to pm@etechenv.com.									
Delivered By: (Circle One) 23.8°C / 0.5°C Sampler - UPS - Bus - Other: 23.3°C #13				Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No										CHECKED BY:			

FORM-006  
Revision 1.0

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





## ARDINAL LABORATORIES

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### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

~~Page 28 of 29~~

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																																	
Project Manager: Joel Lowry				P.O. #:				Chloride TPH (8015M) BTEX (8021B)																																	
Address: 2617 West Marland				Company: Newbourne																																					
City: Hobbs State: NM Zip: 88240				Attn:																																					
Phone #: (575) 264-9884 Fax #:				Address:																																					
Project #: 15066 Project Owner: Newbourne				City:																																					
Project Name: Chicago g. & WOH Fedcom 1				State: Zip:																																					
Project Location: Rural Eddy Co, NM				Phone #:																																					
Sampler Name: Miguel Ramirez				Fax #:																																					
FOR LAB USE ONLY						MATRIX		PRESERV.		SAMPLING																															
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER:		ACID/BASE:		ICE / COOL		OTHER:		DATE		TIME													
4220266				G		1		X		X		1/24/22				X		X		X																					
11 SH2 @ surface																																									
12 SH2 @ 1'																																									
13 WH1 @ surface																																									
14 WH1 @ 1'																																									
15 WH2 @ surface																																									
16 WH2 @ 1'																																									
17 SP1 @ surface																																									
18 SP1 @ 1'																																									
19 SP2 @ surface																																									
20 SP2 @ 1'																																									
<p>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.</p>																																									
Relinquished By: [Signature]				Date: 1-24-22				Received By: [Signature]				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Phone #:																									
Time: 1515												Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Fax #:																									
Relinquished By:				Date:				Received By:				REMARKS: Standard																													
Time:																																									
Delivered By: (Circle One) 23.8°C C-O.5°C				Sample Condition				CHECKED BY: (Initials)																																	
Cool intact																																									
Sampler - UPS - Bus - Other: 23.3°C #1/3				<input type="checkbox"/> Yes <input type="checkbox"/> No				YD																																	
				<input type="checkbox"/> Yes <input type="checkbox"/> No																																					
Please email copy of COC and results to pm@etechenv.com.																																									



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### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]





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

April 29, 2022

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: CHICAGO 9-8 W0HE FEE COM 1

Enclosed are the results of analyses for samples received by the laboratory on 04/26/22 16:48.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 04/26/2022  
 Reported: 04/29/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 04/26/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 1 @ 11 (H221717-01)**

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	04/28/2022	ND	2.05	103	2.00	0.293		
Toluene*	<0.050	0.050	04/28/2022	ND	2.04	102	2.00	0.237		
Ethylbenzene*	<0.050	0.050	04/28/2022	ND	1.93	96.3	2.00	1.04		
Total Xylenes*	<0.150	0.150	04/28/2022	ND	5.96	99.3	6.00	2.13		
Total BTX	<0.300	0.300	04/28/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	544	16.0	04/28/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/28/2022	ND	188	94.0	200	6.50	
DRO >C10-C28*	<10.0	10.0	04/28/2022	ND	184	91.8	200	2.15	
EXT DRO >C28-C36	<10.0	10.0	04/28/2022	ND					

Surrogate: 1-Chlorooctane 93.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 92.3 % 59.5-142

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 04/26/2022  
 Reported: 04/29/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 04/26/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 2 @ 11 (H221717-02)**

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	04/28/2022	ND	2.05	103	2.00	0.293		
Toluene*	<0.050	0.050	04/28/2022	ND	2.04	102	2.00	0.237		
Ethylbenzene*	<0.050	0.050	04/28/2022	ND	1.93	96.3	2.00	1.04		
Total Xylenes*	<0.150	0.150	04/28/2022	ND	5.96	99.3	6.00	2.13		
Total BTEX	<0.300	0.300	04/28/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	04/28/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/28/2022	ND	188	94.0	200	6.50	
DRO >C10-C28*	<10.0	10.0	04/28/2022	ND	184	91.8	200	2.15	
EXT DRO >C28-C36	<10.0	10.0	04/28/2022	ND					

Surrogate: 1-Chlorooctane 99.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 98.3 % 59.5-142

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

Received: 04/26/2022  
 Reported: 04/29/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 04/26/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 3 @ 11 (H221717-03)**

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	04/28/2022	ND	2.05	103	2.00	0.293		
Toluene*	<0.050	0.050	04/28/2022	ND	2.04	102	2.00	0.237		
Ethylbenzene*	<0.050	0.050	04/28/2022	ND	1.93	96.3	2.00	1.04		
Total Xylenes*	<0.150	0.150	04/28/2022	ND	5.96	99.3	6.00	2.13		
Total BTEX	<0.300	0.300	04/28/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	464	16.0	04/28/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/28/2022	ND	188	94.2	200	2.69	
DRO >C10-C28*	<10.0	10.0	04/28/2022	ND	212	106	200	2.58	
EXT DRO >C28-C36	<10.0	10.0	04/28/2022	ND					

Surrogate: 1-Chlorooctane 118 % 66.9-136

Surrogate: 1-Chlorooctadecane 132 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 04/26/2022  
 Reported: 04/29/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 04/26/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 4 @ 9 (H221717-04)**

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	04/28/2022	ND	2.09	105	2.00	0.574		
Toluene*	<0.050	0.050	04/28/2022	ND	2.06	103	2.00	0.270		
Ethylbenzene*	<0.050	0.050	04/28/2022	ND	2.07	103	2.00	0.415		
Total Xylenes*	<0.150	0.150	04/28/2022	ND	6.14	102	6.00	0.00863		
Total BTEX	<0.300	0.300	04/28/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	04/28/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/28/2022	ND	188	94.2	200	2.69	
DRO >C10-C28*	<10.0	10.0	04/28/2022	ND	212	106	200	2.58	
EXT DRO >C28-C36	<10.0	10.0	04/28/2022	ND					

Surrogate: 1-Chlorooctane 107 % 66.9-136

Surrogate: 1-Chlorooctadecane 121 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 04/26/2022  
 Reported: 04/29/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 04/26/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 5 @ 9 (H221717-05)**

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	04/28/2022	ND	2.09	105	2.00	0.574		
Toluene*	<0.050	0.050	04/28/2022	ND	2.06	103	2.00	0.270		
Ethylbenzene*	<0.050	0.050	04/28/2022	ND	2.07	103	2.00	0.415		
Total Xylenes*	<0.150	0.150	04/28/2022	ND	6.14	102	6.00	0.00863		
Total BTEx	<0.300	0.300	04/28/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	04/28/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/28/2022	ND	188	94.2	200	2.69	
DRO >C10-C28*	<10.0	10.0	04/28/2022	ND	212	106	200	2.58	
EXT DRO >C28-C36	<10.0	10.0	04/28/2022	ND					

Surrogate: 1-Chlorooctane 118 % 66.9-136

Surrogate: 1-Chlorooctadecane 137 % 59.5-142

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 04/26/2022  
 Reported: 04/29/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 04/26/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 6 @ 9 (H221717-06)**

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	04/28/2022	ND	2.09	105	2.00	0.574		
Toluene*	<0.050	0.050	04/28/2022	ND	2.06	103	2.00	0.270		
Ethylbenzene*	<0.050	0.050	04/28/2022	ND	2.07	103	2.00	0.415		
Total Xylenes*	<0.150	0.150	04/28/2022	ND	6.14	102	6.00	0.00863		
Total BTEx	<0.300	0.300	04/28/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	672	16.0	04/28/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/28/2022	ND	188	94.2	200	2.69	
DRO >C10-C28*	<10.0	10.0	04/28/2022	ND	212	106	200	2.58	
EXT DRO >C28-C36	<10.0	10.0	04/28/2022	ND					

Surrogate: 1-Chlorooctane 110 % 66.9-136

Surrogate: 1-Chlorooctadecane 126 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 04/26/2022  
 Reported: 04/29/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 04/26/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 7 @ 11 (H221717-07)**

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	04/28/2022	ND	2.09	105	2.00	0.574		
Toluene*	<0.050	0.050	04/28/2022	ND	2.06	103	2.00	0.270		
Ethylbenzene*	<0.050	0.050	04/28/2022	ND	2.07	103	2.00	0.415		
Total Xylenes*	<0.150	0.150	04/28/2022	ND	6.14	102	6.00	0.00863		
Total BTX	<0.300	0.300	04/28/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	04/28/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/28/2022	ND	188	94.2	200	2.69	
DRO >C10-C28*	<10.0	10.0	04/28/2022	ND	212	106	200	2.58	
EXT DRO >C28-C36	<10.0	10.0	04/28/2022	ND					

Surrogate: 1-Chlorooctane 121 % 66.9-136

Surrogate: 1-Chlorooctadecane 143 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 04/26/2022  
 Reported: 04/29/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 04/26/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 8 @ 11 (H221717-08)**

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	04/28/2022	ND	2.09	105	2.00	0.574		
Toluene*	<0.050	0.050	04/28/2022	ND	2.06	103	2.00	0.270		
Ethylbenzene*	<0.050	0.050	04/28/2022	ND	2.07	103	2.00	0.415		
Total Xylenes*	<0.150	0.150	04/28/2022	ND	6.14	102	6.00	0.00863		
Total BTEX	<0.300	0.300	04/28/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	04/28/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/28/2022	ND	188	94.2	200	2.69	
DRO >C10-C28*	<10.0	10.0	04/28/2022	ND	212	106	200	2.58	
EXT DRO >C28-C36	<10.0	10.0	04/28/2022	ND					

Surrogate: 1-Chlorooctane 122 % 66.9-136

Surrogate: 1-Chlorooctadecane 143 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 04/26/2022  
 Reported: 04/29/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 04/26/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 9 @ 11 (H221717-09)**

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	04/28/2022	ND	2.09	105	2.00	0.574		
Toluene*	<0.050	0.050	04/28/2022	ND	2.06	103	2.00	0.270		
Ethylbenzene*	<0.050	0.050	04/28/2022	ND	2.07	103	2.00	0.415		
Total Xylenes*	<0.150	0.150	04/28/2022	ND	6.14	102	6.00	0.00863		
Total BTEx	<0.300	0.300	04/28/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	04/28/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/28/2022	ND	188	94.2	200	2.69	
DRO >C10-C28*	<10.0	10.0	04/28/2022	ND	212	106	200	2.58	
EXT DRO >C28-C36	<10.0	10.0	04/28/2022	ND					

Surrogate: 1-Chlorooctane 113 % 66.9-136

Surrogate: 1-Chlorooctadecane 133 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 04/26/2022  
 Reported: 04/29/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 04/26/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 11 @ 12 (H221717-10)**

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	04/28/2022	ND	2.09	105	2.00	0.574		
Toluene*	<0.050	0.050	04/28/2022	ND	2.06	103	2.00	0.270		
Ethylbenzene*	<0.050	0.050	04/28/2022	ND	2.07	103	2.00	0.415		
Total Xylenes*	<0.150	0.150	04/28/2022	ND	6.14	102	6.00	0.00863		
Total BTEX	<0.300	0.300	04/28/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	04/28/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/28/2022	ND	188	94.2	200	2.69	
DRO >C10-C28*	<10.0	10.0	04/28/2022	ND	212	106	200	2.58	
EXT DRO >C28-C36	<10.0	10.0	04/28/2022	ND					

Surrogate: 1-Chlorooctane 119 % 66.9-136

Surrogate: 1-Chlorooctadecane 139 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 04/26/2022  
 Reported: 04/29/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 04/26/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 12 @ 12 (H221717-11)**

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	04/28/2022	ND	2.09	105	2.00	0.574	
Toluene*	<0.050	0.050	04/28/2022	ND	2.06	103	2.00	0.270	
Ethylbenzene*	<0.050	0.050	04/28/2022	ND	2.07	103	2.00	0.415	
Total Xylenes*	<0.150	0.150	04/28/2022	ND	6.14	102	6.00	0.00863	
Total BTX	<0.300	0.300	04/28/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	04/28/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/28/2022	ND	188	94.2	200	2.69	
DRO >C10-C28*	<10.0	10.0	04/28/2022	ND	212	106	200	2.58	
EXT DRO >C28-C36	<10.0	10.0	04/28/2022	ND					

Surrogate: 1-Chlorooctane 116 % 66.9-136

Surrogate: 1-Chlorooctadecane 136 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 04/26/2022  
 Reported: 04/29/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 04/26/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW 1 (H221717-12)**

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	04/28/2022	ND	2.09	105	2.00	0.574	
Toluene*	<0.050	0.050	04/28/2022	ND	2.06	103	2.00	0.270	
Ethylbenzene*	<0.050	0.050	04/28/2022	ND	2.07	103	2.00	0.415	
Total Xylenes*	<0.150	0.150	04/28/2022	ND	6.14	102	6.00	0.00863	
Total BTEX	<0.300	0.300	04/28/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	04/28/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/28/2022	ND	188	94.2	200	2.69	
DRO >C10-C28*	<10.0	10.0	04/28/2022	ND	212	106	200	2.58	
EXT DRO >C28-C36	<10.0	10.0	04/28/2022	ND					

Surrogate: 1-Chlorooctane 103 % 66.9-136

Surrogate: 1-Chlorooctadecane 120 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 04/26/2022  
 Reported: 04/29/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 04/26/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: WW 1 (H221717-13)**

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	04/28/2022	ND	2.09	105	2.00	0.574		
Toluene*	<0.050	0.050	04/28/2022	ND	2.06	103	2.00	0.270		
Ethylbenzene*	<0.050	0.050	04/28/2022	ND	2.07	103	2.00	0.415		
Total Xylenes*	<0.150	0.150	04/28/2022	ND	6.14	102	6.00	0.00863		
Total BTX	<0.300	0.300	04/28/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	04/28/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/28/2022	ND	188	94.2	200	2.69	
DRO >C10-C28*	<10.0	10.0	04/28/2022	ND	212	106	200	2.58	
EXT DRO >C28-C36	<10.0	10.0	04/28/2022	ND					

Surrogate: 1-Chlorooctane 121 % 66.9-136

Surrogate: 1-Chlorooctadecane 142 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 04/26/2022  
 Reported: 04/29/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 04/26/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: EW 1 (H221717-14)**

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	04/28/2022	ND	2.09	105	2.00	0.574		
Toluene*	<0.050	0.050	04/28/2022	ND	2.06	103	2.00	0.270		
Ethylbenzene*	<0.050	0.050	04/28/2022	ND	2.07	103	2.00	0.415		
Total Xylenes*	<0.150	0.150	04/28/2022	ND	6.14	102	6.00	0.00863		
Total BTEx	<0.300	0.300	04/28/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	448	16.0	04/28/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/28/2022	ND	188	94.2	200	2.69	
DRO >C10-C28*	<10.0	10.0	04/28/2022	ND	212	106	200	2.58	
EXT DRO >C28-C36	<10.0	10.0	04/28/2022	ND					

Surrogate: 1-Chlorooctane 117 % 66.9-136

Surrogate: 1-Chlorooctadecane 139 % 59.5-142

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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.
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

**ARDINAL LABORATORIES**

**101 East Marland, Hobbs, NM 88240**

**(575) 393-2326 FAX (575) 393-2476**

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 17 of 18

Company Name: Etech Environmental & Safety Solutions, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																			
Project Manager: Joel Lowry				P.O. #:				Chloride TPH (8015M) BTEX (8021B)																			
Address: P.O. Box 301				Company: E tech																							
City: Lovington State: NM Zip: 88260				Attn:																							
Phone #: (575) 396-2378 Fax #: (575) 396-1429				Address:																							
Project #: Project Owner:				City: Hobbs																							
Project Name: Chicago 9-8 WOHF Fee COM 1				State: NM Zip: 88240																							
Project Location: Rural Loving				Phone #: 432 0446 4450																							
Sampler Name: Dominic Casarez				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															
1		FL 1 @ 11																									
2		FL 2 @ 11																									
3		FL 3 @ 11																									
4		FL 4 @ 9																									
5		FL 5 @ 9																									
6		FL 6 @ 9																									
7		FL 7 @ 11																									
8		FL 8 @ 11																									
9		FL 9 @ 11																									
10		FL 10 @ 12																									
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Relinquished By: [Signature]				Date: 4/24/02 Time: 10:48		Received By: [Signature]				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:													
Relinquished By:				Date:		Received By:				REMARKS:																	
				Time:																							
Delivered By: (Circle One) 24.2% C-0.5%				Sample Condition		CHECKED BY: (Initials)				Please email results to pm@etechenv.com.																	
Sampler - UPS - Bus - Other: 23.8% #113				Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No		[Signature]																					

FORM-006  
Revision 1.0

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



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## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

FORM-006  
Revision 1.0

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





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---

May 04, 2022

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: CHICAGO 9-8 W0HE FEE COM 1

Enclosed are the results of analyses for samples received by the laboratory on 04/29/22 16:08.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 04/29/2022  
 Reported: 05/04/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 04/29/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 6 @ 10' (H221792-01)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	05/03/2022	ND	416	104	400	3.77		

**Sample ID: EW 2 (H221792-02)**

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	05/02/2022	ND	1.95	97.7	2.00	6.05	
Toluene*	<0.050	0.050	05/02/2022	ND	1.94	97.1	2.00	5.75	
Ethylbenzene*	<0.050	0.050	05/02/2022	ND	1.84	91.8	2.00	6.26	
Total Xylenes*	<0.150	0.150	05/02/2022	ND	5.75	95.8	6.00	5.70	
Total BTEx	<0.300	0.300	05/02/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	784	16.0	05/03/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/02/2022	ND	212	106	200	5.26	
DRO >C10-C28*	<10.0	10.0	05/02/2022	ND	216	108	200	6.00	
EXT DRO >C28-C36	<10.0	10.0	05/02/2022	ND					

