

Incident ID	nAPP2118727790
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>265</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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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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I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Connor Walker Title: Sr. Engineer
Signature:  Date: 10/27/2021
email: cwalker@mewbourne.com Telephone: (806) 202-5281

OCD Only

Received by: _____ Date: _____

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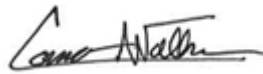
Closure

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: 10/27/2021
email: cwalker@mewbourne.com Telephone: (806) 202-5281

OCD Only

Received by: Chad Hensley Date: 12/01/2021

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

Closure Approved by:  Date: 12/01/2021
Printed Name: Chad Hensley Title: Environmental Specialist Advanced

Remediation Summary & Soil Closure Request


Mewbourne Oil Company Paduca 7/6 W1FC Fed Com #2H Flowline

Lea County, New Mexico
Unit Letter "E", Section 7, Township 26 South, Range 32 East
Latitude 32.05815 North, Longitude 103.71988 West
NMOCD Reference No. nAPP2118727790

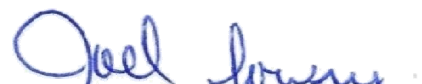
Prepared By:

Etech Environmental & Safety Solutions, Inc.

2617 W. Marland
Hobbs, New Mexico 88240



Ben J. Arguijo



Joel W. Lowry



Midland • San Antonio • Lubbock • Hobbs • Lafayette

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1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Mewbourne Oil Company, has prepared this *Remediation Summary & Soil Closure Request* for the release site known as the Paduca 7/6 W1FC Fed Com #2H Flowline (henceforth, "Site"). Details of the release are summarized below:

Location of Release Source

Latitude: 32.05815 Longitude: -103.71988

Provided GPS are in WGS84 format.

Site Name: Paduca 7/6 W1FC Fed Com #2H Flowline	Site Type: Flowline
Date Release Discovered: 6/30/2021	API # (if applicable): N/A

Unit Letter	Section	Township	Range	County
"E"	7	26S	32E	Lea

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

Nature and Volume of Release

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 40	Volume Recovered (bbls) 7
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 135	Volume Recovered (bbls) 23
	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 4 1/2" steel flowline developed a leak.		

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 NMOCD Form C-141 are available on the NMOCD Imaging System.

2.0 SITE CHARACTERIZATION

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

What is the shallowest depth to groundwater beneath the area affected by the release?	265'		
Did the release impact groundwater or surface water?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Are the lateral extents of the release within 300 feet of any occupied permanent residence, school, hospital, institution or church?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Are the lateral extents of the release within the incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Did the release impact areas not on an exploration, development, production or storage site?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	

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

3.0 CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE

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

Probable Depth to Groundwater	Constituent	Laboratory Analytical Method	Closure Criteria*†	Reclamation Standard*‡
265'	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	-	-
	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 INITIAL SITE ASSESSMENT

On July 8, 2021, Etech conducted an initial site assessment. During the initial site assessment, six (6) hand-augered soil bores (NH 1, NH 2, EH, SH 1, SH 2, and WH) were advanced at the inferred edges of the affected area in an effort to determine the horizontal extent of impacted soil. In addition, six (6) hand-augered soil bores (SP 1 through SP 6) were advanced within the inferred margins of the affected area in an effort to determine the vertical extent of impacted soil. During the advancement of the hand-augered soil bores, field 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 (henceforth, "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 @ Surface, EH @ 1', SH 1 @ Surface, SH 1 @ 1', SH 2 @ Surface, SH 2 @ 1', WH @ Surface, WH @ 1', SP 1 @ Surface, SP 1 @ 1'-R, SP 2 @ Surface, SP 2 @ 3'-R, SP 3 @ Surface, SP 3 @ 1'-R, SP 4 @ Surface, SP 4 @ 2', SP 5 @ Surface, SP 5 @ 3'-R, SP 6 @ Surface, and SP 6 @ 1') were submitted to a certified commercial laboratory for analysis of BTEX, TPH, and chloride. Based on laboratory analytical results, the horizontal extent of impacted soil was adequately defined. However, additional delineation and/or excavation was required to determine the vertical extent of impacted soil.

5.0 REMEDIATION ACTIVITIES SUMMARY

On July 12, 2021, remediation activities commenced at the Site. In accordance with NMOCD regulatory guidelines, impacted soil affected above the NMOCD Closure Criteria was excavated and stockpiled on-site, pending transfer to an NMOCD-permitted surface waste facility for disposal. Olfactory/visual senses and/or a chloride test kit were utilized to field-screen the horizontal and vertical extent of impacted soil and to guide the excavation. The floor and sidewalls of the excavation were advanced until field tests and field observations suggested BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards.

On July 13, 2021, Etech collected 10 confirmation soil samples (EW 1, EW 2, SW 1, SW 2, WW 1, WW 2, and F1 @ 4' through F4 @ 3') from the sidewalls and floor of the excavated area. The soil samples were submitted to a certified commercial laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples, with the exceptions of soil samples EW 2 (477 mg/kg TPH), F1 @ 4' (472 mg/kg TPH), F2 @ 4' (4,042 mg/kg TPH), and F4 @ 3' (432 mg/kg TPH).

On July 14, 2021, Etech collected 15 confirmation soil samples (AEW1, AEW2, AEW3, AWW1, AWW2, AWW3, WW 3, and F5 @ 9' through F12 @ 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 concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples, with the exceptions of soil samples F6 @ 5' (656 mg/kg Cl-), FL @ 5' (334 mg/kg TPH), and FL12 @ 5' (294 mg/kg TPH).

On July 16, 2021, Etech collected six (6) confirmation soil samples (AEW4, AWW4, and F13 @ 8' through F16 @ 8') 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 concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples.

On July 20, 2021, the excavation was further advanced in the areas characterized by soil samples F1 @ 4', F2 @ 4', and F4 @ 3'. Etech collected 14 confirmation soil samples (BEW 1, BW 1, EW2 N, F1 @ 5' N, F2 @ 5' N, F4 @ 5' N, F6 @ 6' N, F11 @ 6' N, F12 @ 6' N, F17 @ 4' N, F18 @ 4' N, F19 @ 4', F20 @ 7', and F21 @ 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, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standards in each of the submitted soil samples, with the exceptions of soil samples F1 @ 5' N (314 mg/kg TPH), F2 @ 5' N (324 mg/kg TPH), and F4 @ 5' N (284 mg/kg TPH).

On July 22, 2021, Etech collected five (5) confirmation soil samples (CEW 1 @ 0 - 8' and F22 @ 8' through F25 @ 8') 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 concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples, with the exception of soil sample CEW 1 @ 0 - 8' (656 mg/kg Cl-).

On July 27, 2021, Etech collected one (1) confirmation soil sample (SSW # 5 @ 3') from the sidewall of the excavated area. The soil sample was submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards.

On July 28, 2021, Etech collected 16 confirmation soil samples (A WSW #5 @ 10', ESW # 2 @ 10.5' through ESW # 5 @ 3', SSW B #4 @ 9', WSW # 6 @ 9', WSW # 7 @ 3', WSW # 8 @ 3', and FL #26 @ 10.5' through FL #32 @ 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 concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples.

On July 29, 2021, Etech collected nine (9) confirmation soil samples (ESW # 6 @ 3', ESW # 7 @ 4', ESW # 8 @ 4', WSW # 9 @ 3', WSW # 10 @ 4', WSW # 11 @ 4', FL #33 @ 3', FL #34 @ 3', and FL #35 @ 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, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples.

On July 30, 2021, Etech collected eight (8) confirmation soil samples (ESW # 10 @ 9', ESW # 11 @ 10', WSW # 13 @ 9', WSW #14 @ 10', and FL #37 @ 9' through FL #40 @ 10') 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 concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples, with the exception of soil sample FL #38 @ 9' (641 mg/kg TPH).

On August 3, 2021, Etech collected nine (9) confirmation soil samples (NSW # 1 @ 10' and FL #41 @ 8' through FL #49 @ 8') 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 concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples, with the exception of soil sample FL #41 @ 8' (156 mg/kg TPH).

On August 4, 2021, the excavation was further advanced in the areas characterized by soil samples F1 @ 5' N, F2 @ 5' N, and F4 @ 5' N. Etech collected 11 confirmation soil samples (NSW #2, SSW #6, FL #1 @ 5', FL #2 @ 5', FL #4 @ 6', FL #48 @ 10', FL #50 @ 10' through FL #53 @ 8', and FL #55 @ 8') 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 concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples.

On August 5, 2021, the excavation was further advanced in the areas characterized by soil samples CEW 1 @ 0 - 8', EW 2, and FL #38 @ 9'. Etech collected 11 confirmation soil samples (CEW #1.B., EW # 2 .B., FL #38 @ 10', FL #54 @ 10', and FL #56 @ 8' through FL #62 @ 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, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples.

On August 6, 2021, Etech collected six (6) confirmation soil samples (ESW #12 and FL #63 @ 10' through FL #67 @ 10') 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 concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples.

On August 9, 2021, Etech collected six (6) confirmation soil samples (NSW #3, SSW #7, SSW #8, FL #68 @ 8', FL #69 @ 10', and FL #70 @ 10') 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 concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples.

On August 12, 2021, Etech collected 12 confirmation soil samples (NSW 4 @ 0-7', SSW 9 @ 0-8', and FL #71 @ 8' through FL #80 @ 4') 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 concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples, with the exceptions of soil samples FL #71 @ 8' (144 mg/kg TPH) and FL #77 @ 4' (624 mg/kg Cl-).

On August 13, 2021, Etech collected two (2) confirmation soil samples (NSW 3B @ 0-8' and SSW 10B @ 0-8') from the sidewalls of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples.

On August 17, 2021, Etech collected five (5) confirmation soil samples (FL 81 @ 6' through FL 84 @ 6' and FL 91 @ 8') 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 concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples, with the exceptions of soil samples FL 81 @ 6' (201 mg/kg TPH) and FL 83 @ 6' (194 mg/kg TPH).

On August 18, 2021, the excavation was further advanced in the areas characterized by soil samples FL #71 @ 8' and FL #77 @ 4'. Etech collected seven (7) confirmation soil samples (SSW 12B @ 0-9', SSW 13B @ 0-9', FL 71A @ 8.5', FL 77A @ 4.5', FL 88A @ 9', FL 89A @ 9', and FL 90A @ 9') 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 concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples.

On August 19, 2021, Etech collected one (1) confirmation soil sample (NSW 5B @ 0-6') from the sidewall of the excavated area. The soil sample was submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards.

On August 20, 2021, Etech collected four (4) confirmation soil samples (ESW #14, SSW #14, FL 92 @ 12', and FL 93 @ 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, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples.

On August 23, 2021, Etech collected five (5) confirmation soil samples (NSW #6, FL #36 @ 8', FL #86 @ 12', FL #94 @ 9', and FL #95 @ 9') 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 concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples.

On August 24, 2021, Etech collected three (3) confirmation soil samples (ESW #15, FL #85 @ 11', and FL #87 @ 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, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples.

On August 26, 2021, the excavation was further advanced in the areas characterized by soil samples FL 81 @ 6' and FL 83 @ 6'. Etech collected five (5) confirmation soil samples (ESW #16, FL #81 @ 7', FL #83 @ 7', FL #96 @ 15', and FL #98 @ 10') 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 concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples, with the exception of soil sample FL #98 @ 10' (255 mg/kg TPH).

On August 27, 2021, Etech collected five (5) confirmation soil samples (NSW #7, SSW #12, FL #97 @ 15', FL #99 @ 12', and FL #102 @ 9') 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 concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples.

On August 30, 2021, Etech collected four (4) confirmation soil samples (FL #98 @ 11', FL #100 @ 18', FL #101 @ 12', and FL #103 @ 9') 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 concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples.

On August 31, 2021, Etech collected six (6) confirmation soil samples (NSW #8, SSW #13, and FL #104 @ 10' through FL #107 @ 8') 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 concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples, with the exceptions of soil samples FL #104 @ 10' (309 mg/kg TPH) and FL #106 @ 9' (162 mg/kg TPH).

On September 1, 2021, Etech collected six (6) confirmation soil samples (NSW #9, SSW #14, and FL #108 @ 8' through FL #111 @ 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, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples, with the exceptions of soil samples FL #108 @ 8' (235 mg/kg TPH) and FL #111 @ 7' (193 mg/kg TPH).

On September 2, 2021, Etech collected four (4) confirmation soil samples (ESW #17 and FL #112 @ 14' through FL #114 @ 8') 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 concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples.

On September 7, 2021, the excavation was further advanced in the areas characterized by soil samples FL #104 @ 10', FL #106 @ 9', FL #108 @ 8', and FL #111 @ 7'. Etech collected four (4) confirmation soil samples (FL #104 @ 11', FL #106 @ 10', FL #108 @ 9', and FL #111 @ 8') from the floor of the excavated area. The soil samples were submitted to the laboratory for analysis of TPH. Laboratory analytical results indicated TPH concentrations were below the NMOCD Closure Criteria and NMOCD Reclamation Standard in each of the submitted soil samples.

On September 9, 2021, the excavation was further advanced in the area characterized by soil sample FL #41 @ 8'. Etech collected seven (7) confirmation soil samples (ESW #3, ESW #9, SSW #3, SSW #11, SSW #15, WSW #12, and FL #41 @ 9') 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 concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples.

The final dimensions of the excavated area were approximately 215 to 416 feet in length, eight (8) to 102 feet in width, and three (3) to 18 feet in depth. During the course of remediation activities, approximately 12,820 cubic yards of impacted soil was transported to an NMOCD-permitted surface waste facility for disposal. An approximately equal amount of locally sourced, non-impacted material was imported 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 is provided in Appendix B. General photographs of the Site are provided in Appendix C. Laboratory analytical reports are provided in Appendix D.

6.0 RESTORATION, RECLAMATION & RE-VEGETATION PLAN

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

7.0 SOIL CLOSURE REQUEST

Remediation activities were conducted in accordance with applicable NMOCD regulations. 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 concentrations of BTEX, TPH, and chloride are below the NMOCD Closure Criteria and NMOCD Reclamation Standard.

Based on laboratory analytical results and field activities conducted to date, Etech recommends Mewbourne Oil Company provide copies of this *Remediation Summary & Soil Closure Request* to the appropriate agencies and request closure be granted to the Site.

8.0 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.

9.0 DISTRIBUTION

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

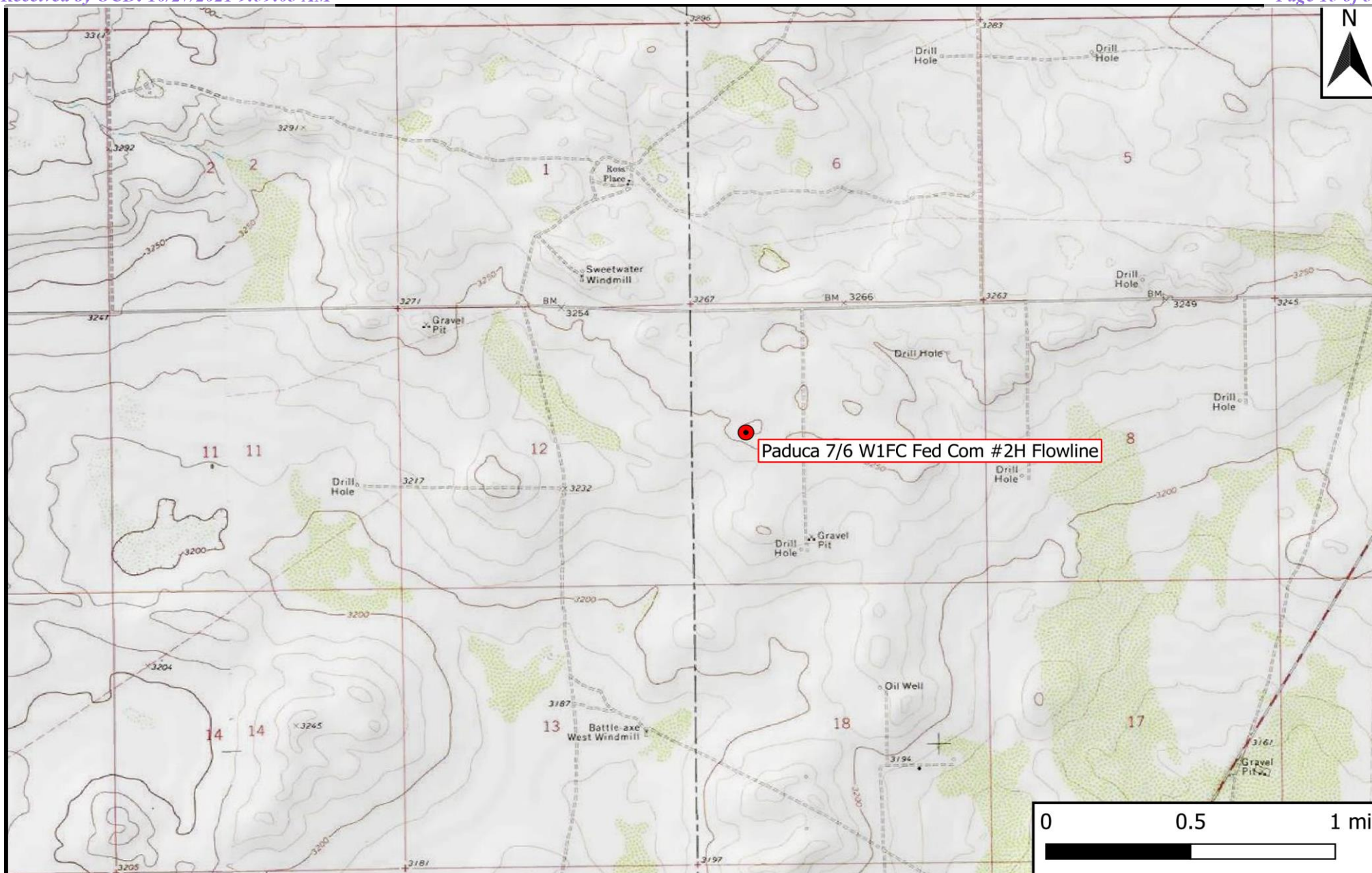
New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division, District 1
1220 South St. Francis Drive
Santa Fe, NM 87505

United States Department of the Interior
Bureau of Land Management
620 E. Greene Street
Carlsbad, NM 88220

(Electronic Submission)

Figure 1

Topographic Map



Legend

- Site Location

Figure 1

Topographic Map
 Mewbourne Oil Company
 Paduca 7/6 W1FC Fed Com #2H Flowline
 GPS: 32.057429, -103.720461
 Lea County

ETECH

Environmental & Safety Solutions, Inc.



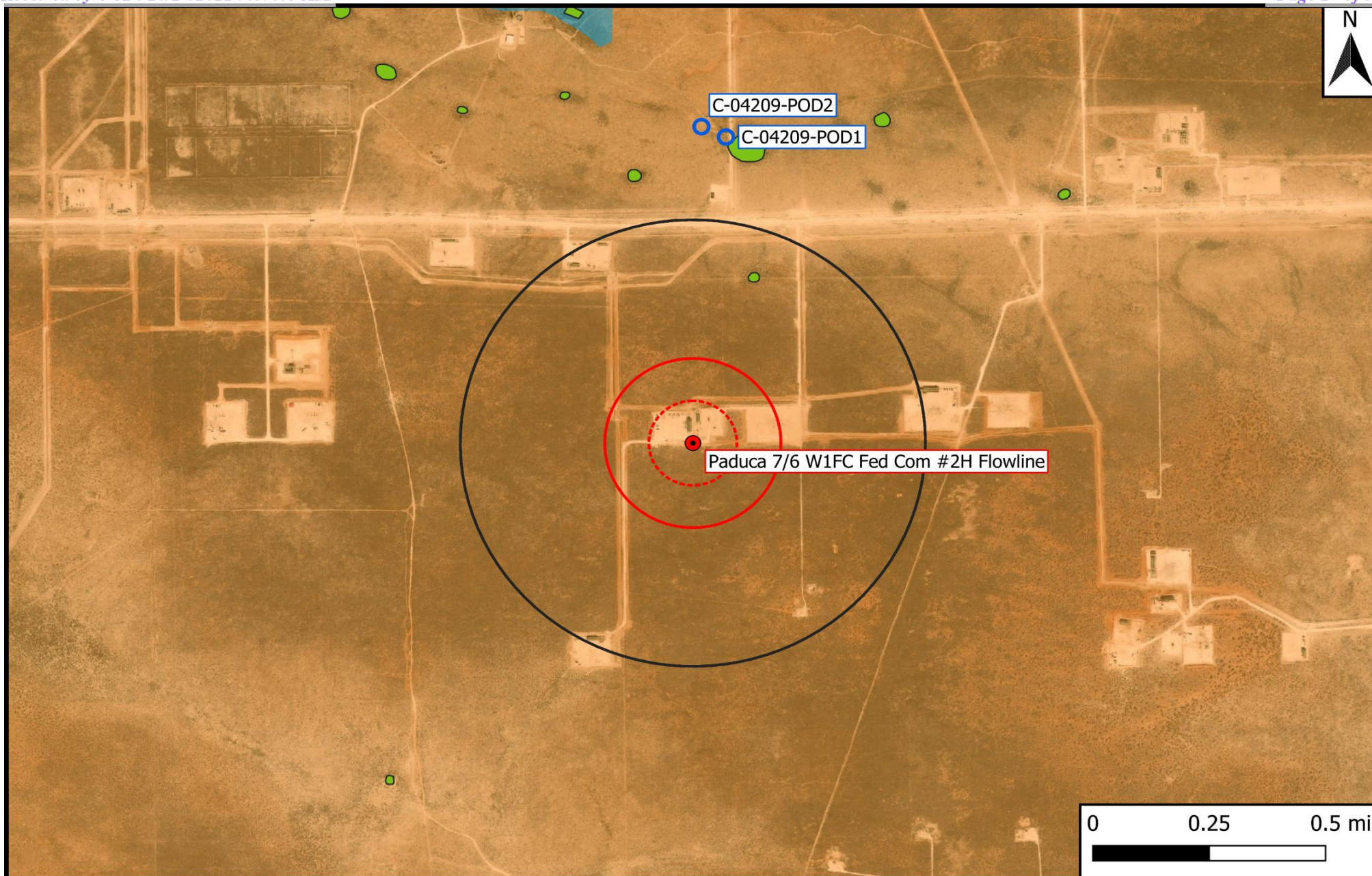
Drafted: bja

Checked: jwl

Date: 8/16/21

Figure 2

Aerial Proximity 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 - Investigative/Monitor | Medium/High Karst | |
| — Potash Mine Workings | Riverine | |

Figure 2

Aerial Proximity Map
 Mewbourne Oil Company
 Paduca 7/6 W1FC Fed Com #2H Flowline
 GPS: 32.057429, -103.720461
 Lea County



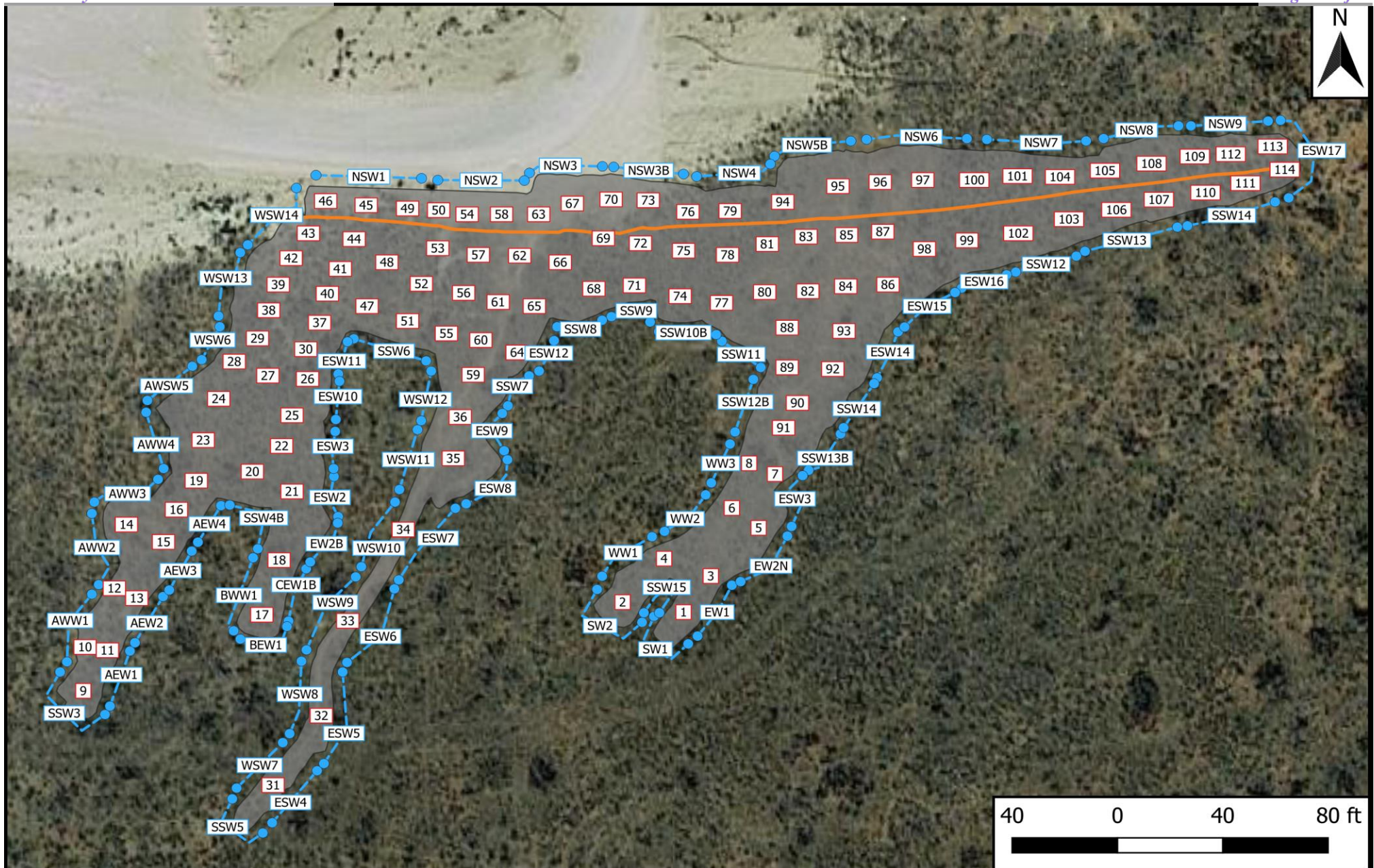
Drafted: bja

Checked: jwl

Date: 8/16/21

Figure 3

Site & Sample Location Map



Legend

- Excavation Extent
- Composite Floor Sample
- Composite Wall Sample
- Pipeline

Figure 3

Site & Sample Location Map
 Mewbourne Oil Company
 Paduca 7/6 W1FC Fed Com #2H Flowline
 GPS: 32.05815, -103.71988
 Lea County



Revised: bja

Drafted: mag

Date: 10/18/21

Table 1
Concentrations of BTEX, TPH & Chloride in Soil

Table 1
Concentrations of BTEX, TPH & Chloride in Soil
Mewbourne Oil Company
Paduca 7/6 W1FC Fed Com #2H Flowline
NMOCD Ref. #: nAPP2118727790

NMOCD Closure Criteria				10	50	-	-	-	-	100	600
NMOCD Reclamation Standard				10	50	-	-	-	-	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
Delineation Samples											
NH 1 @ Surface	7/8/2021	0	Excavated	<0.050	<0.300	<10.0	108	108	11.9	120	32.0
NH 1 @ 1'	7/8/2021	1	Excavated	<0.050	<0.300	<10.0	192	192	15.9	208	64.0
NH 2 @ Surface	7/8/2021	0	In-Situ	<0.050	<0.300	<10.0	24.7	24.7	<10.0	24.7	<16.0
NH 2 @ 1'	7/8/2021	1	In-Situ	<0.050	<0.300	<10.0	24.4	24.4	<10.0	24.4	<16.0
EH @ Surface	7/8/2021	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
EH @ 1'	7/8/2021	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SH 1 @ Surface	7/8/2021	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SH 1 @ 1'	7/8/2021	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SH 2 @ Surface	7/8/2021	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SH 2 @ 1'	7/8/2021	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
WH @ Surface	7/8/2021	0	In-Situ	<0.050	<0.300	<10.0	18.3	18.3	<10.0	18.3	<16.0
WH @ 1'	7/8/2021	1	In-Situ	<0.050	<0.300	<10.0	14.9	14.9	<10.0	14.9	<16.0
SP 1 @ Surface	7/8/2021	0	Excavated	<0.050	21.7	715	6,580	7,300	836	8,130	5,040
SP 1 @ 1'-R	7/8/2021	1	Excavated	<0.050	0.670	41.9	1,180	1,220	196	1,420	5,520
SP 2 @ Surface	7/8/2021	0	Excavated	<0.050	0.443	57.7	3,640	3,700	544	4,240	1,760
SP 2 @ 3'-R	7/8/2021	3	Excavated	<0.050	<0.300	<10.0	747	747	125	872	5,440
SP 3 @ Surface	7/8/2021	0	Excavated	<0.050	7.07	1,410	47,600	49,000	8,190	57,200	5,920
SP 3 @ 1'-R	7/8/2021	1	Excavated	<0.050	0.325	22.3	1,160	1,180	235	1,420	2,960
SP 4 @ Surface	7/8/2021	0	Excavated	<0.050	1.83	263	19,300	19,600	4,000	23,600	288
SP 4 @ 2'	7/8/2021	2	Excavated	<0.050	<0.300	<10.0	1,060	1,060	201	1,260	400
SP 5 @ Surface	7/8/2021	0	Excavated	<0.050	9.45	627	14,800	15,400	2,240	17,700	1,380
SP 5 @ 3'-R	7/8/2021	3	Excavated	<0.500	87.7	3,390	18,600	22,000	2,490	24,500	4,800
SP 6 @ Surface	7/8/2021	0	Excavated	<0.050	<0.300	<10.0	703	703	127	830	96.0
SP 6 @ 1'	7/8/2021	1	Excavated	<0.050	<0.300	<10.0	74.5	74.5	14.9	89.4	176
Excavation Samples											
AEW1	7/14/2021	0 - 6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
AEW2	7/14/2021	0 - 8	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
AEW3	7/14/2021	0 - 8	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
AEW4	7/16/2021	0 - 8	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	512
AWW1	7/14/2021	0 - 5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
AWW2	7/14/2021	0 - 8	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
AWW3	7/14/2021	0 - 8	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
AWW4	7/16/2021	0 - 8	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
A WSW #5 @ 10'	7/28/2021	0 - 10	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
BEW 1	7/20/2021	0 - 4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
BWW 1	7/20/2021	0 - 4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
CEW 1 @ 0 - 8'	7/22/2021	0 - 8	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	656
CEW #1.B.	8/5/2021	0 - 8	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
NSW # 1 @ 10'	8/3/2021	0 - 10	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
NSW #2	8/4/2021	0 - 10	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0

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

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

Table 1
Concentrations of BTEX, TPH & Chloride in Soil
Mewbourne Oil Company
Paduca 7/6 W1FC Fed Com #2H Flowline
NMOCD Ref. #: nAPP2118727790

NMOCD Closure Criteria				10	50	-	-	-	-	100	600
NMOCD Reclamation Standard				10	50	-	-	-	-	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
NSW #3	8/9/2021	0 - 10	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
NSW 3B @ 0-8'	8/13/2021	0 - 8	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
NSW 4 @ 0-7'	8/12/2021	0 - 7	In-Situ	<0.050	<0.300	<10.0	72.5	72.5	<10.0	72.5	176
NSW 5B @ 0-6'	8/19/2021	0 - 6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
NSW #6	8/23/2021	0 - 15	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	592
NSW #7	8/27/2021	0 - 12	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
NSW #8	8/31/2021	0 - 13	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
NSW #9	9/1/2021	0 - 13	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
EW 1	7/13/2021	0 - 4	In-Situ	<0.050	<0.300	<10.0	15.0	15.0	<10.0	15.0	32.0
EW 2	7/13/2021	0 - 9	Excavated	<0.050	0.314	14.1	424	438	39.0	477	512
EW2 N	7/20/2021	0 - 9	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	480
ESW # 2 @ 10.5'	7/28/2021	0 - 10.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
EW # 2 .B.	8/5/2021	0 - 9	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
ESW # 3 @ 10'	7/28/2021	0 - 10	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
ESW #3	9/9/2021	0 - 8	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
ESW # 4 @ 3'	7/28/2021	0 - 3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
ESW # 5 @ 3'	7/28/2021	0 - 3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
ESW # 6 @ 3'	7/29/2021	0 - 3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
ESW # 7 @ 4'	7/29/2021	0 - 4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
ESW # 8 @ 4'	7/29/2021	0 - 4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
ESW #9	9/9/2021	0 - 8	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
ESW # 10 @ 9'	7/30/2021	0 - 9	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
ESW # 11 @ 10'	7/30/2021	0 - 10	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
ESW #12	8/6/2021	0 - 7	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
ESW #14	8/20/2021	0 - 12	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
ESW #15	8/24/2021	0 - 12	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
ESW #16	8/26/2021	0 - 12	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
ESW #17	9/2/2021	0 - 14	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
SW 1	7/13/2021	0 - 5	In-Situ	<0.050	<0.300	<10.0	19.0	19.0	<10.0	19.0	48.0
SW 2	7/13/2021	0 - 5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SSW #3	9/9/2021	0 - 4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
SSW B #4 @ 9'	7/28/2021	0 - 9	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
SSW # 5 @ 3'	7/27/2021	0 - 3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SSW #6	8/4/2021	0 - 8	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SSW #7	8/9/2021	0 - 7	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
SSW #8	8/9/2021	0 - 8	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
SSW 9 @ 0-8'	8/12/2021	0 - 8	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
SSW 10B @ 0-8'	8/13/2021	0 - 8	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	400
SSW #11	9/9/2021	0 - 9	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
SSW 12B @ 0-9'	8/18/2021	0 - 9	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	528
SSW #12	8/27/2021	0 - 12	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128