Surrogate: 1-Chlorooctane 96.9 % 66.9-136

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 04/29/2022  
 Reported: 05/04/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 04/28/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: EW 2 (H221792-02)**

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Surrogate: 1-Chlorooctadecane	98.8 %	59.5-142								

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 04/29/2022  
 Reported: 05/04/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 04/29/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: WW 2 (H221792-03)**

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	05/02/2022	ND	1.95	97.7	2.00	6.05		
Toluene*	<0.050	0.050	05/02/2022	ND	1.94	97.1	2.00	5.75		
Ethylbenzene*	<0.050	0.050	05/02/2022	ND	1.84	91.8	2.00	6.26		
Total Xylenes*	<0.150	0.150	05/02/2022	ND	5.75	95.8	6.00	5.70		
Total BTEX	<0.300	0.300	05/02/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	880	16.0	05/03/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/02/2022	ND	212	106	200	5.26	
DRO >C10-C28*	<10.0	10.0	05/02/2022	ND	216	108	200	6.00	
EXT DRO >C28-C36	<10.0	10.0	05/02/2022	ND					

Surrogate: 1-Chlorooctane 92.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 93.4 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 04/29/2022  
 Reported: 05/04/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 04/28/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 10 @ 11' (H221792-04)**

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	05/02/2022	ND	1.95	97.7	2.00	6.05		
Toluene*	<0.050	0.050	05/02/2022	ND	1.94	97.1	2.00	5.75		
Ethylbenzene*	<0.050	0.050	05/02/2022	ND	1.84	91.8	2.00	6.26		
Total Xylenes*	<0.150	0.150	05/02/2022	ND	5.75	95.8	6.00	5.70		
Total BTEX	<0.300	0.300	05/02/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	05/03/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/02/2022	ND	212	106	200	5.26	
DRO >C10-C28*	<10.0	10.0	05/02/2022	ND	216	108	200	6.00	
EXT DRO >C28-C36	<10.0	10.0	05/02/2022	ND					

Surrogate: 1-Chlorooctane 83.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 83.5 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 04/29/2022  
 Reported: 05/04/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 04/28/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 16 @ 12' (H221792-05)**

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	05/02/2022	ND	1.95	97.7	2.00	6.05		
Toluene*	<0.050	0.050	05/02/2022	ND	1.94	97.1	2.00	5.75		
Ethylbenzene*	<0.050	0.050	05/02/2022	ND	1.84	91.8	2.00	6.26		
Total Xylenes*	<0.150	0.150	05/02/2022	ND	5.75	95.8	6.00	5.70		
Total BTEX	<0.300	0.300	05/02/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	448	16.0	05/03/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/02/2022	ND	212	106	200	5.26	
DRO >C10-C28*	<10.0	10.0	05/02/2022	ND	216	108	200	6.00	
EXT DRO >C28-C36	<10.0	10.0	05/02/2022	ND					

Surrogate: 1-Chlorooctane 97.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 99.6 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 04/29/2022  
 Reported: 05/04/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 04/29/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 17 @ 11' (H221792-06)**

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	05/02/2022	ND	1.95	97.7	2.00	6.05		
Toluene*	<0.050	0.050	05/02/2022	ND	1.94	97.1	2.00	5.75		
Ethylbenzene*	<0.050	0.050	05/02/2022	ND	1.84	91.8	2.00	6.26		
Total Xylenes*	<0.150	0.150	05/02/2022	ND	5.75	95.8	6.00	5.70		
Total BTEX	<0.300	0.300	05/02/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	800	16.0	05/03/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/02/2022	ND	212	106	200	5.26	
DRO >C10-C28*	<10.0	10.0	05/02/2022	ND	216	108	200	6.00	
EXT DRO >C28-C36	<10.0	10.0	05/02/2022	ND					

Surrogate: 1-Chlorooctane 99.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 99.7 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 04/29/2022  
 Reported: 05/04/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 04/28/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 18 @ 11' (H221792-07)**

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	05/02/2022	ND	1.95	97.7	2.00	6.05		
Toluene*	<0.050	0.050	05/02/2022	ND	1.94	97.1	2.00	5.75		
Ethylbenzene*	<0.050	0.050	05/02/2022	ND	1.84	91.8	2.00	6.26		
Total Xylenes*	<0.150	0.150	05/02/2022	ND	5.75	95.8	6.00	5.70		
Total BTEX	<0.300	0.300	05/02/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	560	16.0	05/03/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/02/2022	ND	212	106	200	5.26	
DRO >C10-C28*	<10.0	10.0	05/02/2022	ND	216	108	200	6.00	
EXT DRO >C28-C36	<10.0	10.0	05/02/2022	ND					

Surrogate: 1-Chlorooctane 93.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 94.4 % 59.5-142

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 04/29/2022  
 Reported: 05/04/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 04/29/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 19 @ 8' (H221792-08)**

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	05/02/2022	ND	1.95	97.7	2.00	6.05		
Toluene*	<0.050	0.050	05/02/2022	ND	1.94	97.1	2.00	5.75		
Ethylbenzene*	<0.050	0.050	05/02/2022	ND	1.84	91.8	2.00	6.26		
Total Xylenes*	<0.150	0.150	05/02/2022	ND	5.75	95.8	6.00	5.70		
Total BTX	<0.300	0.300	05/02/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	528	16.0	05/03/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/02/2022	ND	212	106	200	5.26	
DRO >C10-C28*	<10.0	10.0	05/02/2022	ND	216	108	200	6.00	
EXT DRO >C28-C36	<10.0	10.0	05/02/2022	ND					

Surrogate: 1-Chlorooctane 94.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 95.9 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 04/29/2022  
 Reported: 05/04/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 04/29/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 20 @ 7' (H221792-09)**

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	05/02/2022	ND	1.95	97.7	2.00	6.05		
Toluene*	<0.050	0.050	05/02/2022	ND	1.94	97.1	2.00	5.75		
Ethylbenzene*	<0.050	0.050	05/02/2022	ND	1.84	91.8	2.00	6.26		
Total Xylenes*	<0.150	0.150	05/02/2022	ND	5.75	95.8	6.00	5.70		
Total BTEx	<0.300	0.300	05/02/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	05/03/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/02/2022	ND	212	106	200	5.26	
DRO >C10-C28*	<10.0	10.0	05/02/2022	ND	216	108	200	6.00	
EXT DRO >C28-C36	<10.0	10.0	05/02/2022	ND					

Surrogate: 1-Chlorooctane 98.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 100 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 04/29/2022  
 Reported: 05/04/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 04/29/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 21 @ 7' (H221792-10)**

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	05/02/2022	ND	1.95	97.7	2.00	6.05		
Toluene*	<0.050	0.050	05/02/2022	ND	1.94	97.1	2.00	5.75		
Ethylbenzene*	<0.050	0.050	05/02/2022	ND	1.84	91.8	2.00	6.26		
Total Xylenes*	<0.150	0.150	05/02/2022	ND	5.75	95.8	6.00	5.70		
Total BTX	<0.300	0.300	05/02/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	05/03/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/02/2022	ND	212	106	200	5.26	
DRO >C10-C28*	<10.0	10.0	05/02/2022	ND	216	108	200	6.00	
EXT DRO >C28-C36	<10.0	10.0	05/02/2022	ND					

Surrogate: 1-Chlorooctane 94.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 97.3 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 04/29/2022  
 Reported: 05/04/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 04/29/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 22 @ 8' (H221792-11)**

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	05/02/2022	ND	1.95	97.7	2.00	6.05		
Toluene*	<0.050	0.050	05/02/2022	ND	1.94	97.1	2.00	5.75		
Ethylbenzene*	<0.050	0.050	05/02/2022	ND	1.84	91.8	2.00	6.26		
Total Xylenes*	<0.150	0.150	05/02/2022	ND	5.75	95.8	6.00	5.70		
Total BTEx	<0.300	0.300	05/02/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	544	16.0	05/03/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/02/2022	ND	212	106	200	5.26	
DRO >C10-C28*	<10.0	10.0	05/02/2022	ND	216	108	200	6.00	
EXT DRO >C28-C36	<10.0	10.0	05/02/2022	ND					

Surrogate: 1-Chlorooctane 95.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 96.2 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 04/29/2022  
 Reported: 05/04/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 04/29/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 23 @ 7' (H221792-12)**

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	05/02/2022	ND	1.95	97.7	2.00	6.05		
Toluene*	<0.050	0.050	05/02/2022	ND	1.94	97.1	2.00	5.75		
Ethylbenzene*	<0.050	0.050	05/02/2022	ND	1.84	91.8	2.00	6.26		
Total Xylenes*	<0.150	0.150	05/02/2022	ND	5.75	95.8	6.00	5.70		
Total BTX	<0.300	0.300	05/02/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	05/03/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/02/2022	ND	212	106	200	5.26	
DRO >C10-C28*	<10.0	10.0	05/02/2022	ND	216	108	200	6.00	
EXT DRO >C28-C36	<10.0	10.0	05/02/2022	ND					

Surrogate: 1-Chlorooctane 101 % 66.9-136

Surrogate: 1-Chlorooctadecane 102 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 04/29/2022  
 Reported: 05/04/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 04/29/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 24 @ 7' (H221792-13)**

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	05/02/2022	ND	1.95	97.7	2.00	6.05		
Toluene*	<0.050	0.050	05/02/2022	ND	1.94	97.1	2.00	5.75		
Ethylbenzene*	<0.050	0.050	05/02/2022	ND	1.84	91.8	2.00	6.26		
Total Xylenes*	<0.150	0.150	05/02/2022	ND	5.75	95.8	6.00	5.70		
Total BTX	<0.300	0.300	05/02/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	05/03/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/02/2022	ND	212	106	200	5.26	
DRO >C10-C28*	<10.0	10.0	05/02/2022	ND	216	108	200	6.00	
EXT DRO >C28-C36	<10.0	10.0	05/02/2022	ND					

Surrogate: 1-Chlorooctane 100 % 66.9-136

Surrogate: 1-Chlorooctadecane 103 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 04/29/2022  
 Reported: 05/04/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 04/29/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 25 @ 7' (H221792-14)**

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	05/02/2022	ND	1.95	97.7	2.00	6.05		
Toluene*	<0.050	0.050	05/02/2022	ND	1.94	97.1	2.00	5.75		
Ethylbenzene*	<0.050	0.050	05/02/2022	ND	1.84	91.8	2.00	6.26		
Total Xylenes*	<0.150	0.150	05/02/2022	ND	5.75	95.8	6.00	5.70		
Total BTEX	<0.300	0.300	05/02/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	05/03/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2022	ND	212	106	200	5.26	
DRO >C10-C28*	<10.0	10.0	05/03/2022	ND	216	108	200	6.00	
EXT DRO >C28-C36	<10.0	10.0	05/03/2022	ND					

Surrogate: 1-Chlorooctane 97.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 97.3 % 59.5-142

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**Analytical Results For:**

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

Received: 04/29/2022  
 Reported: 05/04/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 04/29/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 26 @ 7' (H221792-15)**

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	05/02/2022	ND	1.95	97.7	2.00	6.05		
Toluene*	<0.050	0.050	05/02/2022	ND	1.94	97.1	2.00	5.75		
Ethylbenzene*	<0.050	0.050	05/02/2022	ND	1.84	91.8	2.00	6.26		
Total Xylenes*	<0.150	0.150	05/02/2022	ND	5.75	95.8	6.00	5.70		
Total BTEx	<0.300	0.300	05/02/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	05/03/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/02/2022	ND	204	102	200	2.43	
DRO >C10-C28*	<10.0	10.0	05/02/2022	ND	227	113	200	0.127	
EXT DRO >C28-C36	<10.0	10.0	05/02/2022	ND					

Surrogate: 1-Chlorooctane 119 % 66.9-136

Surrogate: 1-Chlorooctadecane 136 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 04/29/2022  
 Reported: 05/04/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 04/29/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 27 @ 7' (H221792-16)**

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	05/02/2022	ND	1.95	97.7	2.00	6.05		
Toluene*	<0.050	0.050	05/02/2022	ND	1.94	97.1	2.00	5.75		
Ethylbenzene*	<0.050	0.050	05/02/2022	ND	1.84	91.8	2.00	6.26		
Total Xylenes*	<0.150	0.150	05/02/2022	ND	5.75	95.8	6.00	5.70		
Total BTX	<0.300	0.300	05/02/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	05/03/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/02/2022	ND	204	102	200	2.43	
DRO >C10-C28*	<10.0	10.0	05/02/2022	ND	227	113	200	0.127	
EXT DRO >C28-C36	<10.0	10.0	05/02/2022	ND					

Surrogate: 1-Chlorooctane 105 % 66.9-136

Surrogate: 1-Chlorooctadecane 119 % 59.5-142

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 04/29/2022  
 Reported: 05/04/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 04/29/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 28 @ 7' (H221792-17)**

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	05/02/2022	ND	1.95	97.7	2.00	6.05		
Toluene*	<0.050	0.050	05/02/2022	ND	1.94	97.1	2.00	5.75		
Ethylbenzene*	<0.050	0.050	05/02/2022	ND	1.84	91.8	2.00	6.26		
Total Xylenes*	<0.150	0.150	05/02/2022	ND	5.75	95.8	6.00	5.70		
Total BTEx	<0.300	0.300	05/02/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	05/03/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/02/2022	ND	204	102	200	2.43	
DRO >C10-C28*	<10.0	10.0	05/02/2022	ND	227	113	200	0.127	
EXT DRO >C28-C36	<10.0	10.0	05/02/2022	ND					

Surrogate: 1-Chlorooctane 109 % 66.9-136

Surrogate: 1-Chlorooctadecane 123 % 59.5-142

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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.
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

**ARDINAL LABORATORIES**

**101 East Marland, Hobbs, NM 88240**

**(575) 393-2326 FAX (575) 393-2476**

No Rush

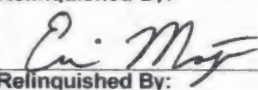
## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

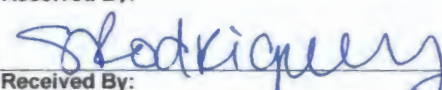
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~~Page 20 of 24~~

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST															
Project Manager: Lance Crenshaw				P.O. #:				Chloride	TPH (8015M)	BTEX (8021B)													
Address: 2617 W Marland				Company: Mowbourn																			
City: Hobbs State: NM Zip: 88240				Attn: Robbie Runnels																			
Phone #: (575) 264-9884 Fax #:				Address: 1801 Business Park Blvd																			
Project #: 15066 Project Owner: Robbie Runnels				City: Hobbs																			
Project Name: Chicago 9-8 NOHE Fee Com 1H				State: NM Zip: 88240																			
Project Location: Mowbourn Oil Company				Phone #:																			
Sampler Name: Eric Mojica				Fax #:																			
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING															
Lab I.D.	Sample I.D.	(G)RAB OR (C)COMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE	ICE / GEL	OTHER:	DATE	TIME									
1	FS 6e10	C	1			✓				✓			4-29-22		✓								
2	EW2	C	1			✓				✓			4-28-22		✓	✓	✓						
3	WW2	C	1			✓				✓			4-29-22		✓	✓	✓						
4	FS 10e11	C	1			✓				✓			4-28-22		✓	✓	✓						
5	FS 16e12	C	1			✓				✓			4-28-22		✓	✓	✓						
6	FS 17e11	C	1			✓				✓			4-29-22		✓	✓	✓						
7	FS 18e11	C	1			✓				✓			4-28-22		✓	✓	✓						
8	FS 19e8	C	1			✓				✓			4-29-22		✓	✓	✓						
9	FS 20e7	C	1			✓				✓					✓	✓	✓						
10	FS 21e7	C	1			✓				✓					✓	✓	✓						


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Relinquished By: 
Date: 4-29-22  
Time: 11:08

Received By: 
Date: \_\_\_\_\_  
Time: \_\_\_\_\_

Delivered By: (Circle One) 11.50 x 0.50  
Sampler - UPS - Bus - Other: 11.00 #113

Sample Condition  
Cool Intact  
☐ Yes ☒ No  
☐ Yes ☒ No

CHECKED BY: (Initials)  


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

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



**ARDINAL LABORATORIES**

**101 East Marland, Hobbs, NM 88240**

**(575) 393-2326 FAX (575) 393-2476**

No Rush

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Page 24 of 21

[illegible]

FORM-006  
Revision 1.0

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



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

May 10, 2022

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: CHICAGO 9-8 W0HE FEE COM 1

Enclosed are the results of analyses for samples received by the laboratory on 05/03/22 16:13.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 05/03/2022  
 Reported: 05/10/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 05/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: EW 3 (H221851-01)**

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	05/08/2022	ND	2.18	109	2.00	1.16	
Toluene*	<0.050	0.050	05/08/2022	ND	2.14	107	2.00	1.41	
Ethylbenzene*	<0.050	0.050	05/08/2022	ND	2.08	104	2.00	1.77	
Total Xylenes*	<0.150	0.150	05/08/2022	ND	6.43	107	6.00	1.22	
Total BTEX	<0.300	0.300	05/08/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	05/06/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/10/2022	ND	198	98.8	200	5.89	
DRO >C10-C28*	<10.0	10.0	05/10/2022	ND	207	104	200	5.77	
EXT DRO >C28-C36	<10.0	10.0	05/10/2022	ND					

Surrogate: 1-Chlorooctane 92.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 97.4 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 05/03/2022  
 Reported: 05/10/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 05/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: WW 3 (H221851-02)**

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	05/08/2022	ND	2.18	109	2.00	1.16		
Toluene*	<0.050	0.050	05/08/2022	ND	2.14	107	2.00	1.41		
Ethylbenzene*	<0.050	0.050	05/08/2022	ND	2.08	104	2.00	1.77		
Total Xylenes*	<0.150	0.150	05/08/2022	ND	6.43	107	6.00	1.22		
Total BTEx	<0.300	0.300	05/08/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	05/06/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/06/2022	ND	198	98.8	200	5.89	
DRO >C10-C28*	<10.0	10.0	05/06/2022	ND	207	104	200	5.77	
EXT DRO >C28-C36	<10.0	10.0	05/06/2022	ND					

Surrogate: 1-Chlorooctane 75.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 81.2 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 05/03/2022  
 Reported: 05/10/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 05/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 29 @ 7' (H221851-03)**

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	05/08/2022	ND	2.18	109	2.00	1.16		
Toluene*	<0.050	0.050	05/08/2022	ND	2.14	107	2.00	1.41		
Ethylbenzene*	<0.050	0.050	05/08/2022	ND	2.08	104	2.00	1.77		
Total Xylenes*	<0.150	0.150	05/08/2022	ND	6.43	107	6.00	1.22		
Total BTX	<0.300	0.300	05/08/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	05/06/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/06/2022	ND	198	98.8	200	5.89	
DRO >C10-C28*	<10.0	10.0	05/06/2022	ND	207	104	200	5.77	
EXT DRO >C28-C36	<10.0	10.0	05/06/2022	ND					

Surrogate: 1-Chlorooctane 82.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 87.4 % 59.5-142

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 05/03/2022  
 Reported: 05/10/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 05/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 30 @ 7' (H221851-04)**

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	05/08/2022	ND	2.18	109	2.00	1.16		
Toluene*	<0.050	0.050	05/08/2022	ND	2.14	107	2.00	1.41		
Ethylbenzene*	<0.050	0.050	05/08/2022	ND	2.08	104	2.00	1.77		
Total Xylenes*	<0.150	0.150	05/08/2022	ND	6.43	107	6.00	1.22		
Total BTX	<0.300	0.300	05/08/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	05/06/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/06/2022	ND	198	98.8	200	5.89	
DRO >C10-C28*	<10.0	10.0	05/06/2022	ND	207	104	200	5.77	
EXT DRO >C28-C36	<10.0	10.0	05/06/2022	ND					

Surrogate: 1-Chlorooctane 78.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 83.5 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 05/03/2022  
 Reported: 05/10/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 05/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 31 @ 7' (H221851-05)**

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	05/08/2022	ND	2.18	109	2.00	1.16	
Toluene*	<0.050	0.050	05/08/2022	ND	2.14	107	2.00	1.41	
Ethylbenzene*	<0.050	0.050	05/08/2022	ND	2.08	104	2.00	1.77	
Total Xylenes*	<0.150	0.150	05/08/2022	ND	6.43	107	6.00	1.22	
Total BTX	<0.300	0.300	05/08/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	432	16.0	05/06/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/06/2022	ND	198	98.8	200	5.89	
DRO >C10-C28*	<10.0	10.0	05/06/2022	ND	207	104	200	5.77	
EXT DRO >C28-C36	<10.0	10.0	05/06/2022	ND					

Surrogate: 1-Chlorooctane 87.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 93.6 % 59.5-142

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 05/03/2022  
 Reported: 05/10/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 05/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 32 @ 7' (H221851-06)**

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	05/08/2022	ND	2.18	109	2.00	1.16	
Toluene*	<0.050	0.050	05/08/2022	ND	2.14	107	2.00	1.41	
Ethylbenzene*	<0.050	0.050	05/08/2022	ND	2.08	104	2.00	1.77	
Total Xylenes*	<0.150	0.150	05/08/2022	ND	6.43	107	6.00	1.22	
Total BTX	<0.300	0.300	05/08/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	464	16.0	05/06/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/06/2022	ND	220	110	200	8.45	
DRO >C10-C28*	<10.0	10.0	05/06/2022	ND	209	105	200	6.10	
EXT DRO >C28-C36	<10.0	10.0	05/06/2022	ND					

Surrogate: 1-Chlorooctane 89.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 93.5 % 59.5-142

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 05/03/2022  
 Reported: 05/10/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 05/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 33 @ 7' (H221851-07)**

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	05/05/2022	ND	2.13	106	2.00	2.91	
Toluene*	<0.050	0.050	05/05/2022	ND	2.12	106	2.00	2.80	
Ethylbenzene*	<0.050	0.050	05/05/2022	ND	2.08	104	2.00	3.06	
Total Xylenes*	<0.150	0.150	05/05/2022	ND	6.42	107	6.00	3.34	
Total BTX	<0.300	0.300	05/05/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	05/06/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/06/2022	ND	220	110	200	8.45	
DRO >C10-C28*	<10.0	10.0	05/06/2022	ND	209	105	200	6.10	
EXT DRO >C28-C36	<10.0	10.0	05/06/2022	ND					

Surrogate: 1-Chlorooctane 91.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 94.6 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 05/03/2022  
 Reported: 05/10/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 05/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 34 @ 7' (H221851-08)**

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	05/06/2022	ND	2.26	113	2.00	10.6		
Toluene*	<0.050	0.050	05/06/2022	ND	2.23	112	2.00	10.5		
Ethylbenzene*	<0.050	0.050	05/06/2022	ND	2.18	109	2.00	10.7		
Total Xylenes*	<0.150	0.150	05/06/2022	ND	6.72	112	6.00	9.79		
Total BTX	<0.300	0.300	05/06/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	05/06/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/06/2022	ND	220	110	200	8.45	
DRO >C10-C28*	<10.0	10.0	05/06/2022	ND	209	105	200	6.10	
EXT DRO >C28-C36	<10.0	10.0	05/06/2022	ND					

Surrogate: 1-Chlorooctane 91.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 93.3 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 05/03/2022  
 Reported: 05/10/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 05/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 35 @ 7' (H221851-09)**

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	05/06/2022	ND	2.26	113	2.00	10.6		
Toluene*	<0.050	0.050	05/06/2022	ND	2.23	112	2.00	10.5		
Ethylbenzene*	<0.050	0.050	05/06/2022	ND	2.18	109	2.00	10.7		
Total Xylenes*	<0.150	0.150	05/06/2022	ND	6.72	112	6.00	9.79		
Total BTEx	<0.300	0.300	05/06/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	05/06/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/06/2022	ND	220	110	200	8.45	
DRO >C10-C28*	<10.0	10.0	05/06/2022	ND	209	105	200	6.10	
EXT DRO >C28-C36	<10.0	10.0	05/06/2022	ND					

Surrogate: 1-Chlorooctane 85.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 88.4 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 05/03/2022  
 Reported: 05/10/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 05/03/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 36 @ 7' (H221851-10)**

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	05/06/2022	ND	2.26	113	2.00	10.6		
Toluene*	<0.050	0.050	05/06/2022	ND	2.23	112	2.00	10.5		
Ethylbenzene*	<0.050	0.050	05/06/2022	ND	2.18	109	2.00	10.7		
Total Xylenes*	<0.150	0.150	05/06/2022	ND	6.72	112	6.00	9.79		
Total BTEX	<0.300	0.300	05/06/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	560	16.0	05/06/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/06/2022	ND	220	110	200	8.45	
DRO >C10-C28*	<10.0	10.0	05/06/2022	ND	209	105	200	6.10	
EXT DRO >C28-C36	<10.0	10.0	05/06/2022	ND					

Surrogate: 1-Chlorooctane 81.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 81.9 % 59.5-142

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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.
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

**ARDINAL LABORATORIES**

**101 East Marland, Hobbs, NM 88240**

**(575) 393-2326 FAX (575) 393-2476**

No Rush

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1 of

Page 13 of 13

[illegible]



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

May 11, 2022

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: CHICAGO 9-8 W0HE FEE COM 1

Enclosed are the results of analyses for samples received by the laboratory on 05/05/22 15:38.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 05/05/2022  
 Reported: 05/11/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 05/05/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: EW 2 A (H221909-01)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	05/10/2022	ND	416	104	400	0.00		

**Sample ID: WW 2 A (H221909-02)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	05/10/2022	ND	416	104	400	0.00		

**Sample ID: FS 17 @ 19' (H221909-03)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	448	16.0	05/10/2022	ND	416	104	400	0.00		

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 05/05/2022  
 Reported: 05/11/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 05/05/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: EW 4 (H221909-04)**

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	05/10/2022	ND	2.05	103	2.00	0.697	
Toluene*	<0.050	0.050	05/10/2022	ND	2.03	101	2.00	0.736	
Ethylbenzene*	<0.050	0.050	05/10/2022	ND	1.92	95.8	2.00	1.15	
Total Xylenes*	<0.150	0.150	05/10/2022	ND	6.01	100	6.00	2.03	
Total BTX	<0.300	0.300	05/10/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	05/10/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/10/2022	ND	191	95.7	200	3.78	
DRO >C10-C28*	<10.0	10.0	05/10/2022	ND	199	99.6	200	6.13	
EXT DRO >C28-C36	<10.0	10.0	05/10/2022	ND					

Surrogate: 1-Chlorooctane 81.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 95.2 % 59.5-142

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 05/05/2022  
 Reported: 05/11/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 05/05/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: WW 4 (H221909-05)**

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	05/10/2022	ND	2.05	103	2.00	0.697		
Toluene*	<0.050	0.050	05/10/2022	ND	2.03	101	2.00	0.736		
Ethylbenzene*	<0.050	0.050	05/10/2022	ND	1.92	95.8	2.00	1.15		
Total Xylenes*	<0.150	0.150	05/10/2022	ND	6.01	100	6.00	2.03		
Total BTEx	<0.300	0.300	05/10/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	05/10/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/10/2022	ND	191	95.7	200	3.78	
DRO >C10-C28*	<10.0	10.0	05/10/2022	ND	199	99.6	200	6.13	
EXT DRO >C28-C36	<10.0	10.0	05/10/2022	ND					

Surrogate: 1-Chlorooctane 85.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 98.9 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 05/05/2022  
 Reported: 05/11/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 05/04/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 37 @ 7' (H221909-06)**

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	05/10/2022	ND	2.05	103	2.00	0.697	
Toluene*	<0.050	0.050	05/10/2022	ND	2.03	101	2.00	0.736	
Ethylbenzene*	<0.050	0.050	05/10/2022	ND	1.92	95.8	2.00	1.15	
Total Xylenes*	<0.150	0.150	05/10/2022	ND	6.01	100	6.00	2.03	
Total BTX	<0.300	0.300	05/10/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	05/10/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/10/2022	ND	191	95.7	200	3.78	
DRO >C10-C28*	<10.0	10.0	05/10/2022	ND	199	99.6	200	6.13	
EXT DRO >C28-C36	<10.0	10.0	05/10/2022	ND					

Surrogate: 1-Chlorooctane 73.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 87.1 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 05/05/2022  
 Reported: 05/11/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 05/04/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 38 @ 7' (H221909-07)**

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	05/10/2022	ND	2.05	103	2.00	0.697		
Toluene*	<0.050	0.050	05/10/2022	ND	2.03	101	2.00	0.736		
Ethylbenzene*	<0.050	0.050	05/10/2022	ND	1.92	95.8	2.00	1.15		
Total Xylenes*	<0.150	0.150	05/10/2022	ND	6.01	100	6.00	2.03		
Total BTEx	<0.300	0.300	05/10/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	05/10/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/10/2022	ND	191	95.7	200	3.78	
DRO >C10-C28*	<10.0	10.0	05/10/2022	ND	199	99.6	200	6.13	
EXT DRO >C28-C36	<10.0	10.0	05/10/2022	ND					

Surrogate: 1-Chlorooctane 80.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 96.1 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 05/05/2022  
 Reported: 05/11/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 05/04/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 39 @ 7' (H221909-08)**

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	05/10/2022	ND	2.05	103	2.00	0.697		
Toluene*	<0.050	0.050	05/10/2022	ND	2.03	101	2.00	0.736		
Ethylbenzene*	<0.050	0.050	05/10/2022	ND	1.92	95.8	2.00	1.15		
Total Xylenes*	<0.150	0.150	05/10/2022	ND	6.01	100	6.00	2.03		
Total BTX	<0.300	0.300	05/10/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	05/10/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/10/2022	ND	191	95.7	200	3.78	
DRO >C10-C28*	<10.0	10.0	05/10/2022	ND	199	99.6	200	6.13	
EXT DRO >C28-C36	<10.0	10.0	05/10/2022	ND					

Surrogate: 1-Chlorooctane 82.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 98.2 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 05/05/2022  
 Reported: 05/11/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 05/04/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 40 @ 7' (H221909-09)**

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	05/10/2022	ND	2.05	103	2.00	0.697		
Toluene*	<0.050	0.050	05/10/2022	ND	2.03	101	2.00	0.736		
Ethylbenzene*	<0.050	0.050	05/10/2022	ND	1.92	95.8	2.00	1.15		
Total Xylenes*	<0.150	0.150	05/10/2022	ND	6.01	100	6.00	2.03		
Total BTX	<0.300	0.300	05/10/2022	ND						

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

Chloride, SM4500CI-B			mg/kg							
			Analyzed By: GM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	05/10/2022	ND	416	104	400	0.00		

TPH 8015M			mg/kg							
			Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/10/2022	ND	191	95.7	200	3.78		
DRO >C10-C28*	<10.0	10.0	05/10/2022	ND	199	99.6	200	6.13		
EXT DRO >C28-C36	<10.0	10.0	05/10/2022	ND						

Surrogate: 1-Chlorooctane 81.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 97.2 % 59.5-142

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**Analytical Results For:**

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

Received: 05/05/2022  
 Reported: 05/11/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 05/04/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 41 @ 7' (H221909-10)**

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	05/10/2022	ND	2.05	103	2.00	0.697		
Toluene*	<0.050	0.050	05/10/2022	ND	2.03	101	2.00	0.736		
Ethylbenzene*	<0.050	0.050	05/10/2022	ND	1.92	95.8	2.00	1.15		
Total Xylenes*	<0.150	0.150	05/10/2022	ND	6.01	100	6.00	2.03		
Total BTX	<0.300	0.300	05/10/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	05/10/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/10/2022	ND	191	95.7	200	3.78	
DRO >C10-C28*	<10.0	10.0	05/10/2022	ND	199	99.6	200	6.13	
EXT DRO >C28-C36	<10.0	10.0	05/10/2022	ND					

Surrogate: 1-Chlorooctane 85.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 99.9 % 59.5-142

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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



## CARDINAL LABORATORIES

**101 East Marland, Hobbs, NM 88240**

**(575) 393-2326 FAX (575) 393-2476**

No Rush

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 11 of 11

Company Name: Etech Environmental & Safety Solutions, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																																	
Project Manager: Lance Crenshaw				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Chloride</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH (8015M)</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX (8021B)</div> </div>																																	
Address: 2617 W Marland				Company: Mewbourne																																					
City: Hobbs State: NM Zip: 88240				Attn: Robbie Runnels																																					
Phone #: (575) 264-9884 Fax #:				Address: 4801 Business Pk Blvd																																					
Project #: 15066 Project Owner: Robbie Runnels				City: Hobbs																																					
Project Name: Chicago 9-8 WOHE Fee Com				State: NM Zip: 88240																																					
Project Location: Mewbourne Oil Company				Phone #:																																					
Sampler Name: Eric Mojica				Fax #:																																					
FOR LAB USE ONLY						MATRIX		PRESERV.		SAMPLING																															
Lab I.D.		Sample I.D.		(G) RAB OR (C) COMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER:		ACID/BASE:		ICE / GEL:		OTHER:		DATE		TIME													
4221909				C		1						✓								✓		✓		✓		5-5-22															
2		EW 2A		C		1						✓								✓		✓		✓		5-5-22															
3		WW 2A		C		1						✓								✓		✓		✓		5-5-22															
4		FS 17e 19'		C		1						✓								✓		✓		✓		5-5-22															
5		EW 4		C		1						✓								✓		✓		✓		5-5-22															
6		WW 4		C		1						✓								✓		✓		✓		5-5-22															
7		FS 37e 7'		C		1						✓								✓		✓		✓		5-5-22															
8		FS 38e 7'		C		1						✓								✓		✓		✓		5-5-22															
9		FS 39e 7'		C		1						✓								✓		✓		✓		5-5-22															
10		FS 40e 7'		C		1						✓								✓		✓		✓		5-5-22															
11		FS 41e 7'		C		1						✓								✓		✓		✓		5-5-22															

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Relinquished By:		Date: 5-5-22		Received By:		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
Time: 1538						Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:	
Relinquished By:		Date:		Received By:		REMARKS:			
		Time:							

Delivered By: (Circle One) 4.30 C-D-50

Sampler - UPS - Bus - Other: 3.80 #113

Sample Condition

Cool Intact

☒ Yes ☐ No

☐ No ☐

FORM-006  
Revision 1.0

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





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

May 12, 2022

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: CHICAGO 9-8 W0HE FEE COM 1

Enclosed are the results of analyses for samples received by the laboratory on 05/09/22 15:56.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 05/09/2022  
 Reported: 05/12/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 05/09/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 42 @ 7' (H221952-01)**

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	05/11/2022	ND	2.12	106	2.00	3.86	
Toluene*	<0.050	0.050	05/11/2022	ND	2.11	105	2.00	3.76	
Ethylbenzene*	<0.050	0.050	05/11/2022	ND	2.06	103	2.00	3.55	
Total Xylenes*	<0.150	0.150	05/11/2022	ND	6.38	106	6.00	3.03	
Total BTEX	<0.300	0.300	05/11/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	464	16.0	05/10/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/11/2022	ND	190	94.8	200	2.18	
DRO >C10-C28*	<10.0	10.0	05/11/2022	ND	203	101	200	3.86	
EXT DRO >C28-C36	<10.0	10.0	05/11/2022	ND					

Surrogate: 1-Chlorooctane 100 % 66.9-136

Surrogate: 1-Chlorooctadecane 119 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 05/09/2022  
 Reported: 05/12/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 05/09/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 43 @ 7' (H221952-02)**