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

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Mewbourne Oil Company
Paduca 7/6 W1FC Fed Com #2H Flowline
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Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
SSW 13B @ 0-9'	8/18/2021	0 - 9	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
SSW #13	8/31/2021	0 - 9	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
SSW #14	8/20/2021	0 - 9	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	336
SSW #14	9/1/2021	0 - 8	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
SSW #15	9/9/2021	0 - 6	In-Situ	<0.050	<0.300	<10.0	41.3	41.3	10.6	51.9	240
WW 1	7/13/2021	0 - 3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
WW 2	7/13/2021	0 - 6	In-Situ	<0.050	<0.300	<10.0	27.2	27.2	<10.0	27.2	64.0
WW 3	7/14/2021	0 - 8	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
WSW # 6 @ 9'	7/28/2021	0 - 9	In-Situ	<0.050	<0.300	<10.0	12.1	12.1	<10.0	12.1	448
WSW # 7 @ 3'	7/28/2021	0 - 3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
WSW # 8 @ 3'	7/28/2021	0 - 3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
WSW # 9 @ 3'	7/29/2021	0 - 3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
WSW # 10 @ 4'	7/29/2021	0 - 4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
WSW # 11 @ 4'	7/29/2021	0 - 4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
WSW #12	9/9/2021	0 - 8	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
WSW # 13 @ 9'	7/30/2021	0 - 9	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
WSW #14 @ 10'	7/30/2021	0 - 10	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
F1 @ 4'	7/13/2021	4	Excavated	<0.050	<0.300	10.9	421	432	39.7	472	224
F1 @ 5' N	7/20/2021	5	Excavated	<0.050	<0.300	<10.0	278	278	36.4	314	224
FL #1 @ 5'	8/4/2021	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
F2 @ 4'	7/13/2021	4	Excavated	<0.050	10.4	319	3,320	3,640	403	4,040	320
F2 @ 5' N	7/20/2021	5	Excavated	<0.050	<0.300	<10.0	284	284	39.5	324	224
FL #2 @ 5'	8/4/2021	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
F3 @ 3'	7/13/2021	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
F4 @ 3'	7/13/2021	3	Excavated	<0.050	0.514	20.4	605	625	74.3	700	432
F4 @ 5' N	7/20/2021	5	Excavated	<0.050	<0.300	<10.0	244	244	40.4	284	240
FL #4 @ 6'	8/4/2021	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
F5 @ 9'	7/14/2021	9	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
F6 @ 5'	7/14/2021	5	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	656
F6 @ 6' N	7/20/2021	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
F7 @ 8'	7/14/2021	8	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	592
F8 @ 8'	7/14/2021	8	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	368
F9 @ 4'	7/14/2021	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
F10 @ 5'	7/14/2021	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
F11 @ 5'	7/14/2021	5	Excavated	<0.050	<0.300	<10.0	284	284	49.5	334	96.0
F11 @ 6' N	7/20/2021	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
F12 @ 5'	7/14/2021	5	Excavated	<0.050	<0.300	<10.0	252	252	41.7	294	128
F12 @ 6' N	7/20/2021	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
F13 @ 8'	7/16/2021	8	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
F14 @ 8'	7/16/2021	8	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
F15 @ 8'	7/16/2021	8	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0

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

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

Table 1
Concentrations of BTEX, TPH & Chloride in Soil
Mewbourne Oil Company
Paduca 7/6 W1FC Fed Com #2H Flowline
NMOCD Ref. #: nAPP2118727790

NMOCD Closure Criteria				10	50	-	-	-	-	100	600
NMOCD Reclamation Standard				10	50	-	-	-	-	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
F16 @ 8'	7/16/2021	8	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
F17 @ 4' N	7/20/2021	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
F18 @ 4' N	7/20/2021	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
F19 @ 4'	7/20/2021	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
F20 @ 7'	7/20/2021	7	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
F21 @ 7'	7/20/2021	7	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
F22 @ 8'	7/22/2021	8	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
F23 @ 8'	7/22/2021	8	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
F24 @ 8'	7/22/2021	8	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
F25 @ 8'	7/22/2021	8	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FL #26 @ 10.5'	7/28/2021	10.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
FL #27 @ 10'	7/28/2021	10	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
FL #28 @ 10'	7/28/2021	10	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
FL #29 @ 9'	7/28/2021	9	In-Situ	<0.050	<0.300	<10.0	24.7	24.7	<10.0	24.7	128
FL #30 @ 10'	7/28/2021	10	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FL #31 @ 3'	7/28/2021	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL #32 @ 3'	7/28/2021	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	384
FL #33 @ 3'	7/29/2021	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FL #34 @ 3'	7/29/2021	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL #35 @ 7'	7/29/2021	7	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
FL #36 @ 8'	8/23/2021	8	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FL #37 @ 9'	7/30/2021	9	In-Situ	<0.050	<0.300	<10.0	92.8	92.8	<10.0	92.8	352
FL #38 @ 9'	7/30/2021	9	Excavated	<0.050	<0.300	28.1	556	584	56.8	641	256
FL #38 @ 10'	8/5/2021	10	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL #39 @ 10'	7/30/2021	10	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL #40 @ 10'	7/30/2021	10	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
FL #41 @ 8'	8/3/2021	8	Excavated	<0.050	<0.300	<10.0	143	143	13.3	156	400
FL #41 @ 9'	9/9/2021	9	In-Situ	<0.050	<0.300	<10.0	31.5	31.5	<10.0	31.5	240
FL #42 @ 14'	8/3/2021	14	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FL #43 @ 14'	8/3/2021	14	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL #44 @ 8'	8/3/2021	8	In-Situ	<0.050	<0.300	<10.0	14.8	14.8	<10.0	14.8	144
FL #45 @ 10'	8/3/2021	10	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL #46 @ 10'	8/3/2021	10	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL #47 @ 8'	8/3/2021	8	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FL #48 @ 10'	8/4/2021	10	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL #49 @ 8'	8/3/2021	8	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	400
FL #50 @ 10'	8/4/2021	10	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL #51 @ 8'	8/4/2021	8	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
FL #52 @ 8'	8/4/2021	8	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL #53 @ 8'	8/4/2021	8	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL #54 @ 10'	8/5/2021	10	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.

Table 1
Concentrations of BTEX, TPH & Chloride in Soil
Mewbourne Oil Company
Paduca 7/6 W1FC Fed Com #2H Flowline
NMOCD Ref. #: nAPP2118727790

NMOCD Closure Criteria				10	50	-	-	-	-	100	600
NMOCD Reclamation Standard				10	50	-	-	-	-	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
FL #55 @ 8'	8/4/2021	8	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL #56 @ 8'	8/5/2021	8	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL #57 @ 8'	8/5/2021	8	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
FL #58 @ 10'	8/5/2021	10	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FL #59 @ 7'	8/5/2021	7	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
FL #60 @ 7'	8/5/2021	7	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL #61 @ 7'	8/5/2021	7	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	336
FL #62 @ 7'	8/5/2021	7	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
FL #63 @ 10'	8/6/2021	10	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FL #64 @ 7'	8/6/2021	7	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
FL #65 @ 7'	8/6/2021	7	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
FL #66 @ 8'	8/6/2021	8	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	400
FL #67 @ 10'	8/6/2021	10	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
FL #68 @ 8'	8/9/2021	8	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FL #69 @ 10'	8/9/2021	10	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
FL #70 @ 10'	8/9/2021	10	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	336
FL #71 @ 8'	8/12/2021	8	Excavated	<0.050	<0.300	<10.0	126	126	17.9	144	208
FL 71A @ 8.5'	8/18/2021	8.5	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	-
FL #72 @ 8'	8/12/2021	8	In-Situ	<0.050	<0.300	<10.0	68.8	68.8	<10.0	68.8	224
FL #73 @ 8'	8/12/2021	8	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL #74 @ 8'	8/12/2021	8	In-Situ	<0.050	<0.300	<10.0	31.1	31.1	<10.0	31.1	80.0
FL #75 @ 8'	8/12/2021	8	In-Situ	<0.050	<0.300	<10.0	34.3	34.3	<10.0	34.3	224
FL #76 @ 8'	8/12/2021	8	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FL #77 @ 4'	8/12/2021	4	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	624
FL 77A @ 4.5'	8/18/2021	4.5	In-Situ	-	-	-	-	-	-	-	128
FL #78A @ 6'	8/12/2021	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FL #79 @ 7'	8/12/2021	7	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FL #80 @ 4'	8/12/2021	4	In-Situ	<0.050	<0.300	<10.0	10.4	10.4	<10.0	10.4	320
FL 81 @ 6'	8/17/2021	6	Excavated	<0.050	<0.300	<10.0	181	181	19.7	201	112
FL #81 @ 7'	8/26/2021	7	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 82 @ 6'	8/17/2021	6	In-Situ	<0.050	<0.300	<10.0	53.7	53.7	<10.0	53.7	64.0
FL 83 @ 6'	8/17/2021	6	Excavated	<0.050	<0.300	<10.0	179	179	15.4	194	240
FL #83 @ 7'	8/26/2021	7	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 84 @ 6'	8/17/2021	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	448
FL #85 @ 11'	8/24/2021	11	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	400
FL #86 @ 12'	8/23/2021	12	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FL #87 @ 12'	8/24/2021	12	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
FL 88A @ 9'	8/18/2021	9	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	512
FL 89A @ 9'	8/18/2021	9	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	336
FL 90A @ 9'	8/18/2021	9	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	512
FL 91 @ 8'	8/17/2021	8	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0

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

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

Table 1
Concentrations of BTEX, TPH & Chloride in Soil
Mewbourne Oil Company
Paduca 7/6 W1FC Fed Com #2H Flowline
NMOCD Ref. #: nAPP2118727790

NMOCD Closure Criteria				10	50	-	-	-	-	100	600
NMOCD Reclamation Standard				10	50	-	-	-	-	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
FL 92 @ 12'	8/20/2021	12	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
FL 93 @ 12'	8/20/2021	12	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL #94 @ 9'	8/23/2021	9	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL #95 @ 9'	8/23/2021	9	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FL #96 @ 15'	8/26/2021	15	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
FL #97 @ 15'	8/27/2021	15	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
FL #98 @ 10'	8/26/2021	10	Excavated	<0.050	<0.300	<10.0	222	222	32.8	255	528
FL #98 @ 11'	8/30/2021	11	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FL #99 @ 12'	8/27/2021	12	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
FL #100 @ 18'	8/30/2021	18	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
FL #101 @ 12'	8/30/2021	12	In-Situ	<0.050	<0.300	<10.0	14.9	14.9	<10.0	14.9	176
FL #102 @ 9'	8/27/2021	9	In-Situ	<0.050	<0.300	<10.0	25.7	25.7	<10.0	25.7	96.0
FL #103 @ 9'	8/30/2021	9	In-Situ	<0.050	<0.300	<10.0	80.1	80.1	<10.0	80.1	176
FL #104 @ 10'	8/31/2021	10	Excavated	<0.050	<0.300	<10.0	273	273	35.9	309	256
FL #104 @ 11'	9/7/2021	11	In-Situ	-	-	<10.0	39.5	39.5	<10.0	39.5	-
FL #105 @ 8'	8/31/2021	8	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL #106 @ 9'	8/31/2021	9	Excavated	<0.050	<0.300	<10.0	144	144	18.2	162	208
FL #106 @ 10'	9/7/2021	10	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	-
FL #107 @ 8'	8/31/2021	8	In-Situ	<0.050	<0.300	<10.0	18.0	18.0	<10.0	18.0	160
FL #108 @ 8'	9/1/2021	8	Excavated	<0.050	<0.300	<10.0	208	208	27.2	235	320
FL #108 @ 9'	9/7/2021	9	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	-
FL #109 @ 13'	9/1/2021	13	In-Situ	<0.050	<0.300	<10.0	15.8	15.8	<10.0	15.8	160
FL #110 @ 7'	9/1/2021	7	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FL #111 @ 7'	9/1/2021	7	Excavated	<0.050	<0.300	<10.0	170	170	23.0	193	176
FL #111 @ 8'	9/7/2021	8	In-Situ	-	-	<10.0	42.6	42.6	<10.0	42.6	-
FL #112 @ 14'	9/2/2021	14	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL #113 @ 14'	9/2/2021	14	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL #114 @ 8'	9/2/2021	8	In-Situ	<0.050	<0.300	<10.0	11.3	11.3	<10.0	11.3	320

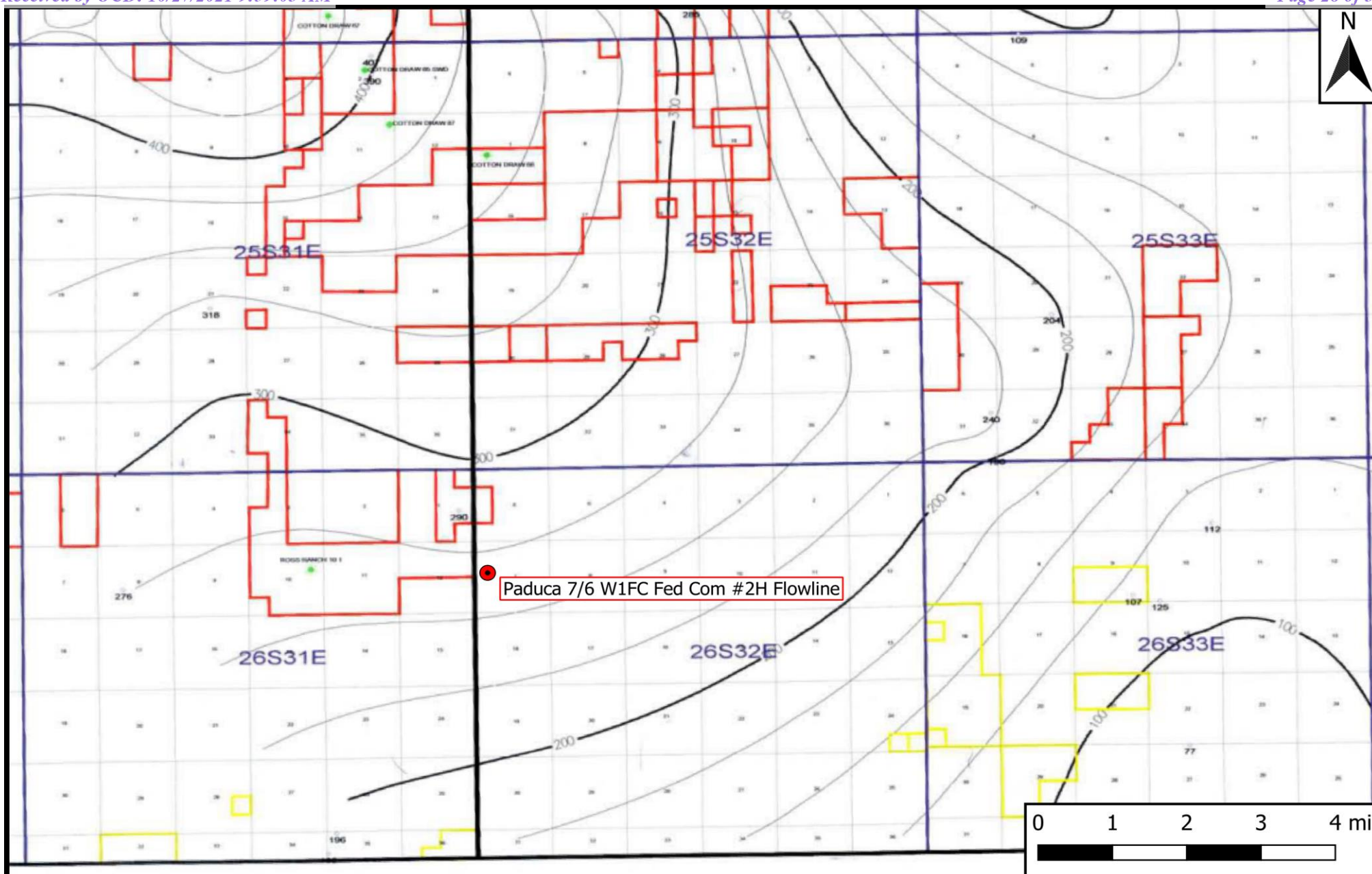
Dash (-): Sample not analyzed for that constituent.

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
 Paduca 7/6 W1FC Fed Com #2H Flowline
 GPS: 32.057429, -103.720461
 Lea County

eTECH
 Environmental & Safety Solutions, Inc.

Drafted: bja

Checked: jwl

Date: 8/16/21



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
C_04209 POD1		CUB	LE	2	3	3	06	26S	32E	620903	3548619	1108	360	155	205
C_02090		C	ED	4	4	01	26S	31E	620329	3548533*		1114	350	335	15
C_04209 POD2		C	LE	2	3	3	06	26S	32E	620818	3548657	1140	340	155	185

Average Depth to Water: **215 feet**

Minimum Depth: **155 feet**

Maximum Depth: **335 feet**

Record Count: 3

UTMNAD83 Radius Search (in meters):

Easting (X): 620788.32

Northing (Y): 3547517.23

Radius: 1610

*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.


8/16/21 7:39 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)							
		(quarters are smallest to largest)				(NAD83 UTM in meters)			
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
NA	C 04209 POD1	2	3	3	06	26S	32E	620903	3548619 

Driller License: 1706 **Driller Company:** ELITE DRILLERS CORPORATION

Driller Name: BRYCE WALLACE

Drill Start Date: 04/28/2018 **Drill Finish Date:** 05/01/2018 **Plug Date:**

Log File Date: 05/21/2018 **PCW Rev Date:** **Source:** Shallow

Pump Type: **Pipe Discharge Size:** **Estimated Yield:** 25 GPM

Casing Size: 6.00 **Depth Well:** 360 feet **Depth Water:** 155 feet

Water Bearing Stratifications:	Top	Bottom	Description
	15	350	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	200	360

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.


8/16/21 7:40 PM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)							
		(quarters are smallest to largest)				(NAD83 UTM in meters)			
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
NA	C 04209 POD2	2	3	3	06	26S	32E	620818	3548657 

Driller License: 1706 **Driller Company:** ELITE DRILLERS CORPORATION

Driller Name: BRYCE WALLACE

Drill Start Date: 05/07/2018 **Drill Finish Date:** 05/09/2018 **Plug Date:**

Log File Date: 05/21/2018 **PCW Rev Date:** **Source:** Shallow

Pump Type: **Pipe Discharge Size:** **Estimated Yield:** 5 GPM

Casing Size: 6.00 **Depth Well:** 340 feet **Depth Water:** 155 feet

Water Bearing Stratifications:	Top	Bottom	Description
	18	320	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	200	340

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
8/16/21 7:41 PM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)						(NAD83 UTM in meters)	
		(quarters are smallest to largest)							
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
C	02090	4	4	01	26S	31E	620329	3548533*	
Driller License:		Driller Company:							
Driller Name:									
Drill Start Date:		Drill Finish Date:		12/31/1965		Plug Date:			
Log File Date:		PCW Rev Date:				Source:			
Pump Type:		Pipe Discharge Size:				Estimated Yield: 5 GPM			
Casing Size:	8.00	Depth Well:		350 feet		Depth Water: 335 feet			

*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.

8/16/21 7:40 PM

POINT OF DIVERSION SUMMARY



Legend

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

Figure 5

USGS Well Proximity Map
Mewbourne Oil Company
Paduca 7/6 W1FC Fed Com #2H Flowline
GPS: 32.057429, -103.720461
Lea County

eTECH

Environmental & Safety Solutions, Inc.



Drafted: bja

Checked: jwl

Date: 8/16/21



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Data Category: Geographic Area:

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Search Results -- 1 sites found

Agency code = usgs

site_no list =

- 320424103415401

Minimum number of levels = 1

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

USGS 320424103415401 26S.31E.01.421322

Eddy County, New Mexico

Latitude 32°04'24", Longitude 103°41'54" NAD27

Land-surface elevation 3,294 feet above NAVD88

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

This well is completed in the Santa Rosa Sandstone (231SNRS) 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
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
1983-01-26			D	72019	290.12			1	Z		A
1983-02-14			D	72019	289.42			1	Z		A
1987-10-21			D	72019	289.90			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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0.34 0.31 nadww01





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Search Results -- 1 sites found

Agency code = usgs

site_no list =

- 320425103415401

Minimum number of levels = 1

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USGS 320425103415401 26S.31E.01.42110

Eddy County, New Mexico

Latitude 32°04'25", Longitude 103°41'54" NAD27

Land-surface elevation 3,295 feet above NAVD88

The depth of the well is 340 feet below land surface.

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

This well is completed in the Rustler Formation (312RSLR) 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
<input type="text" value="1949-03-10"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="287.70"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="1"/>	<input type="text" value="Z"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="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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0.39 0.33 nadww01



Appendix B

Field Data



Sample Log

Date: _____

Project: Paduca 7/6 A2ED Fed Com 1H

Project Number: 14420 Latitude: 32.05815 Longitude: -103.71988

Sample ID	PID/Odor	Chloride Conc.	GPS
WW1	NO	292 <196	
F2 @ 4'	NO	456	
SW2	NO	<120	
SW1	NO	328	
EW1	NO	<120	
F1 @ 4'	Very light	292	
EW2	NO	<120	
WW2	Light	<120	
F4 @ 3'	" "	<120	
F3 @ 3'	NO	<196	
F4 @ 4' F5 @ 9'	NO	<120	
F6 @ 5'	NO	456	
WW3	NO	<120	
F7 @ 8'	" "	456	
F8 @ 8'	" "	304	
AEW1	" "	<120	
AWW1	" "	<120	
F10 @ 5'	" "	" "	
F9 @ 4'	" "	132	
AEV2	" "	304	
AEV2	" "	1 <120	
AEV3	" "	<120	
AEV3	" "	340	
F11 @ 5'	" "	272	
F12 @ 5'	" "	272	
F13 @ 8'	" "	<120	
F14 @ 8'	" "	256	
F15 @ 8'	" "	168	
F16 @ 8'	" "	" "	
AEW4		456	
AEW4		<120	
EW2 N		328	
F1 @ 5' N		292	
F2 @ 5' N		292	
F4 @ 5' N		292 256	
F17 @ 4'	" "	144	

Sample Point = SP #1 @ ## etc

Test Trench = TT #1 @ ##

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

Floor = FL #1 etc

Refusal = SP #1 @ 4'-R

Stockpile = Stockpile #1

Sidewall = SW #1 etc

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

GPS Sample Points, Center of Comp Areas

②



Sample Log

Date: _____

Project: Paducah 1/6 A2ED F.C. 1HProject Number: 14420

Latitude: _____

Longitude: _____

Sample ID	PID/Odor	Chloride Conc.	GPS
F18 @ 4'	No	<120	
F6 @ 6' ✓	" "	144	
F11 @ 6' ✓	" "	<120	
F12 @ 6' ✓	" "	<120	
F19 @ 4'	" "	144	
BEM	" "	<120	
BWW1	" "	<120	
F20 @ 7'	" "	168	
F21 @ 7'	" "	196	
F22 @ 5'	No	6.4 1520	
F23 @ 5'	Yes	7.8 2472	
F24 @ 5'	Yes	5.0 928	
F25 @ 5'	Slight	5.8 1240	
CSW2 @ 0-5'	Yes	5.4 1074	
CEW1 @ 0-5'	Slight	5.6 1156	
CWW1 @ 0-5'	No	4.6 776	
F226 @ 8'	—	1.8 156	
F223b @ 8'	—	7.4 248	
F24b @ 8'	—	2.2 216	
F25b @ 8'	—	2.4 248	
CSW1b @ 0-8'	Yes	8.0 > 2964	
CEW1b @ 0-8'	—	3.4 444	
CWW1b @ 0-8'	—	4.0 600	
CSW1b @ 0-8'	—	—	
CSSW1C @ 9'	—	196	
FL#26 @ 10'		1,328	
FL#27 @ 10'		368	
FL#28 @ 10'		328	
AWSW#5 @ 10'		ND	
ESW#2 @ 10'		7,416	
FL#26 @ 10 1/2'	Yes	196	
ESW.b#2 @ 10 1/2'	Yes	928	
FL#29 @ 9'		184	
FL#30 @ 9'		1,404	
WSW#6 @ 9'		456	
CESW#2 @ 10 1/2'		304	

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

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

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

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas



Sample Log

Date: _____

Project: Paducah 7-6Project Number: 14420

Latitude: _____ Longitude: _____

Sample ID	PID/Odor	Chloride Conc.	GPS
ESW #3 @ 9'	-	864	
ESW #4 @ 3'	-	ND	
WSW #7 @ 3'	-	ND	
FL #31 @ 3'	-	ND	
SSW #5 @ 3'	-	ND	
ESW #5 @ 3'	-	ND	
WSW #8 @ 3'	-	ND	
FL #32 @ 3'	-	368	
FL #33 @ 3'	-	180 180	
FL #34 @ 4'	-	276 276	
ESW #6 @ 3'	-	ND	
ESW #7 @ 4'	-	ND	
WSW #9 @ 3'	-	ND	
WSW #10 @ 4'	-	ND	
ESW #8 @ 4'	-	240	
WSW #11 @ 4'	-	152	
FL #35 @ 4'	-	1432	
ESW B #3 @ 10'	-	276 276	
FL #30 @ 10'	-	180 180	
FL #35 @ 5'	-	1,168	
FL #35 @ 7'	-	352	
ESW #9 @ 7'	-	928	
WSW #12 @ 7'	-	1,864	
FL #36 @ 7'	-	928	
FL #37 @ 7'	yes	612	
FL #38 @ 7'	yes	612	
WSW #13 @ 7'	yes	1,628	
WSW.B. #13 @ 9'	-	128	
ESW #10 @ 9'	-	212	
FL #37 @ 9'	-	212	
FL #38 @ 9'	-	312	
FL #39 @ 9'	-	640 640	
WSW #14 @ 10'	-	156	
FL #39 @ 10'	-	156	
ESW #11 @ 10'	-	212	
FL #40 @ 10'	-	344	

Sample Point = SP #1 @ ## etc

Test Trench = TT #1 @ ##

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

Floor = FL #1 etc

Refusal = SP #1 @ 4'-R

Stockpile = Stockpile #1

Sidewall = SW #1 etc

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

GPS Sample Points, Center of Comp Areas



Sample Log

Date: _____

Project: Paduca 7-6Project Number: 14420

Latitude: _____

Longitude: _____

Sample ID	PID/Odor	Chloride Conc.	GPS
NSW #1 @ 10'	=	1,760	
FL #42 @ 10'	=	636	
FL #42 @ 10 1/6 inches	=	1,728	
NSW B. #1 @ 10 1/6 inches	=	636	
FL #42 @ 11'	=	1,760	
NSW C. #1 @ 10'	=	784	
FL #42 @ 13'	=	864	
FL #43 @ 13'	=	744	
FL #42 @ 14'	-	376	
FL #43 @ 14'	-	184	
NSW D. #1 @ 10'	-	ND	
FL #45 @ 10'	-	152	
FL #41 @ 8'	-	352	
FL #44 @ 8'	-	180	
FL #46 @ 10'	-	152	
FL #47 @ 8' FL #49 @ 8'	-	2,800 352	
FL #47 @ 6'	-	1,976	
FL #48 @ 6'	-	792	
FL #49 @ 8'	-	352	
FL #47 @ 8'	-	184	
FL #48 @ 8'	-	1,728	
SSW #6 @ 8'	-	2,136	
SSW B. #6 @ 8'	-	1,728	
FL #48 @ 9'	-	1,068	
FL #50 @ 5'	=	2,448	
NSW #2 @ 5'	=	1,988	
SSW C. #6 @ 8'	=	864	
FL #48 @ 10'	-	212	
SSW D. #6	-	ND	
FL #50 @ 10'	-	180	
FL #51 @ 8'	-	304	
FL #52 @ 8'	-	272	
FL #1 @ 5'	-	152	
FL #2 @ 5'	-	212	
FL #4 @ 6'	-	276	

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

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

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

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas



Sample Log

Date: _____

Project: Paduca 7-6Project Number: 14420

Latitude: _____

Longitude: _____

Sample ID	PID/Odor	Chloride Conc.	GPS
FL #53 @ 8'	-	392	
FL #54 @ 9'	-	580	
FL #55 @ 8'	-	212	
FL #56 @ 8'	-	184	
FL #54 @ 10'	-	212	
FL #57 @ 8'	-	340	
FL #58 @ 9'	-	428 928	
FL #58 @ 10'	-	352	
ESW #2.B.	-	212	
CE SW #1.B.	-	212	
FL #38 @ 10'	-	184	
FL #59 @ 7'	-	212	
FL #60 @ 7'	-	180	
FL #61 @ 7'	-	392	
FL #62 @ 7'	-	392	
FL #63 @ 10'	-	180	
FL #64 @ 7'	-	276	
FL #65 @ 9'	-	240	
FL #66 @ 7'	-	808	
FL #67 @ 10'	-	484	
ESW #12	-	180	
NSW #3	Yes	872	
SSW #7	-	1,536	
NSW #3	Light	748	
FL #66 @ 8'	-	392	
FL #68 @ 8'	-	212	
FL #69 @ 10'	-	276	
FL #70 @ 10'	-	392	
SSW #7	-	212	
SSW #8	-	212	
NSW #3	-	276	
FL #106 @ 10'	-	392	
FL #104 @ 11'	-	340	
FL #111 @ 8'	-	180	
FL #108 @ 9'	-	180	

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

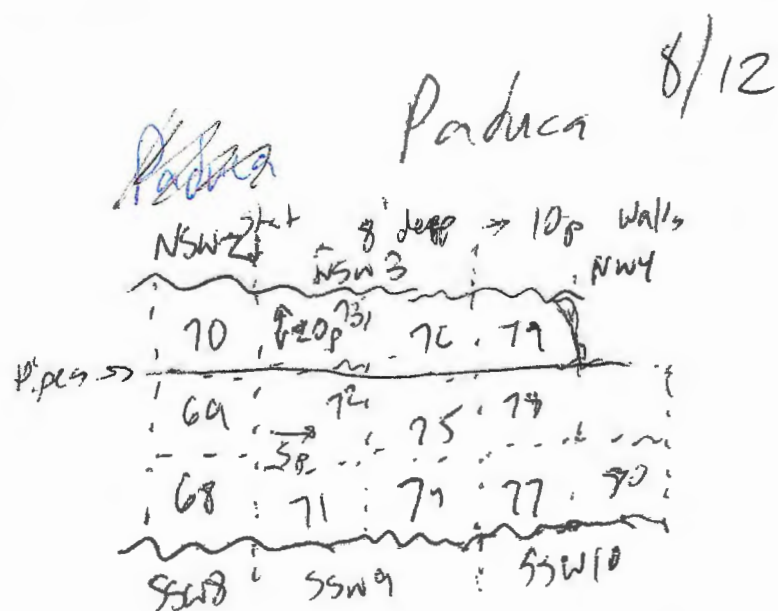
Refusal = SP #1 @ 4'-R

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



	<u>Ship</u>	<u>C1</u>	<u>Snail</u>
FL 71	2.0	184	—
FL 72	1.8	156	—
73	1.9	156	—
74	1.2	<128	—
75	2.6	284	—
76	2.0	184	—
★ NSW 3	6.0	1300	Yes
SSW 9	2.2	216	—
★ NSW 3a	6.0	1300	—
NSW 9	2.0	184	Yes
★ ASSW 10	6.2	396	?
77	3.8	548	more?
★ 78	6.4	1492	—
79	1.8	156	—
80	2.6	284	—
★ SSW 10a	4.6	776	—
79a	2.0	184	—

near: NSW 3
is too close
for a snail
i.e.