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	05/11/2022	ND	2.12	106	2.00	3.86		
Toluene*	<0.050	0.050	05/11/2022	ND	2.11	105	2.00	3.76		
Ethylbenzene*	<0.050	0.050	05/11/2022	ND	2.06	103	2.00	3.55		
Total Xylenes*	<0.150	0.150	05/11/2022	ND	6.38	106	6.00	3.03		
Total BTEX	<0.300	0.300	05/11/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	05/10/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/11/2022	ND	190	94.8	200	2.18	
DRO >C10-C28*	<10.0	10.0	05/11/2022	ND	203	101	200	3.86	
EXT DRO >C28-C36	<10.0	10.0	05/11/2022	ND					

Surrogate: 1-Chlorooctane 109 % 66.9-136

Surrogate: 1-Chlorooctadecane 127 % 59.5-142

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 05/09/2022  
 Reported: 05/12/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 05/09/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 44 @ 7' (H221952-03)**

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	05/11/2022	ND	2.12	106	2.00	3.86		
Toluene*	<0.050	0.050	05/11/2022	ND	2.11	105	2.00	3.76		
Ethylbenzene*	<0.050	0.050	05/11/2022	ND	2.06	103	2.00	3.55		
Total Xylenes*	<0.150	0.150	05/11/2022	ND	6.38	106	6.00	3.03		
Total BTX	<0.300	0.300	05/11/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	05/10/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/11/2022	ND	199	99.4	200	2.52	
DRO >C10-C28*	<10.0	10.0	05/11/2022	ND	179	89.3	200	4.45	
EXT DRO >C28-C36	<10.0	10.0	05/11/2022	ND					

Surrogate: 1-Chlorooctane 89.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 92.9 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 05/09/2022  
 Reported: 05/12/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 05/09/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 45 @ 7' (H221952-04)**

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	05/11/2022	ND	2.12	106	2.00	3.86		
Toluene*	<0.050	0.050	05/11/2022	ND	2.11	105	2.00	3.76		
Ethylbenzene*	<0.050	0.050	05/11/2022	ND	2.06	103	2.00	3.55		
Total Xylenes*	<0.150	0.150	05/11/2022	ND	6.38	106	6.00	3.03		
Total BTX	<0.300	0.300	05/11/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	05/10/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/11/2022	ND	199	99.4	200	2.52	
DRO >C10-C28*	<10.0	10.0	05/11/2022	ND	179	89.3	200	4.45	
EXT DRO >C28-C36	<10.0	10.0	05/11/2022	ND					

Surrogate: 1-Chlorooctane 91.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 95.6 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 05/09/2022  
 Reported: 05/12/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 05/09/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 46 @ 7' (H221952-05)**

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	05/11/2022	ND	2.12	106	2.00	3.86	
Toluene*	<0.050	0.050	05/11/2022	ND	2.11	105	2.00	3.76	
Ethylbenzene*	<0.050	0.050	05/11/2022	ND	2.06	103	2.00	3.55	
Total Xylenes*	<0.150	0.150	05/11/2022	ND	6.38	106	6.00	3.03	
Total BTX	<0.300	0.300	05/11/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	432	16.0	05/10/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/11/2022	ND	199	99.4	200	2.52	
DRO >C10-C28*	<10.0	10.0	05/11/2022	ND	179	89.3	200	4.45	
EXT DRO >C28-C36	<10.0	10.0	05/11/2022	ND					

Surrogate: 1-Chlorooctane 96.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 101 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 05/09/2022  
 Reported: 05/12/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 05/09/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 47 @ 7' (H221952-06)**

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	05/11/2022	ND	2.12	106	2.00	3.86		
Toluene*	<0.050	0.050	05/11/2022	ND	2.11	105	2.00	3.76		
Ethylbenzene*	<0.050	0.050	05/11/2022	ND	2.06	103	2.00	3.55		
Total Xylenes*	<0.150	0.150	05/11/2022	ND	6.38	106	6.00	3.03		
Total BTEX	<0.300	0.300	05/11/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	416	16.0	05/10/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/11/2022	ND	199	99.4	200	2.52	
DRO >C10-C28*	<10.0	10.0	05/11/2022	ND	179	89.3	200	4.45	
EXT DRO >C28-C36	<10.0	10.0	05/11/2022	ND					

Surrogate: 1-Chlorooctane 94.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 99.9 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 05/09/2022  
 Reported: 05/12/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 05/09/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 48 @ 7' (H221952-07)**

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	05/11/2022	ND	2.12	106	2.00	3.86		
Toluene*	<0.050	0.050	05/11/2022	ND	2.11	105	2.00	3.76		
Ethylbenzene*	<0.050	0.050	05/11/2022	ND	2.06	103	2.00	3.55		
Total Xylenes*	<0.150	0.150	05/11/2022	ND	6.38	106	6.00	3.03		
Total BTEX	<0.300	0.300	05/11/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	05/10/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/11/2022	ND	199	99.4	200	2.52	
DRO >C10-C28*	<10.0	10.0	05/11/2022	ND	179	89.3	200	4.45	
EXT DRO >C28-C36	<10.0	10.0	05/11/2022	ND					

Surrogate: 1-Chlorooctane 94.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 99.2 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 05/09/2022  
 Reported: 05/12/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 05/09/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 49 @ 7' (H221952-08)**

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	05/10/2022	ND	2.04	102	2.00	1.41		
Toluene*	<0.050	0.050	05/10/2022	ND	2.01	101	2.00	1.46		
Ethylbenzene*	<0.050	0.050	05/10/2022	ND	1.90	95.1	2.00	1.76		
Total Xylenes*	<0.150	0.150	05/10/2022	ND	5.91	98.5	6.00	1.95		
Total BTEX	<0.300	0.300	05/10/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	05/10/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/11/2022	ND	199	99.4	200	2.52	
DRO >C10-C28*	<10.0	10.0	05/11/2022	ND	179	89.3	200	4.45	
EXT DRO >C28-C36	<10.0	10.0	05/11/2022	ND					

Surrogate: 1-Chlorooctane 91.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 96.5 % 59.5-142

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 05/09/2022  
 Reported: 05/12/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 05/09/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 50 @ 7' (H221952-09)**

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	05/10/2022	ND	2.04	102	2.00	1.41		
Toluene*	<0.050	0.050	05/10/2022	ND	2.01	101	2.00	1.46		
Ethylbenzene*	<0.050	0.050	05/10/2022	ND	1.90	95.1	2.00	1.76		
Total Xylenes*	<0.150	0.150	05/10/2022	ND	5.91	98.5	6.00	1.95		
Total BTEX	<0.300	0.300	05/10/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	05/10/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/11/2022	ND	199	99.4	200	2.52	
DRO >C10-C28*	<10.0	10.0	05/11/2022	ND	179	89.3	200	4.45	
EXT DRO >C28-C36	<10.0	10.0	05/11/2022	ND					

Surrogate: 1-Chlorooctane 80.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 84.8 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 05/09/2022  
 Reported: 05/12/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 05/09/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 51 @ 7' (H221952-10)**

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	05/10/2022	ND	2.04	102	2.00	1.41	
Toluene*	<0.050	0.050	05/10/2022	ND	2.01	101	2.00	1.46	
Ethylbenzene*	<0.050	0.050	05/10/2022	ND	1.90	95.1	2.00	1.76	
Total Xylenes*	<0.150	0.150	05/10/2022	ND	5.91	98.5	6.00	1.95	
Total BTEX	<0.300	0.300	05/10/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	05/10/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/11/2022	ND	199	99.4	200	2.52	
DRO >C10-C28*	<10.0	10.0	05/11/2022	ND	179	89.3	200	4.45	
EXT DRO >C28-C36	<10.0	10.0	05/11/2022	ND					

Surrogate: 1-Chlorooctane 83.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 86.5 % 59.5-142

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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



# **CARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476

No Rush

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

Page 13 of 13

Company Name: Etech Environmental & Safety Solutions, Inc.										<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>															
Project Manager: Lance Crenshaw										P.O. #:		<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>															
Address: 2617 W Marland										Company: Mewbourne																	
City: Hobbs State: NM Zip: 88240										Attn: Robbie Runnels																	
Phone #: (575) 264-9884 Fax #:										Address: 4801 Business Pk Blvd																	
Project #: 15066 Project Owner: Robbie Runnels										City: Hobbs																	
Project Name: Chicago 9-8 WOHF Fee Com										State: NM Zip: 88240																	
Project Location: Mewbourne Oil Company										Phone #:																	
Sampler Name: Eric Mojica										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											
H221952																											
1		FS42e7		C	1			✓				✓			5-9-22		✓	✓	✓								
2		FS43e7		C	1			✓				✓					✓	✓	✓								
3		FS44e7		C	1			✓				✓					✓	✓	✓								
4		FS45e7		C	1			✓				✓					✓	✓	✓								
5		FS46e7		C	1			✓				✓					✓	✓	✓								
6		FS47e7		C	1			✓				✓					✓	✓	✓								
7		FS48e7		C	1			✓				✓					✓	✓	✓								
8		FS49e7		C	1			✓				✓					✓	✓	✓								
9		FS50e7		C	1			✓				✓					✓	✓	✓								
10		FS51e7		C	1			✓				✓					✓	✓	✓								
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Relinquished By:				Date: 5-9-22		Received By:				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Phone #:													
Eric Mojica				Time: 1550		Shodkiny				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Fax #:													
Relinquished By:				Date:		Received By:				REMARKS:																	
				Time:																							
Delivered By: (Circle One) 5:20 JC-O.5c										Sample Condition		CHECKED BY:															
Sampler - UPS - Bus - Other: 5:20 #113										Cool Intact		(Initials)															
										<input type="checkbox"/> Yes <input type="checkbox"/> No		SJC															

FORM-006  
Revision 1.0

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



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

---

May 18, 2022

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: CHICAGO 9-8 W0HE FEE COM 1

Enclosed are the results of analyses for samples received by the laboratory on 05/13/22 16:33.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 05/13/2022  
 Reported: 05/18/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 05/13/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 63 @ 10' (H222058-01)**

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	05/17/2022	ND	1.97	98.6	2.00	7.84		
Toluene*	<0.050	0.050	05/17/2022	ND	1.94	97.0	2.00	8.15		
Ethylbenzene*	<0.050	0.050	05/17/2022	ND	1.91	95.4	2.00	7.74		
Total Xylenes*	<0.150	0.150	05/17/2022	ND	5.89	98.1	6.00	7.22		
Total BTEX	<0.300	0.300	05/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	05/17/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	192	96.0	200	0.297	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	198	99.2	200	3.37	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 87.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 98.0 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 05/13/2022  
 Reported: 05/18/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 05/13/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 64 @ 4' (H222058-02)**

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	05/17/2022	ND	1.97	98.6	2.00	7.84		
Toluene*	<0.050	0.050	05/17/2022	ND	1.94	97.0	2.00	8.15		
Ethylbenzene*	<0.050	0.050	05/17/2022	ND	1.91	95.4	2.00	7.74		
Total Xylenes*	<0.150	0.150	05/17/2022	ND	5.89	98.1	6.00	7.22		
Total BTEX	<0.300	0.300	05/17/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	05/17/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	192	96.0	200	0.297	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	198	99.2	200	3.37	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 89.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 102 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 05/13/2022  
 Reported: 05/18/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 05/13/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 65 @ 4' (H222058-03)**

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	05/17/2022	ND	1.97	98.6	2.00	7.84		
Toluene*	<0.050	0.050	05/17/2022	ND	1.94	97.0	2.00	8.15		
Ethylbenzene*	<0.050	0.050	05/17/2022	ND	1.91	95.4	2.00	7.74		
Total Xylenes*	<0.150	0.150	05/17/2022	ND	5.89	98.1	6.00	7.22		
Total BTEx	<0.300	0.300	05/17/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	464	16.0	05/17/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	192	96.0	200	0.297	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	198	99.2	200	3.37	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 85.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 96.0 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 05/13/2022  
 Reported: 05/18/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 05/13/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 66 @ 11' (H222058-04)**

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	05/17/2022	ND	1.97	98.6	2.00	7.84		
Toluene*	<0.050	0.050	05/17/2022	ND	1.94	97.0	2.00	8.15		
Ethylbenzene*	<0.050	0.050	05/17/2022	ND	1.91	95.4	2.00	7.74		
Total Xylenes*	<0.150	0.150	05/17/2022	ND	5.89	98.1	6.00	7.22		
Total BTEX	<0.300	0.300	05/17/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	05/17/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2022	ND	184	92.0	200	1.55	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	196	98.2	200	0.308	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 91.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 95.8 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 05/13/2022  
 Reported: 05/18/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 05/13/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 67 @ 4' (H222058-05)**

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	05/17/2022	ND	1.97	98.6	2.00	7.84		
Toluene*	<0.050	0.050	05/17/2022	ND	1.94	97.0	2.00	8.15		
Ethylbenzene*	<0.050	0.050	05/17/2022	ND	1.91	95.4	2.00	7.74		
Total Xylenes*	<0.150	0.150	05/17/2022	ND	5.89	98.1	6.00	7.22		
Total BTX	<0.300	0.300	05/17/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	05/17/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	184	92.0	200	1.55	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	196	98.2	200	0.308	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 74.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 80.7 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 05/13/2022  
 Reported: 05/18/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 05/13/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 68 @ 5' (H222058-06)**

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	05/17/2022	ND	1.97	98.6	2.00	7.84		
Toluene*	<0.050	0.050	05/17/2022	ND	1.94	97.0	2.00	8.15		
Ethylbenzene*	<0.050	0.050	05/17/2022	ND	1.91	95.4	2.00	7.74		
Total Xylenes*	<0.150	0.150	05/17/2022	ND	5.89	98.1	6.00	7.22		
Total BTEx	<0.300	0.300	05/17/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	05/17/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	184	92.0	200	1.55	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	196	98.2	200	0.308	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 70.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 75.2 % 59.5-142

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**Analytical Results For:**

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

Received: 05/13/2022  
 Reported: 05/18/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 05/13/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 69 @ 6' (H222058-07)**

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	05/17/2022	ND	1.97	98.6	2.00	7.84		
Toluene*	<0.050	0.050	05/17/2022	ND	1.94	97.0	2.00	8.15		
Ethylbenzene*	<0.050	0.050	05/17/2022	ND	1.91	95.4	2.00	7.74		
Total Xylenes*	<0.150	0.150	05/17/2022	ND	5.89	98.1	6.00	7.22		
Total BTX	<0.300	0.300	05/17/2022	ND						

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

Chloride, SM4500CI-B			mg/kg							
			Analyzed By: GM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	05/17/2022	ND	416	104	400	0.00		

TPH 8015M			mg/kg							
			Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	184	92.0	200	1.55		
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	196	98.2	200	0.308		
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND						

Surrogate: 1-Chlorooctane 68.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 73.0 % 59.5-142

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**Analytical Results For:**

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

Received: 05/13/2022  
 Reported: 05/18/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 05/13/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 70 @ 6' (H222058-08)**

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	05/17/2022	ND	1.97	98.6	2.00	7.84		
Toluene*	<0.050	0.050	05/17/2022	ND	1.94	97.0	2.00	8.15		
Ethylbenzene*	<0.050	0.050	05/17/2022	ND	1.91	95.4	2.00	7.74		
Total Xylenes*	<0.150	0.150	05/17/2022	ND	5.89	98.1	6.00	7.22		
Total BTX	<0.300	0.300	05/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	05/17/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	184	92.0	200	1.55	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	196	98.2	200	0.308	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 70.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 76.1 % 59.5-142

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**Analytical Results For:**

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

Received: 05/13/2022  
 Reported: 05/18/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 05/13/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: EW 5 (H222058-09)**

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	05/17/2022	ND	2.10	105	2.00	3.25		
Toluene*	<0.050	0.050	05/17/2022	ND	2.07	103	2.00	3.75		
Ethylbenzene*	<0.050	0.050	05/17/2022	ND	2.05	102	2.00	3.53		
Total Xylenes*	<0.150	0.150	05/17/2022	ND	6.34	106	6.00	4.18		
Total BTEX	<0.300	0.300	05/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	05/17/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	184	92.0	200	1.55	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	196	98.2	200	0.308	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 80.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 86.4 % 59.5-142

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**Analytical Results For:**

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

Received: 05/13/2022  
 Reported: 05/18/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 05/13/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: WW 5 (H222058-10)**

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	05/17/2022	ND	2.10	105	2.00	3.25		
Toluene*	<0.050	0.050	05/17/2022	ND	2.07	103	2.00	3.75		
Ethylbenzene*	<0.050	0.050	05/17/2022	ND	2.05	102	2.00	3.53		
Total Xylenes*	<0.150	0.150	05/17/2022	ND	6.34	106	6.00	4.18		
Total BTEx	<0.300	0.300	05/17/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	05/17/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	184	92.0	200	1.55	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	196	98.2	200	0.308	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 72.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 80.8 % 59.5-142

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**Analytical Results For:**

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

Received: 05/13/2022  
 Reported: 05/18/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 05/13/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 35 @ 8' (H222058-11)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	05/17/2022	ND	416	104	400	0.00	

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**Analytical Results For:**

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

Received: 05/13/2022  
 Reported: 05/18/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 05/13/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 54 @ 9' (H222058-12)**

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	05/17/2022	ND	2.10	105	2.00	3.25	
Toluene*	<0.050	0.050	05/17/2022	ND	2.07	103	2.00	3.75	
Ethylbenzene*	<0.050	0.050	05/17/2022	ND	2.05	102	2.00	3.53	
Total Xylenes*	<0.150	0.150	05/17/2022	ND	6.34	106	6.00	4.18	
Total BTEx	<0.300	0.300	05/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	496	16.0	05/17/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	184	92.0	200	1.55	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	196	98.2	200	0.308	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 79.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 86.2 % 59.5-142

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**Analytical Results For:**

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

Received: 05/13/2022  
 Reported: 05/18/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 05/13/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 55 @ 9' (H222058-13)**

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	05/17/2022	ND	2.10	105	2.00	3.25		
Toluene*	<0.050	0.050	05/17/2022	ND	2.07	103	2.00	3.75		
Ethylbenzene*	<0.050	0.050	05/17/2022	ND	2.05	102	2.00	3.53		
Total Xylenes*	<0.150	0.150	05/17/2022	ND	6.34	106	6.00	4.18		
Total BTEX	<0.300	0.300	05/17/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	464	16.0	05/17/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	184	92.0	200	1.55	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	196	98.2	200	0.308	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 74.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 79.8 % 59.5-142

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

**Analytical Results For:**

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

Received: 05/13/2022  
 Reported: 05/18/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 05/13/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 56 @ 6.5' (H222058-14)**

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	05/17/2022	ND	2.10	105	2.00	3.25		
Toluene*	<0.050	0.050	05/17/2022	ND	2.07	103	2.00	3.75		
Ethylbenzene*	<0.050	0.050	05/17/2022	ND	2.05	102	2.00	3.53		
Total Xylenes*	<0.150	0.150	05/17/2022	ND	6.34	106	6.00	4.18		
Total BTEx	<0.300	0.300	05/17/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	05/17/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	184	92.0	200	1.55	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	196	98.2	200	0.308	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 77.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 83.1 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 05/13/2022  
 Reported: 05/18/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 05/13/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 57 @ 6.5' (H222058-15)**

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	05/17/2022	ND	2.10	105	2.00	3.25		
Toluene*	<0.050	0.050	05/17/2022	ND	2.07	103	2.00	3.75		
Ethylbenzene*	<0.050	0.050	05/17/2022	ND	2.05	102	2.00	3.53		
Total Xylenes*	<0.150	0.150	05/17/2022	ND	6.34	106	6.00	4.18		
Total BTEx	<0.300	0.300	05/17/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	416	16.0	05/17/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	184	92.0	200	1.55	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	196	98.2	200	0.308	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 78.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 85.0 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 05/13/2022  
 Reported: 05/18/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 05/13/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 58 @ 7' (H222058-16)**

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	05/17/2022	ND	2.10	105	2.00	3.25		
Toluene*	<0.050	0.050	05/17/2022	ND	2.07	103	2.00	3.75		
Ethylbenzene*	<0.050	0.050	05/17/2022	ND	2.05	102	2.00	3.53		
Total Xylenes*	<0.150	0.150	05/17/2022	ND	6.34	106	6.00	4.18		
Total BTEx	<0.300	0.300	05/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	384	16.0	05/17/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	184	92.0	200	1.55	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	196	98.2	200	0.308	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 79.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 85.9 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 05/13/2022  
 Reported: 05/18/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 05/13/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 59 @ 7' (H222058-17)**

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	05/17/2022	ND	2.10	105	2.00	3.25		
Toluene*	<0.050	0.050	05/17/2022	ND	2.07	103	2.00	3.75		
Ethylbenzene*	<0.050	0.050	05/17/2022	ND	2.05	102	2.00	3.53		
Total Xylenes*	<0.150	0.150	05/17/2022	ND	6.34	106	6.00	4.18		
Total BTEx	<0.300	0.300	05/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	384	16.0	05/17/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	184	92.0	200	1.55	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	196	98.2	200	0.308	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 84.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 91.3 % 59.5-142

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**Analytical Results For:**

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

Received: 05/13/2022  
 Reported: 05/18/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 05/13/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 60 @ 7.5' (H222058-18)**

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	05/17/2022	ND	2.10	105	2.00	3.25		
Toluene*	<0.050	0.050	05/17/2022	ND	2.07	103	2.00	3.75		
Ethylbenzene*	<0.050	0.050	05/17/2022	ND	2.05	102	2.00	3.53		
Total Xylenes*	<0.150	0.150	05/17/2022	ND	6.34	106	6.00	4.18		
Total BTEx	<0.300	0.300	05/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	416	16.0	05/17/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	184	92.0	200	1.55	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	196	98.2	200	0.308	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 75.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 81.4 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 05/13/2022  
 Reported: 05/18/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 05/13/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 61 @ 10' (H222058-19)**

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	05/17/2022	ND	2.10	105	2.00	3.25		
Toluene*	<0.050	0.050	05/17/2022	ND	2.07	103	2.00	3.75		
Ethylbenzene*	<0.050	0.050	05/17/2022	ND	2.05	102	2.00	3.53		
Total Xylenes*	<0.150	0.150	05/17/2022	ND	6.34	106	6.00	4.18		
Total BTEX	<0.300	0.300	05/17/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	05/17/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	184	92.0	200	1.55	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	196	98.2	200	0.308	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 79.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 85.3 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 05/13/2022  
 Reported: 05/18/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 05/13/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 62 @ 10' (H222058-20)**

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	05/17/2022	ND	2.10	105	2.00	3.25		
Toluene*	<0.050	0.050	05/17/2022	ND	2.07	103	2.00	3.75		
Ethylbenzene*	<0.050	0.050	05/17/2022	ND	2.05	102	2.00	3.53		
Total Xylenes*	<0.150	0.150	05/17/2022	ND	6.34	106	6.00	4.18		
Total BTEx	<0.300	0.300	05/17/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	05/17/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	184	92.0	200	1.55	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	196	98.2	200	0.308	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 74.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 80.3 % 59.5-142

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---

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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



# **CARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476

No Rush

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

1 of 2

Page 23 of 24

Company Name: Etech Environmental & Safety Solutions, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																			
Project Manager: Lance Crenshaw				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																			
Address: 2617 W Marland				Company: Mewbourne																							
City: Hobbs State: NM Zip: 88240				Attn: Robbie Runnels																							
Phone #: (575) 264-9884 Fax #: —				Address: 4801 Business Pk Blvd																							
Project #: 15066 Project Owner: Robbie Runnels				City: Hobbs																							
Project Name: Chicago 9-8 WOH Fee Com 1H				State: NM Zip: 88240																							
Project Location: Mewbourne Oil Company				Phone #: —																							
Sampler Name: Eric Mejia				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 / GEL:	OTHER:	DATE	TIME													
H222058																											
1	FS 63e10	C	1			✓				✓			5-13-22		✓	✓	✓										
2	FS 64e4	C	1			✓				✓					✓	✓	✓										
3	FS 65e4	C	1			✓				✓					✓	✓	✓										
4	FS 66e11	C	1			✓				✓					✓	✓	✓										
5	FS 67e4	C	1			✓				✓					✓	✓	✓										
6	FS 68e5	C	1			✓				✓					✓	✓	✓										
7	FS 69e6	C	1			✓				✓					✓	✓	✓										
8	FS 70e6	C	1			✓				✓					✓	✓	✓										
9	EW 5	C	1			✓				✓					✓	✓	✓										
10	WW 5	C	1			✓				✓					✓	✓	✓										

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Relinquished By: Eric Mejia	Date: 5-13-22	Received By: [Signature]	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: 11033		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
	Time:			
Delivered By: (Circle One) 5-70 CO-52	Sample Condition: Cook Initial	CHECKED BY: (Initials)	Please email results and copy of CoC to pm@etechenv.com.	
Sampler - UPS - Bus - Other: 5-20 #113	<input type="checkbox"/> Yes <input type="checkbox"/> No	[Signature]		





## CARDINAL LABORATORIES

**101 East Marland, Hobbs, NM 88240**

**(575) 393-2326 FAX (575) 393-2476**

No Rush

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2. f 2

Page 21 of 24

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																																			
Project Manager: Lance Crenshaw				P.O. #:				Chloride TPH (8015M) BTEX (8021B)																																			
Address: 2617 W Marland				Company: Mewbourne																																							
City: Hobbs State: NM Zip: 88240				Attn: Robbie Runnels																																							
Phone #: (575) 264-9884 Fax #: —				Address: 4801 Business Pk Blvd																																							
Project #: 15066 Project Owner: Robbie Runnels				City: Hobbs																																							
Project Name: Chicago 9-8 WOH E Fee Com 1H				State: NM Zip: 88240																																							
Project Location: Mewbourne Oil Company				Phone #: —																																							
Sampler Name: Eric Mojica				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 /GGL		OTHER :		DATE		TIME															
4222058																																											
11		FS 3508		C		1						✓										✓				5-13-22				✓													
12		FS 5409		C		1						✓										✓		✓						✓													
13		FS 5509		C		1						✓										✓		✓						✓													
14		FS 5606 1/2		C		1						✓										✓		✓						✓													
15		FS 5706 1/2		C		1						✓										✓		✓						✓													
16		FS 5807		C		1						✓										✓		✓						✓													
17		FS 5907		C		1						✓										✓		✓						✓													
18		FS 6007 1/2		C		1						✓										✓		✓						✓													
19		FS 61010		C		1						✓										✓		✓						✓													
20		FS 62010		C		1						✓										✓		✓						✓													
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Relinquished By: Eric Mojica										Date: 5-13-22		Received By: [Signature]										Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:																					
Relinquished By:										Time: 1633												Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:																					
Relinquished By:										Date:		Received By:										REMARKS:																					
Relinquished By:										Time:																																	
Delivered By: (Circle One)										5-20 C-0-50										Sample Condition										CHECKED BY:													
Sampler - UPS - Bus - Other:										5-20 #13										Cool Intact										(Initials)													
																				<input type="checkbox"/> Yes <input type="checkbox"/> No										[Signature]													
																				<input type="checkbox"/> No <input type="checkbox"/> Yes																							
Please email results and copy of CoC to pm@etechenv.com.																																											





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

May 18, 2022

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: CHICAGO 9-8 W0HE FEE COM 1

Enclosed are the results of analyses for samples received by the laboratory on 05/16/22 16:18.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 05/16/2022  
 Reported: 05/18/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 05/16/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 52 @ 19.5' (H222076-01)**

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	05/17/2022	ND	2.10	105	2.00	3.25		
Toluene*	<0.050	0.050	05/17/2022	ND	2.07	103	2.00	3.75		
Ethylbenzene*	<0.050	0.050	05/17/2022	ND	2.05	102	2.00	3.53		
Total Xylenes*	<0.150	0.150	05/17/2022	ND	6.34	106	6.00	4.18		
Total BTEX	<0.300	0.300	05/17/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	05/17/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	194	96.8	200	1.97	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	184	91.9	200	0.423	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 78.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 78.3 % 59.5-142

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	05/16/2022	Sampling Date:	05/16/2022
Reported:	05/18/2022	Sampling Type:	Soil
Project Name:	CHICAGO 9-8 WOHE FEE COM 1	Sampling Condition:	Cool & Intact
Project Number:	15066	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

**Sample ID: FS 53 @ 19.5' (H222076-02)**

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	05/17/2022	ND	2.10	105	2.00	3.25		
Toluene*	<0.050	0.050	05/17/2022	ND	2.07	103	2.00	3.75		
Ethylbenzene*	<0.050	0.050	05/17/2022	ND	2.05	102	2.00	3.53		
Total Xylenes*	<0.150	0.150	05/17/2022	ND	6.34	106	6.00	4.18		
Total BTEx	<0.300	0.300	05/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	384	16.0	05/17/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	194	96.8	200	1.97	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	184	91.9	200	0.423	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 80.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 79.8 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 05/16/2022  
 Reported: 05/18/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 05/16/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 71 @ 4' (H222076-03)**

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	05/17/2022	ND	2.03	102	2.00	1.96		
Toluene*	<0.050	0.050	05/17/2022	ND	2.03	101	2.00	1.81		
Ethylbenzene*	<0.050	0.050	05/17/2022	ND	1.93	96.6	2.00	1.50		
Total Xylenes*	<0.150	0.150	05/17/2022	ND	6.01	100	6.00	1.15		
Total BTEx	<0.300	0.300	05/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	05/17/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	194	96.8	200	1.97	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	184	91.9	200	0.423	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 79.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 79.1 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 05/16/2022  
 Reported: 05/18/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 05/16/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 72 @ 5' (H222076-04)**

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	05/17/2022	ND	2.03	102	2.00	1.96	
Toluene*	<0.050	0.050	05/17/2022	ND	2.03	101	2.00	1.81	
Ethylbenzene*	<0.050	0.050	05/17/2022	ND	1.93	96.6	2.00	1.50	
Total Xylenes*	<0.150	0.150	05/17/2022	ND	6.01	100	6.00	1.15	
Total BTEx	<0.300	0.300	05/17/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	05/17/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	194	96.8	200	1.97	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	184	91.9	200	0.423	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 95.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 95.9 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 05/16/2022  
 Reported: 05/18/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 05/16/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 73 @ 4' (H222076-05)**

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	05/17/2022	ND	2.03	102	2.00	1.96		
Toluene*	<0.050	0.050	05/17/2022	ND	2.03	101	2.00	1.81		
Ethylbenzene*	<0.050	0.050	05/17/2022	ND	1.93	96.6	2.00	1.50		
Total Xylenes*	<0.150	0.150	05/17/2022	ND	6.01	100	6.00	1.15		
Total BTX	<0.300	0.300	05/17/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	05/17/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	194	96.8	200	1.97	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	184	91.9	200	0.423	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 78.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 77.2 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 05/16/2022  
 Reported: 05/18/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 05/16/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 74 @ 4' (H222076-06)**

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	05/17/2022	ND	2.03	102	2.00	1.96	
Toluene*	<0.050	0.050	05/17/2022	ND	2.03	101	2.00	1.81	
Ethylbenzene*	<0.050	0.050	05/17/2022	ND	1.93	96.6	2.00	1.50	
Total Xylenes*	<0.150	0.150	05/17/2022	ND	6.01	100	6.00	1.15	
Total BTX	<0.300	0.300	05/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	05/17/2022	ND	400	100	400	7.69		

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	05/17/2022	ND	194	96.8	200	1.97	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	184	91.9	200	0.423	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 80.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 80.1 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 05/16/2022  
 Reported: 05/18/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 05/16/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 75 @ 5' (H222076-07)**

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	05/17/2022	ND	2.03	102	2.00	1.96		
Toluene*	<0.050	0.050	05/17/2022	ND	2.03	101	2.00	1.81		
Ethylbenzene*	<0.050	0.050	05/17/2022	ND	1.93	96.6	2.00	1.50		
Total Xylenes*	<0.150	0.150	05/17/2022	ND	6.01	100	6.00	1.15		
Total BTEx	<0.300	0.300	05/17/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	05/17/2022	ND	400	100	400	7.69		

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	05/17/2022	ND	194	96.8	200	1.97	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	184	91.9	200	0.423	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 76.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 75.7 % 59.5-142

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 05/16/2022  
 Reported: 05/18/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 05/16/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 76 @ 4' (H222076-08)**

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	05/17/2022	ND	2.03	102	2.00	1.96		
Toluene*	<0.050	0.050	05/17/2022	ND	2.03	101	2.00	1.81		
Ethylbenzene*	<0.050	0.050	05/17/2022	ND	1.93	96.6	2.00	1.50		
Total Xylenes*	<0.150	0.150	05/17/2022	ND	6.01	100	6.00	1.15		
Total BTX	<0.300	0.300	05/17/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	05/17/2022	ND	400	100	400	7.69		

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	05/17/2022	ND	194	96.8	200	1.97	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	184	91.9	200	0.423	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 89.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 89.0 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 05/16/2022  
 Reported: 05/18/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 05/16/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 77 @ 7' (H222076-09)**

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	05/17/2022	ND	2.03	102	2.00	1.96	
Toluene*	<0.050	0.050	05/17/2022	ND	2.03	101	2.00	1.81	
Ethylbenzene*	<0.050	0.050	05/17/2022	ND	1.93	96.6	2.00	1.50	
Total Xylenes*	<0.150	0.150	05/17/2022	ND	6.01	100	6.00	1.15	
Total BTX	<0.300	0.300	05/17/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	05/17/2022	ND	400	100	400	7.69	

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	05/17/2022	ND	194	96.8	200	1.97	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	184	91.9	200	0.423	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 79.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 78.8 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 05/16/2022  
 Reported: 05/18/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 05/16/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 81 @ 4' (H222076-10)**

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	05/17/2022	ND	2.03	102	2.00	1.96		
Toluene*	<0.050	0.050	05/17/2022	ND	2.03	101	2.00	1.81		
Ethylbenzene*	<0.050	0.050	05/17/2022	ND	1.93	96.6	2.00	1.50		
Total Xylenes*	<0.150	0.150	05/17/2022	ND	6.01	100	6.00	1.15		
Total BTEx	<0.300	0.300	05/17/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	05/17/2022	ND	400	100	400	7.69		

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	05/17/2022	ND	194	96.8	200	1.97	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	184	91.9	200	0.423	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 81.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 80.8 % 59.5-142

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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



**• CARDINAL LABORATORIES**

**101 East Marland, Hobbs, NM 88240**

**(575) 393-2326 FAX (575) 393-2476**

No Rush

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

~~Page 13 of 13~~[illegible]



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May 19, 2022

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: CHICAGO 9-8 W0HE FEE COM 1

Enclosed are the results of analyses for samples received by the laboratory on 05/17/22 16:01.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 05/17/2022  
 Reported: 05/19/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 05/17/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: EW 6 (H222097-01)**

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	05/18/2022	ND	2.05	102	2.00	3.84	
Toluene*	<0.050	0.050	05/18/2022	ND	2.02	101	2.00	2.94	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	2.00	100	2.00	3.78	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.21	103	6.00	3.85	
Total BTX	<0.300	0.300	05/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	05/18/2022	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	05/18/2022	ND	234	117	200	6.50	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	215	108	200	2.01	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 94.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 101 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 05/17/2022  
 Reported: 05/19/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 05/17/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: WW 6 (H222097-02)**

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	05/18/2022	ND	2.05	102	2.00	3.84		
Toluene*	<0.050	0.050	05/18/2022	ND	2.02	101	2.00	2.94		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	2.00	100	2.00	3.78		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.21	103	6.00	3.85		
Total BTEx	<0.300	0.300	05/18/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	416	16.0	05/18/2022	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	05/18/2022	ND	234	117	200	6.50	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	215	108	200	2.01	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 111 % 66.9-136