Sample Log

Date:

8/17/21

Project: Paduca 7/6 A2ED Fed Com 1H

Project Number:

14420

Latitude:

32.05815

Longitude:

-103.71988

Sample ID	PID/Odor	Chloride Conc.	GPS
F71 6'	Slight	1.6 128	
F72 ↓	—	1.0 <128	
F73	Slight	2.0 188 189	
F74	—	3.6 548	
F75	?	6.0 1300	★
F76	—	6.6 1600	★
F77	?	9.0 >2464	★
SSW11 ↓	—	5.4 1052	★
NSW5	Slight	6.8 1716	★
F78 8'	—	5.8 1168	★
F79 ↓	—	6.0 1252	★
F90	—	5.4 1012	★
F91 ↓	—	2.0 180	
SSW12 ↓	—	6.6 1536	★
SSW13	—	5.2 940	★
F75a 7'	—	1.2 636	★ ← 8/18/21
F76a ↓	—	7.0 1760	★
F77a ↓	—	7.2 1884	★
F78a ↓	—	3.6 484	
F79a ↓	—	3.0 352	
F90a ↓	—	3.8 532	
F72 ↓	—	6.0 1252	★
F73 ↓	—	7.0 1760	★
SSW11a ↓	—	4.4 688	★
SSW12a ↓	—	4.6 748	★
SSW13a ↓	—	4.4 688	★
SSW14 ↓	—	5.0 872	★
SSW11b ↓	—	5.4 1012	★
SSW12b ↓	—	4.0 580	
SSW13b ↓	—	2.6 276	
SSW14a ↓	—	7.2 1884	★
SSW11c ↓	—	5.4 1012	★
SSW14b ↓	—	4.8 808	★
FL71a (TPH)	—	N/A	
FL77a (4-)	—	1.6 128	

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

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

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

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas



Sample Log

Date:

8-19-21

Project: Paduca 7/6 A2ED Fed Com 1H

Project Number:

14420

Latitude:

32.05815

Longitude:

-103.71988

Sample ID	PID/Odor	Chloride Conc.	GPS
NSW 5a	Slight	4.6 748	*
NSW 5b	-	2.9 240	
NSW 6	Yes	5.6 1088	*
NSW 6a 7	-	5.8 1168	*
ESW #14	-	312	
SSW #14	-	636	
SSW #14	-	436	
FL # 92 @ 12'	-	212	
FL # 93 @ 12'	-	580	
FL # 94 @ 9'	-	276	
FL # 95 @ 9'	-	352	
FL # 96 @ 9'	-	636	
NSW #6	-	240	
FL # 36 @ 8'	-	276	
FL # 85 @ 9'	Light	636	
FL # 87 @ 9'	Light	940	
FL # 86 @ 12'	-	276	
FL # 85 @ 10'	Yes	1,252	
FL # 87 @ 10'	Yes	1,252	
FL # 85 @ 11'	Yes	434	
FL # 87 @ 11'	Light	784 784	
ESW #15	-	636	
FL # 96 @ 10'	-	940	
FL # 87 @ 12'	-	1,340	
ESW #15	-	312	
FL # 96 @ 12'	-	1,252	
FL # 96 @ 14'	-	748	
FL # 96 @ 15'	-	416	
FL # 98 @ 10'	-	484	
NSW #7	-	2,528	
FL # 97 @ 10'	Yes	1,884	
ESW #16	-	180	
NSW #7	-	1,884	
FL # 81 @ 7'	-	212	
FL # 83 @ 7'	-	212	

Sample Point = SP #1 @ ## etc

Test Trench = TT #1 @ ##

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

Floor = FL #1 etc

Refusal = SP #1 @ 4'-R

Stockpile = Stockpile #1

Sidewall = SW #1 etc

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

GPS Sample Points, Center of Comp Areas



Sample Log

Date: _____

Project: _____

Project Number: Paduca 7-6 Latitude: _____ Longitude: _____

Sample ID	PID/Odor	Chloride Conc.	GPS
FL# 100 @ 9'	—	180	
FL# 99 @ 10'	YES	1,840	
SSW# 12	—	212	
FL# 99 @ 12'	—	392	
NSW# 7	—	180	
FL# 99 @ 15'	—	352	
FL# 100 @ 10'	— YES	1,692	
FL# 100 @ 12'	— YES	1,088	
FL# 100 @ 15'	— YES	1,884	
FL# 100 @ 17'	YES	1,760	
FL# 100 @ 18'	—	276	
FL# 101 @ 12'	—	276	
FL# 98 @ 11'	—	392	
FL# 103 @ 9'	—	240	
FL# 103 @ 9' SSW# 13	—	312	
FL# 106 @ 9'	—	212	
FL# 106 @ 9' FL# 109 @ 10'	Light	436	
FL# 107 @ 8'	—	276	
FL# 105 @ 8'	—	152	
NSW# 8	—	ND	
SSW# 14	—	212	
FL# 108 @ 8'	—	392	
FL# 109 @ 8'	YES	2,544	
NSW# 9	YES	1,536	
FL# 109 @ 9'	—	1,884	
NSW# 9	—	212	
FL# 110 @ 7'	—	312	
FL# 111 @ 7'	—	376	
FL# 109 @ 10'	Light	2,484	
FL# 109 @ 11'	Light	1,852	
FL# 109 @ 11' FL# 114 @ 7'	—	588	
FL# 109 @ 13'	—	276	
ESW# 17	—	416	
FL# 114 @ 8'	—	416	
FL# 112 @ 14'	—	272	
FL# 113 @ 14'	—	272	

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

Appendix C

Photographic Log


Photographic Log

Photo Number: 1	 <p>7/12/21, 8:54 AM +32.057346,-103.719621 NM,Jal</p>
Photo Direction: West	
Photo Description: View of the affected area.	

Photo Number: 2	 <p>7/12/21, 8:55 AM +32.057381,-103.719420 NM,Jal</p>
Photo Direction: Northwest	
Photo Description: View of the affected area.	

Photographic Log

Photo Number: 3	
Photo Direction: East	
Photo Description: View of the affected area.	

Photo Number: 4	
Photo Direction: Northwest	
Photo Description: View of the affected area.	

Photographic Log



Photo Number: 5	 <p>7/12/21, 8:56 AM +32.057349,-103.719899 NM, Jal</p>
Photo Direction: Southwest	
Photo Description: View of the affected area.	

Photo Number: 6	 <p>7/12/21, 8:57 AM +32.057055,-103.720212 NM, Jal</p>
Photo Direction: North	
Photo Description: View of the affected area.	

Photographic Log



Photo Number: 7	 <p>7/12/21, 8:58 AM +32.056794, -103.720354 NM, Jal</p>
Photo Direction: North	
Photo Description: View of the affected area.	

Photo Number: 8	 <p>Network: Sep 3, 2021 at 11:58:32 AM CDT Local: Sep 3, 2021 at 11:58:32 AM CDT 32.057465° N, 103.718997° W Jal NM 88252 United States</p>
Photo Direction: West	
Photo Description: View of the excavated area.	

Photographic Log



Photo Number: 9	<div>Network: Sep 3, 2021 at 11:59:21 AM CDT Local: Sep 3, 2021 at 11:59:21 AM CDT 32.057508° N, 103.719208° W Jal NM 88252 United States</div> 
Photo Direction: West-Southwest	
Photo Description: View of the excavated area.	

Photo Number: 10	<div>Network: Sep 3, 2021 at 12:00:50 PM CDT Local: Sep 3, 2021 at 12:00:50 PM CDT 32.057477° N, 103.719386° W Jal NM 88252 United States</div> 
Photo Direction: West	
Photo Description: View of the excavated area.	

Photographic Log


Photo Number: 11	<div>Network: Sep 3, 2021 at 12:01:17 PM CDT Local: Sep 3, 2021 at 12:01:17 PM CDT 32.057485° N, 103.719500° W Jal NM 88252 United States</div> 
Photo Direction: Southwest	
Photo Description: View of the excavated area.	

Photo Number: 12	<div>Network: Sep 3, 2021 at 12:02:30 PM CDT Local: Sep 3, 2021 at 12:02:30 PM CDT 32.057503° N, 103.719976° W Jal NM 88252 United States</div> 
Photo Direction: Southwest	
Photo Description: View of the excavated area.	

Photographic Log


Photo Number: 13	<div>Network: Sep 3, 2021 at 12:02:59 PM CDT Local: Sep 3, 2021 at 12:02:59 PM CDT 32.057483° N, 103.720087° W Jal NM 88252 United States</div> 
Photo Direction: South	
Photo Description: View of the excavated area.	

Photo Number: 14	<div>Network: Sep 3, 2021 at 12:03:27 PM CDT Local: Sep 3, 2021 at 12:03:27 PM CDT 32.057436° N, 103.720187° W Jal NM 88252 United States</div> 
Photo Direction: South	
Photo Description: View of the excavated area.	

Photographic Log


Photo Number: 15	
Photo Direction: North	
Photo Description: View of the excavated area.	

Photo Number: 16	
Photo Direction: Northeast	
Photo Description: View of the excavated area.	

Photographic Log

Photo Number: 17	 <p>Oct 6, 2021 2:00:14 PM 32.05742786N 103.72030544W</p>
Photo Direction: East	
Photo Description: View of the remediation area after backfilling and regrading.	

Photo Number: 18	 <p>Oct 6, 2021 1:57:31 PM 32.05747365N 103.71896181W Jal New Mexico</p>
Photo Direction: West	
Photo Description: View of the remediation area after backfilling and regrading.	

Photographic Log

Photo Number: 19	
Photo Direction: Southwest	
Photo Description: View of the remediation area after backfilling and regrading.	

Photo Number: 20	
Photo Direction: Northeast	
Photo Description: View of the remediation area after backfilling and regrading.	

Appendix D

Laboratory Analytical Reports



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

July 13, 2021

JOEL LOWRY

Etech Environmental & Safety Solutions

P.O. Box 301

Lovington, NM 88260

RE: PADUCA 7/6 A2ED FED COM 1H

Enclosed are the results of analyses for samples received by the laboratory on 07/08/21 16:52.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/08/2021	Sampling Date:	07/08/2021
Reported:	07/13/2021	Sampling Type:	Soil
Project Name:	PADUCA 7/6 A2ED FED COM 1H	Sampling Condition:	** (See Notes)
Project Number:	14420	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: NH 1 @ SURFACE (H211778-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/09/2021	ND	2.18	109	2.00	1.39	
Toluene*	<0.050	0.050	07/09/2021	ND	2.04	102	2.00	1.69	
Ethylbenzene*	<0.050	0.050	07/09/2021	ND	1.98	99.1	2.00	1.44	
Total Xylenes*	<0.150	0.150	07/09/2021	ND	6.04	101	6.00	1.60	
Total BTEX	<0.300	0.300	07/09/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	32.0	16.0	07/12/2021	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/10/2021	ND	168	83.9	200	10.3	
DRO >C10-C28*	108	10.0	07/10/2021	ND	185	92.6	200	11.2	
EXT DRO >C28-C36	11.9	10.0	07/10/2021	ND					

Surrogate: 1-Chlorooctane 103 % 44.3-133

Surrogate: 1-Chlorooctadecane 122 % 38.9-142

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
 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

Received: 07/08/2021
 Reported: 07/13/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 07/08/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: NH 1 @ 1' (H211778-02)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/09/2021	ND	2.18	109	2.00	1.39		
Toluene*	<0.050	0.050	07/09/2021	ND	2.04	102	2.00	1.69		
Ethylbenzene*	<0.050	0.050	07/09/2021	ND	1.98	99.1	2.00	1.44		
Total Xylenes*	<0.150	0.150	07/09/2021	ND	6.04	101	6.00	1.60		
Total BTEx	<0.300	0.300	07/09/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	07/12/2021	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/09/2021	ND	232	116	200	1.84	
DRO >C10-C28*	192	10.0	07/09/2021	ND	222	111	200	1.01	
EXT DRO >C28-C36	15.9	10.0	07/09/2021	ND					

Surrogate: 1-Chlorooctane 115 % 44.3-133

Surrogate: 1-Chlorooctadecane 131 % 38.9-142

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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
 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

Received: 07/08/2021
 Reported: 07/13/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 07/08/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: NH 2 @ SURFACE (H211778-03)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/09/2021	ND	2.18	109	2.00	1.39	
Toluene*	<0.050	0.050	07/09/2021	ND	2.04	102	2.00	1.69	
Ethylbenzene*	<0.050	0.050	07/09/2021	ND	1.98	99.1	2.00	1.44	
Total Xylenes*	<0.150	0.150	07/09/2021	ND	6.04	101	6.00	1.60	
Total BTEx	<0.300	0.300	07/09/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	07/12/2021	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/09/2021	ND	232	116	200	1.84	
DRO >C10-C28*	24.7	10.0	07/09/2021	ND	222	111	200	1.01	
EXT DRO >C28-C36	<10.0	10.0	07/09/2021	ND					

Surrogate: 1-Chlorooctane 114 % 44.3-133

Surrogate: 1-Chlorooctadecane 125 % 38.9-142

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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
 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

Received: 07/08/2021
 Reported: 07/13/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 07/08/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: NH 2 @ 1' (H211778-04)

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	07/09/2021	ND	2.18	109	2.00	1.39		
Toluene*	<0.050	0.050	07/09/2021	ND	2.04	102	2.00	1.69		
Ethylbenzene*	<0.050	0.050	07/09/2021	ND	1.98	99.1	2.00	1.44		
Total Xylenes*	<0.150	0.150	07/09/2021	ND	6.04	101	6.00	1.60		
Total BTX	<0.300	0.300	07/09/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	07/12/2021	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/09/2021	ND	232	116	200	1.84	
DRO >C10-C28*	24.4	10.0	07/09/2021	ND	222	111	200	1.01	
EXT DRO >C28-C36	<10.0	10.0	07/09/2021	ND					

Surrogate: 1-Chlorooctane 113 % 44.3-133

Surrogate: 1-Chlorooctadecane 121 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 07/08/2021
 Reported: 07/13/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 07/08/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: EH @ SURFACE (H211778-05)

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	07/09/2021	ND	2.04	102	2.00	3.23	
Toluene*	<0.050	0.050	07/09/2021	ND	2.12	106	2.00	1.84	
Ethylbenzene*	<0.050	0.050	07/09/2021	ND	2.04	102	2.00	1.89	
Total Xylenes*	<0.150	0.150	07/09/2021	ND	6.10	102	6.00	2.00	
Total BTX	<0.300	0.300	07/09/2021	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	<16.0	16.0	07/12/2021	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/09/2021	ND	232	116	200	1.84	
DRO >C10-C28*	<10.0	10.0	07/09/2021	ND	222	111	200	1.01	
EXT DRO >C28-C36	<10.0	10.0	07/09/2021	ND					

Surrogate: 1-Chlorooctane 110 % 44.3-133

Surrogate: 1-Chlorooctadecane 118 % 38.9-142

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Analytical Results For:

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

Received: 07/08/2021
 Reported: 07/13/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 07/08/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: EH @ 1' (H211778-06)

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	07/09/2021	ND	2.04	102	2.00	3.23	
Toluene*	<0.050	0.050	07/09/2021	ND	2.12	106	2.00	1.84	
Ethylbenzene*	<0.050	0.050	07/09/2021	ND	2.04	102	2.00	1.89	
Total Xylenes*	<0.150	0.150	07/09/2021	ND	6.10	102	6.00	2.00	
Total BTX	<0.300	0.300	07/09/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 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	<16.0	16.0	07/12/2021	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/09/2021	ND	232	116	200	1.84	
DRO >C10-C28*	<10.0	10.0	07/09/2021	ND	222	111	200	1.01	
EXT DRO >C28-C36	<10.0	10.0	07/09/2021	ND					

Surrogate: 1-Chlorooctane 112 % 44.3-133

Surrogate: 1-Chlorooctadecane 120 % 38.9-142

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Analytical Results For:

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

Received: 07/08/2021
 Reported: 07/13/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 07/08/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: SH 1 @ SURFACE (H211778-07)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/09/2021	ND	2.04	102	2.00	3.23	
Toluene*	<0.050	0.050	07/09/2021	ND	2.12	106	2.00	1.84	
Ethylbenzene*	<0.050	0.050	07/09/2021	ND	2.04	102	2.00	1.89	
Total Xylenes*	<0.150	0.150	07/09/2021	ND	6.10	102	6.00	2.00	
Total BTEx	<0.300	0.300	07/09/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 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	07/12/2021	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/09/2021	ND	232	116	200	1.84	
DRO >C10-C28*	<10.0	10.0	07/09/2021	ND	222	111	200	1.01	
EXT DRO >C28-C36	<10.0	10.0	07/09/2021	ND					

Surrogate: 1-Chlorooctane 114 % 44.3-133

Surrogate: 1-Chlorooctadecane 120 % 38.9-142

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Analytical Results For:

Etech Environmental & Safety Solutions
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 Fax To: (575) 396-1429

Received: 07/08/2021
 Reported: 07/13/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 07/08/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: SH 1 @ 1' (H211778-08)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/09/2021	ND	2.04	102	2.00	3.23	
Toluene*	<0.050	0.050	07/09/2021	ND	2.12	106	2.00	1.84	
Ethylbenzene*	<0.050	0.050	07/09/2021	ND	2.04	102	2.00	1.89	
Total Xylenes*	<0.150	0.150	07/09/2021	ND	6.10	102	6.00	2.00	
Total BTX	<0.300	0.300	07/09/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 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	07/12/2021	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/09/2021	ND	232	116	200	1.84	
DRO >C10-C28*	<10.0	10.0	07/09/2021	ND	222	111	200	1.01	
EXT DRO >C28-C36	<10.0	10.0	07/09/2021	ND					

Surrogate: 1-Chlorooctane 112 % 44.3-133

Surrogate: 1-Chlorooctadecane 119 % 38.9-142

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Analytical Results For:

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

Received: 07/08/2021
 Reported: 07/13/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 07/08/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: SH 2 @ SURFACE (H211778-09)

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	07/09/2021	ND	2.04	102	2.00	3.23	
Toluene*	<0.050	0.050	07/09/2021	ND	2.12	106	2.00	1.84	
Ethylbenzene*	<0.050	0.050	07/09/2021	ND	2.04	102	2.00	1.89	
Total Xylenes*	<0.150	0.150	07/09/2021	ND	6.10	102	6.00	2.00	
Total BTEx	<0.300	0.300	07/09/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 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	07/12/2021	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/09/2021	ND	232	116	200	1.84	
DRO >C10-C28*	<10.0	10.0	07/09/2021	ND	222	111	200	1.01	
EXT DRO >C28-C36	<10.0	10.0	07/09/2021	ND					

Surrogate: 1-Chlorooctane 114 % 44.3-133

Surrogate: 1-Chlorooctadecane 122 % 38.9-142

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Analytical Results For:

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

Received: 07/08/2021
 Reported: 07/13/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 07/08/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: SH 2 @ 1' (H211778-10)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/09/2021	ND	2.04	102	2.00	3.23	
Toluene*	<0.050	0.050	07/09/2021	ND	2.12	106	2.00	1.84	
Ethylbenzene*	<0.050	0.050	07/09/2021	ND	2.04	102	2.00	1.89	
Total Xylenes*	<0.150	0.150	07/09/2021	ND	6.10	102	6.00	2.00	
Total BTEx	<0.300	0.300	07/09/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 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	07/12/2021	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/09/2021	ND	232	116	200	1.84	
DRO >C10-C28*	<10.0	10.0	07/09/2021	ND	222	111	200	1.01	
EXT DRO >C28-C36	<10.0	10.0	07/09/2021	ND					

Surrogate: 1-Chlorooctane 108 % 44.3-133

Surrogate: 1-Chlorooctadecane 114 % 38.9-142

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Analytical Results For:

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

Received: 07/08/2021
 Reported: 07/13/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 07/08/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: WH @ SURFACE (H211778-11)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/09/2021	ND	2.04	102	2.00	3.23	
Toluene*	<0.050	0.050	07/09/2021	ND	2.12	106	2.00	1.84	
Ethylbenzene*	<0.050	0.050	07/09/2021	ND	2.04	102	2.00	1.89	
Total Xylenes*	<0.150	0.150	07/09/2021	ND	6.10	102	6.00	2.00	
Total BTX	<0.300	0.300	07/09/2021	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	07/12/2021	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/09/2021	ND	232	116	200	1.84	
DRO >C10-C28*	18.3	10.0	07/09/2021	ND	222	111	200	1.01	
EXT DRO >C28-C36	<10.0	10.0	07/09/2021	ND					

Surrogate: 1-Chlorooctane 112 % 44.3-133

Surrogate: 1-Chlorooctadecane 120 % 38.9-142

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Analytical Results For:

Etech Environmental & Safety Solutions
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 Lovington NM, 88260
 Fax To: (575) 396-1429

Received: 07/08/2021
 Reported: 07/13/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 07/08/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: WH @ 1' (H211778-12)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/09/2021	ND	2.04	102	2.00	3.23	
Toluene*	<0.050	0.050	07/09/2021	ND	2.12	106	2.00	1.84	
Ethylbenzene*	<0.050	0.050	07/09/2021	ND	2.04	102	2.00	1.89	
Total Xylenes*	<0.150	0.150	07/09/2021	ND	6.10	102	6.00	2.00	
Total BTEx	<0.300	0.300	07/09/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 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	07/12/2021	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/09/2021	ND	232	116	200	1.84	
DRO >C10-C28*	14.9	10.0	07/09/2021	ND	222	111	200	1.01	
EXT DRO >C28-C36	<10.0	10.0	07/09/2021	ND					

Surrogate: 1-Chlorooctane 116 % 44.3-133

Surrogate: 1-Chlorooctadecane 126 % 38.9-142

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Analytical Results For:

Etech Environmental & Safety Solutions
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 Lovington NM, 88260
 Fax To: (575) 396-1429

Received: 07/08/2021
 Reported: 07/13/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 07/08/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: SP 1 @ SURFACE (H211778-13)

BTEx 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/12/2021	ND	2.04	102	2.00	3.23	
Toluene*	1.95	0.050	07/12/2021	ND	2.12	106	2.00	1.84	GC-NC1
Ethylbenzene*	<0.050	0.050	07/12/2021	ND	2.04	102	2.00	1.89	
Total Xylenes*	19.8	0.150	07/12/2021	ND	6.10	102	6.00	2.00	GC-NC1
Total BTEX	21.7	0.300	07/12/2021	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 430 % 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	5040	16.0	07/12/2021	ND	416	104	400	3.77		

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*	715	10.0	07/09/2021	ND	232	116	200	1.84	
DRO >C10-C28*	6580	10.0	07/09/2021	ND	222	111	200	1.01	
EXT DRO >C28-C36	836	10.0	07/09/2021	ND					

Surrogate: 1-Chlorooctane 169 % 44.3-133

Surrogate: 1-Chlorooctadecane 167 % 38.9-142

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Analytical Results For:

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

Received: 07/08/2021
 Reported: 07/13/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 07/08/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: SP 1 @ 1'-R (H211778-14)

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	07/09/2021	ND	2.04	102	2.00	3.23	
Toluene*	0.071	0.050	07/09/2021	ND	2.12	106	2.00	1.84	
Ethylbenzene*	<0.050	0.050	07/09/2021	ND	2.04	102	2.00	1.89	
Total Xylenes*	0.598	0.150	07/09/2021	ND	6.10	102	6.00	2.00	GC-NC1
Total BTEX	0.670	0.300	07/09/2021	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 121 % 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	5520	16.0	07/12/2021	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*	41.9	10.0	07/09/2021	ND	232	116	200	1.84	
DRO >C10-C28*	1180	10.0	07/09/2021	ND	222	111	200	1.01	
EXT DRO >C28-C36	196	10.0	07/09/2021	ND					

Surrogate: 1-Chlorooctane 116 % 44.3-133

Surrogate: 1-Chlorooctadecane 128 % 38.9-142

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Analytical Results For:

Etech Environmental & Safety Solutions
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 Fax To: (575) 396-1429

Received: 07/08/2021
 Reported: 07/13/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 07/08/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: SP 2 @ SURFACE (H211778-15)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/09/2021	ND	2.04	102	2.00	3.23	
Toluene*	<0.050	0.050	07/09/2021	ND	2.12	106	2.00	1.84	
Ethylbenzene*	<0.050	0.050	07/09/2021	ND	2.04	102	2.00	1.89	
Total Xylenes*	0.443	0.150	07/09/2021	ND	6.10	102	6.00	2.00	GC-NC1
Total BTEx	0.443	0.300	07/09/2021	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 132 % 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	1760	16.0	07/12/2021	ND	416	104	400	3.77	

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*	57.7	10.0	07/09/2021	ND	232	116	200	1.84	
DRO >C10-C28*	3640	10.0	07/09/2021	ND	222	111	200	1.01	
EXT DRO >C28-C36	544	10.0	07/09/2021	ND					

Surrogate: 1-Chlorooctane 127 % 44.3-133

Surrogate: 1-Chlorooctadecane 150 % 38.9-142

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Analytical Results For:

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Received: 07/08/2021
 Reported: 07/13/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 07/08/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: SP 2 @ 3'-R (H211778-16)

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	07/09/2021	ND	2.04	102	2.00	3.23	
Toluene*	<0.050	0.050	07/09/2021	ND	2.12	106	2.00	1.84	
Ethylbenzene*	<0.050	0.050	07/09/2021	ND	2.04	102	2.00	1.89	
Total Xylenes*	<0.150	0.150	07/09/2021	ND	6.10	102	6.00	2.00	
Total BTEx	<0.300	0.300	07/09/2021	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	5440	16.0	07/12/2021	ND	416	104	400	3.77		

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	07/09/2021	ND	232	116	200	1.84	
DRO >C10-C28*	747	10.0	07/09/2021	ND	222	111	200	1.01	
EXT DRO >C28-C36	125	10.0	07/09/2021	ND					

Surrogate: 1-Chlorooctane 119 % 44.3-133

Surrogate: 1-Chlorooctadecane 153 % 38.9-142

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Analytical Results For:

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Received: 07/08/2021
 Reported: 07/13/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 07/08/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: SP 3 @ SURFACE (H211778-17)

BTX 8021B		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/12/2021	ND	2.04	102	2.00	3.23	
Toluene*	0.209	0.050	07/12/2021	ND	2.12	106	2.00	1.84	GC-NC1
Ethylbenzene*	<0.050	0.050	07/12/2021	ND	2.04	102	2.00	1.89	
Total Xylenes*	6.86	0.150	07/12/2021	ND	6.10	102	6.00	2.00	GC-NC1
Total BTX	7.07	0.300	07/12/2021	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 336 % 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	5920	16.0	07/12/2021	ND	416	104	400	3.77	

TPH 8015M		mg/kg	Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1410	100	07/12/2021	ND	232	116	200	1.84	
DRO >C10-C28*	47600	100	07/12/2021	ND	222	111	200	1.01	
EXT DRO >C28-C36	8190	100	07/12/2021	ND					

Surrogate: 1-Chlorooctane 322 % 44.3-133

Surrogate: 1-Chlorooctadecane 1290 % 38.9-142

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Analytical Results For:

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Received: 07/08/2021
 Reported: 07/13/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 07/08/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: SP 3 @ 1'-R (H211778-18)

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	07/09/2021	ND	2.04	102	2.00	3.23	
Toluene*	<0.050	0.050	07/09/2021	ND	2.12	106	2.00	1.84	
Ethylbenzene*	<0.050	0.050	07/09/2021	ND	2.04	102	2.00	1.89	
Total Xylenes*	0.325	0.150	07/09/2021	ND	6.10	102	6.00	2.00	GC-NC1
Total BTEX	0.325	0.300	07/09/2021	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	2960	16.0	07/12/2021	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*	22.3	10.0	07/12/2021	ND	232	116	200	1.84	
DRO >C10-C28*	1160	10.0	07/12/2021	ND	222	111	200	1.01	
EXT DRO >C28-C36	235	10.0	07/12/2021	ND					

Surrogate: 1-Chlorooctane 84.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 93.7 % 38.9-142

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Analytical Results For:

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Received: 07/08/2021
 Reported: 07/13/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 07/08/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: SP 4 @ SURFACE (H211778-19)

BTX 8021B		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/09/2021	ND	2.04	102	2.00	3.23	
Toluene*	<0.050	0.050	07/09/2021	ND	2.12	106	2.00	1.84	
Ethylbenzene*	<0.050	0.050	07/09/2021	ND	2.04	102	2.00	1.89	
Total Xylenes*	1.83	0.150	07/09/2021	ND	6.10	102	6.00	2.00	GC-NC1
Total BTX	1.83	0.300	07/09/2021	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 221 % 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	07/12/2021	ND	416	104	400	3.77	

TPH 8015M		mg/kg	Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	263	100	07/12/2021	ND	232	116	200	1.84	
DRO >C10-C28*	19300	100	07/12/2021	ND	222	111	200	1.01	
EXT DRO >C28-C36	4000	100	07/12/2021	ND					

Surrogate: 1-Chlorooctane 173 % 44.3-133

Surrogate: 1-Chlorooctadecane 632 % 38.9-142

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Analytical Results For:

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 Fax To: (575) 396-1429

Received: 07/08/2021
 Reported: 07/13/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 07/08/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: SP 4 @ 2' (H211778-20)

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	07/09/2021	ND	2.04	102	2.00	3.23	
Toluene*	<0.050	0.050	07/09/2021	ND	2.12	106	2.00	1.84	
Ethylbenzene*	<0.050	0.050	07/09/2021	ND	2.04	102	2.00	1.89	
Total Xylenes*	<0.150	0.150	07/09/2021	ND	6.10	102	6.00	2.00	
Total BTEx	<0.300	0.300	07/09/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	07/12/2021	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/12/2021	ND	232	116	200	1.84	
DRO >C10-C28*	1060	10.0	07/12/2021	ND	222	111	200	1.01	
EXT DRO >C28-C36	201	10.0	07/12/2021	ND					

Surrogate: 1-Chlorooctane 75.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 86.1 % 38.9-142

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Analytical Results For:

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Received: 07/08/2021
 Reported: 07/13/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 07/08/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: SP 5 @ SURFACE (H211778-21)

BTX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/12/2021	ND	2.04	102	2.00	3.23	
Toluene*	0.209	0.050	07/12/2021	ND	2.12	106	2.00	1.84	GC-NC1
Ethylbenzene*	<0.050	0.050	07/12/2021	ND	2.04	102	2.00	1.89	
Total Xylenes*	9.24	0.150	07/12/2021	ND	6.10	102	6.00	2.00	GC-NC1
Total BTX	9.45	0.300	07/12/2021	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 384 % 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	1380	16.0	07/12/2021	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	627	100	07/13/2021	ND	232	116	200	1.84	
DRO >C10-C28*	14800	100	07/13/2021	ND	222	111	200	1.01	
EXT DRO >C28-C36	2240	100	07/13/2021	ND					

Surrogate: 1-Chlorooctane 169 % 44.3-133

Surrogate: 1-Chlorooctadecane 381 % 38.9-142

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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
 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

Received: 07/08/2021
 Reported: 07/13/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 07/08/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: SP 5 @ 3'-R (H211778-22)

BTX 8021B		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	07/12/2021	ND	2.04	102	2.00	3.23	
Toluene*	4.43	0.500	07/12/2021	ND	2.12	106	2.00	1.84	
Ethylbenzene*	3.48	0.500	07/12/2021	ND	2.04	102	2.00	1.89	
Total Xylenes*	79.8	1.50	07/12/2021	ND	6.10	102	6.00	2.00	
Total BTX	87.7	3.00	07/12/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 150 % 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	4800	16.0	07/12/2021	ND	416	104	400	3.77	

TPH 8015M		mg/kg	Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	3390	100	07/13/2021	ND	203	102	200	0.593	
DRO >C10-C28*	18600	100	07/13/2021	ND	208	104	200	0.625	
EXT DRO >C28-C36	2490	100	07/13/2021	ND					

Surrogate: 1-Chlorooctane 209 % 44.3-133

Surrogate: 1-Chlorooctadecane 409 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 07/08/2021
 Reported: 07/13/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 07/08/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: SP 6 @ SURFACE (H211778-23)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/09/2021	ND	2.04	102	2.00	3.23	
Toluene*	<0.050	0.050	07/09/2021	ND	2.12	106	2.00	1.84	
Ethylbenzene*	<0.050	0.050	07/09/2021	ND	2.04	102	2.00	1.89	
Total Xylenes*	<0.150	0.150	07/09/2021	ND	6.10	102	6.00	2.00	
Total BTX	<0.300	0.300	07/09/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	07/12/2021	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/13/2021	ND	203	102	200	0.593	
DRO >C10-C28*	703	10.0	07/13/2021	ND	208	104	200	0.625	
EXT DRO >C28-C36	127	10.0	07/13/2021	ND					

Surrogate: 1-Chlorooctane 75.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 76.3 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 07/08/2021
 Reported: 07/13/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 07/08/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: SP 6 @ 1' (H211778-24)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/09/2021	ND	2.04	102	2.00	3.23	
Toluene*	<0.050	0.050	07/09/2021	ND	2.12	106	2.00	1.84	
Ethylbenzene*	<0.050	0.050	07/09/2021	ND	2.04	102	2.00	1.89	
Total Xylenes*	<0.150	0.150	07/09/2021	ND	6.10	102	6.00	2.00	
Total BTX	<0.300	0.300	07/09/2021	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	176	16.0	07/12/2021	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/13/2021	ND	203	102	200	0.593	
DRO >C10-C28*	74.5	10.0	07/13/2021	ND	208	104	200	0.625	
EXT DRO >C28-C36	14.9	10.0	07/13/2021	ND					

Surrogate: 1-Chlorooctane 74.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 73.5 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
GC-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: <u>Etech Environmental</u>				BILL TO				ANALYSIS REQUEST																			
Project Manager: <u>Joel Lowry</u>				P.O. #:																							
Address: <u>3100 Plains Hwy</u>				Company: <u>Newbourne</u>																							
City: <u>Lovington</u> State: <u>NM</u> Zip: <u>88260</u>				Attn:																							
Phone #: <u>575-396-2378</u> Fax #:				Address:																							
Project #: <u>14420</u> Project Owner: <u>Newbourne</u>				City:																							
Project Name: <u>Paduca 7/6 A2ED Fed com 1H</u>				State: Zip:																							
Project Location: <u>Rural Lea County, NM</u>				Phone #:																							
Sampler Name: <u>Miguel Ramirez</u>				Fax #:																							
FOR LAB USE ONLY						MATRIX		PRESERV.		SAMPLING																	
Lab I.D.	Sample I.D.	(GRAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	Chlorides	BTEX	TPH										
<u>H21778</u>																											
	<u>1 NH1 @ surface</u>	<u>G</u>	<u>1</u>			<u>X</u>				<u>X</u>			<u>7/8/21</u>		<u>X</u>	<u>X</u>	<u>X</u>										
	<u>2 NH1 @ 1'</u>	<u>G</u>	<u>1</u>			<u>X</u>				<u>X</u>			<u>7/9/21</u>		<u>X</u>	<u>X</u>	<u>X</u>										
	<u>3 NH2 @ surface</u>	<u>G</u>	<u>1</u>			<u>X</u>				<u>X</u>			<u>7/8/21</u>		<u>X</u>	<u>X</u>	<u>X</u>										
	<u>4 NH2 @ 1'</u>	<u>G</u>	<u>1</u>			<u>X</u>				<u>X</u>			<u>7/8/21</u>		<u>X</u>	<u>X</u>	<u>X</u>										
	<u>5 EH @ surface</u>	<u>G</u>	<u>1</u>			<u>X</u>				<u>X</u>			<u>7/8/21</u>		<u>X</u>	<u>X</u>	<u>X</u>										
	<u>6 EH @ 1'</u>	<u>G</u>	<u>1</u>			<u>X</u>				<u>X</u>			<u>7/8/21</u>		<u>X</u>	<u>X</u>	<u>X</u>										
	<u>7 SH1 @ surface</u>	<u>G</u>	<u>1</u>			<u>X</u>				<u>X</u>			<u>7/8/21</u>		<u>X</u>	<u>X</u>	<u>X</u>										
	<u>8 SH1 @ 1'</u>	<u>G</u>	<u>1</u>			<u>X</u>				<u>X</u>			<u>7/8/21</u>		<u>X</u>	<u>X</u>	<u>X</u>										
	<u>9 SH2 @ surface</u>	<u>G</u>	<u>1</u>			<u>X</u>				<u>X</u>			<u>7/8/21</u>		<u>X</u>	<u>X</u>	<u>X</u>										
	<u>10 SH2 @ 1'</u>	<u>G</u>	<u>1</u>			<u>X</u>				<u>X</u>			<u>7/9/21</u>		<u>X</u>	<u>X</u>	<u>X</u>										

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Relinquished By: <u>[Signature]</u>	Date: <u>7/9/21</u>	Received By: <u>[Signature]</u>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By: <u>[Signature]</u>	Time: <u>1652</u>	Received By: <u>[Signature]</u>	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Date:	Sample Condition Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	REMARKS: <u>Email to PM@etechenv.com</u> <u>Thanks!</u> <u>Brought straight to lab from field</u>	
Time:	Checked By: (Initials) <u>J.O.</u>			



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: <u>Etech Environmental</u>				BILL TO				ANALYSIS REQUEST																			
Project Manager: <u>Joel Lowry</u>				P.O. #:																							
Address: <u>3100 Plains Hwy</u>				Company: <u>Mowbourn</u>																							
City: <u>Lovington</u> State: <u>NM</u> Zip: <u>88260</u>				Attn:																							
Phone #: <u>575-396-2378</u> Fax #:				Address:																							
Project #: <u>14420</u> Project Owner: <u>Mowbourn</u>				City:																							
Project Name: <u>Paduca 7/6 AZED Fed com 1H</u>				State: Zip:																							
Project Location: <u>Rural Lea County, NM</u>				Phone #:																							
Sampler Name: <u>Miguel Ramirez</u>				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	Chlorides	TPH	BTEX										
<u>H211778</u>																											
	<u>11 WH @ surface</u>	<u>G</u>	<u>1</u>			<u>X</u>					<u>X</u>		<u>7/8/21</u>		<u>X</u>	<u>X</u>	<u>X</u>										
	<u>12 WH @ 1'</u>	<u>G</u>	<u>1</u>			<u>X</u>					<u>X</u>		<u>7/8/21</u>		<u>X</u>	<u>X</u>	<u>X</u>										
	<u>13 SP1 @ surface</u>	<u>G</u>	<u>1</u>			<u>X</u>					<u>X</u>		<u>7/8/21</u>		<u>X</u>	<u>X</u>	<u>X</u>										
	<u>14 SP1 @ 1'-R</u>	<u>G</u>	<u>1</u>			<u>X</u>					<u>X</u>		<u>7/8/21</u>		<u>X</u>	<u>X</u>	<u>X</u>										
	<u>15 SP2 @ surface</u>	<u>G</u>	<u>1</u>			<u>X</u>					<u>X</u>		<u>7/8/21</u>		<u>X</u>	<u>X</u>	<u>X</u>										
	<u>16 SP2 @ 3'-R</u>	<u>G</u>	<u>1</u>			<u>X</u>					<u>X</u>		<u>7/8/21</u>		<u>X</u>	<u>X</u>	<u>X</u>										
	<u>17 SP3 @ surface</u>	<u>G</u>	<u>1</u>			<u>X</u>					<u>X</u>		<u>7/8/21</u>		<u>X</u>	<u>X</u>	<u>X</u>										
	<u>18 SP3 @ 1'-R</u>	<u>G</u>	<u>1</u>			<u>X</u>					<u>X</u>		<u>7/8/21</u>		<u>X</u>	<u>X</u>	<u>X</u>										
	<u>19 SP4 @ surface</u>	<u>G</u>	<u>1</u>			<u>X</u>					<u>X</u>		<u>7/8/21</u>		<u>X</u>	<u>X</u>	<u>X</u>										
	<u>20 SP4 @ 2'</u>	<u>G</u>	<u>1</u>			<u>X</u>					<u>X</u>		<u>7/8/21</u>		<u>X</u>	<u>X</u>	<u>X</u>										

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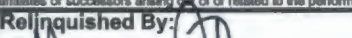
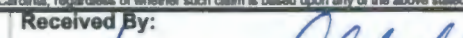

Relinquished By: <u>[Signature]</u>	Date: <u>7/8/21</u>	Received By: <u>[Signature]</u>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: <u>7:52</u>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS: <u>PM@etechenv.com</u>	
	Time:			
Delivered By: (Circle One)		Sample Condition	CHECKED BY:	
Sampler - UPS - Bus - Other: <u>32.6c #113</u>		Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	(Initials) <u>JO.</u>	

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: E Tech Environmental				BILL TO				ANALYSIS REQUEST																			
Project Manager: Joel Lowry				P.O. #:																							
Address: 3100 Plains Hwy				Company: Newbourne																							
City: Houghton State: NM Zip: 88460				Attn:																							
Phone #: 575-396-2378 Fax #:				Address:																							
Project #: 14420 Project Owner:				City:																							
Project Name: Paduca 716 AZED Fed com 1H				State: Zip:																							
Project Location: Rural Lea county, NM				Phone #:																							
Sampler Name: Miguel Ramirez				Fax #:																							
FOR LAB USE ONLY																											
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX				PRESERV.		SAMPLING		<div style="display: flex; justify-content: space-around;"> <div>Chlorides</div> <div>BTEX</div> <div>TPH</div> </div>											
								GROUNDWATER																			
								WASTEWATER																			
								SOIL																			
								OIL																			
								SLUDGE																			
								OTHER :																			
								ACID/BASE:																			
								ICE / COOL																			
								OTHER :																			
												DATE		TIME													
H211778																											
21 SPS @ surface		G										7/8/21															
22 SPS @ 3' R		G										7/8/21															
23 SPS @ surface		G										7/8/21															
24 SPS @ 1		G										7/8/21															

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Relinquished By: 		Date: 7/8/21	Received By: 	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Time: 7:52				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:		Date:	Received By:	REMARKS:	
Time:					
Delivered By: (Circle One)			Sample Condition	CHECKED BY:	
Sampler - UPS - Bus - Other:			Cool Intact	(Initials)	
32.6°C #113			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		



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

July 16, 2021

JOEL LOWRY

Etech Environmental & Safety Solutions

P.O. Box 301

Lovington, NM 88260

RE: PADUCA 7/6 A2ED FED COM 1H

Enclosed are the results of analyses for samples received by the laboratory on 07/13/21 16:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/13/2021	Sampling Date:	07/13/2021
Reported:	07/16/2021	Sampling Type:	Soil
Project Name:	PADUCA 7/6 A2ED FED COM 1H	Sampling Condition:	** (See Notes)
Project Number:	14420	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: WW 1 (H211814-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/14/2021	ND	2.13	106	2.00	0.571	
Toluene*	<0.050	0.050	07/14/2021	ND	2.12	106	2.00	2.63	
Ethylbenzene*	<0.050	0.050	07/14/2021	ND	2.11	106	2.00	1.43	
Total Xylenes*	<0.150	0.150	07/14/2021	ND	6.39	107	6.00	1.77	
Total BTEX	<0.300	0.300	07/14/2021	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	<16.0	16.0	07/14/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2021	ND	190	95.0	200	10.2	
DRO >C10-C28*	<10.0	10.0	07/14/2021	ND	215	107	200	2.80	
EXT DRO >C28-C36	<10.0	10.0	07/14/2021	ND					

Surrogate: 1-Chlorooctane 86.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 93.1 % 38.9-142

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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
 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

Received:	07/13/2021	Sampling Date:	07/13/2021
Reported:	07/16/2021	Sampling Type:	Soil
Project Name:	PADUCA 7/6 A2ED FED COM 1H	Sampling Condition:	** (See Notes)
Project Number:	14420	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: F2 @ 4' (H211814-02)

BTX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2021	ND	2.13	106	2.00	0.571	
Toluene*	0.337	0.050	07/15/2021	ND	2.12	106	2.00	2.63	
Ethylbenzene*	0.434	0.050	07/15/2021	ND	2.11	106	2.00	1.43	
Total Xylenes*	9.66	0.150	07/15/2021	ND	6.39	107	6.00	1.77	
Total BTX	10.4	0.300	07/15/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 256 % 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	07/14/2021	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*	319	10.0	07/14/2021	ND	190	95.0	200	10.2	
DRO >C10-C28*	3320	10.0	07/14/2021	ND	215	107	200	2.80	
EXT DRO >C28-C36	403	10.0	07/14/2021	ND					

Surrogate: 1-Chlorooctane 127 % 44.3-133

Surrogate: 1-Chlorooctadecane 109 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 07/13/2021
 Reported: 07/16/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 07/13/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: SW 2 (H211814-03)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/14/2021	ND	2.13	106	2.00	0.571	
Toluene*	<0.050	0.050	07/14/2021	ND	2.12	106	2.00	2.63	
Ethylbenzene*	<0.050	0.050	07/14/2021	ND	2.11	106	2.00	1.43	
Total Xylenes*	<0.150	0.150	07/14/2021	ND	6.39	107	6.00	1.77	
Total BTEx	<0.300	0.300	07/14/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	<16.0	16.0	07/14/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/15/2021	ND	190	95.0	200	10.2	
DRO >C10-C28*	<10.0	10.0	07/15/2021	ND	215	107	200	2.80	
EXT DRO >C28-C36	<10.0	10.0	07/15/2021	ND					

Surrogate: 1-Chlorooctane 97.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 106 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 JOEL LOWRY
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 Fax To: (575) 396-1429

Received: 07/13/2021
 Reported: 07/16/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 07/13/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: SW 1 (H211814-04)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/14/2021	ND	2.13	106	2.00	0.571	
Toluene*	<0.050	0.050	07/14/2021	ND	2.12	106	2.00	2.63	
Ethylbenzene*	<0.050	0.050	07/14/2021	ND	2.11	106	2.00	1.43	
Total Xylenes*	<0.150	0.150	07/14/2021	ND	6.39	107	6.00	1.77	
Total BTEX	<0.300	0.300	07/14/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	48.0	16.0	07/14/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2021	ND	190	95.0	200	10.2	
DRO >C10-C28*	19.0	10.0	07/14/2021	ND	215	107	200	2.80	
EXT DRO >C28-C36	<10.0	10.0	07/14/2021	ND					

Surrogate: 1-Chlorooctane 84.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 90.7 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 07/13/2021
 Reported: 07/16/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 07/13/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: EW 1 (H211814-05)

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	07/14/2021	ND	2.13	106	2.00	0.571	
Toluene*	<0.050	0.050	07/14/2021	ND	2.12	106	2.00	2.63	
Ethylbenzene*	<0.050	0.050	07/14/2021	ND	2.11	106	2.00	1.43	
Total Xylenes*	<0.150	0.150	07/14/2021	ND	6.39	107	6.00	1.77	
Total BTX	<0.300	0.300	07/14/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 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	32.0	16.0	07/14/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2021	ND	190	95.0	200	10.2	
DRO >C10-C28*	15.0	10.0	07/14/2021	ND	215	107	200	2.80	
EXT DRO >C28-C36	<10.0	10.0	07/14/2021	ND					

Surrogate: 1-Chlorooctane 89.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 97.3 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 07/13/2021
 Reported: 07/16/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 07/13/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: F1 @ 4' (H211814-06)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/14/2021	ND	2.13	106	2.00	0.571	
Toluene*	<0.050	0.050	07/14/2021	ND	2.12	106	2.00	2.63	
Ethylbenzene*	<0.050	0.050	07/14/2021	ND	2.11	106	2.00	1.43	
Total Xylenes*	<0.150	0.150	07/14/2021	ND	6.39	107	6.00	1.77	
Total BTEx	<0.300	0.300	07/14/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	07/14/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	10.9	10.0	07/14/2021	ND	190	95.0	200	10.2	
DRO >C10-C28*	421	10.0	07/14/2021	ND	215	107	200	2.80	
EXT DRO >C28-C36	39.7	10.0	07/14/2021	ND					

Surrogate: 1-Chlorooctane 82.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 97.4 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 07/13/2021
 Reported: 07/16/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 07/13/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: EW 2 (H211814-07)

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	07/14/2021	ND	2.13	106	2.00	0.571	
Toluene*	<0.050	0.050	07/14/2021	ND	2.12	106	2.00	2.63	
Ethylbenzene*	<0.050	0.050	07/14/2021	ND	2.11	106	2.00	1.43	
Total Xylenes*	0.314	0.150	07/14/2021	ND	6.39	107	6.00	1.77	
Total BTX	0.314	0.300	07/14/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	512	16.0	07/14/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	14.1	10.0	07/14/2021	ND	215	107	200	1.22	
DRO >C10-C28*	424	10.0	07/14/2021	ND	210	105	200	10.1	
EXT DRO >C28-C36	39.0	10.0	07/14/2021	ND					

Surrogate: 1-Chlorooctane 82.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 79.9 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/13/2021	Sampling Date:	07/13/2021
Reported:	07/16/2021	Sampling Type:	Soil
Project Name:	PADUCA 7/6 A2ED FED COM 1H	Sampling Condition:	** (See Notes)
Project Number:	14420	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: WW 2 (H211814-08)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/14/2021	ND	2.13	106	2.00	0.571	
Toluene*	<0.050	0.050	07/14/2021	ND	2.12	106	2.00	2.63	
Ethylbenzene*	<0.050	0.050	07/14/2021	ND	2.11	106	2.00	1.43	
Total Xylenes*	<0.150	0.150	07/14/2021	ND	6.39	107	6.00	1.77	
Total BTX	<0.300	0.300	07/14/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	64.0	16.0	07/14/2021	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2021	ND	215	107	200	1.22	
DRO >C10-C28*	27.2	10.0	07/14/2021	ND	210	105	200	10.1	
EXT DRO >C28-C36	<10.0	10.0	07/14/2021	ND					

Surrogate: 1-Chlorooctane 77.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 73.5 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 07/13/2021
 Reported: 07/16/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 07/13/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: F4 @ 3' (H211814-09)

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	07/14/2021	ND	2.13	106	2.00	0.571	
Toluene*	<0.050	0.050	07/14/2021	ND	2.12	106	2.00	2.63	
Ethylbenzene*	<0.050	0.050	07/14/2021	ND	2.11	106	2.00	1.43	
Total Xylenes*	0.514	0.150	07/14/2021	ND	6.39	107	6.00	1.77	
Total BTEX	0.514	0.300	07/14/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 128 % 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	432	16.0	07/14/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	20.4	10.0	07/14/2021	ND	215	107	200	1.22	
DRO >C10-C28*	605	10.0	07/14/2021	ND	210	105	200	10.1	
EXT DRO >C28-C36	74.3	10.0	07/14/2021	ND					

Surrogate: 1-Chlorooctane 77.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 76.8 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 07/13/2021
 Reported: 07/16/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 07/13/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: F3 @ 3' (H211814-10)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/14/2021	ND	2.13	106	2.00	0.571		
Toluene*	<0.050	0.050	07/14/2021	ND	2.12	106	2.00	2.63		
Ethylbenzene*	<0.050	0.050	07/14/2021	ND	2.11	106	2.00	1.43		
Total Xylenes*	<0.150	0.150	07/14/2021	ND	6.39	107	6.00	1.77		
Total BTEx	<0.300	0.300	07/14/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	07/14/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2021	ND	215	107	200	1.22	
DRO >C10-C28*	<10.0	10.0	07/14/2021	ND	210	105	200	10.1	
EXT DRO >C28-C36	<10.0	10.0	07/14/2021	ND					

Surrogate: 1-Chlorooctane 76.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 71.9 % 38.9-142

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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

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

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: <u>Etech Environmental</u>		BILL TO		ANALYSIS REQUEST																						
Project Manager: <u>Joel Lowry</u>		P.O. #:																								
Address: <u>3100 Plains Hwy</u>		Company: <u>Memboyne</u>																								
City: <u>Lovington</u> State: <u>NM</u> Zip: <u>88260</u>		Attn:																								
Phone #: <u>575-396-2378</u> Fax #: <u>-</u>		Address:																								
Project #: <u>14420</u> Project Owner: <u>Memboyne</u>		City:																								
Project Name: <u>Paduca 7/6 A2ED Fed Com 1H</u>		State: Zip:																								
Project Location: <u>Paduca Rural Lea Co, NM</u>		Phone #:																								
Sampler Name: <u>George Sims</u>		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	Chlorides	BTEX	TPH								
	<u>H211814</u>																									
	<u>1</u>	<u>WW1</u>	<u>C</u>				<u>✓</u>				<u>✓</u>			<u>7-13</u>		<u>✓</u>	<u>✓</u>	<u>✓</u>								
	<u>2</u>	<u>F2@4'</u>	<u>C</u>				<u>✓</u>				<u>✓</u>			<u>7-13</u>		<u>✓</u>	<u>✓</u>	<u>✓</u>								
	<u>3</u>	<u>SW2</u>	<u>C</u>				<u>✓</u>				<u>✓</u>			<u>7-13</u>		<u>✓</u>	<u>✓</u>	<u>✓</u>								
	<u>4</u>	<u>SV1</u>	<u>C</u>				<u>✓</u>				<u>✓</u>			<u>7-13</u>		<u>✓</u>	<u>✓</u>	<u>✓</u>								
	<u>5</u>	<u>EW1</u>	<u>C</u>				<u>✓</u>				<u>✓</u>			<u>7-13</u>		<u>✓</u>	<u>✓</u>	<u>✓</u>								
	<u>6</u>	<u>F1@4'</u>	<u>C</u>				<u>✓</u>				<u>✓</u>			<u>7-13</u>		<u>✓</u>	<u>✓</u>	<u>✓</u>								
	<u>7</u>	<u>EW2</u>	<u>C</u>				<u>✓</u>				<u>✓</u>			<u>11-1</u>		<u>✓</u>	<u>✓</u>	<u>✓</u>								
	<u>8</u>	<u>WW2</u>	<u>C</u>				<u>✓</u>				<u>✓</u>			<u>11-11</u>		<u>✓</u>	<u>✓</u>	<u>✓</u>								
	<u>9</u>	<u>F4@3'</u>	<u>C</u>				<u>✓</u>				<u>✓</u>			<u>11-11</u>		<u>✓</u>	<u>✓</u>	<u>✓</u>								
	<u>10</u>	<u>E3@3'</u>	<u>C</u>				<u>✓</u>				<u>✓</u>			<u>11-11</u>		<u>✓</u>	<u>✓</u>	<u>✓</u>								

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Relinquished By: <u>George Sims</u>	Date: <u>7/13/21</u>	Received By: <u>Jodi Benson</u>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Time: <u>16:20</u>			Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS: <u>PM@etechnv.com</u>	
Time:			<u>samples taken & brought directly to lab. JH</u>	
Delivered By: (Circle One)	Sample Condition	CHECKED BY:		
Sampler - UPS - Bus - Other: <u>34.80 / #113</u>	Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	(Initials) <u>JH</u>		



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July 19, 2021

JOEL LOWRY

Etech Environmental & Safety Solutions

P.O. Box 301

Lovington, NM 88260

RE: PADUCA 7/6 A2ED FED COM 1H

Enclosed are the results of analyses for samples received by the laboratory on 07/14/21 16:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/14/2021	Sampling Date:	07/14/2021
Reported:	07/19/2021	Sampling Type:	Soil
Project Name:	PADUCA 7/6 A2ED FED COM 1H	Sampling Condition:	** (See Notes)
Project Number:	14420	Sample Received By:	Celey D. Keene
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: F 5 @ 9' (H211827-01)

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	07/15/2021	ND	1.91	95.6	2.00	8.22	
Toluene*	<0.050	0.050	07/15/2021	ND	2.01	100	2.00	7.07	
Ethylbenzene*	<0.050	0.050	07/15/2021	ND	1.94	96.8	2.00	7.07	
Total Xylenes*	<0.150	0.150	07/15/2021	ND	5.87	97.9	6.00	7.55	
Total BTX	<0.300	0.300	07/15/2021	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	176	16.0	07/16/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2021	ND	197	98.5	200	5.52	
DRO >C10-C28*	<10.0	10.0	07/16/2021	ND	202	101	200	9.40	
EXT DRO >C28-C36	<10.0	10.0	07/16/2021	ND					

Surrogate: 1-Chlorooctane 88.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 96.4 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/14/2021	Sampling Date:	07/14/2021
Reported:	07/19/2021	Sampling Type:	Soil
Project Name:	PADUCA 7/6 A2ED FED COM 1H	Sampling Condition:	** (See Notes)
Project Number:	14420	Sample Received By:	Celey D. Keene
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: F 6 @ 5' (H211827-02)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/16/2021	ND	1.81	90.6	2.00	3.74		
Toluene*	<0.050	0.050	07/16/2021	ND	1.95	97.7	2.00	3.97		
Ethylbenzene*	<0.050	0.050	07/16/2021	ND	1.89	94.4	2.00	3.98		
Total Xylenes*	<0.150	0.150	07/16/2021	ND	5.67	94.5	6.00	4.27		
Total BTEx	<0.300	0.300	07/16/2021	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	656	16.0	07/16/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2021	ND	197	98.5	200	5.52	
DRO >C10-C28*	<10.0	10.0	07/16/2021	ND	202	101	200	9.40	
EXT DRO >C28-C36	<10.0	10.0	07/16/2021	ND					

Surrogate: 1-Chlorooctane 86.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 94.0 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/14/2021	Sampling Date:	07/14/2021
Reported:	07/19/2021	Sampling Type:	Soil
Project Name:	PADUCA 7/6 A2ED FED COM 1H	Sampling Condition:	** (See Notes)
Project Number:	14420	Sample Received By:	Celey D. Keene
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: WW 3 (H211827-03)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/16/2021	ND	1.81	90.6	2.00	3.74		
Toluene*	<0.050	0.050	07/16/2021	ND	1.95	97.7	2.00	3.97		
Ethylbenzene*	<0.050	0.050	07/16/2021	ND	1.89	94.4	2.00	3.98		
Total Xylenes*	<0.150	0.150	07/16/2021	ND	5.67	94.5	6.00	4.27		
Total BTEx	<0.300	0.300	07/16/2021	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	256	16.0	07/16/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2021	ND	211	105	200	5.94	
DRO >C10-C28*	<10.0	10.0	07/16/2021	ND	214	107	200	3.95	
EXT DRO >C28-C36	<10.0	10.0	07/16/2021	ND					

Surrogate: 1-Chlorooctane 88.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 86.4 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/14/2021	Sampling Date:	07/14/2021
Reported:	07/19/2021	Sampling Type:	Soil
Project Name:	PADUCA 7/6 A2ED FED COM 1H	Sampling Condition:	** (See Notes)
Project Number:	14420	Sample Received By:	Celey D. Keene
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: F 7 @ 8' (H211827-04)

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	07/16/2021	ND	1.81	90.6	2.00	3.74		
Toluene*	<0.050	0.050	07/16/2021	ND	1.95	97.7	2.00	3.97		
Ethylbenzene*	<0.050	0.050	07/16/2021	ND	1.89	94.4	2.00	3.98		
Total Xylenes*	<0.150	0.150	07/16/2021	ND	5.67	94.5	6.00	4.27		
Total BTX	<0.300	0.300	07/16/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 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	592	16.0	07/16/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2021	ND	211	105	200	5.94	
DRO >C10-C28*	<10.0	10.0	07/16/2021	ND	214	107	200	3.95	
EXT DRO >C28-C36	<10.0	10.0	07/16/2021	ND					

Surrogate: 1-Chlorooctane 83.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 80.2 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/14/2021	Sampling Date:	07/14/2021
Reported:	07/19/2021	Sampling Type:	Soil
Project Name:	PADUCA 7/6 A2ED FED COM 1H	Sampling Condition:	** (See Notes)
Project Number:	14420	Sample Received By:	Celey D. Keene
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: F 8 @ 8' (H211827-05)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/16/2021	ND	1.81	90.6	2.00	3.74		
Toluene*	<0.050	0.050	07/16/2021	ND	1.95	97.7	2.00	3.97		
Ethylbenzene*	<0.050	0.050	07/16/2021	ND	1.89	94.4	2.00	3.98		
Total Xylenes*	<0.150	0.150	07/16/2021	ND	5.67	94.5	6.00	4.27		
Total BTEx	<0.300	0.300	07/16/2021	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	368	16.0	07/16/2021	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2021	ND	211	105	200	5.94	
DRO >C10-C28*	<10.0	10.0	07/16/2021	ND	214	107	200	3.95	
EXT DRO >C28-C36	<10.0	10.0	07/16/2021	ND					

Surrogate: 1-Chlorooctane 86.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 82.7 % 38.9-142

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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 "C. D. Keene", written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

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

Company Name: E-Tech Environmental Tech				BILL TO				ANALYSIS REQUEST																				
Project Manager: Joel Lowry				P.O. #:																								
Address: 3100 Plains Hwy				Company: Melbourne																								
City: Lovington State: N.M. Zip: 88260				Attn:																								
Phone #: 575-396-2378 Fax #: —				Address:																								
Project #: 14420 Project Owner: Melbourne				City:																								
Project Name: Paduca 216 A2ED F.C. 1H				State: Zip:																								
Project Location: Rural Lea Co. N.M.				Phone #:																								
Sampler Name: George Sims				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													
	H211827-															Chloride	BTEx	pH										
	01	F5 @ 9'												7-14														
	02	F6 @ 5'												11-11														
	03	WW3												11-11														
	04	F7 @ 8'												1														
	05	F8 @ 5'																										

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Relinquished By:	Date: 11/4/21	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: 10:15		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
	Time:		Pm@Etechenv.com	
Delivered By: (Circle One)	Sample Condition	CHECKED BY:		
Sampler - UPS - Bus - Other:	Cool Intact	(Initials)		
	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Cpl #113		



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

July 19, 2021

JOEL LOWRY

Etech Environmental & Safety Solutions

P.O. Box 301

Lovington, NM 88260

RE: PADUCA 7/6 A2ED FED COM 1H

Enclosed are the results of analyses for samples received by the laboratory on 07/15/21 16:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/15/2021	Sampling Date:	07/14/2021
Reported:	07/19/2021	Sampling Type:	Soil
Project Name:	PADUCA 7/6 A2ED FED COM 1H	Sampling Condition:	** (See Notes)
Project Number:	14420	Sample Received By:	Celey D. Keene
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: AEW1 (H211855-01)

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	07/17/2021	ND	1.95	97.7	2.00	1.23	
Toluene*	<0.050	0.050	07/17/2021	ND	2.03	101	2.00	2.06	
Ethylbenzene*	<0.050	0.050	07/17/2021	ND	1.98	99.0	2.00	0.208	
Total Xylenes*	<0.150	0.150	07/17/2021	ND	5.99	99.9	6.00	0.811	
Total BTX	<0.300	0.300	07/17/2021	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	16.0	16.0	07/16/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2021	ND	228	114	200	1.01	
DRO >C10-C28*	<10.0	10.0	07/17/2021	ND	225	112	200	2.27	
EXT DRO >C28-C36	<10.0	10.0	07/17/2021	ND					

Surrogate: 1-Chlorooctane 93.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 91.9 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/15/2021	Sampling Date:	07/14/2021
Reported:	07/19/2021	Sampling Type:	Soil
Project Name:	PADUCA 7/6 A2ED FED COM 1H	Sampling Condition:	** (See Notes)
Project Number:	14420	Sample Received By:	Celey D. Keene
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: F 10 @ 5' (H211855-02)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/17/2021	ND	1.95	97.7	2.00	1.23		
Toluene*	<0.050	0.050	07/17/2021	ND	2.03	101	2.00	2.06		
Ethylbenzene*	<0.050	0.050	07/17/2021	ND	1.98	99.0	2.00	0.208		
Total Xylenes*	<0.150	0.150	07/17/2021	ND	5.99	99.9	6.00	0.811		
Total BTX	<0.300	0.300	07/17/2021	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	64.0	16.0	07/16/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2021	ND	228	114	200	1.01	
DRO >C10-C28*	<10.0	10.0	07/17/2021	ND	225	112	200	2.27	
EXT DRO >C28-C36	<10.0	10.0	07/17/2021	ND					

Surrogate: 1-Chlorooctane 93.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 92.9 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/15/2021	Sampling Date:	07/14/2021
Reported:	07/19/2021	Sampling Type:	Soil
Project Name:	PADUCA 7/6 A2ED FED COM 1H	Sampling Condition:	** (See Notes)
Project Number:	14420	Sample Received By:	Celey D. Keene
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: AWW1 (H211855-03)

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	07/17/2021	ND	1.95	97.7	2.00	1.23	
Toluene*	<0.050	0.050	07/17/2021	ND	2.03	101	2.00	2.06	
Ethylbenzene*	<0.050	0.050	07/17/2021	ND	1.98	99.0	2.00	0.208	
Total Xylenes*	<0.150	0.150	07/17/2021	ND	5.99	99.9	6.00	0.811	
Total BTX	<0.300	0.300	07/17/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 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	07/16/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2021	ND	228	114	200	1.01	
DRO >C10-C28*	<10.0	10.0	07/17/2021	ND	225	112	200	2.27	
EXT DRO >C28-C36	<10.0	10.0	07/17/2021	ND					

Surrogate: 1-Chlorooctane 92.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 91.7 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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 Fax To: (575) 396-1429

Received:	07/15/2021	Sampling Date:	07/14/2021
Reported:	07/19/2021	Sampling Type:	Soil
Project Name:	PADUCA 7/6 A2ED FED COM 1H	Sampling Condition:	** (See Notes)
Project Number:	14420	Sample Received By:	Celey D. Keene
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: F9 @ 4' (H211855-04)