Surrogate: 1-Chlorooctadecane 119 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 05/17/2022  
 Reported: 05/19/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 05/17/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 78 @ 5' (H222097-03)**

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	05/18/2022	ND	2.05	102	2.00	3.84		
Toluene*	<0.050	0.050	05/18/2022	ND	2.02	101	2.00	2.94		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	2.00	100	2.00	3.78		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.21	103	6.00	3.85		
Total BTEx	<0.300	0.300	05/18/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	05/18/2022	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	05/18/2022	ND	234	117	200	6.50	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	215	108	200	2.01	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 117 % 66.9-136

Surrogate: 1-Chlorooctadecane 124 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 05/17/2022  
 Reported: 05/19/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 05/17/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 79 @ 4' (H222097-04)**

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	05/18/2022	ND	2.05	102	2.00	3.84	
Toluene*	<0.050	0.050	05/18/2022	ND	2.02	101	2.00	2.94	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	2.00	100	2.00	3.78	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.21	103	6.00	3.85	
Total BTEX	<0.300	0.300	05/18/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	560	16.0	05/18/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/18/2022	ND	234	117	200	6.50		
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	215	108	200	2.01		
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND						

Surrogate: 1-Chlorooctane 143 % 66.9-136

Surrogate: 1-Chlorooctadecane 152 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 05/17/2022  
 Reported: 05/19/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 05/17/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 80 @ 4' (H222097-05)**

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	05/18/2022	ND	2.05	102	2.00	3.84	
Toluene*	<0.050	0.050	05/18/2022	ND	2.02	101	2.00	2.94	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	2.00	100	2.00	3.78	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.21	103	6.00	3.85	
Total BTEx	<0.300	0.300	05/18/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	05/18/2022	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	05/18/2022	ND	234	117	200	6.50	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	215	108	200	2.01	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 120 % 66.9-136

Surrogate: 1-Chlorooctadecane 128 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 05/17/2022  
 Reported: 05/19/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 05/17/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 82 @ 4' (H222097-06)**

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	05/18/2022	ND	2.05	102	2.00	3.84		
Toluene*	<0.050	0.050	05/18/2022	ND	2.02	101	2.00	2.94		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	2.00	100	2.00	3.78		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.21	103	6.00	3.85		
Total BTEX	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	05/18/2022	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	05/18/2022	ND	234	117	200	6.50	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	215	108	200	2.01	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 121 % 66.9-136

Surrogate: 1-Chlorooctadecane 129 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 05/17/2022  
 Reported: 05/19/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 05/17/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 83 @ 6.5' (H222097-07)**

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	05/18/2022	ND	2.05	102	2.00	3.84	
Toluene*	<0.050	0.050	05/18/2022	ND	2.02	101	2.00	2.94	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	2.00	100	2.00	3.78	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.21	103	6.00	3.85	
Total BTEx	<0.300	0.300	05/18/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	448	16.0	05/18/2022	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	05/18/2022	ND	234	117	200	6.50	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	215	108	200	2.01	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 124 % 66.9-136

Surrogate: 1-Chlorooctadecane 130 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 05/17/2022  
 Reported: 05/19/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 05/17/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 84 @ 8' (H222097-08)**

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	05/18/2022	ND	2.05	102	2.00	3.84	
Toluene*	<0.050	0.050	05/18/2022	ND	2.02	101	2.00	2.94	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	2.00	100	2.00	3.78	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.21	103	6.00	3.85	
Total BTX	<0.300	0.300	05/18/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	05/18/2022	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	05/19/2022	ND	234	117	200	6.50	
DRO >C10-C28*	<10.0	10.0	05/19/2022	ND	215	108	200	2.01	
EXT DRO >C28-C36	<10.0	10.0	05/19/2022	ND					

Surrogate: 1-Chlorooctane 118 % 66.9-136

Surrogate: 1-Chlorooctadecane 130 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 05/17/2022  
 Reported: 05/19/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 05/17/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 86 @ 3' (H222097-09)**

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	05/18/2022	ND	2.05	102	2.00	3.84		
Toluene*	<0.050	0.050	05/18/2022	ND	2.02	101	2.00	2.94		
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	2.00	100	2.00	3.78		
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.21	103	6.00	3.85		
Total BTEX	<0.300	0.300	05/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	05/18/2022	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/19/2022	ND	234	117	200	6.50	
DRO >C10-C28*	<10.0	10.0	05/19/2022	ND	215	108	200	2.01	
EXT DRO >C28-C36	<10.0	10.0	05/19/2022	ND					

Surrogate: 1-Chlorooctane 118 % 66.9-136

Surrogate: 1-Chlorooctadecane 129 % 59.5-142

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 05/17/2022  
 Reported: 05/19/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 05/17/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 87 @ 3' (H222097-10)**

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	05/18/2022	ND	2.05	102	2.00	3.84	
Toluene*	<0.050	0.050	05/18/2022	ND	2.02	101	2.00	2.94	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	2.00	100	2.00	3.78	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.21	103	6.00	3.85	
Total BTEX	<0.300	0.300	05/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	05/18/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/19/2022	ND	234	117	200	6.50	
DRO >C10-C28*	<10.0	10.0	05/19/2022	ND	215	108	200	2.01	
EXT DRO >C28-C36	<10.0	10.0	05/19/2022	ND					

Surrogate: 1-Chlorooctane 109 % 66.9-136

Surrogate: 1-Chlorooctadecane 119 % 59.5-142

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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.
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", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager

**ARDINAL LABORATORIES**

**101 East Marland, Hobbs, NM 88240**

**(575) 393-2326 FAX (575) 393-2476**

No Rush

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 13 of 13

<b>BILL TO</b>						<b>ANALYSIS REQUEST</b>												
Company Name: Etech Environmental & Safety Solutions, Inc.							P.O. #:	Chloride TPH (8015M) BTEX (8021B)										
Project Manager: Lance Crenshaw							Company Mewbourne											
Address: 2617 W Marland							Attn: Robbie Ruvels											
City: Hobbs State: NM Zip: 88240							Address: 4801 Business Pk Blvd											
Phone #: (575) 264-9884 Fax #:							City: Hobbs											
Project #: 15066 Project Owner: Robbie Ruvels							State: NM Zip: 88240											
Project Name: Chicago 9-8 NOHE Fee Com I H							Phone #: —											
Project Location: Mewbourne Oil Company							Fax #: —											
Sampler Name: Eric Mojica																		
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	CYCLE / GPH	OTHER :	DATE	TIME				
H222097																		
1 EW6		C	I			✓				✓			5-17-22		✓	✓	✓	
2 WW6		C	I			✓				✓					✓	✓	✓	
3 FS78e5'		C	I			✓				✓					✓	✓	✓	
4 FS79e4'		C	I			✓				✓					✓	✓	✓	
5 FS80e4'		C	I			✓				✓					✓	✓	✓	
6 FS82e4'		C	I			✓				✓					✓	✓	✓	
7 FS83e6½'		C	I			✓				✓					✓	✓	✓	
8 FS84e8'		C	I			✓				✓					✓	✓	✓	
9 FS86e3'		C	I			✓				✓					✓	✓	✓	
10 FS87e3'		C	I			✓				✓					✓	✓	✓	
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Relinquished By: <i>E. Mojica</i>				Date: 5-17-22	Received By: <i>Rodriguez</i>				Time: 1601				Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Add'l Phone #:			
Relinquished By:				Date:	Received By:				Time:				Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Add'l Fax #:			
Delivered By: (Circle One) 5.9% O.C.S.E				Sample Condition Cool Intact				CHECKED BY: {Initials} SR										
Sampler - UPS - Bus - Other: 5.4%#13				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No														

FORM-006  
Revision 1.0

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



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

May 23, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: CHICAGO 9-8 W0HE FEE COM 1

Enclosed are the results of analyses for samples received by the laboratory on 05/18/22 16:11.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 05/18/2022  
 Reported: 05/23/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 05/18/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 88 @ 4.5' (H222122-01)**

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	05/19/2022	ND	2.00	99.9	2.00	1.94	
Toluene*	<0.050	0.050	05/19/2022	ND	2.04	102	2.00	4.76	
Ethylbenzene*	<0.050	0.050	05/19/2022	ND	2.03	102	2.00	2.18	
Total Xylenes*	<0.150	0.150	05/19/2022	ND	6.15	102	6.00	2.85	
Total BTEX	<0.300	0.300	05/19/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	05/19/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/19/2022	ND	232	116	200	3.86	
DRO >C10-C28*	<10.0	10.0	05/19/2022	ND	223	112	200	0.0875	
EXT DRO >C28-C36	<10.0	10.0	05/19/2022	ND					

Surrogate: 1-Chlorooctane 112 % 66.9-136

Surrogate: 1-Chlorooctadecane 115 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 05/18/2022  
 Reported: 05/23/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 05/18/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 89 @ 4.5' (H222122-02)**

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	05/19/2022	ND	2.00	99.9	2.00	1.94		
Toluene*	<0.050	0.050	05/19/2022	ND	2.04	102	2.00	4.76		
Ethylbenzene*	<0.050	0.050	05/19/2022	ND	2.03	102	2.00	2.18		
Total Xylenes*	<0.150	0.150	05/19/2022	ND	6.15	102	6.00	2.85		
Total BTEX	<0.300	0.300	05/19/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	05/19/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/19/2022	ND	232	116	200	3.86	
DRO >C10-C28*	<10.0	10.0	05/19/2022	ND	223	112	200	0.0875	
EXT DRO >C28-C36	<10.0	10.0	05/19/2022	ND					

Surrogate: 1-Chlorooctane 114 % 66.9-136

Surrogate: 1-Chlorooctadecane 118 % 59.5-142

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 05/18/2022  
 Reported: 05/23/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 05/18/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 90 @ 5' (H222122-03)**

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	05/19/2022	ND	2.00	99.9	2.00	1.94	
Toluene*	<0.050	0.050	05/19/2022	ND	2.04	102	2.00	4.76	
Ethylbenzene*	<0.050	0.050	05/19/2022	ND	2.03	102	2.00	2.18	
Total Xylenes*	<0.150	0.150	05/19/2022	ND	6.15	102	6.00	2.85	
Total BTX	<0.300	0.300	05/19/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/19/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/19/2022	ND	232	116	200	3.86	
DRO >C10-C28*	<10.0	10.0	05/19/2022	ND	223	112	200	0.0875	
EXT DRO >C28-C36	<10.0	10.0	05/19/2022	ND					

Surrogate: 1-Chlorooctane 110 % 66.9-136

Surrogate: 1-Chlorooctadecane 115 % 59.5-142

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**Analytical Results For:**

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 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 05/18/2022  
 Reported: 05/23/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 05/18/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 91 @ 5' (H222122-04)**

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	05/19/2022	ND	2.00	99.9	2.00	1.94		
Toluene*	<0.050	0.050	05/19/2022	ND	2.04	102	2.00	4.76		
Ethylbenzene*	<0.050	0.050	05/19/2022	ND	2.03	102	2.00	2.18		
Total Xylenes*	<0.150	0.150	05/19/2022	ND	6.15	102	6.00	2.85		
Total BTEX	<0.300	0.300	05/19/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	05/19/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/19/2022	ND	232	116	200	3.86	
DRO >C10-C28*	<10.0	10.0	05/19/2022	ND	223	112	200	0.0875	
EXT DRO >C28-C36	<10.0	10.0	05/19/2022	ND					

Surrogate: 1-Chlorooctane 110 % 66.9-136

Surrogate: 1-Chlorooctadecane 114 % 59.5-142

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**Analytical Results For:**

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

Received: 05/18/2022  
 Reported: 05/23/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 05/18/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 92 @ 6' (H222122-05)**

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	05/19/2022	ND	2.00	99.9	2.00	1.94		
Toluene*	<0.050	0.050	05/19/2022	ND	2.04	102	2.00	4.76		
Ethylbenzene*	<0.050	0.050	05/19/2022	ND	2.03	102	2.00	2.18		
Total Xylenes*	<0.150	0.150	05/19/2022	ND	6.15	102	6.00	2.85		
Total BTEx	<0.300	0.300	05/19/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	05/19/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/19/2022	ND	232	116	200	3.86	
DRO >C10-C28*	<10.0	10.0	05/19/2022	ND	223	112	200	0.0875	
EXT DRO >C28-C36	<10.0	10.0	05/19/2022	ND					

Surrogate: 1-Chlorooctane 118 % 66.9-136

Surrogate: 1-Chlorooctadecane 124 % 59.5-142

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 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 05/18/2022  
 Reported: 05/23/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 05/18/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 93 @ 3' (H222122-06)**

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	05/19/2022	ND	2.00	99.9	2.00	1.94		
Toluene*	<0.050	0.050	05/19/2022	ND	2.04	102	2.00	4.76		
Ethylbenzene*	<0.050	0.050	05/19/2022	ND	2.03	102	2.00	2.18		
Total Xylenes*	<0.150	0.150	05/19/2022	ND	6.15	102	6.00	2.85		
Total BTEX	<0.300	0.300	05/19/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	05/19/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/19/2022	ND	232	116	200	3.86	
DRO >C10-C28*	<10.0	10.0	05/19/2022	ND	223	112	200	0.0875	
EXT DRO >C28-C36	<10.0	10.0	05/19/2022	ND					

Surrogate: 1-Chlorooctane 112 % 66.9-136

Surrogate: 1-Chlorooctadecane 117 % 59.5-142

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**Analytical Results For:**

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 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 05/18/2022  
 Reported: 05/23/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 05/18/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 94 @ 3' (H222122-07)**

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	05/19/2022	ND	2.00	99.9	2.00	1.94	
Toluene*	<0.050	0.050	05/19/2022	ND	2.04	102	2.00	4.76	
Ethylbenzene*	<0.050	0.050	05/19/2022	ND	2.03	102	2.00	2.18	
Total Xylenes*	<0.150	0.150	05/19/2022	ND	6.15	102	6.00	2.85	
Total BTEX	<0.300	0.300	05/19/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	05/19/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/19/2022	ND	232	116	200	3.86	
DRO >C10-C28*	<10.0	10.0	05/19/2022	ND	223	112	200	0.0875	
EXT DRO >C28-C36	<10.0	10.0	05/19/2022	ND					

Surrogate: 1-Chlorooctane 109 % 66.9-136

Surrogate: 1-Chlorooctadecane 113 % 59.5-142

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**Analytical Results For:**

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 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 05/18/2022  
 Reported: 05/23/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 05/18/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 95 @ 3' (H222122-08)**

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	05/19/2022	ND	2.00	99.9	2.00	1.94		
Toluene*	<0.050	0.050	05/19/2022	ND	2.04	102	2.00	4.76		
Ethylbenzene*	<0.050	0.050	05/19/2022	ND	2.03	102	2.00	2.18		
Total Xylenes*	<0.150	0.150	05/19/2022	ND	6.15	102	6.00	2.85		
Total BTEX	<0.300	0.300	05/19/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	05/19/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/19/2022	ND	232	116	200	3.86	
DRO >C10-C28*	<10.0	10.0	05/19/2022	ND	223	112	200	0.0875	
EXT DRO >C28-C36	<10.0	10.0	05/19/2022	ND					

Surrogate: 1-Chlorooctane 123 % 66.9-136

Surrogate: 1-Chlorooctadecane 128 % 59.5-142

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**Analytical Results For:**

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 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 05/18/2022  
 Reported: 05/23/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 05/18/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 96 @ 3' (H222122-09)**

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	05/19/2022	ND	2.00	99.9	2.00	1.94		
Toluene*	<0.050	0.050	05/19/2022	ND	2.04	102	2.00	4.76		
Ethylbenzene*	<0.050	0.050	05/19/2022	ND	2.03	102	2.00	2.18		
Total Xylenes*	<0.150	0.150	05/19/2022	ND	6.15	102	6.00	2.85		
Total BTEX	<0.300	0.300	05/19/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	05/19/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/19/2022	ND	232	116	200	3.86	
DRO >C10-C28*	<10.0	10.0	05/19/2022	ND	223	112	200	0.0875	
EXT DRO >C28-C36	<10.0	10.0	05/19/2022	ND					

Surrogate: 1-Chlorooctane 129 % 66.9-136

Surrogate: 1-Chlorooctadecane 132 % 59.5-142

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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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 05/18/2022  
 Reported: 05/23/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 05/18/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 98 @ 4.5' (H222122-10)**

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	05/19/2022	ND	2.00	99.9	2.00	1.94	
Toluene*	<0.050	0.050	05/19/2022	ND	2.04	102	2.00	4.76	
Ethylbenzene*	<0.050	0.050	05/19/2022	ND	2.03	102	2.00	2.18	
Total Xylenes*	<0.150	0.150	05/19/2022	ND	6.15	102	6.00	2.85	
Total BTEX	<0.300	0.300	05/19/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	05/19/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/19/2022	ND	198	99.1	200	0.723	
DRO >C10-C28*	<10.0	10.0	05/19/2022	ND	189	94.3	200	1.13	
EXT DRO >C28-C36	<10.0	10.0	05/19/2022	ND					

Surrogate: 1-Chlorooctane 91.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 98.7 % 59.5-142

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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.
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