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	07/17/2021	ND	1.95	97.7	2.00	1.23	
Toluene*	<0.050	0.050	07/17/2021	ND	2.03	101	2.00	2.06	
Ethylbenzene*	<0.050	0.050	07/17/2021	ND	1.98	99.0	2.00	0.208	
Total Xylenes*	<0.150	0.150	07/17/2021	ND	5.99	99.9	6.00	0.811	
Total BTX	<0.300	0.300	07/17/2021	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	<16.0	16.0	07/16/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2021	ND	228	114	200	1.01	
DRO >C10-C28*	<10.0	10.0	07/17/2021	ND	225	112	200	2.27	
EXT DRO >C28-C36	<10.0	10.0	07/17/2021	ND					

Surrogate: 1-Chlorooctane 68.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 67.0 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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 Fax To: (575) 396-1429

Received:	07/15/2021	Sampling Date:	07/14/2021
Reported:	07/19/2021	Sampling Type:	Soil
Project Name:	PADUCA 7/6 A2ED FED COM 1H	Sampling Condition:	** (See Notes)
Project Number:	14420	Sample Received By:	Celey D. Keene
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: AEW2 (H211855-05)

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	07/17/2021	ND	1.95	97.7	2.00	1.23		
Toluene*	<0.050	0.050	07/17/2021	ND	2.03	101	2.00	2.06		
Ethylbenzene*	<0.050	0.050	07/17/2021	ND	1.98	99.0	2.00	0.208		
Total Xylenes*	<0.150	0.150	07/17/2021	ND	5.99	99.9	6.00	0.811		
Total BTX	<0.300	0.300	07/17/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	07/16/2021	ND	416	104	400	0.00		

TPH 8015M			mg/kg							
			Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/17/2021	ND	228	114	200	1.01		
DRO >C10-C28*	<10.0	10.0	07/17/2021	ND	225	112	200	2.27		
EXT DRO >C28-C36	<10.0	10.0	07/17/2021	ND						

Surrogate: 1-Chlorooctane 92.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 91.6 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/15/2021	Sampling Date:	07/14/2021
Reported:	07/19/2021	Sampling Type:	Soil
Project Name:	PADUCA 7/6 A2ED FED COM 1H	Sampling Condition:	** (See Notes)
Project Number:	14420	Sample Received By:	Celey D. Keene
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: AWW2 (H211855-06)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/17/2021	ND	1.95	97.7	2.00	1.23		
Toluene*	<0.050	0.050	07/17/2021	ND	2.03	101	2.00	2.06		
Ethylbenzene*	<0.050	0.050	07/17/2021	ND	1.98	99.0	2.00	0.208		
Total Xylenes*	<0.150	0.150	07/17/2021	ND	5.99	99.9	6.00	0.811		
Total BTEx	<0.300	0.300	07/17/2021	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	<16.0	16.0	07/16/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2021	ND	228	114	200	1.01	
DRO >C10-C28*	<10.0	10.0	07/17/2021	ND	225	112	200	2.27	
EXT DRO >C28-C36	<10.0	10.0	07/17/2021	ND					

Surrogate: 1-Chlorooctane 94.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 93.1 % 38.9-142

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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
 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

Received: 07/15/2021
 Reported: 07/19/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 07/14/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Celey D. Keene

Sample ID: AEW3 (H211855-07)

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	07/17/2021	ND	1.95	97.7	2.00	1.23	
Toluene*	<0.050	0.050	07/17/2021	ND	2.03	101	2.00	2.06	
Ethylbenzene*	<0.050	0.050	07/17/2021	ND	1.98	99.0	2.00	0.208	
Total Xylenes*	<0.150	0.150	07/17/2021	ND	5.99	99.9	6.00	0.811	
Total BTX	<0.300	0.300	07/17/2021	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	<16.0	16.0	07/16/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2021	ND	228	114	200	1.01	
DRO >C10-C28*	<10.0	10.0	07/17/2021	ND	225	112	200	2.27	
EXT DRO >C28-C36	<10.0	10.0	07/17/2021	ND					

Surrogate: 1-Chlorooctane 92.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 90.2 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/15/2021	Sampling Date:	07/14/2021
Reported:	07/19/2021	Sampling Type:	Soil
Project Name:	PADUCA 7/6 A2ED FED COM 1H	Sampling Condition:	** (See Notes)
Project Number:	14420	Sample Received By:	Celey D. Keene
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: AWW3 (H211855-08)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/17/2021	ND	1.95	97.7	2.00	1.23	
Toluene*	<0.050	0.050	07/17/2021	ND	2.03	101	2.00	2.06	
Ethylbenzene*	<0.050	0.050	07/17/2021	ND	1.98	99.0	2.00	0.208	
Total Xylenes*	<0.150	0.150	07/17/2021	ND	5.99	99.9	6.00	0.811	
Total BTX	<0.300	0.300	07/17/2021	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	07/16/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2021	ND	228	114	200	1.01	
DRO >C10-C28*	<10.0	10.0	07/17/2021	ND	225	112	200	2.27	
EXT DRO >C28-C36	<10.0	10.0	07/17/2021	ND					

Surrogate: 1-Chlorooctane 87.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 86.3 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/15/2021	Sampling Date:	07/14/2021
Reported:	07/19/2021	Sampling Type:	Soil
Project Name:	PADUCA 7/6 A2ED FED COM 1H	Sampling Condition:	** (See Notes)
Project Number:	14420	Sample Received By:	Celey D. Keene
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: F11 @ 5' (H211855-09)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/17/2021	ND	1.95	97.7	2.00	1.23	
Toluene*	<0.050	0.050	07/17/2021	ND	2.03	101	2.00	2.06	
Ethylbenzene*	<0.050	0.050	07/17/2021	ND	1.98	99.0	2.00	0.208	
Total Xylenes*	<0.150	0.150	07/17/2021	ND	5.99	99.9	6.00	0.811	
Total BTX	<0.300	0.300	07/17/2021	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	07/16/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2021	ND	228	114	200	1.01	
DRO >C10-C28*	284	10.0	07/17/2021	ND	225	112	200	2.27	
EXT DRO >C28-C36	49.5	10.0	07/17/2021	ND					

Surrogate: 1-Chlorooctane 97.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 106 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/15/2021	Sampling Date:	07/14/2021
Reported:	07/19/2021	Sampling Type:	Soil
Project Name:	PADUCA 7/6 A2ED FED COM 1H	Sampling Condition:	** (See Notes)
Project Number:	14420	Sample Received By:	Celey D. Keene
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: F12 @ 5' (H211855-10)

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	07/17/2021	ND	1.95	97.7	2.00	1.23	
Toluene*	<0.050	0.050	07/17/2021	ND	2.03	101	2.00	2.06	
Ethylbenzene*	<0.050	0.050	07/17/2021	ND	1.98	99.0	2.00	0.208	
Total Xylenes*	<0.150	0.150	07/17/2021	ND	5.99	99.9	6.00	0.811	
Total BTX	<0.300	0.300	07/17/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 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	128	16.0	07/16/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2021	ND	228	114	200	1.01	
DRO >C10-C28*	252	10.0	07/17/2021	ND	225	112	200	2.27	
EXT DRO >C28-C36	41.7	10.0	07/17/2021	ND					

Surrogate: 1-Chlorooctane 96.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 104 % 38.9-142

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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 "C. 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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 13 of 13

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST											
Project Manager: <u>Joni Lorry</u>				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>											
Address: P.O. Box 301				Company: <u>Newburne</u>															
City: Lovington		State: NM Zip: 88260		Attn:															
Phone #: (575) 396-2378		Fax #: (575) 396-1429		Address:															
Project #: <u>14420</u>		Project Owner:		City:															
Project Name: <u>Pudva 7/6 AEO E.C. 1H</u>				State: Zip:															
Project Location: <u>Rural Lea Co, N.M.</u>				Phone #:															
Sampler Name: <u>George Sims</u>				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							
<u>H211855</u>																			
<u>1 AEW1</u>				<u>C</u>										<u>✓</u>					
<u>2 F10 @ 5'</u>				<u>C</u>										<u>✓</u>					
<u>3 AEW1</u>				<u>C</u>										<u>✓</u>					
<u>4 F9 @ 4'</u>				<u>C</u>										<u>✓</u>					
<u>5 AEW2</u>				<u>C</u>										<u>✓</u>					
<u>6 AEW2</u>				<u>C</u>										<u>✓</u>					
<u>7 AEW3</u>				<u>C</u>										<u>✓</u>					
<u>8 AEW3</u>				<u>C</u>										<u>✓</u>					
<u>9 F11 @ 5'</u>				<u>C</u>										<u>✓</u>					
<u>10 F12 @ 5'</u>				<u>C</u>										<u>✓</u>					

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Relinquished By: <u>George Sims</u>	Date: <u>7/15/21</u>	Received By: <u>Travis Harker</u>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: <u>14:00</u>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By: <u>Travis Harker</u>	Date: <u>7/15/21</u>	Received By: <u>George Sims</u>	REMARKS:	
	Time: <u>16:05</u>			
Delivered By: (Circle One)	Sample Condition		CHECKED BY:	
Sampler - UPS - Bus - Other:	Cool <input type="checkbox"/> Intact <input type="checkbox"/>		(Initials)	
	Yes <input type="checkbox"/> No <input type="checkbox"/>		<u>chk #113</u>	

Please email results to pm@etechenv.com.



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

July 20, 2021

JOEL LOWRY

Etech Environmental & Safety Solutions

P.O. Box 301

Lovington, NM 88260

RE: PADUCA 7/6 A2ED FED COM 1H

Enclosed are the results of analyses for samples received by the laboratory on 07/16/21 14:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/16/2021	Sampling Date:	07/16/2021
Reported:	07/20/2021	Sampling Type:	Soil
Project Name:	PADUCA 7/6 A2ED FED COM 1H	Sampling Condition:	** (See Notes)
Project Number:	14420	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: F 13 @ 8' (H211860-01)

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	07/19/2021	ND	1.90	94.8	2.00	4.50	
Toluene*	<0.050	0.050	07/19/2021	ND	1.99	99.6	2.00	4.23	
Ethylbenzene*	<0.050	0.050	07/19/2021	ND	2.00	99.8	2.00	5.35	
Total Xylenes*	<0.150	0.150	07/19/2021	ND	6.20	103	6.00	6.31	
Total BTX	<0.300	0.300	07/19/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.8 % 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	80.0	16.0	07/19/2021	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	07/19/2021	ND	217	109	200	1.37	
DRO >C10-C28*	<10.0	10.0	07/19/2021	ND	218	109	200	0.502	
EXT DRO >C28-C36	<10.0	10.0	07/19/2021	ND					

Surrogate: 1-Chlorooctane 88.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 85.5 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 07/16/2021
 Reported: 07/20/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 07/16/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: F 14 @ 8' (H211860-02)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/19/2021	ND	1.90	94.8	2.00	4.50	
Toluene*	<0.050	0.050	07/19/2021	ND	1.99	99.6	2.00	4.23	
Ethylbenzene*	<0.050	0.050	07/19/2021	ND	2.00	99.8	2.00	5.35	
Total Xylenes*	<0.150	0.150	07/19/2021	ND	6.20	103	6.00	6.31	
Total BTX	<0.300	0.300	07/19/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.7 % 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	240	16.0	07/19/2021	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	07/19/2021	ND	217	109	200	1.37	
DRO >C10-C28*	<10.0	10.0	07/19/2021	ND	218	109	200	0.502	
EXT DRO >C28-C36	<10.0	10.0	07/19/2021	ND					

Surrogate: 1-Chlorooctane 94.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 91.2 % 38.9-142

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Analytical Results For:

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

Received:	07/16/2021	Sampling Date:	07/16/2021
Reported:	07/20/2021	Sampling Type:	Soil
Project Name:	PADUCA 7/6 A2ED FED COM 1H	Sampling Condition:	** (See Notes)
Project Number:	14420	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: F 15 @ 8' (H211860-03)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/19/2021	ND	2.10	105	2.00	2.42	QR-03	
Toluene*	<0.050	0.050	07/19/2021	ND	2.26	113	2.00	3.62	QR-03	
Ethylbenzene*	<0.050	0.050	07/19/2021	ND	2.18	109	2.00	4.25	QR-03	
Total Xylenes*	<0.150	0.150	07/19/2021	ND	6.54	109	6.00	4.31		
Total BTEx	<0.300	0.300	07/19/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	48.0	16.0	07/19/2021	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	07/19/2021	ND	217	109	200	1.37	
DRO >C10-C28*	<10.0	10.0	07/19/2021	ND	218	109	200	0.502	
EXT DRO >C28-C36	<10.0	10.0	07/19/2021	ND					

Surrogate: 1-Chlorooctane 93.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 90.1 % 38.9-142

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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
 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

Received:	07/16/2021	Sampling Date:	07/16/2021
Reported:	07/20/2021	Sampling Type:	Soil
Project Name:	PADUCA 7/6 A2ED FED COM 1H	Sampling Condition:	** (See Notes)
Project Number:	14420	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: F 16 @ 8' (H211860-04)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/19/2021	ND	2.10	105	2.00	2.42		
Toluene*	<0.050	0.050	07/19/2021	ND	2.26	113	2.00	3.62		
Ethylbenzene*	<0.050	0.050	07/19/2021	ND	2.18	109	2.00	4.25		
Total Xylenes*	<0.150	0.150	07/19/2021	ND	6.54	109	6.00	4.31		
Total BTEx	<0.300	0.300	07/19/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	48.0	16.0	07/19/2021	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	07/19/2021	ND	217	109	200	1.37	
DRO >C10-C28*	<10.0	10.0	07/19/2021	ND	218	109	200	0.502	
EXT DRO >C28-C36	<10.0	10.0	07/19/2021	ND					

Surrogate: 1-Chlorooctane 92.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 89.5 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/16/2021	Sampling Date:	07/16/2021
Reported:	07/20/2021	Sampling Type:	Soil
Project Name:	PADUCA 7/6 A2ED FED COM 1H	Sampling Condition:	** (See Notes)
Project Number:	14420	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: AEW4 (H211860-05)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/19/2021	ND	2.10	105	2.00	2.42		
Toluene*	<0.050	0.050	07/19/2021	ND	2.26	113	2.00	3.62		
Ethylbenzene*	<0.050	0.050	07/19/2021	ND	2.18	109	2.00	4.25		
Total Xylenes*	<0.150	0.150	07/19/2021	ND	6.54	109	6.00	4.31		
Total BTEx	<0.300	0.300	07/19/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	07/19/2021	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	07/19/2021	ND	217	109	200	1.37	
DRO >C10-C28*	<10.0	10.0	07/19/2021	ND	218	109	200	0.502	
EXT DRO >C28-C36	<10.0	10.0	07/19/2021	ND					

Surrogate: 1-Chlorooctane 93.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 90.6 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/16/2021	Sampling Date:	07/16/2021
Reported:	07/20/2021	Sampling Type:	Soil
Project Name:	PADUCA 7/6 A2ED FED COM 1H	Sampling Condition:	** (See Notes)
Project Number:	14420	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: AWW4 (H211860-06)

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	07/19/2021	ND	2.10	105	2.00	2.42	
Toluene*	<0.050	0.050	07/19/2021	ND	2.26	113	2.00	3.62	
Ethylbenzene*	<0.050	0.050	07/19/2021	ND	2.18	109	2.00	4.25	
Total Xylenes*	<0.150	0.150	07/19/2021	ND	6.54	109	6.00	4.31	
Total BTX	<0.300	0.300	07/19/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	32.0	16.0	07/19/2021	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	07/19/2021	ND	217	109	200	1.37	
DRO >C10-C28*	<10.0	10.0	07/19/2021	ND	218	109	200	0.502	
EXT DRO >C28-C36	<10.0	10.0	07/19/2021	ND					

Surrogate: 1-Chlorooctane 98.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 95.4 % 38.9-142

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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.
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



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 9 of 9

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																			
Project Manager: Joel Covy				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																			
Address: P.O. Box 301				Company: Newburne																							
City: Lovington State: NM Zip: 88260				Attn:																							
Phone #: (575) 396-2378 Fax #: (575) 396-1429				Address:																							
Project #: 14420 Project Owner: Newburne				City:																							
Project Name: Paduca 7/6 Aged FLH				State: Zip:																							
Project Location: Rural Lea Co., N.M.				Phone #:																							
Sampler Name: George Sims				Fax #:																							
FOR LAB USE ONLY						MATRIX		PRESERV.		SAMPLING																	
Lab I.D.		Sample I.D.		(GRAB OR (C)OMP. # CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME	
H211860																											
1 F13 @ 8'				C																				7-16			
2 F14 @ 8'				C																				11			
3 F15 @ 8'				C																				11			
4 F16 @ 8'				C																				11			
5 AEW4				C																				11			
6 AWW4				C																				11			

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Relinquished By:	Date: 7-16-2	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Date:	Received By:	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
	Time: 14:15		REMARKS: Samples taken + brought directly to Lab. JHA	
Delivered By: (Circle One) Sampler - UPS - Bus - Other: 33.0° / #113			Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
CHECKED BY:			Please email results to pm@etechenv.com.	

FORM-006
Revision 1.0

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



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

July 23, 2021

JOEL LOWRY

Etech Environmental & Safety Solutions

P.O. Box 301

Lovington, NM 88260

RE: PADUCA 7/6 A2ED FED COM 1H

Enclosed are the results of analyses for samples received by the laboratory on 07/20/21 15:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/20/2021	Sampling Date:	07/20/2021
Reported:	07/23/2021	Sampling Type:	Soil
Project Name:	PADUCA 7/6 A2ED FED COM 1H	Sampling Condition:	** (See Notes)
Project Number:	14420	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: EW2 N (H211899-01)

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	07/21/2021	ND	1.93	96.5	2.00	1.29	
Toluene*	<0.050	0.050	07/21/2021	ND	2.05	103	2.00	1.48	
Ethylbenzene*	<0.050	0.050	07/21/2021	ND	1.97	98.3	2.00	2.12	
Total Xylenes*	<0.150	0.150	07/21/2021	ND	5.89	98.1	6.00	1.49	
Total BTX	<0.300	0.300	07/21/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	480	16.0	07/21/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/22/2021	ND	181	90.3	200	14.2	
DRO >C10-C28*	<10.0	10.0	07/22/2021	ND	174	86.8	200	15.0	
EXT DRO >C28-C36	<10.0	10.0	07/22/2021	ND					

Surrogate: 1-Chlorooctane 64.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 57.1 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 07/20/2021
 Reported: 07/23/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 07/20/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: F 1 @ 5' N (H211899-02)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/21/2021	ND	1.93	96.5	2.00	1.29	
Toluene*	<0.050	0.050	07/21/2021	ND	2.05	103	2.00	1.48	
Ethylbenzene*	<0.050	0.050	07/21/2021	ND	1.97	98.3	2.00	2.12	
Total Xylenes*	<0.150	0.150	07/21/2021	ND	5.89	98.1	6.00	1.49	
Total BTEx	<0.300	0.300	07/21/2021	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	07/21/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/22/2021	ND	181	90.3	200	14.2	
DRO >C10-C28*	278	10.0	07/22/2021	ND	174	86.8	200	15.0	
EXT DRO >C28-C36	36.4	10.0	07/22/2021	ND					

Surrogate: 1-Chlorooctane 65.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 64.3 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 07/20/2021
 Reported: 07/23/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 07/20/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: F 2 @ 5' N (H211899-03)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/21/2021	ND	1.93	96.5	2.00	1.29	
Toluene*	<0.050	0.050	07/21/2021	ND	2.05	103	2.00	1.48	
Ethylbenzene*	<0.050	0.050	07/21/2021	ND	1.97	98.3	2.00	2.12	
Total Xylenes*	<0.150	0.150	07/21/2021	ND	5.89	98.1	6.00	1.49	
Total BTEx	<0.300	0.300	07/21/2021	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	07/21/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/22/2021	ND	181	90.3	200	14.2	
DRO >C10-C28*	284	10.0	07/22/2021	ND	174	86.8	200	15.0	
EXT DRO >C28-C36	39.5	10.0	07/22/2021	ND					

Surrogate: 1-Chlorooctane 64.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 63.7 % 38.9-142

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Analytical Results For:

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

Received: 07/20/2021
 Reported: 07/23/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 07/20/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: F 4 @ 5' N (H211899-04)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/21/2021	ND	1.93	96.5	2.00	1.29	
Toluene*	<0.050	0.050	07/21/2021	ND	2.05	103	2.00	1.48	
Ethylbenzene*	<0.050	0.050	07/21/2021	ND	1.97	98.3	2.00	2.12	
Total Xylenes*	<0.150	0.150	07/21/2021	ND	5.89	98.1	6.00	1.49	
Total BTEx	<0.300	0.300	07/21/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	240	16.0	07/21/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/22/2021	ND	181	90.3	200	14.2	
DRO >C10-C28*	244	10.0	07/22/2021	ND	174	86.8	200	15.0	
EXT DRO >C28-C36	40.4	10.0	07/22/2021	ND					

Surrogate: 1-Chlorooctane 63.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 62.5 % 38.9-142

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Analytical Results For:

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

Received: 07/20/2021
 Reported: 07/23/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 07/20/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: F 17 @ 4' N (H211899-05)

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	07/21/2021	ND	1.93	96.5	2.00	1.29	
Toluene*	<0.050	0.050	07/21/2021	ND	2.05	103	2.00	1.48	
Ethylbenzene*	<0.050	0.050	07/21/2021	ND	1.97	98.3	2.00	2.12	
Total Xylenes*	<0.150	0.150	07/21/2021	ND	5.89	98.1	6.00	1.49	
Total BTX	<0.300	0.300	07/21/2021	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	64.0	16.0	07/21/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/22/2021	ND	181	90.3	200	14.2	
DRO >C10-C28*	<10.0	10.0	07/22/2021	ND	174	86.8	200	15.0	
EXT DRO >C28-C36	<10.0	10.0	07/22/2021	ND					

Surrogate: 1-Chlorooctane 61.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 52.9 % 38.9-142

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Analytical Results For:

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

Received: 07/20/2021
 Reported: 07/23/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 07/20/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: F 18 @ 4' N (H211899-06)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/21/2021	ND	1.93	96.5	2.00	1.29		
Toluene*	<0.050	0.050	07/21/2021	ND	2.05	103	2.00	1.48		
Ethylbenzene*	<0.050	0.050	07/21/2021	ND	1.97	98.3	2.00	2.12		
Total Xylenes*	<0.150	0.150	07/21/2021	ND	5.89	98.1	6.00	1.49		
Total BTEx	<0.300	0.300	07/21/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	16.0	16.0	07/21/2021	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/22/2021	ND	181	90.3	200	14.2	
DRO >C10-C28*	<10.0	10.0	07/22/2021	ND	174	86.8	200	15.0	
EXT DRO >C28-C36	<10.0	10.0	07/22/2021	ND					

Surrogate: 1-Chlorooctane 63.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 55.1 % 38.9-142

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Analytical Results For:

Etech Environmental & Safety Solutions
 JOEL LOWRY
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 Fax To: (575) 396-1429

Received: 07/20/2021
 Reported: 07/23/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 07/20/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: F 6 @ 6' N (H211899-07)

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	07/22/2021	ND	1.80	90.0	2.00	5.20		
Toluene*	<0.050	0.050	07/22/2021	ND	1.93	96.5	2.00	5.35		
Ethylbenzene*	<0.050	0.050	07/22/2021	ND	1.86	93.1	2.00	5.81		
Total Xylenes*	<0.150	0.150	07/22/2021	ND	5.60	93.3	6.00	5.65		
Total BTX	<0.300	0.300	07/22/2021	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	32.0	16.0	07/21/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/22/2021	ND	181	90.3	200	14.2	
DRO >C10-C28*	<10.0	10.0	07/22/2021	ND	174	86.8	200	15.0	
EXT DRO >C28-C36	<10.0	10.0	07/22/2021	ND					

Surrogate: 1-Chlorooctane 57.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 52.7 % 38.9-142

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Analytical Results For:

Etech Environmental & Safety Solutions
 JOEL LOWRY
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 Fax To: (575) 396-1429

Received: 07/20/2021
 Reported: 07/23/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 07/20/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: F 11 @ 6' N (H211899-08)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/22/2021	ND	1.80	90.0	2.00	5.20	
Toluene*	<0.050	0.050	07/22/2021	ND	1.93	96.5	2.00	5.35	
Ethylbenzene*	<0.050	0.050	07/22/2021	ND	1.86	93.1	2.00	5.81	
Total Xylenes*	<0.150	0.150	07/22/2021	ND	5.60	93.3	6.00	5.65	
Total BTX	<0.300	0.300	07/22/2021	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	32.0	16.0	07/21/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/22/2021	ND	181	90.3	200	14.2	
DRO >C10-C28*	<10.0	10.0	07/22/2021	ND	174	86.8	200	15.0	
EXT DRO >C28-C36	<10.0	10.0	07/22/2021	ND					

Surrogate: 1-Chlorooctane 64.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 58.9 % 38.9-142

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Analytical Results For:

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

Received: 07/20/2021
 Reported: 07/23/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 07/20/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: F 12 @ N (H211899-09)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/22/2021	ND	1.80	90.0	2.00	5.20	
Toluene*	<0.050	0.050	07/22/2021	ND	1.93	96.5	2.00	5.35	
Ethylbenzene*	<0.050	0.050	07/22/2021	ND	1.86	93.1	2.00	5.81	
Total Xylenes*	<0.150	0.150	07/22/2021	ND	5.60	93.3	6.00	5.65	
Total BTX	<0.300	0.300	07/22/2021	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	48.0	16.0	07/21/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/22/2021	ND	181	90.3	200	14.2	
DRO >C10-C28*	<10.0	10.0	07/22/2021	ND	174	86.8	200	15.0	
EXT DRO >C28-C36	<10.0	10.0	07/22/2021	ND					

Surrogate: 1-Chlorooctane 53.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 46.6 % 38.9-142

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Analytical Results For:

Etech Environmental & Safety Solutions
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 Fax To: (575) 396-1429

Received: 07/20/2021
 Reported: 07/23/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 07/20/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: F 19 @ 4' (H211899-10)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/22/2021	ND	1.80	90.0	2.00	5.20		
Toluene*	<0.050	0.050	07/22/2021	ND	1.93	96.5	2.00	5.35		
Ethylbenzene*	<0.050	0.050	07/22/2021	ND	1.86	93.1	2.00	5.81		
Total Xylenes*	<0.150	0.150	07/22/2021	ND	5.60	93.3	6.00	5.65		
Total BTEX	<0.300	0.300	07/22/2021	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	96.0	16.0	07/21/2021	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/22/2021	ND	181	90.3	200	14.2	
DRO >C10-C28*	<10.0	10.0	07/22/2021	ND	174	86.8	200	15.0	
EXT DRO >C28-C36	<10.0	10.0	07/22/2021	ND					

Surrogate: 1-Chlorooctane 89.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 77.0 % 38.9-142

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Analytical Results For:

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 Fax To: (575) 396-1429

Received: 07/20/2021
 Reported: 07/23/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 07/20/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: BEW 1 (H211899-11)

BTX 8021B			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/22/2021	ND	1.80	90.0	2.00	5.20		
Toluene*	<0.050	0.050	07/22/2021	ND	1.93	96.5	2.00	5.35		
Ethylbenzene*	<0.050	0.050	07/22/2021	ND	1.86	93.1	2.00	5.81		
Total Xylenes*	<0.150	0.150	07/22/2021	ND	5.60	93.3	6.00	5.65		
Total BTX	<0.300	0.300	07/22/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 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	32.0	16.0	07/21/2021	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/22/2021	ND	181	90.3	200	14.2	
DRO >C10-C28*	<10.0	10.0	07/22/2021	ND	174	86.8	200	15.0	
EXT DRO >C28-C36	<10.0	10.0	07/22/2021	ND					

Surrogate: 1-Chlorooctane 71.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 62.7 % 38.9-142

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Analytical Results For:

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

Received: 07/20/2021
 Reported: 07/23/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 07/20/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: BWV 1 (H211899-12)

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	07/22/2021	ND	1.80	90.0	2.00	5.20	
Toluene*	<0.050	0.050	07/22/2021	ND	1.93	96.5	2.00	5.35	
Ethylbenzene*	<0.050	0.050	07/22/2021	ND	1.86	93.1	2.00	5.81	
Total Xylenes*	<0.150	0.150	07/22/2021	ND	5.60	93.3	6.00	5.65	
Total BTX	<0.300	0.300	07/22/2021	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	16.0	16.0	07/21/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/22/2021	ND	181	90.3	200	14.2	
DRO >C10-C28*	<10.0	10.0	07/22/2021	ND	174	86.8	200	15.0	
EXT DRO >C28-C36	<10.0	10.0	07/22/2021	ND					

Surrogate: 1-Chlorooctane 67.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 60.7 % 38.9-142

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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
 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

Received: 07/20/2021
 Reported: 07/23/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 07/20/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: F 20 @ 7' (H211899-13)

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	07/22/2021	ND	1.80	90.0	2.00	5.20	
Toluene*	<0.050	0.050	07/22/2021	ND	1.93	96.5	2.00	5.35	
Ethylbenzene*	<0.050	0.050	07/22/2021	ND	1.86	93.1	2.00	5.81	
Total Xylenes*	<0.150	0.150	07/22/2021	ND	5.60	93.3	6.00	5.65	
Total BTX	<0.300	0.300	07/22/2021	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	07/21/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/22/2021	ND	181	90.3	200	14.2	
DRO >C10-C28*	<10.0	10.0	07/22/2021	ND	174	86.8	200	15.0	
EXT DRO >C28-C36	<10.0	10.0	07/22/2021	ND					

Surrogate: 1-Chlorooctane 68.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 60.0 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 07/20/2021
 Reported: 07/23/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 07/20/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: F 21 @ 7' (H211899-14)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/22/2021	ND	1.80	90.0	2.00	5.20	
Toluene*	<0.050	0.050	07/22/2021	ND	1.93	96.5	2.00	5.35	
Ethylbenzene*	<0.050	0.050	07/22/2021	ND	1.86	93.1	2.00	5.81	
Total Xylenes*	<0.150	0.150	07/22/2021	ND	5.60	93.3	6.00	5.65	
Total BTX	<0.300	0.300	07/22/2021	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	07/21/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/22/2021	ND	181	90.3	200	14.2	
DRO >C10-C28*	<10.0	10.0	07/22/2021	ND	174	86.8	200	15.0	
EXT DRO >C28-C36	<10.0	10.0	07/22/2021	ND					

Surrogate: 1-Chlorooctane 66.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 57.7 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

QR-04	The RPD for the BS/BSD was outside of historical limits.
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

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																													
Project Manager: Joel Curry				P.O. #:				Chloride TPH (8015M) BTEX (8021B)																													
Address: P.O. Box 301				Company: Newbourn																																	
City: Lovington		State: NM		Zip: 88260		Attn:																															
Phone #: (575) 396-2378		Fax #: (575) 396-1429		Address:																																	
Project #: 14420		Project Owner: Newbourn		City:																																	
Project Name: Payuca 1/16 A2ED F.C. 1H				State: Zip:																																	
Project Location: Rural Lea Co, NM				Phone #:																																	
Sampler Name: George Sims				Fax #:																																	
FOR LAB USE ONLY																																					
Lab I.D.		Sample I.D.		(G)RAB OR (C)COMP.		# CONTAINERS																										MATRIX		PRESERV.		SAMPLING	
																																GROUNDWATER					
																																WASTEWATER					
								SOIL																													
								OIL																													
								SLUDGE																													
								OTHER:																													
								ACID/BASE:																													
								ICE / COOL																													
								OTHER:																													
								DATE		TIME																											
H211899																																					
1 EW 2' N		C						✓		✓		✓																									
2 F10 @ 5' N		C						✓		✓		✓																									
3 F20 @ 5' N		C						✓		✓		✓																									
4 F4 @ 5' N		C						✓		✓		✓																									
5 F1 @ 4' N		C						✓		✓		✓																									
6 F8 @ 4' N		C						✓		✓		✓																									
7 F6 @ 6' N		C						✓		✓		✓																									
8 F11 @ 6' N		C						✓		✓		✓																									
9 F12 @ 6' N		C						✓		✓		✓																									
10 F1 @ 4' N		C						✓		✓		✓																									
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Relinquished By: George Sims				Date: 7-20-21				Received By: [Signature]				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Phone #:																					
				Time: 1520								Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Fax #:																					
Relinquished By:				Date:				Received By:				REMARKS:																									
				Time:																																	
Delivered By: (Circle One)				Sample Condition				CHECKED BY:				Please email results to pm@etechenv.com.																									
Sampler - UPS - Bus - Other:				Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No				(Initials) TO																													