No Rush

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

Page 13 of 13

Company Name: Etech Environmental & Safety Solutions, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																																	
Project Manager: Lance Crenshaw				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																																	
Address: 2617 W Marland				Company: Mewbourne																																					
City: Hobbs		State: NM		Zip: 88240		Attn: Robbie Runnels																																			
Phone #: (575) 264-9884		Fax #:		Address: 4801 Business Park Blvd		City: Hobbs																																			
Project #: 15066		Project Owner: Robbie Runnels		State: NM		Zip: 88240																																			
Project Name: Chicago 9-8 W OHE Fee Com 1H		Project Location: Mewbourne Oil Company		Phone #:		Fax #:																																			
Sampler Name: Eric Mojica				City: Hobbs																																					
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 / 6000t		OTHER:		DATE		TIME													
H222122				C 1		1																				5-18-22															
1 FS 88e4 1/2				C 1		1																																			
2 FS 89e4 1/2				C 1		1																																			
3 FS 90e5				C 1		1																																			
4 FS 91e5				C 1		1																																			
5 FS 92e6				C 1		1																																			
6 FS 93e3				C 1		1																																			
7 FS 94e3				C 1		1																																			
8 FS 95e3				C 1		1																																			
9 FS 96e3				C 1		1																																			
10 FS 98e4 1/2				C 1		1																																			
<p>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.</p>																																									
Relinquished By:				Date: 5-18-22				Received By:				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Phone #:																									
				Time: 1611								Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Fax #:																									
Relinquished By:				Date:				Received By:				REMARKS:																													
				Time:																																					
Delivered By: (Circle One)				5.8°C C-0.58				Sample Condition				CHECKED BY:																													
Sampler - UPS - Bus - Other:				5.3°C #13				Cool Intact				(Initials)																													
								<input type="checkbox"/> Yes <input type="checkbox"/> No				JO																													

FORM-006  
Revision 1.0

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



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---

May 25, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: CHICAGO 9-8 W0HE FEE COM 1

Enclosed are the results of analyses for samples received by the laboratory on 05/19/22 15:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 05/19/2022  
 Reported: 05/25/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 05/19/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 97 @ 8.5' (H222147-01)**

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	05/24/2022	ND	2.09	104	2.00	0.674		
Toluene*	<0.050	0.050	05/24/2022	ND	2.06	103	2.00	0.391		
Ethylbenzene*	<0.050	0.050	05/24/2022	ND	1.97	98.3	2.00	1.28		
Total Xylenes*	<0.150	0.150	05/24/2022	ND	6.11	102	6.00	0.906		
Total BTEX	<0.300	0.300	05/24/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	05/23/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/25/2022	ND	192	95.8	200	7.03	
DRO >C10-C28*	<10.0	10.0	05/25/2022	ND	202	101	200	6.31	
EXT DRO >C28-C36	<10.0	10.0	05/25/2022	ND					

Surrogate: 1-Chlorooctane 90.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 99.3 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 05/19/2022  
 Reported: 05/25/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 05/19/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 99 @ 3.5' (H222147-02)**

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	05/24/2022	ND	2.09	104	2.00	0.674		
Toluene*	<0.050	0.050	05/24/2022	ND	2.06	103	2.00	0.391		
Ethylbenzene*	<0.050	0.050	05/24/2022	ND	1.97	98.3	2.00	1.28		
Total Xylenes*	<0.150	0.150	05/24/2022	ND	6.11	102	6.00	0.906		
Total BTEX	<0.300	0.300	05/24/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	05/23/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/25/2022	ND	192	95.8	200	7.03	
DRO >C10-C28*	<10.0	10.0	05/25/2022	ND	202	101	200	6.31	
EXT DRO >C28-C36	<10.0	10.0	05/25/2022	ND					

Surrogate: 1-Chlorooctane 83.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 92.8 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 05/19/2022  
 Reported: 05/25/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 05/19/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 100 @ 4' (H222147-03)**

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	05/24/2022	ND	2.09	104	2.00	0.674		
Toluene*	<0.050	0.050	05/24/2022	ND	2.06	103	2.00	0.391		
Ethylbenzene*	<0.050	0.050	05/24/2022	ND	1.97	98.3	2.00	1.28		
Total Xylenes*	<0.150	0.150	05/24/2022	ND	6.11	102	6.00	0.906		
Total BTEx	<0.300	0.300	05/24/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	05/23/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/25/2022	ND	192	95.8	200	7.03	
DRO >C10-C28*	<10.0	10.0	05/25/2022	ND	202	101	200	6.31	
EXT DRO >C28-C36	<10.0	10.0	05/25/2022	ND					

Surrogate: 1-Chlorooctane 70.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 78.0 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 05/19/2022  
 Reported: 05/25/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 05/19/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 101 @ 2.5' (H222147-04)**

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	05/24/2022	ND	2.09	104	2.00	0.674		
Toluene*	<0.050	0.050	05/24/2022	ND	2.06	103	2.00	0.391		
Ethylbenzene*	<0.050	0.050	05/24/2022	ND	1.97	98.3	2.00	1.28		
Total Xylenes*	<0.150	0.150	05/24/2022	ND	6.11	102	6.00	0.906		
Total BTEX	<0.300	0.300	05/24/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	528	16.0	05/23/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/25/2022	ND	192	95.8	200	7.03	
DRO >C10-C28*	<10.0	10.0	05/25/2022	ND	202	101	200	6.31	
EXT DRO >C28-C36	<10.0	10.0	05/25/2022	ND					

Surrogate: 1-Chlorooctane 76.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 85.5 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 05/19/2022  
 Reported: 05/25/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 05/19/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 102 @ 5.5' (H222147-05)**

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	05/24/2022	ND	2.09	104	2.00	0.674		
Toluene*	<0.050	0.050	05/24/2022	ND	2.06	103	2.00	0.391		
Ethylbenzene*	<0.050	0.050	05/24/2022	ND	1.97	98.3	2.00	1.28		
Total Xylenes*	<0.150	0.150	05/24/2022	ND	6.11	102	6.00	0.906		
Total BTEx	<0.300	0.300	05/24/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	05/23/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/25/2022	ND	192	95.8	200	7.03	
DRO >C10-C28*	<10.0	10.0	05/25/2022	ND	202	101	200	6.31	
EXT DRO >C28-C36	<10.0	10.0	05/25/2022	ND					

Surrogate: 1-Chlorooctane 79.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 88.7 % 59.5-142

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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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 05/19/2022  
 Reported: 05/25/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 05/19/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 103 @ 4.5' (H222147-06)**

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	05/24/2022	ND	2.09	104	2.00	0.674		
Toluene*	<0.050	0.050	05/24/2022	ND	2.06	103	2.00	0.391		
Ethylbenzene*	<0.050	0.050	05/24/2022	ND	1.97	98.3	2.00	1.28		
Total Xylenes*	<0.150	0.150	05/24/2022	ND	6.11	102	6.00	0.906		
Total BTEx	<0.300	0.300	05/24/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	464	16.0	05/23/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/25/2022	ND	192	95.8	200	7.03	
DRO >C10-C28*	<10.0	10.0	05/25/2022	ND	202	101	200	6.31	
EXT DRO >C28-C36	<10.0	10.0	05/25/2022	ND					

Surrogate: 1-Chlorooctane 81.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 90.3 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 05/19/2022  
 Reported: 05/25/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 05/19/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 104 @ 2.5' (H222147-07)**

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	05/24/2022	ND	2.09	104	2.00	0.674		
Toluene*	<0.050	0.050	05/24/2022	ND	2.06	103	2.00	0.391		
Ethylbenzene*	<0.050	0.050	05/24/2022	ND	1.97	98.3	2.00	1.28		
Total Xylenes*	<0.150	0.150	05/24/2022	ND	6.11	102	6.00	0.906		
Total BTEx	<0.300	0.300	05/24/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	05/23/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/25/2022	ND	192	95.8	200	7.03	
DRO >C10-C28*	<10.0	10.0	05/25/2022	ND	202	101	200	6.31	
EXT DRO >C28-C36	<10.0	10.0	05/25/2022	ND					

Surrogate: 1-Chlorooctane 82.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 91.9 % 59.5-142

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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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 05/19/2022  
 Reported: 05/25/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 05/19/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 105 @ 2.5' (H222147-08)**

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	05/24/2022	ND	2.09	104	2.00	0.674		
Toluene*	<0.050	0.050	05/24/2022	ND	2.06	103	2.00	0.391		
Ethylbenzene*	<0.050	0.050	05/24/2022	ND	1.97	98.3	2.00	1.28		
Total Xylenes*	<0.150	0.150	05/24/2022	ND	6.11	102	6.00	0.906		
Total BTEx	<0.300	0.300	05/24/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	05/23/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/25/2022	ND	192	95.8	200	7.03	
DRO >C10-C28*	<10.0	10.0	05/25/2022	ND	202	101	200	6.31	
EXT DRO >C28-C36	<10.0	10.0	05/25/2022	ND					

Surrogate: 1-Chlorooctane 94.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 104 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 05/19/2022  
 Reported: 05/25/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 05/19/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: WW 7 (H222147-09)**

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	05/24/2022	ND	2.09	104	2.00	0.674		
Toluene*	<0.050	0.050	05/24/2022	ND	2.06	103	2.00	0.391		
Ethylbenzene*	<0.050	0.050	05/24/2022	ND	1.97	98.3	2.00	1.28		
Total Xylenes*	<0.150	0.150	05/24/2022	ND	6.11	102	6.00	0.906		
Total BTEX	<0.300	0.300	05/24/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	432	16.0	05/23/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/25/2022	ND	192	95.8	200	7.03	
DRO >C10-C28*	<10.0	10.0	05/25/2022	ND	202	101	200	6.31	
EXT DRO >C28-C36	<10.0	10.0	05/25/2022	ND					

Surrogate: 1-Chlorooctane 107 % 66.9-136

Surrogate: 1-Chlorooctadecane 117 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 05/19/2022  
 Reported: 05/25/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 05/19/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: EW 7 (H222147-10)**

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	05/24/2022	ND	2.09	104	2.00	0.674		
Toluene*	<0.050	0.050	05/24/2022	ND	2.06	103	2.00	0.391		
Ethylbenzene*	<0.050	0.050	05/24/2022	ND	1.97	98.3	2.00	1.28		
Total Xylenes*	<0.150	0.150	05/24/2022	ND	6.11	102	6.00	0.906		
Total BTEX	<0.300	0.300	05/24/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	05/23/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/25/2022	ND	192	95.8	200	7.03	
DRO >C10-C28*	20.3	10.0	05/25/2022	ND	202	101	200	6.31	
EXT DRO >C28-C36	<10.0	10.0	05/25/2022	ND					

Surrogate: 1-Chlorooctane 96.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 108 % 59.5-142

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

---

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

---

Celey D. Keene, Lab Director/Quality Manager

**ARDINAL LABORATORIES**

**101 East Marland, Hobbs, NM 88240**

**(575) 393-2326 FAX (575) 393-2476**

No Rush

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 13 of 13

[illegible]



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

June 01, 2022

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: CHICAGO 9-8 W0HE FEE COM 1

Enclosed are the results of analyses for samples received by the laboratory on 05/25/22 16:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 05/25/2022  
 Reported: 06/01/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 05/25/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: NW 1 (H222240-01)**

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/28/2022	ND	2.07	103	2.00	2.12		
Toluene*	<0.050	0.050	05/28/2022	ND	2.04	102	2.00	1.88		
Ethylbenzene*	<0.050	0.050	05/28/2022	ND	1.93	96.3	2.00	2.39		
Total Xylenes*	<0.150	0.150	05/28/2022	ND	6.00	100	6.00	3.08		
Total BTEX	<0.300	0.300	05/28/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	05/31/2022	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	05/27/2022	ND	189	94.3	200	0.783	
DRO >C10-C28*	<10.0	10.0	05/27/2022	ND	181	90.5	200	2.65	
EXT DRO >C28-C36	<10.0	10.0	05/27/2022	ND					

Surrogate: 1-Chlorooctane 115 % 66.9-136

Surrogate: 1-Chlorooctadecane 120 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 05/25/2022  
 Reported: 06/01/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 05/25/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: WW 8 (H222240-02)**

BTX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/28/2022	ND	2.07	103	2.00	2.12		
Toluene*	<0.050	0.050	05/28/2022	ND	2.04	102	2.00	1.88		
Ethylbenzene*	<0.050	0.050	05/28/2022	ND	1.93	96.3	2.00	2.39		
Total Xylenes*	<0.150	0.150	05/28/2022	ND	6.00	100	6.00	3.08		
Total BTX	<0.300	0.300	05/28/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	05/31/2022	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	05/27/2022	ND	189	94.3	200	0.783	
DRO >C10-C28*	<10.0	10.0	05/27/2022	ND	181	90.5	200	2.65	
EXT DRO >C28-C36	<10.0	10.0	05/27/2022	ND					

Surrogate: 1-Chlorooctane 111 % 66.9-136

Surrogate: 1-Chlorooctadecane 116 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 05/25/2022  
 Reported: 06/01/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 05/25/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 115 @ 4.5' (H222240-03)**

BTX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/28/2022	ND	2.07	103	2.00	2.12		
Toluene*	<0.050	0.050	05/28/2022	ND	2.04	102	2.00	1.88		
Ethylbenzene*	<0.050	0.050	05/28/2022	ND	1.93	96.3	2.00	2.39		
Total Xylenes*	<0.150	0.150	05/28/2022	ND	6.00	100	6.00	3.08		
Total BTX	<0.300	0.300	05/28/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	05/31/2022	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	05/27/2022	ND	189	94.3	200	0.783	
DRO >C10-C28*	<10.0	10.0	05/27/2022	ND	181	90.5	200	2.65	
EXT DRO >C28-C36	<10.0	10.0	05/27/2022	ND					

Surrogate: 1-Chlorooctane 112 % 66.9-136

Surrogate: 1-Chlorooctadecane 117 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 05/25/2022  
 Reported: 06/01/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 05/25/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 116 @ 4' (H222240-04)**

BTX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/28/2022	ND	2.07	103	2.00	2.12		
Toluene*	<0.050	0.050	05/28/2022	ND	2.04	102	2.00	1.88		
Ethylbenzene*	<0.050	0.050	05/28/2022	ND	1.93	96.3	2.00	2.39		
Total Xylenes*	<0.150	0.150	05/28/2022	ND	6.00	100	6.00	3.08		
Total BTX	<0.300	0.300	05/28/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	05/31/2022	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	05/27/2022	ND	188	94.1	200	1.79	
DRO >C10-C28*	<10.0	10.0	05/27/2022	ND	192	96.1	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	05/27/2022	ND					

Surrogate: 1-Chlorooctane 118 % 66.9-136

Surrogate: 1-Chlorooctadecane 134 % 59.5-142

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 05/25/2022  
 Reported: 06/01/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 05/25/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 117 @ 5' (H222240-05)**

BTEx 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/28/2022	ND	2.07	103	2.00	2.12		
Toluene*	<0.050	0.050	05/28/2022	ND	2.04	102	2.00	1.88		
Ethylbenzene*	<0.050	0.050	05/28/2022	ND	1.93	96.3	2.00	2.39		
Total Xylenes*	<0.150	0.150	05/28/2022	ND	6.00	100	6.00	3.08		
Total BTEx	<0.300	0.300	05/28/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	05/31/2022	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	05/27/2022	ND	188	94.1	200	1.79	
DRO >C10-C28*	<10.0	10.0	05/27/2022	ND	192	96.1	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	05/27/2022	ND					

Surrogate: 1-Chlorooctane 118 % 66.9-136

Surrogate: 1-Chlorooctadecane 133 % 59.5-142

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 05/25/2022  
 Reported: 06/01/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 05/25/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 118 @ 5' (H222240-06)**

BTEx 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/28/2022	ND	2.07	103	2.00	2.12		
Toluene*	<0.050	0.050	05/28/2022	ND	2.04	102	2.00	1.88		
Ethylbenzene*	<0.050	0.050	05/28/2022	ND	1.93	96.3	2.00	2.39		
Total Xylenes*	<0.150	0.150	05/28/2022	ND	6.00	100	6.00	3.08		
Total BTEx	<0.300	0.300	05/28/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	05/31/2022	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	05/27/2022	ND	188	94.1	200	1.79	
DRO >C10-C28*	<10.0	10.0	05/27/2022	ND	192	96.1	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	05/27/2022	ND					

Surrogate: 1-Chlorooctane 111 % 66.9-136

Surrogate: 1-Chlorooctadecane 126 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 05/25/2022  
 Reported: 06/01/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 05/25/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 119 @ 5' (H222240-07)**

BTX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/28/2022	ND	2.07	103	2.00	2.12		
Toluene*	<0.050	0.050	05/28/2022	ND	2.04	102	2.00	1.88		
Ethylbenzene*	<0.050	0.050	05/28/2022	ND	1.93	96.3	2.00	2.39		
Total Xylenes*	<0.150	0.150	05/28/2022	ND	6.00	100	6.00	3.08		
Total BTX	<0.300	0.300	05/28/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	05/31/2022	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	05/27/2022	ND	188	94.1	200	1.79	
DRO >C10-C28*	<10.0	10.0	05/27/2022	ND	192	96.1	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	05/27/2022	ND					

Surrogate: 1-Chlorooctane 112 % 66.9-136

Surrogate: 1-Chlorooctadecane 126 % 59.5-142

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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### Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



# **CARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476

No Rush

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

Page 10 of 10

Company Name: Etech Environmental & Safety Solutions, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																			
Project Manager: Lance Crenshaw				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																			
Address: 2617 W Marland				Company: Mewbourne																							
City: Hobbs State: NM Zip: 88240				Attn: Robbie Runnels																							
Phone #: (575) 264-9884 Fax #: —				Address: 4801 Business Park Blvd																							
Project #: 15066 Project Owner: Robbie Runnels				City: Hobbs																							
Project Name: Chicago 9-8 WOHE Fee Conl				State: NM Zip: 88240																							
Project Location: Mewbourne Oil Company				Phone #: —																							
Sampler Name: Eric Mojica				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 / SOOL-	OTHER:	DATE	TIME													
H222240																											
1	NW1	C	1			✓				✓			5-25-22		✓	✓	✓										
2	WW8	C	1			✓				✓					✓	✓	✓										
3	FS 115e4 1/2	C	1			✓				✓					✓	✓	✓										
4	FS 116e4	C	1			✓				✓					✓	✓	✓										
5	FS 117e5	C	1			✓				✓					✓	✓	✓										
6	FS 118e5	C	1			✓				✓					✓	✓	✓										
7	FS 119e5	C	1			✓				✓					✓	✓	✓										
<p>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.</p>																											
Relinquished By: Eric Mojica		Date: 5-25-22		Received By: [Signature]		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:		<p>REMARKS:</p> <p>Please email results and copy of CoC to pm@etechenv.com.</p>																	
Relinquished By:		Date:		Received By:		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:																			
		Time:																									
Delivered By: (Circle One) 4.9°C - 0.5°C				Sample Condition				CHECKED BY: [Signature]																			
Sampler - UPS - Bus - Other: 4.4°C #113				Cool Intact																							
				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																							