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

July 28, 2021

JOEL LOWRY

Etech Environmental & Safety Solutions

P.O. Box 301

Lovington, NM 88260

RE: PADUCA 7/6 A2ED FED COM 1H

Enclosed are the results of analyses for samples received by the laboratory on 07/23/21 11:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/23/2021	Sampling Date:	07/22/2021
Reported:	07/28/2021	Sampling Type:	Soil
Project Name:	PADUCA 7/6 A2ED FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	14420	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: F 22 @ 8' (H211939-01)

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	07/26/2021	ND	1.89	94.6	2.00	7.58	
Toluene*	<0.050	0.050	07/26/2021	ND	2.03	101	2.00	7.79	
Ethylbenzene*	<0.050	0.050	07/26/2021	ND	1.94	97.0	2.00	8.49	
Total Xylenes*	<0.150	0.150	07/26/2021	ND	5.83	97.2	6.00	6.64	
Total BTX	<0.300	0.300	07/26/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	192	16.0	07/27/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/27/2021	ND	201	100	200	1.71	
DRO >C10-C28*	<10.0	10.0	07/27/2021	ND	205	102	200	0.381	
EXT DRO >C28-C36	<10.0	10.0	07/27/2021	ND					

Surrogate: 1-Chlorooctane 76.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 73.6 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 07/23/2021
 Reported: 07/28/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 07/22/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: F 23 @ 8' (H211939-02)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/26/2021	ND	1.89	94.6	2.00	7.58	
Toluene*	<0.050	0.050	07/26/2021	ND	2.03	101	2.00	7.79	
Ethylbenzene*	<0.050	0.050	07/26/2021	ND	1.94	97.0	2.00	8.49	
Total Xylenes*	<0.150	0.150	07/26/2021	ND	5.83	97.2	6.00	6.64	
Total BTX	<0.300	0.300	07/26/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 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	07/27/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/27/2021	ND	201	100	200	1.71	
DRO >C10-C28*	<10.0	10.0	07/27/2021	ND	205	102	200	0.381	
EXT DRO >C28-C36	<10.0	10.0	07/27/2021	ND					

Surrogate: 1-Chlorooctane 78.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 75.6 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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 P.O. Box 301
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 Fax To: (575) 396-1429

Received: 07/23/2021
 Reported: 07/28/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 07/22/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: F 24 @ 8' (H211939-03)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/26/2021	ND	1.89	94.6	2.00	7.58		
Toluene*	<0.050	0.050	07/26/2021	ND	2.03	101	2.00	7.79		
Ethylbenzene*	<0.050	0.050	07/26/2021	ND	1.94	97.0	2.00	8.49		
Total Xylenes*	<0.150	0.150	07/26/2021	ND	5.83	97.2	6.00	6.64		
Total BTEx	<0.300	0.300	07/26/2021	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	240	16.0	07/27/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/27/2021	ND	201	100	200	1.71	
DRO >C10-C28*	<10.0	10.0	07/27/2021	ND	205	102	200	0.381	
EXT DRO >C28-C36	<10.0	10.0	07/27/2021	ND					

Surrogate: 1-Chlorooctane 78.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 75.4 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 07/23/2021
 Reported: 07/28/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 07/22/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: F 25 @ 8' (H211939-04)

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	07/26/2021	ND	1.89	94.6	2.00	7.58	
Toluene*	<0.050	0.050	07/26/2021	ND	2.03	101	2.00	7.79	
Ethylbenzene*	<0.050	0.050	07/26/2021	ND	1.94	97.0	2.00	8.49	
Total Xylenes*	<0.150	0.150	07/26/2021	ND	5.83	97.2	6.00	6.64	
Total BTX	<0.300	0.300	07/26/2021	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	208	16.0	07/27/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/27/2021	ND	201	100	200	1.71	
DRO >C10-C28*	<10.0	10.0	07/27/2021	ND	205	102	200	0.381	
EXT DRO >C28-C36	<10.0	10.0	07/27/2021	ND					

Surrogate: 1-Chlorooctane 76.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 73.6 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 07/23/2021
 Reported: 07/28/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 07/22/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CEW 1 @ 0 - 8' (H211939-05)

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	07/26/2021	ND	1.89	94.6	2.00	7.58		
Toluene*	<0.050	0.050	07/26/2021	ND	2.03	101	2.00	7.79		
Ethylbenzene*	<0.050	0.050	07/26/2021	ND	1.94	97.0	2.00	8.49		
Total Xylenes*	<0.150	0.150	07/26/2021	ND	5.83	97.2	6.00	6.64		
Total BTX	<0.300	0.300	07/26/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 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	656	16.0	07/27/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/27/2021	ND	201	100	200	1.71	
DRO >C10-C28*	<10.0	10.0	07/27/2021	ND	205	102	200	0.381	
EXT DRO >C28-C36	<10.0	10.0	07/27/2021	ND					

Surrogate: 1-Chlorooctane 77.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 74.8 % 38.9-142

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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 "C. D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



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

August 02, 2021

JOEL LOWRY

Etech Environmental & Safety Solutions

P.O. Box 301

Lovington, NM 88260

RE: PADUCA 7/6 A2ED FED COM 1H

Enclosed are the results of analyses for samples received by the laboratory on 07/28/21 16:33.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/28/2021	Sampling Date:	07/28/2021
Reported:	08/02/2021	Sampling Type:	Soil
Project Name:	PADUCA 7/6 A2ED FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	14420	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: FL # 26 @ 10.5' (H211993-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/29/2021	ND	1.81	90.7	2.00	3.18	
Toluene*	<0.050	0.050	07/29/2021	ND	1.95	97.3	2.00	3.08	
Ethylbenzene*	<0.050	0.050	07/29/2021	ND	1.90	95.2	2.00	3.14	
Total Xylenes*	<0.150	0.150	07/29/2021	ND	5.74	95.6	6.00	2.74	
Total BTEX	<0.300	0.300	07/29/2021	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	192	16.0	07/30/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2021	ND	196	98.2	200	3.75	
DRO >C10-C28*	<10.0	10.0	07/29/2021	ND	194	97.2	200	3.68	
EXT DRO >C28-C36	<10.0	10.0	07/29/2021	ND					

Surrogate: 1-Chlorooctane 72.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 67.6 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 07/28/2021
 Reported: 08/02/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 07/28/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL # 27 @ 10' (H211993-02)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/29/2021	ND	1.81	90.7	2.00	3.18		
Toluene*	<0.050	0.050	07/29/2021	ND	1.95	97.3	2.00	3.08		
Ethylbenzene*	<0.050	0.050	07/29/2021	ND	1.90	95.2	2.00	3.14		
Total Xylenes*	<0.150	0.150	07/29/2021	ND	5.74	95.6	6.00	2.74		
Total BTX	<0.300	0.300	07/29/2021	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	07/30/2021	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2021	ND	196	98.2	200	3.75	
DRO >C10-C28*	<10.0	10.0	07/29/2021	ND	194	97.2	200	3.68	
EXT DRO >C28-C36	<10.0	10.0	07/29/2021	ND					

Surrogate: 1-Chlorooctane 67.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 63.0 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 07/28/2021
 Reported: 08/02/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 07/28/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL # 28 @ 10' (H211993-03)

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	07/29/2021	ND	1.81	90.7	2.00	3.18		
Toluene*	<0.050	0.050	07/29/2021	ND	1.95	97.3	2.00	3.08		
Ethylbenzene*	<0.050	0.050	07/29/2021	ND	1.90	95.2	2.00	3.14		
Total Xylenes*	<0.150	0.150	07/29/2021	ND	5.74	95.6	6.00	2.74		
Total BTX	<0.300	0.300	07/29/2021	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	256	16.0	07/30/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2021	ND	196	98.2	200	3.75	
DRO >C10-C28*	<10.0	10.0	07/29/2021	ND	194	97.2	200	3.68	
EXT DRO >C28-C36	<10.0	10.0	07/29/2021	ND					

Surrogate: 1-Chlorooctane 68.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 64.3 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 07/28/2021
 Reported: 08/02/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 07/28/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL # 29 @ 9' (H211993-04)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/29/2021	ND	1.81	90.7	2.00	3.18		
Toluene*	<0.050	0.050	07/29/2021	ND	1.95	97.3	2.00	3.08		
Ethylbenzene*	<0.050	0.050	07/29/2021	ND	1.90	95.2	2.00	3.14		
Total Xylenes*	<0.150	0.150	07/29/2021	ND	5.74	95.6	6.00	2.74		
Total BTEX	<0.300	0.300	07/29/2021	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	128	16.0	07/30/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/30/2021	ND	196	98.2	200	3.75	
DRO >C10-C28*	24.7	10.0	07/30/2021	ND	194	97.2	200	3.68	
EXT DRO >C28-C36	<10.0	10.0	07/30/2021	ND					

Surrogate: 1-Chlorooctane 75.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 70.2 % 38.9-142

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Analytical Results For:

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

Received: 07/28/2021
 Reported: 08/02/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 07/28/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL # 30 @ 10' (H211993-05)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/30/2021	ND	2.05	102	2.00	2.46		
Toluene*	<0.050	0.050	07/30/2021	ND	2.14	107	2.00	3.46		
Ethylbenzene*	<0.050	0.050	07/30/2021	ND	2.06	103	2.00	3.15		
Total Xylenes*	<0.150	0.150	07/30/2021	ND	6.17	103	6.00	1.57		
Total BTEx	<0.300	0.300	07/30/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 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	07/30/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/30/2021	ND	201	101	200	1.86	
DRO >C10-C28*	<10.0	10.0	07/30/2021	ND	197	98.7	200	2.27	
EXT DRO >C28-C36	<10.0	10.0	07/30/2021	ND					

Surrogate: 1-Chlorooctane 71.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 65.7 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 07/28/2021
 Reported: 08/02/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 07/28/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL # 31 @ 3' (H211993-06)

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	07/30/2021	ND	2.05	102	2.00	2.46	
Toluene*	<0.050	0.050	07/30/2021	ND	2.14	107	2.00	3.46	
Ethylbenzene*	<0.050	0.050	07/30/2021	ND	2.06	103	2.00	3.15	
Total Xylenes*	<0.150	0.150	07/30/2021	ND	6.17	103	6.00	1.57	
Total BTX	<0.300	0.300	07/30/2021	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	48.0	16.0	07/30/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/30/2021	ND	201	101	200	1.86	
DRO >C10-C28*	<10.0	10.0	07/30/2021	ND	197	98.7	200	2.27	
EXT DRO >C28-C36	<10.0	10.0	07/30/2021	ND					

Surrogate: 1-Chlorooctane 70.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 65.2 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 07/28/2021
 Reported: 08/02/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 07/28/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL # 32 @ 3' (H211993-07)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/30/2021	ND	2.05	102	2.00	2.46		
Toluene*	<0.050	0.050	07/30/2021	ND	2.14	107	2.00	3.46		
Ethylbenzene*	<0.050	0.050	07/30/2021	ND	2.06	103	2.00	3.15		
Total Xylenes*	<0.150	0.150	07/30/2021	ND	6.17	103	6.00	1.57		
Total BTEx	<0.300	0.300	07/30/2021	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	384	16.0	07/30/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/30/2021	ND	201	101	200	1.86	
DRO >C10-C28*	<10.0	10.0	07/30/2021	ND	197	98.7	200	2.27	
EXT DRO >C28-C36	<10.0	10.0	07/30/2021	ND					

Surrogate: 1-Chlorooctane 69.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 63.7 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 07/28/2021
 Reported: 08/02/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 07/28/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SSW B #4 @ 9' (H211993-08)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/30/2021	ND	2.05	102	2.00	2.46	
Toluene*	<0.050	0.050	07/30/2021	ND	2.14	107	2.00	3.46	
Ethylbenzene*	<0.050	0.050	07/30/2021	ND	2.06	103	2.00	3.15	
Total Xylenes*	<0.150	0.150	07/30/2021	ND	6.17	103	6.00	1.57	
Total BTX	<0.300	0.300	07/30/2021	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	07/30/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/30/2021	ND	201	101	200	1.86	
DRO >C10-C28*	<10.0	10.0	07/30/2021	ND	197	98.7	200	2.27	
EXT DRO >C28-C36	<10.0	10.0	07/30/2021	ND					

Surrogate: 1-Chlorooctane 71.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 66.1 % 38.9-142

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Analytical Results For:

Etech Environmental & Safety Solutions
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 Fax To: (575) 396-1429

Received: 07/28/2021
 Reported: 08/02/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 07/27/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SSW # 5 @ 3' (H211993-09)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/30/2021	ND	2.05	102	2.00	2.46	
Toluene*	<0.050	0.050	07/30/2021	ND	2.14	107	2.00	3.46	
Ethylbenzene*	<0.050	0.050	07/30/2021	ND	2.06	103	2.00	3.15	
Total Xylenes*	<0.150	0.150	07/30/2021	ND	6.17	103	6.00	1.57	
Total BTX	<0.300	0.300	07/30/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	32.0	16.0	07/30/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/30/2021	ND	201	101	200	1.86	
DRO >C10-C28*	<10.0	10.0	07/30/2021	ND	197	98.7	200	2.27	
EXT DRO >C28-C36	<10.0	10.0	07/30/2021	ND					

Surrogate: 1-Chlorooctane 69.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 64.3 % 38.9-142

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Analytical Results For:

Etech Environmental & Safety Solutions
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Received: 07/28/2021
 Reported: 08/02/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 07/28/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: A WSW # 5 @ 10' (H211993-10)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/30/2021	ND	2.05	102	2.00	2.46		
Toluene*	<0.050	0.050	07/30/2021	ND	2.14	107	2.00	3.46		
Ethylbenzene*	<0.050	0.050	07/30/2021	ND	2.06	103	2.00	3.15		
Total Xylenes*	<0.150	0.150	07/30/2021	ND	6.17	103	6.00	1.57		
Total BTEx	<0.300	0.300	07/30/2021	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	32.0	16.0	07/30/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/30/2021	ND	201	101	200	1.86	
DRO >C10-C28*	<10.0	10.0	07/30/2021	ND	197	98.7	200	2.27	
EXT DRO >C28-C36	<10.0	10.0	07/30/2021	ND					

Surrogate: 1-Chlorooctane 64.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 58.5 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
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Received: 07/28/2021
 Reported: 08/02/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 07/28/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: WSW # 6 @ 9' (H211993-11)

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	07/30/2021	ND	2.05	102	2.00	2.46	
Toluene*	<0.050	0.050	07/30/2021	ND	2.14	107	2.00	3.46	
Ethylbenzene*	<0.050	0.050	07/30/2021	ND	2.06	103	2.00	3.15	
Total Xylenes*	<0.150	0.150	07/30/2021	ND	6.17	103	6.00	1.57	
Total BTEx	<0.300	0.300	07/30/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	07/30/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/30/2021	ND	201	101	200	1.86	
DRO >C10-C28*	12.1	10.0	07/30/2021	ND	197	98.7	200	2.27	
EXT DRO >C28-C36	<10.0	10.0	07/30/2021	ND					

Surrogate: 1-Chlorooctane 58.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 54.5 % 38.9-142

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Analytical Results For:

Etech Environmental & Safety Solutions
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 Fax To: (575) 396-1429

Received: 07/28/2021
 Reported: 08/02/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 07/28/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: WSW # 7 @ 3' (H211993-12)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/30/2021	ND	2.05	102	2.00	2.46	
Toluene*	<0.050	0.050	07/30/2021	ND	2.14	107	2.00	3.46	
Ethylbenzene*	<0.050	0.050	07/30/2021	ND	2.06	103	2.00	3.15	
Total Xylenes*	<0.150	0.150	07/30/2021	ND	6.17	103	6.00	1.57	
Total BTEx	<0.300	0.300	07/30/2021	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	32.0	16.0	07/30/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/30/2021	ND	201	101	200	1.86	
DRO >C10-C28*	<10.0	10.0	07/30/2021	ND	197	98.7	200	2.27	
EXT DRO >C28-C36	<10.0	10.0	07/30/2021	ND					

Surrogate: 1-Chlorooctane 70.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 62.4 % 38.9-142

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Analytical Results For:

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 Fax To: (575) 396-1429

Received: 07/28/2021
 Reported: 08/02/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 07/28/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: WSW # 8 @ 3' (H211993-13)

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	07/30/2021	ND	2.05	102	2.00	2.46	
Toluene*	<0.050	0.050	07/30/2021	ND	2.14	107	2.00	3.46	
Ethylbenzene*	<0.050	0.050	07/30/2021	ND	2.06	103	2.00	3.15	
Total Xylenes*	<0.150	0.150	07/30/2021	ND	6.17	103	6.00	1.57	
Total BTX	<0.300	0.300	07/30/2021	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	64.0	16.0	07/30/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/30/2021	ND	201	101	200	1.86	
DRO >C10-C28*	<10.0	10.0	07/30/2021	ND	197	98.7	200	2.27	
EXT DRO >C28-C36	<10.0	10.0	07/30/2021	ND					

Surrogate: 1-Chlorooctane 66.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 59.5 % 38.9-142

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Analytical Results For:

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Received: 07/28/2021
 Reported: 08/02/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 07/28/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: ESW # 2 @ 10.5' (H211993-14)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/30/2021	ND	2.05	102	2.00	2.46	
Toluene*	<0.050	0.050	07/30/2021	ND	2.14	107	2.00	3.46	
Ethylbenzene*	<0.050	0.050	07/30/2021	ND	2.06	103	2.00	3.15	
Total Xylenes*	<0.150	0.150	07/30/2021	ND	6.17	103	6.00	1.57	
Total BTX	<0.300	0.300	07/30/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	07/30/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/30/2021	ND	201	101	200	1.86	
DRO >C10-C28*	<10.0	10.0	07/30/2021	ND	197	98.7	200	2.27	
EXT DRO >C28-C36	<10.0	10.0	07/30/2021	ND					

Surrogate: 1-Chlorooctane 62.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 58.0 % 38.9-142

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Analytical Results For:

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Received: 07/28/2021
 Reported: 08/02/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 07/28/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: ESW # 3 @ 10' (H211993-15)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/30/2021	ND	2.05	102	2.00	2.46	
Toluene*	<0.050	0.050	07/30/2021	ND	2.14	107	2.00	3.46	
Ethylbenzene*	<0.050	0.050	07/30/2021	ND	2.06	103	2.00	3.15	
Total Xylenes*	<0.150	0.150	07/30/2021	ND	6.17	103	6.00	1.57	
Total BTX	<0.300	0.300	07/30/2021	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	07/30/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/30/2021	ND	201	101	200	1.86	
DRO >C10-C28*	<10.0	10.0	07/30/2021	ND	197	98.7	200	2.27	
EXT DRO >C28-C36	<10.0	10.0	07/30/2021	ND					

Surrogate: 1-Chlorooctane 59.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 54.0 % 38.9-142

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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
 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

Received: 07/28/2021
 Reported: 08/02/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 07/28/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: ESW # 4 @ 3' (H211993-16)

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	07/30/2021	ND	2.05	102	2.00	2.46		
Toluene*	<0.050	0.050	07/30/2021	ND	2.14	107	2.00	3.46		
Ethylbenzene*	<0.050	0.050	07/30/2021	ND	2.06	103	2.00	3.15		
Total Xylenes*	<0.150	0.150	07/30/2021	ND	6.17	103	6.00	1.57		
Total BTEx	<0.300	0.300	07/30/2021	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	32.0	16.0	07/30/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/30/2021	ND	201	101	200	1.86	
DRO >C10-C28*	<10.0	10.0	07/30/2021	ND	197	98.7	200	2.27	
EXT DRO >C28-C36	<10.0	10.0	07/30/2021	ND					

Surrogate: 1-Chlorooctane 61.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 56.5 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/28/2021	Sampling Date:	07/28/2021
Reported:	08/02/2021	Sampling Type:	Soil
Project Name:	PADUCA 7/6 A2ED FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	14420	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: ESW # 5 @ 3' (H211993-17)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/30/2021	ND	2.05	102	2.00	2.46		
Toluene*	<0.050	0.050	07/30/2021	ND	2.14	107	2.00	3.46		
Ethylbenzene*	<0.050	0.050	07/30/2021	ND	2.06	103	2.00	3.15		
Total Xylenes*	<0.150	0.150	07/30/2021	ND	6.17	103	6.00	1.57		
Total BTX	<0.300	0.300	07/30/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	16.0	16.0	07/30/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/30/2021	ND	201	101	200	1.86	
DRO >C10-C28*	<10.0	10.0	07/30/2021	ND	197	98.7	200	2.27	
EXT DRO >C28-C36	<10.0	10.0	07/30/2021	ND					

Surrogate: 1-Chlorooctane 64.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 57.6 % 38.9-142

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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".

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

Company Name: Etch Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																					
Project Manager: Joel Lowry				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																					
Address: P.O. Box 301				Company: Newburne oil co.																									
City: Lovington		State: NM Zip: 88260		Attn:																									
Phone #: (575) 396-2378		Fax #: (575) 396-1429		Address:																									
Project #: 14420		Project Owner:		City:																									
Project Name: Paduca 7/6 A2ED Fed Com 1 H				State: Zip:																									
Project Location:				Phone #:																									
Sampler Name: Aaron Rios				Fax #:																									
FOR LAB USE ONLY																													
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX				PRESERV.		SAMPLING																	
						GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME													
H211993																													
1 FL# 25 @ 10 1/2				1				X				X			7/28/21	8:00 AM	X	X	X										
2 FL# 27 @ 10'				1				X				X			7/29/21	8:00 AM	X	X	X										
3 FL# 28 @ 10'				1				X				X			7/29/21	8:00 AM	X	X	X										
4 FL# 29 @ 9'				1				X				X			7/29/21	8:00 AM	X	X	X										
5 FL# 30 @ 10'				1				X				X			7/29/21	8:00 AM	X	X	X										
6 FL# 31 @ 3'				1				X				X			7/29/21	11:00 AM	X	X	X										
7 FL# 32 @ 3'				1				X				X			7/29/21	11:00 AM	X	X	X										
8 SSW # 8 @ 4'				1				X				X			7/29/21	11:00 AM	X	X	X										
9 SSW # 5 @ 3'				1				X				X			7/29/21	11:00 AM	X	X	X										
<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:		Received By:				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Phone #:															
				Time:						Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Fax #:															
Relinquished By:				Date:		Received By:				REMARKS: Please email results to pm@etechenv.com.																			
Aaron Rios				7/28/21		Jawara Olatokun																							
				Time: 1633																									
Delivered By: (Circle One)				Sample Condition		CHECKED BY:																							
(Sample) - UPS - Bus - Other:				Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		(Initials) T.O.																							

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]



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

August 04, 2021

JOEL LOWRY

Etech Environmental & Safety Solutions

P.O. Box 301

Lovington, NM 88260

RE: PADUCA 7/6 A2ED FED COM 1H

Enclosed are the results of analyses for samples received by the laboratory on 07/29/21 16:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/29/2021	Sampling Date:	07/29/2021
Reported:	08/04/2021	Sampling Type:	Soil
Project Name:	PADUCA 7/6 A2ED FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	14420	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: WSW # 9 @ 3' (H212016-01)

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	08/02/2021	ND	1.81	90.5	2.00	5.31		
Toluene*	<0.050	0.050	08/02/2021	ND	1.96	98.0	2.00	5.24		
Ethylbenzene*	<0.050	0.050	08/02/2021	ND	1.90	94.8	2.00	4.70		
Total Xylenes*	<0.150	0.150	08/02/2021	ND	5.70	95.0	6.00	3.68		
Total BTEX	<0.300	0.300	08/02/2021	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	64.0	16.0	08/02/2021	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	08/02/2021	ND	200	100	200	2.33	
DRO >C10-C28*	<10.0	10.0	08/02/2021	ND	196	98.1	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	08/02/2021	ND					

Surrogate: 1-Chlorooctane 80.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 73.2 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 07/29/2021
 Reported: 08/04/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 07/29/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: WSW # 10 @ 4' (H212016-02)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/02/2021	ND	1.81	90.5	2.00	5.31		
Toluene*	<0.050	0.050	08/02/2021	ND	1.96	98.0	2.00	5.24		
Ethylbenzene*	<0.050	0.050	08/02/2021	ND	1.90	94.8	2.00	4.70		
Total Xylenes*	<0.150	0.150	08/02/2021	ND	5.70	95.0	6.00	3.68		
Total BTEx	<0.300	0.300	08/02/2021	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	64.0	16.0	08/02/2021	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	08/02/2021	ND	200	100	200	2.33	
DRO >C10-C28*	<10.0	10.0	08/02/2021	ND	196	98.1	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	08/02/2021	ND					

Surrogate: 1-Chlorooctane 80.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 73.4 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 07/29/2021
 Reported: 08/04/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 07/29/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: WSW # 11 @ 4' (H212016-03)

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	08/02/2021	ND	1.81	90.5	2.00	5.31	
Toluene*	<0.050	0.050	08/02/2021	ND	1.96	98.0	2.00	5.24	
Ethylbenzene*	<0.050	0.050	08/02/2021	ND	1.90	94.8	2.00	4.70	
Total Xylenes*	<0.150	0.150	08/02/2021	ND	5.70	95.0	6.00	3.68	
Total BTEx	<0.300	0.300	08/02/2021	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	176	16.0	08/02/2021	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	08/02/2021	ND	200	100	200	2.33	
DRO >C10-C28*	<10.0	10.0	08/02/2021	ND	196	98.1	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	08/02/2021	ND					

Surrogate: 1-Chlorooctane 83.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 74.5 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 07/29/2021
 Reported: 08/04/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 07/29/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: ESW # 6 @ 3' (H212016-04)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/02/2021	ND	1.81	90.5	2.00	5.31	
Toluene*	<0.050	0.050	08/02/2021	ND	1.96	98.0	2.00	5.24	
Ethylbenzene*	<0.050	0.050	08/02/2021	ND	1.90	94.8	2.00	4.70	
Total Xylenes*	<0.150	0.150	08/02/2021	ND	5.70	95.0	6.00	3.68	
Total BTEx	<0.300	0.300	08/02/2021	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	32.0	16.0	08/02/2021	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	08/02/2021	ND	200	100	200	2.33	
DRO >C10-C28*	<10.0	10.0	08/02/2021	ND	196	98.1	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	08/02/2021	ND					

Surrogate: 1-Chlorooctane 78.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 71.2 % 38.9-142

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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
 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

Received: 07/29/2021
 Reported: 08/04/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 07/29/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: ESW # 7 @ 4' (H212016-05)

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	08/02/2021	ND	1.81	90.5	2.00	5.31	
Toluene*	0.166	0.050	08/02/2021	ND	1.96	98.0	2.00	5.24	
Ethylbenzene*	<0.050	0.050	08/02/2021	ND	1.90	94.8	2.00	4.70	
Total Xylenes*	<0.150	0.150	08/02/2021	ND	5.70	95.0	6.00	3.68	
Total BTEx	<0.300	0.300	08/02/2021	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	16.0	16.0	08/02/2021	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	08/02/2021	ND	200	100	200	2.33	
DRO >C10-C28*	<10.0	10.0	08/02/2021	ND	196	98.1	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	08/02/2021	ND					

Surrogate: 1-Chlorooctane 79.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 72.6 % 38.9-142

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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
 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

Received: 07/29/2021
 Reported: 08/04/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 07/29/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: ESW # 8 @ 4' (H212016-06)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/02/2021	ND	1.81	90.5	2.00	5.31	
Toluene*	<0.050	0.050	08/02/2021	ND	1.96	98.0	2.00	5.24	
Ethylbenzene*	<0.050	0.050	08/02/2021	ND	1.90	94.8	2.00	4.70	
Total Xylenes*	<0.150	0.150	08/02/2021	ND	5.70	95.0	6.00	3.68	
Total BTEx	<0.300	0.300	08/02/2021	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	08/02/2021	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	08/02/2021	ND	200	100	200	2.33	
DRO >C10-C28*	<10.0	10.0	08/02/2021	ND	196	98.1	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	08/02/2021	ND					

Surrogate: 1-Chlorooctane 79.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 72.5 % 38.9-142

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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
 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

Received: 07/29/2021
 Reported: 08/04/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 07/29/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL # 33 @ 3' (H212016-07)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/02/2021	ND	1.81	90.5	2.00	5.31	
Toluene*	0.053	0.050	08/02/2021	ND	1.96	98.0	2.00	5.24	
Ethylbenzene*	<0.050	0.050	08/02/2021	ND	1.90	94.8	2.00	4.70	
Total Xylenes*	<0.150	0.150	08/02/2021	ND	5.70	95.0	6.00	3.68	
Total BTX	<0.300	0.300	08/02/2021	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	08/02/2021	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	08/02/2021	ND	200	100	200	2.33	
DRO >C10-C28*	<10.0	10.0	08/02/2021	ND	196	98.1	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	08/02/2021	ND					

Surrogate: 1-Chlorooctane 71.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 65.2 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 07/29/2021
 Reported: 08/04/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 07/29/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL # 34 @ 3' (H212016-08)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/02/2021	ND	1.81	90.5	2.00	5.31	
Toluene*	0.067	0.050	08/02/2021	ND	1.96	98.0	2.00	5.24	
Ethylbenzene*	<0.050	0.050	08/02/2021	ND	1.90	94.8	2.00	4.70	
Total Xylenes*	<0.150	0.150	08/02/2021	ND	5.70	95.0	6.00	3.68	
Total BTEx	<0.300	0.300	08/02/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 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	08/02/2021	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	08/02/2021	ND	200	100	200	2.33	
DRO >C10-C28*	<10.0	10.0	08/02/2021	ND	196	98.1	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	08/02/2021	ND					

Surrogate: 1-Chlorooctane 74.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 67.5 % 38.9-142

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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
 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

Received: 07/29/2021
 Reported: 08/04/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 07/29/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL # 35 @ 7' (H212016-09)

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	08/02/2021	ND	1.81	90.5	2.00	5.31	
Toluene*	0.079	0.050	08/02/2021	ND	1.96	98.0	2.00	5.24	
Ethylbenzene*	<0.050	0.050	08/02/2021	ND	1.90	94.8	2.00	4.70	
Total Xylenes*	<0.150	0.150	08/02/2021	ND	5.70	95.0	6.00	3.68	
Total BTEx	<0.300	0.300	08/02/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 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	08/02/2021	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	08/02/2021	ND	200	100	200	2.33	
DRO >C10-C28*	<10.0	10.0	08/02/2021	ND	196	98.1	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	08/02/2021	ND					

Surrogate: 1-Chlorooctane 75.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 69.8 % 38.9-142

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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 cursive script, 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 12 of 12

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																		
Project Manager: Joel Lowry				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																		
Address: P.O. Box 301				Company: NewBourne																						
City: Lovington		State: NM Zip: 88260		Attn:																						
Phone #: (575) 396-2378		Fax #: (575) 396-1429		Address:																						
Project #: 14420		Project Owner:		City:																						
Project Name: Paduca 7/6 A2ED Fed Corn 1H				State: Zip:																						
Project Location:				Phone #:																						
Sampler Name: Aaron Rios				Fax #:																						
FOR LAB USE ONLY																										
Lab I.D.	Sample I.D.	(GRAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.		SAMPLING															
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME												
H212018																										
1	WSW #9 @ 3'		1		X					X			7/29/21	8:00AM	X	X	X									
2	WSW #10 @ 4'		1		X					X			7/29/21	8:00AM	X	X	X									
3	WSW #11 @ 4'		1		X					X			7/29/21	8:00AM	X	X	X									
4	ESW #6 @ 3'		1		X					X			7/29/21	8:00AM	X	X	X									
5	ESW #7 @ 4'		1		X					X			7/29/21	8:00AM	X	X	X									
6	ESW #8 @ 4'		1		X					X			7/29/21	9:00AM	X	X	X									
7	FL #33 @ 3'		1		X					X			7/29/21	9:00AM	X	X	X									
8	FL #34 @ 3'		1		X					X			7/29/21	10:00AM	X	X	X									
9	FL #35 @ 7'		1		X					X			7/29/21	10:00AM	X	X	X									
X21																										
<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:		Received By:		Phone Result:		<input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:																
		Time:				Fax Result:		<input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:																
						REMARKS:																				
Relinquished By:		Date:		Received By:		Please email results to pm@etechenv.com.																				
Aaron Rios		7-29-21		Tamara Sladky																						
Delivered By: (Circle One)		Time:																								
Sample - UPS - Bus - Other:		5.4c #113																								

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

August 03, 2021

JOEL LOWRY

Etech Environmental & Safety Solutions

P.O. Box 301

Lovington, NM 88260

RE: PADUCA 7/6 A2ED FED COM 1H

Enclosed are the results of analyses for samples received by the laboratory on 07/30/21 16:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/30/2021	Sampling Date:	07/30/2021
Reported:	08/03/2021	Sampling Type:	Soil
Project Name:	PADUCA 7/6 A2ED FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	14420	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: WSW # 13 @ 9' (H212021-01)

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	08/02/2021	ND	2.02	101	2.00	4.23	
Toluene*	<0.050	0.050	08/02/2021	ND	2.12	106	2.00	7.94	
Ethylbenzene*	<0.050	0.050	08/02/2021	ND	2.03	102	2.00	8.14	
Total Xylenes*	<0.150	0.150	08/02/2021	ND	6.05	101	6.00	7.32	
Total BTEX	<0.300	0.300	08/02/2021	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	08/03/2021	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	08/02/2021	ND	197	98.7	200	0.771	
DRO >C10-C28*	<10.0	10.0	08/02/2021	ND	196	98.0	200	3.33	
EXT DRO >C28-C36	<10.0	10.0	08/02/2021	ND					

Surrogate: 1-Chlorooctane 84.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 93.8 % 38.9-142

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 07/30/2021
 Reported: 08/03/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 07/30/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: ESW # 10 @ 9' (H212021-02)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/02/2021	ND	2.02	101	2.00	4.23	
Toluene*	<0.050	0.050	08/02/2021	ND	2.12	106	2.00	7.94	
Ethylbenzene*	<0.050	0.050	08/02/2021	ND	2.03	102	2.00	8.14	
Total Xylenes*	<0.150	0.150	08/02/2021	ND	6.05	101	6.00	7.32	
Total BTX	<0.300	0.300	08/02/2021	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	272	16.0	08/03/2021	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	08/02/2021	ND	197	98.7	200	0.771	
DRO >C10-C28*	<10.0	10.0	08/02/2021	ND	196	98.0	200	3.33	
EXT DRO >C28-C36	<10.0	10.0	08/02/2021	ND					

Surrogate: 1-Chlorooctane 94.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 106 % 38.9-142

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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
 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

Received: 07/30/2021
 Reported: 08/03/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 07/30/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL # 37 @ 9' (H212021-03)

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	08/02/2021	ND	2.02	101	2.00	4.23	
Toluene*	<0.050	0.050	08/02/2021	ND	2.12	106	2.00	7.94	
Ethylbenzene*	<0.050	0.050	08/02/2021	ND	2.03	102	2.00	8.14	
Total Xylenes*	<0.150	0.150	08/02/2021	ND	6.05	101	6.00	7.32	
Total BTEX	<0.300	0.300	08/02/2021	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	352	16.0	08/03/2021	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	08/02/2021	ND	197	98.7	200	0.771	
DRO >C10-C28*	92.8	10.0	08/02/2021	ND	196	98.0	200	3.33	
EXT DRO >C28-C36	<10.0	10.0	08/02/2021	ND					

Surrogate: 1-Chlorooctane 87.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 100 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 07/30/2021
 Reported: 08/03/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 07/30/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL # 38 @ 9' (H212021-04)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/02/2021	ND	2.02	101	2.00	4.23	
Toluene*	<0.050	0.050	08/02/2021	ND	2.12	106	2.00	7.94	
Ethylbenzene*	<0.050	0.050	08/02/2021	ND	2.03	102	2.00	8.14	
Total Xylenes*	0.263	0.150	08/02/2021	ND	6.05	101	6.00	7.32	
Total BTEX	<0.300	0.300	08/02/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	08/03/2021	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*	28.1	10.0	08/02/2021	ND	197	98.7	200	0.771	
DRO >C10-C28*	556	10.0	08/02/2021	ND	196	98.0	200	3.33	
EXT DRO >C28-C36	56.8	10.0	08/02/2021	ND					

Surrogate: 1-Chlorooctane 90.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 99.6 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 07/30/2021
 Reported: 08/03/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 07/30/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL # 39 @ 10' (H212021-05)

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	08/02/2021	ND	2.02	101	2.00	4.23	
Toluene*	<0.050	0.050	08/02/2021	ND	2.12	106	2.00	7.94	
Ethylbenzene*	<0.050	0.050	08/02/2021	ND	2.03	102	2.00	8.14	
Total Xylenes*	<0.150	0.150	08/02/2021	ND	6.05	101	6.00	7.32	
Total BTEx	<0.300	0.300	08/02/2021	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	48.0	16.0	08/03/2021	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	08/02/2021	ND	197	98.7	200	0.771	
DRO >C10-C28*	<10.0	10.0	08/02/2021	ND	196	98.0	200	3.33	
EXT DRO >C28-C36	<10.0	10.0	08/02/2021	ND					

Surrogate: 1-Chlorooctane 87.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 100 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/30/2021	Sampling Date:	07/30/2021
Reported:	08/03/2021	Sampling Type:	Soil
Project Name:	PADUCA 7/6 A2ED FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	14420	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: WSW #14 @ 10' (H212021-06)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/02/2021	ND	2.02	101	2.00	4.23		
Toluene*	<0.050	0.050	08/02/2021	ND	2.12	106	2.00	7.94		
Ethylbenzene*	<0.050	0.050	08/02/2021	ND	2.03	102	2.00	8.14		
Total Xylenes*	<0.150	0.150	08/02/2021	ND	6.05	101	6.00	7.32		
Total BTEx	<0.300	0.300	08/02/2021	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	08/03/2021	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	08/02/2021	ND	197	98.7	200	0.771	
DRO >C10-C28*	<10.0	10.0	08/02/2021	ND	196	98.0	200	3.33	
EXT DRO >C28-C36	<10.0	10.0	08/02/2021	ND					

Surrogate: 1-Chlorooctane 90.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 99.8 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/30/2021	Sampling Date:	07/30/2021
Reported:	08/03/2021	Sampling Type:	Soil
Project Name:	PADUCA 7/6 A2ED FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	14420	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: ESW # 11 @ 10' (H212021-07)

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	08/02/2021	ND	2.02	101	2.00	4.23	
Toluene*	<0.050	0.050	08/02/2021	ND	2.12	106	2.00	7.94	
Ethylbenzene*	<0.050	0.050	08/02/2021	ND	2.03	102	2.00	8.14	
Total Xylenes*	<0.150	0.150	08/02/2021	ND	6.05	101	6.00	7.32	
Total BTEx	<0.300	0.300	08/02/2021	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	112	16.0	08/03/2021	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	08/02/2021	ND	197	98.7	200	0.771	
DRO >C10-C28*	<10.0	10.0	08/02/2021	ND	196	98.0	200	3.33	
EXT DRO >C28-C36	<10.0	10.0	08/02/2021	ND					

Surrogate: 1-Chlorooctane 87.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 95.3 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 07/30/2021
 Reported: 08/03/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 07/30/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL # 40 @ 10' (H212021-08)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/02/2021	ND	2.02	101	2.00	4.23	
Toluene*	<0.050	0.050	08/02/2021	ND	2.12	106	2.00	7.94	
Ethylbenzene*	<0.050	0.050	08/02/2021	ND	2.03	102	2.00	8.14	
Total Xylenes*	<0.150	0.150	08/02/2021	ND	6.05	101	6.00	7.32	
Total BTEx	<0.300	0.300	08/02/2021	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	192	16.0	08/03/2021	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	08/02/2021	ND	197	98.7	200	0.771	
DRO >C10-C28*	<10.0	10.0	08/02/2021	ND	196	98.0	200	3.33	
EXT DRO >C28-C36	<10.0	10.0	08/02/2021	ND					

Surrogate: 1-Chlorooctane 86.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 92.8 % 38.9-142

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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 cursive script, appearing to read "C. D. Keene", written in black ink.

Celey D. Keene, Lab Director/Quality Manager

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



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

August 06, 2021

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: PADUCA 7/6 A2ED FED COM 1H

Enclosed are the results of analyses for samples received by the laboratory on 08/03/21 16:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/03/2021
 Reported: 08/06/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 08/03/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL # 41 @ 8' (H212062-01)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/04/2021	ND	2.02	101	2.00	7.32	
Toluene*	<0.050	0.050	08/04/2021	ND	2.14	107	2.00	6.61	
Ethylbenzene*	<0.050	0.050	08/04/2021	ND	2.05	103	2.00	6.58	
Total Xylenes*	<0.150	0.150	08/04/2021	ND	6.15	103	6.00	6.42	
Total BTX	<0.300	0.300	08/04/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.9 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	08/04/2021	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	08/05/2021	ND	203	102	200	0.409	
DRO >C10-C28*	143	10.0	08/05/2021	ND	201	100	200	0.175	
EXT DRO >C28-C36	13.3	10.0	08/05/2021	ND					

Surrogate: 1-Chlorooctane 70.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 67.9 % 38.9-142

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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: 08/03/2021
 Reported: 08/06/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 08/03/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL # 42 @ 14' (H212062-02)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/04/2021	ND	2.02	101	2.00	7.32	
Toluene*	<0.050	0.050	08/04/2021	ND	2.14	107	2.00	6.61	
Ethylbenzene*	<0.050	0.050	08/04/2021	ND	2.05	103	2.00	6.58	
Total Xylenes*	<0.150	0.150	08/04/2021	ND	6.15	103	6.00	6.42	
Total BTEx	<0.300	0.300	08/04/2021	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	208	16.0	08/04/2021	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	08/05/2021	ND	203	102	200	0.409	
DRO >C10-C28*	<10.0	10.0	08/05/2021	ND	201	100	200	0.175	
EXT DRO >C28-C36	<10.0	10.0	08/05/2021	ND					

Surrogate: 1-Chlorooctane 70.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 63.3 % 38.9-142

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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: 08/03/2021
 Reported: 08/06/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 08/03/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL # 43 @ 14' (H212062-03)

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	08/04/2021	ND	2.02	101	2.00	7.32	
Toluene*	<0.050	0.050	08/04/2021	ND	2.14	107	2.00	6.61	
Ethylbenzene*	<0.050	0.050	08/04/2021	ND	2.05	103	2.00	6.58	
Total Xylenes*	<0.150	0.150	08/04/2021	ND	6.15	103	6.00	6.42	
Total BTEx	<0.300	0.300	08/04/2021	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	32.0	16.0	08/04/2021	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	08/05/2021	ND	203	102	200	0.409	
DRO >C10-C28*	<10.0	10.0	08/05/2021	ND	201	100	200	0.175	
EXT DRO >C28-C36	<10.0	10.0	08/05/2021	ND					

Surrogate: 1-Chlorooctane 67.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 61.3 % 38.9-142

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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: 08/03/2021
 Reported: 08/06/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 08/03/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL # 44 @ 8' (H212062-04)

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	08/04/2021	ND	2.02	101	2.00	7.32		
Toluene*	<0.050	0.050	08/04/2021	ND	2.14	107	2.00	6.61		
Ethylbenzene*	<0.050	0.050	08/04/2021	ND	2.05	103	2.00	6.58		
Total Xylenes*	<0.150	0.150	08/04/2021	ND	6.15	103	6.00	6.42		
Total BTX	<0.300	0.300	08/04/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	08/04/2021	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	08/05/2021	ND	203	102	200	0.409	
DRO >C10-C28*	14.8	10.0	08/05/2021	ND	201	100	200	0.175	
EXT DRO >C28-C36	<10.0	10.0	08/05/2021	ND					

Surrogate: 1-Chlorooctane 69.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 63.2 % 38.9-142

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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: 08/03/2021
 Reported: 08/06/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 08/03/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL # 45 @ 10' (H212062-05)

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	08/04/2021	ND	2.02	101	2.00	7.32	
Toluene*	<0.050	0.050	08/04/2021	ND	2.14	107	2.00	6.61	
Ethylbenzene*	<0.050	0.050	08/04/2021	ND	2.05	103	2.00	6.58	
Total Xylenes*	<0.150	0.150	08/04/2021	ND	6.15	103	6.00	6.42	
Total BTEx	<0.300	0.300	08/04/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	08/04/2021	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	08/05/2021	ND	203	102	200	0.409	
DRO >C10-C28*	<10.0	10.0	08/05/2021	ND	201	100	200	0.175	
EXT DRO >C28-C36	<10.0	10.0	08/05/2021	ND					

Surrogate: 1-Chlorooctane 65.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 59.0 % 38.9-142

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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: 08/03/2021
 Reported: 08/06/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 08/03/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL # 46 @ 10' (H212062-06)

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	08/05/2021	ND	1.93	96.6	2.00	7.75	
Toluene*	<0.050	0.050	08/05/2021	ND	2.09	104	2.00	7.98	
Ethylbenzene*	<0.050	0.050	08/05/2021	ND	2.00	100	2.00	7.26	
Total Xylenes*	<0.150	0.150	08/05/2021	ND	5.92	98.7	6.00	7.67	
Total BTX	<0.300	0.300	08/05/2021	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	96.0	16.0	08/04/2021	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	08/05/2021	ND	203	102	200	0.409	
DRO >C10-C28*	<10.0	10.0	08/05/2021	ND	201	100	200	0.175	
EXT DRO >C28-C36	<10.0	10.0	08/05/2021	ND					

Surrogate: 1-Chlorooctane 63.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 56.8 % 38.9-142

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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: 08/03/2021
 Reported: 08/06/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 08/03/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL # 47 @ 8' (H212062-07)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/05/2021	ND	1.93	96.6	2.00	7.75	
Toluene*	<0.050	0.050	08/05/2021	ND	2.09	104	2.00	7.98	
Ethylbenzene*	<0.050	0.050	08/05/2021	ND	2.00	100	2.00	7.26	
Total Xylenes*	<0.150	0.150	08/05/2021	ND	5.92	98.7	6.00	7.67	
Total BTX	<0.300	0.300	08/05/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 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	144	16.0	08/05/2021	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	08/05/2021	ND	203	102	200	0.409	
DRO >C10-C28*	<10.0	10.0	08/05/2021	ND	201	100	200	0.175	
EXT DRO >C28-C36	<10.0	10.0	08/05/2021	ND					

Surrogate: 1-Chlorooctane 62.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 56.5 % 38.9-142

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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: 08/03/2021
 Reported: 08/06/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 08/03/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL # 49 @ 8' (H212062-08)

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	08/05/2021	ND	1.93	96.6	2.00	7.75	
Toluene*	<0.050	0.050	08/05/2021	ND	2.09	104	2.00	7.98	
Ethylbenzene*	<0.050	0.050	08/05/2021	ND	2.00	100	2.00	7.26	
Total Xylenes*	<0.150	0.150	08/05/2021	ND	5.92	98.7	6.00	7.67	
Total BTX	<0.300	0.300	08/05/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	08/05/2021	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	08/05/2021	ND	203	102	200	0.409	
DRO >C10-C28*	<10.0	10.0	08/05/2021	ND	201	100	200	0.175	
EXT DRO >C28-C36	<10.0	10.0	08/05/2021	ND					

Surrogate: 1-Chlorooctane 61.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 56.3 % 38.9-142

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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: 08/03/2021
 Reported: 08/06/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 08/03/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NSW # 1 @ 10' (H212062-09)

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	08/05/2021	ND	1.93	96.6	2.00	7.75	
Toluene*	<0.050	0.050	08/05/2021	ND	2.09	104	2.00	7.98	
Ethylbenzene*	<0.050	0.050	08/05/2021	ND	2.00	100	2.00	7.26	
Total Xylenes*	<0.150	0.150	08/05/2021	ND	5.92	98.7	6.00	7.67	
Total BTX	<0.300	0.300	08/05/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 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	08/05/2021	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	08/05/2021	ND	203	102	200	0.409	
DRO >C10-C28*	<10.0	10.0	08/05/2021	ND	201	100	200	0.175	
EXT DRO >C28-C36	<10.0	10.0	08/05/2021	ND					

Surrogate: 1-Chlorooctane 63.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 57.0 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 12 of 12

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																																							
Project Manager: Joel Curry				P.O. #:				Chloride TPH (8015M) BTEX (8021B)																																							
Address: P.O. Box 301				Company: Newbourne																																											
City: Lovington State: NM Zip: 88260				Attn:																																											
Phone #: (575) 396-2378 Fax #: (575) 396-1429				Address:																																											
Project #: 14420 Project Owner:				City:																																											
Project Name: Paduca 7-6 A2ED Fed Com 1H				State: Zip:																																											
Project Location:				Phone #:																																											
Sampler Name: Aaron Rios				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																			
H212062																																															
1		FL#4 @ 8'		1				X												X						8-3-21		8:00 AM		X		X		X													
2		FL#42 @ 14'		1				X												X						8-3-21		8:00 AM		X		X		X													
3		FL#43 @ 14'		1				X												X						8-3-21		8:00 AM		X		X		X													
4		FL#44 @ 8'		1				X												X						8-3-21		10:00 AM		X		X		X													
5		FL#45 @ 10'		1				X												X						8-3-21		10:00 AM		X		X		X													
6		FL#46 @ 10'		1				X												X						8-3-21		1:00 PM		X		X		X													
7		FL#47 @ 8'		1				X												X						8-3-21		2:00 PM		X		X		X													
8		FL#49 @ 8'		1				X												X						8-3-21		2:00 PM		X		X		X													
9		NSW#1 @ 10'		1				X												X						8-3-21		2:00 PM		X		X		X													
<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: 8										Received By:										Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:																	
										Time: 8:00 AM																				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:																	
																														REMARKS:																	
Relinquished By:										Date: 8-3-21										Received By:										Please email results to pm@etechenv.com.																	
Aaron Rios										Time: 1615										Tamara Oldaker																											
Delivered By: (Circle One)																																															
Sampler UPS - Bus - Other:										5.4c #113										Sample Condition										CHECKED BY:																	
																				Cool Intact										(Initials)																	
																				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No										T.O.																	

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

August 10, 2021

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: PADUCA 7/6 A2ED FED COM 1H

Enclosed are the results of analyses for samples received by the laboratory on 08/04/21 16:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/04/2021
 Reported: 08/10/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 08/04/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SSW #6 (H212071-01)

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	08/07/2021	ND	1.91	95.5	2.00	7.73	
Toluene*	<0.050	0.050	08/07/2021	ND	2.07	104	2.00	7.25	
Ethylbenzene*	<0.050	0.050	08/07/2021	ND	2.00	99.8	2.00	7.34	
Total Xylenes*	<0.150	0.150	08/07/2021	ND	5.98	99.7	6.00	6.06	
Total BTEx	<0.300	0.300	08/07/2021	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	32.0	16.0	08/08/2021	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	08/07/2021	ND	210	105	200	0.841	
DRO >C10-C28*	<10.0	10.0	08/07/2021	ND	222	111	200	0.271	
EXT DRO >C28-C36	<10.0	10.0	08/07/2021	ND					

Surrogate: 1-Chlorooctane 77.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 70.1 % 38.9-142

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: 08/04/2021
 Reported: 08/10/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 08/04/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NSW #2 (H212071-02)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/07/2021	ND	1.91	95.5	2.00	7.73		
Toluene*	<0.050	0.050	08/07/2021	ND	2.07	104	2.00	7.25		
Ethylbenzene*	<0.050	0.050	08/07/2021	ND	2.00	99.8	2.00	7.34		
Total Xylenes*	<0.150	0.150	08/07/2021	ND	5.98	99.7	6.00	6.06		
Total BTX	<0.300	0.300	08/07/2021	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	48.0	16.0	08/08/2021	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	08/07/2021	ND	210	105	200	0.841	
DRO >C10-C28*	<10.0	10.0	08/07/2021	ND	222	111	200	0.271	
EXT DRO >C28-C36	<10.0	10.0	08/07/2021	ND					

Surrogate: 1-Chlorooctane 81.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 74.5 % 38.9-142

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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: 08/04/2021
 Reported: 08/10/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 08/04/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL # 1 @ 5' (H212071-03)

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	08/07/2021	ND	1.91	95.5	2.00	7.73		
Toluene*	<0.050	0.050	08/07/2021	ND	2.07	104	2.00	7.25		
Ethylbenzene*	<0.050	0.050	08/07/2021	ND	2.00	99.8	2.00	7.34		
Total Xylenes*	<0.150	0.150	08/07/2021	ND	5.98	99.7	6.00	6.06		
Total BTEx	<0.300	0.300	08/07/2021	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	80.0	16.0	08/08/2021	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	08/07/2021	ND	210	105	200	0.841	
DRO >C10-C28*	<10.0	10.0	08/07/2021	ND	222	111	200	0.271	
EXT DRO >C28-C36	<10.0	10.0	08/07/2021	ND					

Surrogate: 1-Chlorooctane 70.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 64.5 % 38.9-142

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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: 08/04/2021
 Reported: 08/10/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 08/04/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL # 2 @ 5' (H212071-04)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/07/2021	ND	1.91	95.5	2.00	7.73		
Toluene*	<0.050	0.050	08/07/2021	ND	2.07	104	2.00	7.25		
Ethylbenzene*	<0.050	0.050	08/07/2021	ND	2.00	99.8	2.00	7.34		
Total Xylenes*	<0.150	0.150	08/07/2021	ND	5.98	99.7	6.00	6.06		
Total BTEx	<0.300	0.300	08/07/2021	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	128	16.0	08/08/2021	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	08/07/2021	ND	210	105	200	0.841	
DRO >C10-C28*	<10.0	10.0	08/07/2021	ND	222	111	200	0.271	
EXT DRO >C28-C36	<10.0	10.0	08/07/2021	ND					

Surrogate: 1-Chlorooctane 73.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 67.8 % 38.9-142

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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: 08/04/2021
 Reported: 08/10/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 08/04/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL # 4 @ 6' (H212071-05)

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	08/07/2021	ND	1.91	95.5	2.00	7.73		
Toluene*	<0.050	0.050	08/07/2021	ND	2.07	104	2.00	7.25		
Ethylbenzene*	<0.050	0.050	08/07/2021	ND	2.00	99.8	2.00	7.34		
Total Xylenes*	<0.150	0.150	08/07/2021	ND	5.98	99.7	6.00	6.06		
Total BTEx	<0.300	0.300	08/07/2021	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	272	16.0	08/08/2021	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	08/07/2021	ND	210	105	200	0.841	
DRO >C10-C28*	<10.0	10.0	08/07/2021	ND	222	111	200	0.271	
EXT DRO >C28-C36	<10.0	10.0	08/07/2021	ND					

Surrogate: 1-Chlorooctane 68.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 63.0 % 38.9-142

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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: 08/04/2021
 Reported: 08/10/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 08/04/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL # 48 @ 10' (H212071-06)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/07/2021	ND	1.91	95.5	2.00	7.73	
Toluene*	<0.050	0.050	08/07/2021	ND	2.07	104	2.00	7.25	
Ethylbenzene*	<0.050	0.050	08/07/2021	ND	2.00	99.8	2.00	7.34	
Total Xylenes*	<0.150	0.150	08/07/2021	ND	5.98	99.7	6.00	6.06	
Total BTEx	<0.300	0.300	08/07/2021	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	48.0	16.0	08/08/2021	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	08/07/2021	ND	210	105	200	0.841	
DRO >C10-C28*	<10.0	10.0	08/07/2021	ND	222	111	200	0.271	
EXT DRO >C28-C36	<10.0	10.0	08/07/2021	ND					

Surrogate: 1-Chlorooctane 74.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 69.0 % 38.9-142

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: 08/04/2021
 Reported: 08/10/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 08/04/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL # 50 @ 10' (H212071-07)

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	08/07/2021	ND	1.91	95.5	2.00	7.73	
Toluene*	<0.050	0.050	08/07/2021	ND	2.07	104	2.00	7.25	
Ethylbenzene*	<0.050	0.050	08/07/2021	ND	2.00	99.8	2.00	7.34	
Total Xylenes*	<0.150	0.150	08/07/2021	ND	5.98	99.7	6.00	6.06	
Total BTEx	<0.300	0.300	08/07/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 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	80.0	16.0	08/08/2021	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	08/07/2021	ND	210	105	200	0.841	
DRO >C10-C28*	<10.0	10.0	08/07/2021	ND	222	111	200	0.271	
EXT DRO >C28-C36	<10.0	10.0	08/07/2021	ND					

Surrogate: 1-Chlorooctane 72.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 65.2 % 38.9-142

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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: 08/04/2021
 Reported: 08/10/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 08/04/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL # 51 @ 8' (H212071-08)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/07/2021	ND	1.91	95.5	2.00	7.73		
Toluene*	<0.050	0.050	08/07/2021	ND	2.07	104	2.00	7.25		
Ethylbenzene*	<0.050	0.050	08/07/2021	ND	2.00	99.8	2.00	7.34		
Total Xylenes*	<0.150	0.150	08/07/2021	ND	5.98	99.7	6.00	6.06		
Total BTEX	<0.300	0.300	08/07/2021	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	240	16.0	08/08/2021	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	08/09/2021	ND	206	103	200	0.00438	
DRO >C10-C28*	<10.0	10.0	08/09/2021	ND	215	107	200	0.0252	
EXT DRO >C28-C36	<10.0	10.0	08/09/2021	ND					

Surrogate: 1-Chlorooctane 82.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 76.1 % 38.9-142

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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: 08/04/2021
 Reported: 08/10/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 08/04/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL # 52 @ 8' (H212071-09)

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	08/07/2021	ND	1.91	95.5	2.00	7.73		
Toluene*	<0.050	0.050	08/07/2021	ND	2.07	104	2.00	7.25		
Ethylbenzene*	<0.050	0.050	08/07/2021	ND	2.00	99.8	2.00	7.34		
Total Xylenes*	<0.150	0.150	08/07/2021	ND	5.98	99.7	6.00	6.06		
Total BTEx	<0.300	0.300	08/07/2021	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	08/08/2021	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	08/09/2021	ND	206	103	200	0.00438	
DRO >C10-C28*	<10.0	10.0	08/09/2021	ND	215	107	200	0.0252	
EXT DRO >C28-C36	<10.0	10.0	08/09/2021	ND					

Surrogate: 1-Chlorooctane 78.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 73.3 % 38.9-142

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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: 08/04/2021
 Reported: 08/10/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 08/04/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL # 53 @ 8' (H212071-10)

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	08/07/2021	ND	1.91	95.5	2.00	7.73		
Toluene*	<0.050	0.050	08/07/2021	ND	2.07	104	2.00	7.25		
Ethylbenzene*	<0.050	0.050	08/07/2021	ND	2.00	99.8	2.00	7.34		
Total Xylenes*	<0.150	0.150	08/07/2021	ND	5.98	99.7	6.00	6.06		
Total BTEx	<0.300	0.300	08/07/2021	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	128	16.0	08/08/2021	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	08/09/2021	ND	206	103	200	0.00438	
DRO >C10-C28*	<10.0	10.0	08/09/2021	ND	215	107	200	0.0252	
EXT DRO >C28-C36	<10.0	10.0	08/09/2021	ND					

Surrogate: 1-Chlorooctane 76.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 70.4 % 38.9-142

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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: 08/04/2021
 Reported: 08/10/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 08/04/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL # 55 @ 8' (H212071-11)

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	08/07/2021	ND	1.91	95.5	2.00	7.73		
Toluene*	<0.050	0.050	08/07/2021	ND	2.07	104	2.00	7.25		
Ethylbenzene*	<0.050	0.050	08/07/2021	ND	2.00	99.8	2.00	7.34		
Total Xylenes*	<0.150	0.150	08/07/2021	ND	5.98	99.7	6.00	6.06		
Total BTEx	<0.300	0.300	08/07/2021	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	128	16.0	08/08/2021	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	08/09/2021	ND	206	103	200	0.00438	
DRO >C10-C28*	<10.0	10.0	08/09/2021	ND	215	107	200	0.0252	
EXT DRO >C28-C36	<10.0	10.0	08/09/2021	ND					

Surrogate: 1-Chlorooctane 73.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 67.6 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 14 of 15

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																							
Project Manager: Joel Lowry				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																							
Address: P.O. Box 301				Company: Mewbourne																											
City: Lovington State: NM Zip: 88260				Attn:																											
Phone #: (575) 396-2378 Fax #: (575) 396-1429				Address:																											
Project #: 14420 Project Owner:				City:																											
Project Name: Paduca 7-6 A2ED Fed Com LH				State: Zip:																											
Project Location:				Phone #:																											
Sampler Name: Aaron Rios				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			
H212071																															
1		SSW#6				1						X								X		X		X							
2		NSW#8				1						X								X		X		X							
3		FL#1 @ 5'				1						X								X		X		X							
4		FL#2 @ 5'				1						X								X		X		X							
5		FL#4 @ 6'				1						X								X		X		X							
6		FL#48 @ 10'				1						X								X		X		X							
7		FL#50 @ 10'				1						X								X		X		X							
8		FL#51 @ 8'				1						X								X		X		X							
9		FL#52 @ 8'				1						X								X		X		X							
10		FL#53 @ 8'				1						X								X		X		X							

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Relinquished By:	Date:	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time:		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
REMARKS:				
Please email results to pm@etechenv.com.				