FOIRM-006  
Revision 1.0

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



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

June 03, 2022

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: CHICAGO 9-8 W0HE FEE COM 1

Enclosed are the results of analyses for samples received by the laboratory on 05/24/22 15:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 05/24/2022  
 Reported: 06/03/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 05/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 106 @ 2' (H222215-01)**

BTEX 8021B		mg/kg		Analyzed By: CK/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/27/2022	ND	2.12	106	2.00	0.185	
Toluene*	<0.050	0.050	05/27/2022	ND	2.08	104	2.00	0.788	
Ethylbenzene*	<0.050	0.050	05/27/2022	ND	2.04	102	2.00	0.451	
Total Xylenes*	<0.150	0.150	05/27/2022	ND	6.32	105	6.00	1.16	
Total BTEX	<0.300	0.300	05/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	05/27/2022	ND	448	112	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	05/26/2022	ND	207	103	200	2.79	
DRO >C10-C28*	15.7	10.0	05/26/2022	ND	203	101	200	6.76	
EXT DRO >C28-C36	<10.0	10.0	05/26/2022	ND					

Surrogate: 1-Chlorooctane 127 % 66.9-136

Surrogate: 1-Chlorooctadecane 129 % 59.5-142

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

Received: 05/24/2022  
 Reported: 06/03/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 05/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 107 @ 6.5' (H222215-02)**

BTEx 8021B		mg/kg		Analyzed By: CK/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/27/2022	ND	2.12	106	2.00	0.185		
Toluene*	<0.050	0.050	05/27/2022	ND	2.08	104	2.00	0.788		
Ethylbenzene*	<0.050	0.050	05/27/2022	ND	2.04	102	2.00	0.451		
Total Xylenes*	<0.150	0.150	05/27/2022	ND	6.32	105	6.00	1.16		
Total BTEx	<0.300	0.300	05/27/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	05/27/2022	ND	448	112	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	05/26/2022	ND	207	103	200	2.79	
DRO >C10-C28*	<10.0	10.0	05/26/2022	ND	203	101	200	6.76	
EXT DRO >C28-C36	<10.0	10.0	05/26/2022	ND					

Surrogate: 1-Chlorooctane 114 % 66.9-136

Surrogate: 1-Chlorooctadecane 112 % 59.5-142

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 05/24/2022  
 Reported: 06/03/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 05/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 108 @ 5.5' (H222215-03)**

BTEx 8021B		mg/kg		Analyzed By: CK/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/27/2022	ND	2.12	106	2.00	0.185		
Toluene*	<0.050	0.050	05/27/2022	ND	2.08	104	2.00	0.788		
Ethylbenzene*	<0.050	0.050	05/27/2022	ND	2.04	102	2.00	0.451		
Total Xylenes*	<0.150	0.150	05/27/2022	ND	6.32	105	6.00	1.16		
Total BTEx	<0.300	0.300	05/27/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	05/27/2022	ND	448	112	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	05/26/2022	ND	207	103	200	2.79	
DRO >C10-C28*	<10.0	10.0	05/26/2022	ND	203	101	200	6.76	
EXT DRO >C28-C36	<10.0	10.0	05/26/2022	ND					

Surrogate: 1-Chlorooctane 128 % 66.9-136

Surrogate: 1-Chlorooctadecane 130 % 59.5-142

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**Analytical Results For:**

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

Received: 05/24/2022  
 Reported: 06/03/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 05/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 109 @ 5.5' (H222215-04)**

BTEx 8021B		mg/kg		Analyzed By: CK/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/27/2022	ND	2.12	106	2.00	0.185	
Toluene*	<0.050	0.050	05/27/2022	ND	2.08	104	2.00	0.788	
Ethylbenzene*	<0.050	0.050	05/27/2022	ND	2.04	102	2.00	0.451	
Total Xylenes*	<0.150	0.150	05/27/2022	ND	6.32	105	6.00	1.16	
Total BTEX	<0.300	0.300	05/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	05/27/2022	ND	448	112	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	05/26/2022	ND	207	103	200	2.79	
DRO >C10-C28*	<10.0	10.0	05/26/2022	ND	203	101	200	6.76	
EXT DRO >C28-C36	<10.0	10.0	05/26/2022	ND					

Surrogate: 1-Chlorooctane 110 % 66.9-136

Surrogate: 1-Chlorooctadecane 112 % 59.5-142

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**Analytical Results For:**

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

Received: 05/24/2022  
 Reported: 06/03/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 05/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 110 @ 5' (H222215-05)**

BTEx 8021B		mg/kg		Analyzed By: CK/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/27/2022	ND	2.12	106	2.00	0.185		
Toluene*	<0.050	0.050	05/27/2022	ND	2.08	104	2.00	0.788		
Ethylbenzene*	<0.050	0.050	05/27/2022	ND	2.04	102	2.00	0.451		
Total Xylenes*	<0.150	0.150	05/27/2022	ND	6.32	105	6.00	1.16		
Total BTEX	<0.300	0.300	05/27/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	05/27/2022	ND	448	112	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	05/26/2022	ND	207	103	200	2.79	
DRO >C10-C28*	<10.0	10.0	05/26/2022	ND	203	101	200	6.76	
EXT DRO >C28-C36	<10.0	10.0	05/26/2022	ND					

Surrogate: 1-Chlorooctane 95.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 96.3 % 59.5-142

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**Analytical Results For:**

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

Received: 05/24/2022  
 Reported: 06/03/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 05/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 111 @ 5' (H222215-06)**

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/27/2022	ND	2.00	99.9	2.00	0.527	
Toluene*	<0.050	0.050	05/27/2022	ND	2.03	102	2.00	1.38	
Ethylbenzene*	<0.050	0.050	05/27/2022	ND	1.94	97.0	2.00	0.128	
Total Xylenes*	<0.150	0.150	05/27/2022	ND	5.79	96.4	6.00	0.338	
Total BTEX	<0.300	0.300	05/27/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	05/27/2022	ND	448	112	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	05/27/2022	ND	207	103	200	2.79	
DRO >C10-C28*	<10.0	10.0	05/27/2022	ND	203	101	200	6.76	
EXT DRO >C28-C36	<10.0	10.0	05/27/2022	ND					

Surrogate: 1-Chlorooctane 93.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 93.1 % 59.5-142

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**Analytical Results For:**

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

Received: 05/24/2022  
 Reported: 06/03/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 05/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: EW 8 (H222215-07)**

BTX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/27/2022	ND	2.00	99.9	2.00	0.527	
Toluene*	<0.050	0.050	05/27/2022	ND	2.03	102	2.00	1.38	
Ethylbenzene*	<0.050	0.050	05/27/2022	ND	1.94	97.0	2.00	0.128	
Total Xylenes*	<0.150	0.150	05/27/2022	ND	5.79	96.4	6.00	0.338	
Total BTX	<0.300	0.300	05/27/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	05/27/2022	ND	448	112	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	05/27/2022	ND	207	103	200	2.79	
DRO >C10-C28*	<10.0	10.0	05/27/2022	ND	203	101	200	6.76	
EXT DRO >C28-C36	<10.0	10.0	05/27/2022	ND					

Surrogate: 1-Chlorooctane 102 % 66.9-136

Surrogate: 1-Chlorooctadecane 101 % 59.5-142

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**Analytical Results For:**

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

Received: 05/24/2022  
 Reported: 06/03/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 05/24/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 112 @ 6' (H222215-08)**

BTEx 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/27/2022	ND	2.00	99.9	2.00	0.527	
Toluene*	<0.050	0.050	05/27/2022	ND	2.03	102	2.00	1.38	
Ethylbenzene*	<0.050	0.050	05/27/2022	ND	1.94	97.0	2.00	0.128	
Total Xylenes*	<0.150	0.150	05/27/2022	ND	5.79	96.4	6.00	0.338	
Total BTEX	<0.300	0.300	05/27/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/27/2022	ND	400	100	400	7.69	

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	05/27/2022	ND	207	103	200	2.79	
DRO >C10-C28*	<10.0	10.0	05/27/2022	ND	203	101	200	6.76	
EXT DRO >C28-C36	<10.0	10.0	05/27/2022	ND					

Surrogate: 1-Chlorooctane 103 % 66.9-136

Surrogate: 1-Chlorooctadecane 100 % 59.5-142

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**Analytical Results For:**

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

Received: 05/24/2022  
 Reported: 06/03/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 05/24/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 113 @ 5' (H222215-09)**

BTEx 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/27/2022	ND	2.00	99.9	2.00	0.527		
Toluene*	<0.050	0.050	05/27/2022	ND	2.03	102	2.00	1.38		
Ethylbenzene*	<0.050	0.050	05/27/2022	ND	1.94	97.0	2.00	0.128		
Total Xylenes*	<0.150	0.150	05/27/2022	ND	5.79	96.4	6.00	0.338		
Total BTEx	<0.300	0.300	05/27/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	05/27/2022	ND	400	100	400	7.69	

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	05/27/2022	ND	207	103	200	2.79	
DRO >C10-C28*	<10.0	10.0	05/27/2022	ND	203	101	200	6.76	
EXT DRO >C28-C36	<10.0	10.0	05/27/2022	ND					

Surrogate: 1-Chlorooctane 98.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 96.2 % 59.5-142

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**Analytical Results For:**

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

Received: 05/24/2022  
 Reported: 06/03/2022  
 Project Name: CHICAGO 9-8 WOHE FEE COM 1  
 Project Number: 15066  
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 05/24/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 114 @ 4.5' (H222215-10)**

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/27/2022	ND	2.00	99.9	2.00	0.527		
Toluene*	<0.050	0.050	05/27/2022	ND	2.03	102	2.00	1.38		
Ethylbenzene*	<0.050	0.050	05/27/2022	ND	1.94	97.0	2.00	0.128		
Total Xylenes*	<0.150	0.150	05/27/2022	ND	5.79	96.4	6.00	0.338		
Total BTEX	<0.300	0.300	05/27/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	05/27/2022	ND	400	100	400	7.69	

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	05/27/2022	ND	207	103	200	2.79	
DRO >C10-C28*	<10.0	10.0	05/27/2022	ND	203	101	200	6.76	
EXT DRO >C28-C36	<10.0	10.0	05/27/2022	ND					

Surrogate: 1-Chlorooctane 98.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 97.4 % 59.5-142

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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.
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

---

Cardinal Laboratories

\*=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



## ARDINAL LABORATORIES

**101 East Marland, Hobbs, NM 88240**

**(575) 393-2326 FAX (575) 393-2476**

No Rush

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 13 of 13

[illegible]

FORM-006  
Revision 1.0

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

## **Appendix E**

### **Regulatory Correspondence**

**Ben Arguijo**

---

**From:** Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>  
**Sent:** Wednesday, December 22, 2021 9:41 AM  
**To:** Ben Arguijo  
**Cc:** Lance Crenshaw; Robbie Runnels; Bratcher, Mike, EMNRD; Hensley, Chad, EMNRD; Velez, Nelson, EMNRD  
**Subject:** (Extension Approval) NAPP2125960064 - Chicago 9/8 W0HE Fee Com #1H Battery

RE: Incident #NAPP2125960064

Ben,

Your request for an extension to **January 31st, 2022** is approved.

**Robert Hamlet** • Environmental Specialist - Advanced  
Environmental Bureau  
EMNRD - Oil Conservation Division  
811 S. First Street | Artesia, NM 88210  
575.909.0302 | [robert.hamlet@state.nm.us](mailto:robert.hamlet@state.nm.us)  
<http://www.emnrd.state.nm.us/OCD/>



---

**From:** Ben Arguijo <bena@etechenv.com>  
**Sent:** Friday, December 10, 2021 10:45 AM  
**To:** Enviro, OCD, EMNRD <OCD.Enviro@state.nm.us>  
**Cc:** ocd.environmental@state.nm.us; Lance Crenshaw <lance@etechenv.com>; Robbie Runnels <rrunnels@mewbourne.com>; Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>  
**Subject:** [EXTERNAL] NAPP2125960064 - Chicago 9/8 W0HE Fee Com #1H Battery - Extension Request

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Dear NMOCD Environmental Bureau,

Mewbourne Oil Company (Mewbourne) has recently contracted Etech Environmental & Safety Solutions, Inc. (Etech), to conduct remediation activities for the release known as the Chicago 9/8 W0HE Fee Com #1H Battery (NMOCD Incident #nAPP2125960064) located in Eddy County. Pursuant to NMOCD regulations, a work plan or closure report is due for the release on December 16, 2021. In consideration of Etech's current workload, the upcoming holidays, and the associated fluctuations in staffing levels as people take leave from work to spend time with loved ones, Etech, on behalf of Mewbourne, would like to request an extension until January 31, 2022, in order to allow us time to conduct a proper site assessment, fully delineate the release, and devise an appropriate remediation strategy to advance the site to an NMOCD-approved closure.

If you have any questions or need any additional information, please do not hesitate to contact me by phone or email.

Thank you for your time and consideration.

Respectfully,  
Ben J. Arguijo

**Ben J. Arguijo**  
Project Manager



2507 79<sup>th</sup> St., Unit A  
Lubbock, TX 79423-2211  
(432) 813-1592

---

Total Control Panel

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To: [ben@etechenvironment.com](mailto:ben@etechenvironment.com)

Message Score: 50

High (60): **Pass**

From: robert.hamlet@state.nm.us

My Spam Blocking Level: High

Medium (75): **Pass**

Low (90): **Pass**

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*This message was delivered because the content filter score did not exceed your filter level.*



**Ben Arguijo**

---

**From:** Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>  
**Sent:** Thursday, April 7, 2022 11:58 AM  
**To:** Ben Arguijo  
**Cc:** Connor Walker; Robbie Runnels; Lance Crenshaw; Bratcher, Mike, EMNRD; Hensley, Chad, EMNRD; Velez, Nelson, EMNRD; Nobui, Jennifer, EMNRD  
**Subject:** (Extensions Denied) NAPP2125960064 & NAPP2200753107 - Chicago 9/8 W0HE Fee Com #1H Battery  
  
**Categories:** NMOCD

RE: Incident **#NAPP2125960064 & NAPP2200753107**

Ben,

An extension for incident **NAPP2125960064** has already been granted. An extension for incident **NAPP2200753107** should have been requested before the remediation due date of 3/24/2022. Your request for extensions on these two incidents is **denied**. Include this e-mail correspondence in the remediation and/or closure report.

**Robert Hamlet** • Environmental Specialist - Advanced  
Environmental Bureau  
EMNRD - Oil Conservation Division  
811 S. First Street | Artesia, NM 88210  
575.909.0302 | [robert.hamlet@state.nm.us](mailto:robert.hamlet@state.nm.us)  
<http://www.emnrd.state.nm.us/OCD/>



---

**From:** Ben Arguijo <bena@etechenv.com>  
**Sent:** Wednesday, April 6, 2022 2:33 PM  
**To:** Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>; Enviro, OCD, EMNRD <OCD.Enviro@state.nm.us>; ocd.environmental@state.nm.us  
**Cc:** Connor Walker <cwalker@mewbourne.com>; Robbie Runnels <rrunnels@mewbourne.com>; Lance Crenshaw <lance@etechenv.com>  
**Subject:** [EXTERNAL] nAPP2125960064 & APP2200753107 - Extension requests - Chicago 9/8 W0HE Fee Com #1H Battery

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Dear NMOCD Environmental Bureau,

Mewbourne Oil Company (Mewbourne) has contracted Etech Environmental & Safety Solutions, Inc. (Etech), to perform remediation activities for the releases known as the Chicago 9/8 W0HE Fee Com #1H Battery: NMOCD Incident #'s nAPP2125960064 (9/7/21) and nAPP2200753107 (12/24/21). The releases occurred in the same tank battery facility and affected a similar area, and Etech was in the process of delineating and remediating the 9/7/21 release when the

12/24/21 release occurred. Pursuant to NMOCD regulations, a work plan or closure report was due for the 12/24/21 release on 3/24/22. However, Etech has not yet had an opportunity to complete delineation of the commingled impacted area, as the tank battery affected by the releases is in the process of being relocated to another area of the location.

In consideration of this situation, Etech, on behalf of Mewbourne, would like to request an extension until July 1, 2022, in order to 1.) allow Etech time to fully delineate and/or excavate the commingled releases and devise a strategy to advance the site to an NMOCD-approved closure, and 2.) allow time for upcoming fracking activities in the region to be completed. The upcoming fracking activities have the potential to introduce additional safety and environmental concerns on-site due to the increased traffic and personnel that would not otherwise be present under normal operations.

Thank you for your time and consideration.

Respectfully,  
Ben J. Arguijo

**Ben J. Arguijo**  
Project Manager



2507 79<sup>th</sup> St., Unit A  
Lubbock, TX 79423-2211  
(432) 813-1592

---

**Total Control Panel**[Login](#)

To: [ben@etechnv.com](mailto:ben@etechnv.com)  
From: robert.hamlet@state.nm.us

Message Score: 1  
My Spam Blocking Level: High

High (60): **Pass**  
Medium (75): **Pass**  
Low (90): **Pass**

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

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

CONDITIONS

Action 183407

CONDITIONS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 183407
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your closure report and final C-141 for Incident #NAPP2200753107 CHICAGO 9/8 W0HE FEE COM #1H BATTERY, thank you. This closure is approved.	6/9/2023