Relinquished By:	Date:	Received By:
Aaron Rios	8-4-21	Tamara [Signature]
Delivered By: (Circle One)	Time:	Sample Condition
Sampler - UPS - Bus - Other:	5:45	Cool Intact
	#113	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
		<input type="checkbox"/> Yes <input type="checkbox"/> No
		CHECKED BY: (Initials)
		TO

**ARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 15 of 15

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																																	
Project Manager: Joel Lowry				P.O. #:				Chloride TPH (8015M) BTEX (8021B)																																	
Address: P.O. Box 301				Company: Newbourne																																					
City: Lovington State: NM Zip: 88260				Attn:																																					
Phone #: (575) 396-2378 Fax #: (575) 396-1429				Address:																																					
Project #: 14420 Project Owner:				City:																																					
Project Name: Paduca 7-6 A2ED Fed Corn 1H				State: Zip:																																					
Project Location:				Phone #:																																					
Sampler Name: Aaron Rios				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													
H212071		11 FL #55 @ 8'		1								X										X				8-4-21		2:00PM		X X X											

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

August 11, 2021

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: PADUCA 7/6 A2ED FED COM 1H

Enclosed are the results of analyses for samples received by the laboratory on 08/05/21 16:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/05/2021
 Reported: 08/11/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 08/05/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL # 54 @ 10' (H212096-01)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/09/2021	ND	1.77	88.6	2.00	5.25		
Toluene*	<0.050	0.050	08/09/2021	ND	1.93	96.4	2.00	5.12		
Ethylbenzene*	<0.050	0.050	08/09/2021	ND	1.85	92.6	2.00	6.02		
Total Xylenes*	<0.150	0.150	08/09/2021	ND	5.58	92.9	6.00	5.78		
Total BTX	<0.300	0.300	08/09/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 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	96.0	16.0	08/10/2021	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	08/10/2021	ND	193	96.4	200	0.984	
DRO >C10-C28*	<10.0	10.0	08/10/2021	ND	209	104	200	0.104	
EXT DRO >C28-C36	<10.0	10.0	08/10/2021	ND					

Surrogate: 1-Chlorooctane 100 % 44.3-133

Surrogate: 1-Chlorooctadecane 110 % 38.9-142

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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: 08/05/2021
 Reported: 08/11/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 08/05/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL # 56 @ 8' (H212096-02)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/09/2021	ND	1.77	88.6	2.00	5.25		
Toluene*	<0.050	0.050	08/09/2021	ND	1.93	96.4	2.00	5.12		
Ethylbenzene*	<0.050	0.050	08/09/2021	ND	1.85	92.6	2.00	6.02		
Total Xylenes*	<0.150	0.150	08/09/2021	ND	5.58	92.9	6.00	5.78		
Total BTEx	<0.300	0.300	08/09/2021	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	160	16.0	08/10/2021	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	08/10/2021	ND	193	96.4	200	0.984	
DRO >C10-C28*	<10.0	10.0	08/10/2021	ND	209	104	200	0.104	
EXT DRO >C28-C36	<10.0	10.0	08/10/2021	ND					

Surrogate: 1-Chlorooctane 91.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 102 % 38.9-142

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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: 08/05/2021
 Reported: 08/11/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 08/05/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL # 57 @ 8' (H212096-03)

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	08/09/2021	ND	1.77	88.6	2.00	5.25	
Toluene*	<0.050	0.050	08/09/2021	ND	1.93	96.4	2.00	5.12	
Ethylbenzene*	<0.050	0.050	08/09/2021	ND	1.85	92.6	2.00	6.02	
Total Xylenes*	<0.150	0.150	08/09/2021	ND	5.58	92.9	6.00	5.78	
Total BTEX	<0.300	0.300	08/09/2021	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	240	16.0	08/10/2021	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	08/10/2021	ND	193	96.4	200	0.984	
DRO >C10-C28*	<10.0	10.0	08/10/2021	ND	209	104	200	0.104	
EXT DRO >C28-C36	<10.0	10.0	08/10/2021	ND					

Surrogate: 1-Chlorooctane 97.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 107 % 38.9-142

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Analytical Results For:

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

Received: 08/05/2021
 Reported: 08/11/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 08/05/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL # 58 @ 10' (H212096-04)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/09/2021	ND	1.77	88.6	2.00	5.25		
Toluene*	<0.050	0.050	08/09/2021	ND	1.93	96.4	2.00	5.12		
Ethylbenzene*	<0.050	0.050	08/09/2021	ND	1.85	92.6	2.00	6.02		
Total Xylenes*	<0.150	0.150	08/09/2021	ND	5.58	92.9	6.00	5.78		
Total BTEx	<0.300	0.300	08/09/2021	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	176	16.0	08/10/2021	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	08/10/2021	ND	193	96.4	200	0.984	
DRO >C10-C28*	<10.0	10.0	08/10/2021	ND	209	104	200	0.104	
EXT DRO >C28-C36	<10.0	10.0	08/10/2021	ND					

Surrogate: 1-Chlorooctane 94.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 106 % 38.9-142

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Analytical Results For:

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

Received: 08/05/2021
 Reported: 08/11/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 08/05/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL # 59 @ 7' (H212096-05)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/09/2021	ND	1.77	88.6	2.00	5.25	
Toluene*	<0.050	0.050	08/09/2021	ND	1.93	96.4	2.00	5.12	
Ethylbenzene*	<0.050	0.050	08/09/2021	ND	1.85	92.6	2.00	6.02	
Total Xylenes*	<0.150	0.150	08/09/2021	ND	5.58	92.9	6.00	5.78	
Total BTX	<0.300	0.300	08/09/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 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	08/10/2021	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	08/10/2021	ND	193	96.4	200	0.984	
DRO >C10-C28*	<10.0	10.0	08/10/2021	ND	209	104	200	0.104	
EXT DRO >C28-C36	<10.0	10.0	08/10/2021	ND					

Surrogate: 1-Chlorooctane 90.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 101 % 38.9-142

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Analytical Results For:

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

Received: 08/05/2021
 Reported: 08/11/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 08/05/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL # 60 @ 7' (H212096-06)

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	08/09/2021	ND	1.77	88.6	2.00	5.25	
Toluene*	<0.050	0.050	08/09/2021	ND	1.93	96.4	2.00	5.12	
Ethylbenzene*	<0.050	0.050	08/09/2021	ND	1.85	92.6	2.00	6.02	
Total Xylenes*	<0.150	0.150	08/09/2021	ND	5.58	92.9	6.00	5.78	
Total BTX	<0.300	0.300	08/09/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 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	08/10/2021	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	08/10/2021	ND	193	96.4	200	0.984	
DRO >C10-C28*	<10.0	10.0	08/10/2021	ND	209	104	200	0.104	
EXT DRO >C28-C36	<10.0	10.0	08/10/2021	ND					

Surrogate: 1-Chlorooctane 93.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 103 % 38.9-142

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Analytical Results For:

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

Received: 08/05/2021
 Reported: 08/11/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 08/05/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL # 61 @ 7' (H212096-07)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/09/2021	ND	1.77	88.6	2.00	5.25	
Toluene*	<0.050	0.050	08/09/2021	ND	1.93	96.4	2.00	5.12	
Ethylbenzene*	<0.050	0.050	08/09/2021	ND	1.85	92.6	2.00	6.02	
Total Xylenes*	<0.150	0.150	08/09/2021	ND	5.58	92.9	6.00	5.78	
Total BTX	<0.300	0.300	08/09/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 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	08/10/2021	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	08/10/2021	ND	193	96.4	200	0.984	
DRO >C10-C28*	<10.0	10.0	08/10/2021	ND	209	104	200	0.104	
EXT DRO >C28-C36	<10.0	10.0	08/10/2021	ND					

Surrogate: 1-Chlorooctane 87.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 96.8 % 38.9-142

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Analytical Results For:

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

Received: 08/05/2021
 Reported: 08/11/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 08/05/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL # 62 @ 7' (H212096-08)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/09/2021	ND	1.77	88.6	2.00	5.25		
Toluene*	<0.050	0.050	08/09/2021	ND	1.93	96.4	2.00	5.12		
Ethylbenzene*	<0.050	0.050	08/09/2021	ND	1.85	92.6	2.00	6.02		
Total Xylenes*	<0.150	0.150	08/09/2021	ND	5.58	92.9	6.00	5.78		
Total BTEx	<0.300	0.300	08/09/2021	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	320	16.0	08/10/2021	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	08/10/2021	ND	193	96.4	200	0.984	
DRO >C10-C28*	<10.0	10.0	08/10/2021	ND	209	104	200	0.104	
EXT DRO >C28-C36	<10.0	10.0	08/10/2021	ND					

Surrogate: 1-Chlorooctane 98.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 109 % 38.9-142

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Analytical Results For:

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

Received: 08/05/2021
 Reported: 08/11/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 08/05/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CEW # 1 .B. (H212096-09)

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	08/09/2021	ND	1.77	88.6	2.00	5.25	
Toluene*	<0.050	0.050	08/09/2021	ND	1.93	96.4	2.00	5.12	
Ethylbenzene*	<0.050	0.050	08/09/2021	ND	1.85	92.6	2.00	6.02	
Total Xylenes*	<0.150	0.150	08/09/2021	ND	5.58	92.9	6.00	5.78	
Total BTX	<0.300	0.300	08/09/2021	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	80.0	16.0	08/10/2021	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	08/10/2021	ND	193	96.4	200	0.984	
DRO >C10-C28*	<10.0	10.0	08/10/2021	ND	209	104	200	0.104	
EXT DRO >C28-C36	<10.0	10.0	08/10/2021	ND					

Surrogate: 1-Chlorooctane 88.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 98.8 % 38.9-142

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Analytical Results For:

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

Received: 08/05/2021
 Reported: 08/11/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 08/05/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: EW # 2 .B. (H212096-10)

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	08/09/2021	ND	1.77	88.6	2.00	5.25		
Toluene*	<0.050	0.050	08/09/2021	ND	1.93	96.4	2.00	5.12		
Ethylbenzene*	<0.050	0.050	08/09/2021	ND	1.85	92.6	2.00	6.02		
Total Xylenes*	<0.150	0.150	08/09/2021	ND	5.58	92.9	6.00	5.78		
Total BTEx	<0.300	0.300	08/09/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 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	08/10/2021	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	08/10/2021	ND	193	96.4	200	0.984	
DRO >C10-C28*	<10.0	10.0	08/10/2021	ND	209	104	200	0.104	
EXT DRO >C28-C36	<10.0	10.0	08/10/2021	ND					

Surrogate: 1-Chlorooctane 94.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 105 % 38.9-142

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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: 08/05/2021
 Reported: 08/11/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 08/05/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL # 38 @ 10' (H212096-11)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/09/2021	ND	1.77	88.6	2.00	5.25	
Toluene*	<0.050	0.050	08/09/2021	ND	1.93	96.4	2.00	5.12	
Ethylbenzene*	<0.050	0.050	08/09/2021	ND	1.85	92.6	2.00	6.02	
Total Xylenes*	<0.150	0.150	08/09/2021	ND	5.58	92.9	6.00	5.78	
Total BTX	<0.300	0.300	08/09/2021	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	08/10/2021	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	08/10/2021	ND	218	109	200	5.27	
DRO >C10-C28*	<10.0	10.0	08/10/2021	ND	203	101	200	4.33	
EXT DRO >C28-C36	<10.0	10.0	08/10/2021	ND					

Surrogate: 1-Chlorooctane 85.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 81.6 % 38.9-142

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager

**ARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																	
Project Manager: Joel Lowry				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																	
Address: P.O. Box 301				Company: NewBourne																					
City: Lovington State: NM Zip: 88260				Attn:																					
Phone #: (575) 396-2378 Fax #: (575) 396-1429				Address:																					
Project #: 14420 Project Owner:				City:																					
Project Name: Paduca A2ED Fed. Com 1H				State: Zip:																					
Project Location:				Phone #:																					
Sampler Name: Aaron Rios				Fax #:																					
FOR LAB USE ONLY																									
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX		PRESERV.		SAMPLING													
								GROUNDWATER																	
								WASTEWATER																	
								SOIL																	
								OIL																	
								SLUDGE																	
								OTHER:																	
								ACID/BASE:																	
								ICE / COOL																	
								OTHER:																	
												DATE TIME													
H212096																									
1 FL #54 @ 10'				1				X		X		8-5-21 5:40 AM		X X X											
2 FL #56 @ 8'				1				X		X		8-6-21 8:40 AM		X X X											
3 FL #57 @ 8'				1				X		X		8-5-21 9:00 AM		X X X											
4 FL #58 @ 10'				1				X		X		8-5-21 10:00 AM		X X X											
5 FL #59 @ 7'				1				X		X		8-5-21 1:00 PM		X X X											
6 FL #60 @ 7'				1				X		X		8-5-21 1:00 PM		X X X											
7 FL #61 @ 7'				1				X		X		8-5-21 1:00 PM		X X X											
8 FL #62 @ 7'				1				X		X		8-5-21 2:00 PM		X X X											
9 CEW #1.B.				1				X		X		8-5-21 2:00 PM		X X X											
10 CEW #2.B.				1				X		X		8-5-21 2:30 PM		X X X											
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Relinquished By:				Date:		Received By:				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Phone #:											
				Time:						Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Fax #:											
										REMARKS:															
Relinquished By:				Date:		Received By:				Please email results to pm@etechenv.com.															
Aaron Rios				8-5-21		[Signature]																			
				Time: 1030																					
Delivered By: (Circle One)						Sample Condition				CHECKED BY:															
(Sample) - UPS - Bus - Other:						Cool Intact				(Initials)															
3.8c #113						<input type="checkbox"/> Yes <input type="checkbox"/> No				[Signature]															

**• ARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

August 11, 2021

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: PADUCA 7/6 A2ED FED COM 1H

Enclosed are the results of analyses for samples received by the laboratory on 08/06/21 16:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

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: 08/06/2021
 Reported: 08/11/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 08/06/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL # 63 @ 10' (H212106-01)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/10/2021	ND	1.81	90.5	2.00	7.16		
Toluene*	<0.050	0.050	08/10/2021	ND	1.98	99.0	2.00	7.01		
Ethylbenzene*	<0.050	0.050	08/10/2021	ND	1.91	95.3	2.00	7.19		
Total Xylenes*	<0.150	0.150	08/10/2021	ND	5.72	95.3	6.00	6.67		
Total BTX	<0.300	0.300	08/10/2021	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	144	16.0	08/10/2021	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	08/10/2021	ND	218	109	200	5.27	
DRO >C10-C28*	<10.0	10.0	08/10/2021	ND	203	101	200	4.33	
EXT DRO >C28-C36	<10.0	10.0	08/10/2021	ND					

Surrogate: 1-Chlorooctane 77.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 75.1 % 38.9-142

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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: 08/06/2021
 Reported: 08/11/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 08/06/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL # 64 @ 7' (H212106-02)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/10/2021	ND	1.81	90.5	2.00	7.16		
Toluene*	<0.050	0.050	08/10/2021	ND	1.98	99.0	2.00	7.01		
Ethylbenzene*	<0.050	0.050	08/10/2021	ND	1.91	95.3	2.00	7.19		
Total Xylenes*	<0.150	0.150	08/10/2021	ND	5.72	95.3	6.00	6.67		
Total BTX	<0.300	0.300	08/10/2021	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	256	16.0	08/10/2021	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	08/10/2021	ND	218	109	200	5.27	
DRO >C10-C28*	<10.0	10.0	08/10/2021	ND	203	101	200	4.33	
EXT DRO >C28-C36	<10.0	10.0	08/10/2021	ND					

Surrogate: 1-Chlorooctane 80.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 75.7 % 38.9-142

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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: 08/06/2021
 Reported: 08/11/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 08/06/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL # 65 @ 7' (H212106-03)

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	08/10/2021	ND	1.81	90.5	2.00	7.16		
Toluene*	<0.050	0.050	08/10/2021	ND	1.98	99.0	2.00	7.01		
Ethylbenzene*	<0.050	0.050	08/10/2021	ND	1.91	95.3	2.00	7.19		
Total Xylenes*	<0.150	0.150	08/10/2021	ND	5.72	95.3	6.00	6.67		
Total BTEx	<0.300	0.300	08/10/2021	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	240	16.0	08/10/2021	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	08/09/2021	ND	206	103	200	0.00438	
DRO >C10-C28*	<10.0	10.0	08/09/2021	ND	215	107	200	0.0252	
EXT DRO >C28-C36	<10.0	10.0	08/09/2021	ND					

Surrogate: 1-Chlorooctane 44.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 40.3 % 38.9-142

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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: 08/06/2021
 Reported: 08/11/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 08/06/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL # 66 @ 8' (H212106-04)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/10/2021	ND	1.81	90.5	2.00	7.16		
Toluene*	<0.050	0.050	08/10/2021	ND	1.98	99.0	2.00	7.01		
Ethylbenzene*	<0.050	0.050	08/10/2021	ND	1.91	95.3	2.00	7.19		
Total Xylenes*	<0.150	0.150	08/10/2021	ND	5.72	95.3	6.00	6.67		
Total BTEx	<0.300	0.300	08/10/2021	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	400	16.0	08/10/2021	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	08/10/2021	ND	206	103	200	1.21	
DRO >C10-C28*	<10.0	10.0	08/10/2021	ND	214	107	200	6.74	
EXT DRO >C28-C36	<10.0	10.0	08/10/2021	ND					

Surrogate: 1-Chlorooctane 85.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 79.1 % 38.9-142

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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: 08/06/2021
 Reported: 08/11/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 08/06/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL # 67 @ 10' (H212106-05)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/10/2021	ND	1.81	90.5	2.00	7.16	
Toluene*	<0.050	0.050	08/10/2021	ND	1.98	99.0	2.00	7.01	
Ethylbenzene*	<0.050	0.050	08/10/2021	ND	1.91	95.3	2.00	7.19	
Total Xylenes*	<0.150	0.150	08/10/2021	ND	5.72	95.3	6.00	6.67	
Total BTX	<0.300	0.300	08/10/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 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	08/10/2021	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	08/10/2021	ND	206	103	200	1.21	
DRO >C10-C28*	<10.0	10.0	08/10/2021	ND	214	107	200	6.74	
EXT DRO >C28-C36	<10.0	10.0	08/10/2021	ND					

Surrogate: 1-Chlorooctane 86.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 85.2 % 38.9-142

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: 08/06/2021
 Reported: 08/11/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 08/06/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: ESW #12 (H212106-06)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/10/2021	ND	1.81	90.5	2.00	7.16		
Toluene*	<0.050	0.050	08/10/2021	ND	1.98	99.0	2.00	7.01		
Ethylbenzene*	<0.050	0.050	08/10/2021	ND	1.91	95.3	2.00	7.19		
Total Xylenes*	<0.150	0.150	08/10/2021	ND	5.72	95.3	6.00	6.67		
Total BTEx	<0.300	0.300	08/10/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 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	08/10/2021	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	08/10/2021	ND	206	103	200	1.21	
DRO >C10-C28*	<10.0	10.0	08/10/2021	ND	214	107	200	6.74	
EXT DRO >C28-C36	<10.0	10.0	08/10/2021	ND					

Surrogate: 1-Chlorooctane 84.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 81.0 % 38.9-142

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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 "C. 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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

August 11, 2021

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: PADUCA 7/6 A2ED FED COM 1H

Enclosed are the results of analyses for samples received by the laboratory on 08/09/21 16:11.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/09/2021
 Reported: 08/11/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 08/09/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL # 68 @ 8' (H212118-01)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/10/2021	ND	1.84	91.9	2.00	4.34	
Toluene*	<0.050	0.050	08/10/2021	ND	2.00	100	2.00	4.20	
Ethylbenzene*	<0.050	0.050	08/10/2021	ND	1.92	95.9	2.00	4.63	
Total Xylenes*	<0.150	0.150	08/10/2021	ND	5.77	96.2	6.00	4.64	
Total BTX	<0.300	0.300	08/10/2021	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	176	16.0	08/10/2021	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	08/10/2021	ND	206	103	200	1.21	
DRO >C10-C28*	<10.0	10.0	08/10/2021	ND	214	107	200	6.74	
EXT DRO >C28-C36	<10.0	10.0	08/10/2021	ND					

Surrogate: 1-Chlorooctane 81.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 78.5 % 38.9-142

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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: 08/09/2021
 Reported: 08/11/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 08/09/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL # 69 @ 10' (H212118-02)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/10/2021	ND	1.84	91.9	2.00	4.34	
Toluene*	<0.050	0.050	08/10/2021	ND	2.00	100	2.00	4.20	
Ethylbenzene*	<0.050	0.050	08/10/2021	ND	1.92	95.9	2.00	4.63	
Total Xylenes*	<0.150	0.150	08/10/2021	ND	5.77	96.2	6.00	4.64	
Total BTEx	<0.300	0.300	08/10/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 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	08/10/2021	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	08/10/2021	ND	206	103	200	1.21	
DRO >C10-C28*	<10.0	10.0	08/10/2021	ND	214	107	200	6.74	
EXT DRO >C28-C36	<10.0	10.0	08/10/2021	ND					

Surrogate: 1-Chlorooctane 79.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 76.9 % 38.9-142

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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: 08/09/2021
 Reported: 08/11/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 08/09/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL # 70 @ 10' (H212118-03)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/10/2021	ND	1.84	91.9	2.00	4.34		
Toluene*	<0.050	0.050	08/10/2021	ND	2.00	100	2.00	4.20		
Ethylbenzene*	<0.050	0.050	08/10/2021	ND	1.92	95.9	2.00	4.63		
Total Xylenes*	<0.150	0.150	08/10/2021	ND	5.77	96.2	6.00	4.64		
Total BTX	<0.300	0.300	08/10/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 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	08/10/2021	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	08/10/2021	ND	206	103	200	1.21	
DRO >C10-C28*	<10.0	10.0	08/10/2021	ND	214	107	200	6.74	
EXT DRO >C28-C36	<10.0	10.0	08/10/2021	ND					

Surrogate: 1-Chlorooctane 85.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 84.9 % 38.9-142

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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: 08/09/2021
 Reported: 08/11/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 08/09/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SSW #7 (H212118-04)

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	08/10/2021	ND	1.84	91.9	2.00	4.34	
Toluene*	<0.050	0.050	08/10/2021	ND	2.00	100	2.00	4.20	
Ethylbenzene*	<0.050	0.050	08/10/2021	ND	1.92	95.9	2.00	4.63	
Total Xylenes*	<0.150	0.150	08/10/2021	ND	5.77	96.2	6.00	4.64	
Total BTX	<0.300	0.300	08/10/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 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	08/10/2021	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	08/10/2021	ND	206	103	200	1.21	
DRO >C10-C28*	<10.0	10.0	08/10/2021	ND	214	107	200	6.74	
EXT DRO >C28-C36	<10.0	10.0	08/10/2021	ND					

Surrogate: 1-Chlorooctane 80.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 77.1 % 38.9-142

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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: 08/09/2021
 Reported: 08/11/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 08/09/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SSW #8 (H212118-05)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/10/2021	ND	1.84	91.9	2.00	4.34	
Toluene*	<0.050	0.050	08/10/2021	ND	2.00	100	2.00	4.20	
Ethylbenzene*	<0.050	0.050	08/10/2021	ND	1.92	95.9	2.00	4.63	
Total Xylenes*	<0.150	0.150	08/10/2021	ND	5.77	96.2	6.00	4.64	
Total BTX	<0.300	0.300	08/10/2021	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	128	16.0	08/10/2021	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	08/10/2021	ND	206	103	200	1.21	
DRO >C10-C28*	<10.0	10.0	08/10/2021	ND	214	107	200	6.74	
EXT DRO >C28-C36	<10.0	10.0	08/10/2021	ND					

Surrogate: 1-Chlorooctane 71.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 69.6 % 38.9-142

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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: 08/09/2021
 Reported: 08/11/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 08/09/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NSW #3 (H212118-06)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/10/2021	ND	1.84	91.9	2.00	4.34		
Toluene*	<0.050	0.050	08/10/2021	ND	2.00	100	2.00	4.20		
Ethylbenzene*	<0.050	0.050	08/10/2021	ND	1.92	95.9	2.00	4.63		
Total Xylenes*	<0.150	0.150	08/10/2021	ND	5.77	96.2	6.00	4.64		
Total BTEx	<0.300	0.300	08/10/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 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	128	16.0	08/10/2021	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	08/11/2021	ND	206	103	200	1.21	
DRO >C10-C28*	<10.0	10.0	08/11/2021	ND	214	107	200	6.74	
EXT DRO >C28-C36	<10.0	10.0	08/11/2021	ND					

Surrogate: 1-Chlorooctane 75.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 71.8 % 38.9-142

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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", 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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 9 of 9

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST												
Project Manager:				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>												
Address: P.O. Box 301				Company: <u>newbourne</u>																
City: Lovington State: NM Zip: 88260				Attn:																
Phone #: (575) 396-2378 Fax #: (575) 396-1429				Address:																
Project #: <u>14420</u> Project Owner:				City:																
Project Name: <u>Paduca A2ED Fed. Com</u>				State: Zip:																
Project Location:				Phone #:																
Sampler Name: <u>Aaron Rios</u>				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						
<u>#212118</u>																				
	<u>1 FL # 68 @ 8'</u>		<u>1</u>			<u>X</u>				<u>X</u>			<u>8-9-21</u>	<u>8:00AM</u>	<u>X</u>	<u>X</u>	<u>X</u>			
	<u>2 FL # 69 @ 10'</u>		<u>1</u>			<u>X</u>				<u>X</u>			<u>8-9-21</u>	<u>8:00AM</u>	<u>X</u>	<u>X</u>	<u>X</u>			
	<u>3 FL # 70 @ 10'</u>		<u>1</u>			<u>X</u>				<u>X</u>			<u>8-9-21</u>	<u>11:00AM</u>	<u>X</u>	<u>X</u>	<u>X</u>			
	<u>4 SSW # 7 @ 10'</u>		<u>1</u>			<u>X</u>				<u>X</u>			<u>8-9-21</u>	<u>11:00AM</u>	<u>X</u>	<u>X</u>	<u>X</u>			
	<u>5 SSW # 8</u>		<u>1</u>			<u>X</u>				<u>X</u>			<u>8-9-21</u>	<u>2:30PM</u>	<u>X</u>	<u>X</u>	<u>X</u>			
	<u>6 NSW # 3</u>		<u>1</u>			<u>X</u>				<u>X</u>			<u>8-9-21</u>	<u>2:30PM</u>	<u>X</u>	<u>X</u>	<u>X</u>			
<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:		Received By:				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Phone #:						
				Time:						Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Fax #:						
										REMARKS:										
Relinquished By:				Date:		Received By:														
<u>Aaron Rios</u>				<u>8-9-21</u>		<u>Amara Eldridge</u>														
				Time:																
				<u>1611</u>																
Delivered By: (Circle One)						Sample Condition				CHECKED BY:										
<u>Sampler</u> - UPS - Bus - Other:						Cool Intact				(Initials)										
						<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				<u>T.O.</u>										
						<input 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

August 18, 2021

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: PADUCA 7/6 A2ED FED COM 1H

Enclosed are the results of analyses for samples received by the laboratory on 08/13/21 15:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/13/2021
 Reported: 08/18/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 08/12/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL # 71 @ 8' (H212163-01)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2021	ND	1.97	98.5	2.00	4.83	
Toluene*	0.088	0.050	08/16/2021	ND	2.07	104	2.00	3.39	
Ethylbenzene*	<0.050	0.050	08/16/2021	ND	1.95	97.3	2.00	3.79	
Total Xylenes*	<0.150	0.150	08/16/2021	ND	5.75	95.9	6.00	4.36	
Total BTX	<0.300	0.300	08/16/2021	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	08/16/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/16/2021	ND	214	107	200	1.36	
DRO >C10-C28*	126	10.0	08/16/2021	ND	215	107	200	3.43	
EXT DRO >C28-C36	17.9	10.0	08/16/2021	ND					

Surrogate: 1-Chlorooctane 80.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 85.0 % 38.9-142

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: 08/13/2021
 Reported: 08/18/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 08/12/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL # 72 @ 8' (H212163-02)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/16/2021	ND	1.97	98.5	2.00	4.83		
Toluene*	<0.050	0.050	08/16/2021	ND	2.07	104	2.00	3.39		
Ethylbenzene*	<0.050	0.050	08/16/2021	ND	1.95	97.3	2.00	3.79		
Total Xylenes*	<0.150	0.150	08/16/2021	ND	5.75	95.9	6.00	4.36		
Total BTEx	<0.300	0.300	08/16/2021	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	08/16/2021	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/16/2021	ND	214	107	200	1.36	
DRO >C10-C28*	68.8	10.0	08/16/2021	ND	215	107	200	3.43	
EXT DRO >C28-C36	<10.0	10.0	08/16/2021	ND					

Surrogate: 1-Chlorooctane 82.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 84.4 % 38.9-142

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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: 08/13/2021
 Reported: 08/18/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 08/12/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL # 73 @ 8' (H212163-03)

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	08/16/2021	ND	1.97	98.5	2.00	4.83		
Toluene*	<0.050	0.050	08/16/2021	ND	2.07	104	2.00	3.39		
Ethylbenzene*	<0.050	0.050	08/16/2021	ND	1.95	97.3	2.00	3.79		
Total Xylenes*	<0.150	0.150	08/16/2021	ND	5.75	95.9	6.00	4.36		
Total BTEx	<0.300	0.300	08/16/2021	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	128	16.0	08/16/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/16/2021	ND	214	107	200	1.36	
DRO >C10-C28*	<10.0	10.0	08/16/2021	ND	215	107	200	3.43	
EXT DRO >C28-C36	<10.0	10.0	08/16/2021	ND					

Surrogate: 1-Chlorooctane 81.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 81.8 % 38.9-142

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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: 08/13/2021
 Reported: 08/18/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 08/12/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL # 74 @ 8' (H212163-04)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2021	ND	1.97	98.5	2.00	4.83	
Toluene*	0.058	0.050	08/16/2021	ND	2.07	104	2.00	3.39	
Ethylbenzene*	<0.050	0.050	08/16/2021	ND	1.95	97.3	2.00	3.79	
Total Xylenes*	<0.150	0.150	08/16/2021	ND	5.75	95.9	6.00	4.36	
Total BTEx	<0.300	0.300	08/16/2021	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	80.0	16.0	08/16/2021	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/16/2021	ND	214	107	200	1.36	
DRO >C10-C28*	31.1	10.0	08/16/2021	ND	215	107	200	3.43	
EXT DRO >C28-C36	<10.0	10.0	08/16/2021	ND					

Surrogate: 1-Chlorooctane 82.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 83.3 % 38.9-142

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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: 08/13/2021
 Reported: 08/18/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 08/12/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL # 75 @ 8' (H212163-05)

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	08/16/2021	ND	1.97	98.5	2.00	4.83		
Toluene*	0.094	0.050	08/16/2021	ND	2.07	104	2.00	3.39		
Ethylbenzene*	<0.050	0.050	08/16/2021	ND	1.95	97.3	2.00	3.79		
Total Xylenes*	<0.150	0.150	08/16/2021	ND	5.75	95.9	6.00	4.36		
Total BTEx	<0.300	0.300	08/16/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	08/16/2021	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/16/2021	ND	214	107	200	1.36	
DRO >C10-C28*	34.3	10.0	08/16/2021	ND	215	107	200	3.43	
EXT DRO >C28-C36	<10.0	10.0	08/16/2021	ND					

Surrogate: 1-Chlorooctane 86.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 87.1 % 38.9-142

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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: 08/13/2021
 Reported: 08/18/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 08/12/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL # 76 @ 8' (H212163-06)

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	08/16/2021	ND	1.97	98.5	2.00	4.83	
Toluene*	<0.050	0.050	08/16/2021	ND	2.07	104	2.00	3.39	
Ethylbenzene*	<0.050	0.050	08/16/2021	ND	1.95	97.3	2.00	3.79	
Total Xylenes*	<0.150	0.150	08/16/2021	ND	5.75	95.9	6.00	4.36	
Total BTX	<0.300	0.300	08/16/2021	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	208	16.0	08/16/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/16/2021	ND	214	107	200	1.36	
DRO >C10-C28*	<10.0	10.0	08/16/2021	ND	215	107	200	3.43	
EXT DRO >C28-C36	<10.0	10.0	08/16/2021	ND					

Surrogate: 1-Chlorooctane 81.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 81.7 % 38.9-142

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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: 08/13/2021
 Reported: 08/18/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 08/12/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL # 77 @ 4' (H212163-07)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2021	ND	1.97	98.5	2.00	4.83	
Toluene*	<0.050	0.050	08/16/2021	ND	2.07	104	2.00	3.39	
Ethylbenzene*	<0.050	0.050	08/16/2021	ND	1.95	97.3	2.00	3.79	
Total Xylenes*	<0.150	0.150	08/16/2021	ND	5.75	95.9	6.00	4.36	
Total BTX	<0.300	0.300	08/16/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 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	624	16.0	08/16/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/16/2021	ND	214	107	200	1.36	
DRO >C10-C28*	<10.0	10.0	08/16/2021	ND	215	107	200	3.43	
EXT DRO >C28-C36	<10.0	10.0	08/16/2021	ND					

Surrogate: 1-Chlorooctane 80.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 80.0 % 38.9-142

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: 08/13/2021
 Reported: 08/18/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 08/12/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL # 78A @ 6' (H212163-08)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/16/2021	ND	1.97	98.5	2.00	4.83		
Toluene*	<0.050	0.050	08/16/2021	ND	2.07	104	2.00	3.39		
Ethylbenzene*	<0.050	0.050	08/16/2021	ND	1.95	97.3	2.00	3.79		
Total Xylenes*	<0.150	0.150	08/16/2021	ND	5.75	95.9	6.00	4.36		
Total BTEx	<0.300	0.300	08/16/2021	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	176	16.0	08/16/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/16/2021	ND	214	107	200	1.36	
DRO >C10-C28*	<10.0	10.0	08/16/2021	ND	215	107	200	3.43	
EXT DRO >C28-C36	<10.0	10.0	08/16/2021	ND					

Surrogate: 1-Chlorooctane 88.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 87.6 % 38.9-142

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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: 08/13/2021
 Reported: 08/18/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 08/12/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL # 79 @ 7' (H212163-09)

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	08/16/2021	ND	1.97	98.5	2.00	4.83		
Toluene*	<0.050	0.050	08/16/2021	ND	2.07	104	2.00	3.39		
Ethylbenzene*	<0.050	0.050	08/16/2021	ND	1.95	97.3	2.00	3.79		
Total Xylenes*	<0.150	0.150	08/16/2021	ND	5.75	95.9	6.00	4.36		
Total BTEx	<0.300	0.300	08/16/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	08/16/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/16/2021	ND	214	107	200	1.36	
DRO >C10-C28*	<10.0	10.0	08/16/2021	ND	215	107	200	3.43	
EXT DRO >C28-C36	<10.0	10.0	08/16/2021	ND					

Surrogate: 1-Chlorooctane 80.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 79.7 % 38.9-142

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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: 08/13/2021
 Reported: 08/18/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 08/12/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL # 80 @ 4' (H212163-10)

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	08/16/2021	ND	1.97	98.5	2.00	4.83		
Toluene*	<0.050	0.050	08/16/2021	ND	2.07	104	2.00	3.39		
Ethylbenzene*	<0.050	0.050	08/16/2021	ND	1.95	97.3	2.00	3.79		
Total Xylenes*	<0.150	0.150	08/16/2021	ND	5.75	95.9	6.00	4.36		
Total BTEx	<0.300	0.300	08/16/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 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	08/16/2021	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/16/2021	ND	214	107	200	1.36	
DRO >C10-C28*	10.4	10.0	08/16/2021	ND	215	107	200	3.43	
EXT DRO >C28-C36	<10.0	10.0	08/16/2021	ND					

Surrogate: 1-Chlorooctane 80.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 79.9 % 38.9-142

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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: 08/13/2021
 Reported: 08/18/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 08/12/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SSW 9 @ 0-8' (H212163-11)

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	08/16/2021	ND	1.97	98.5	2.00	4.83		
Toluene*	<0.050	0.050	08/16/2021	ND	2.07	104	2.00	3.39		
Ethylbenzene*	<0.050	0.050	08/16/2021	ND	1.95	97.3	2.00	3.79		
Total Xylenes*	<0.150	0.150	08/16/2021	ND	5.75	95.9	6.00	4.36		
Total BTEx	<0.300	0.300	08/16/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	08/16/2021	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/16/2021	ND	214	107	200	1.36	
DRO >C10-C28*	<10.0	10.0	08/16/2021	ND	215	107	200	3.43	
EXT DRO >C28-C36	<10.0	10.0	08/16/2021	ND					

Surrogate: 1-Chlorooctane 75.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 75.0 % 38.9-142

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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: 08/13/2021
 Reported: 08/18/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 08/13/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SSW 10B @ 0-8' (H212163-12)

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	08/16/2021	ND	1.97	98.5	2.00	4.83		
Toluene*	<0.050	0.050	08/16/2021	ND	2.07	104	2.00	3.39		
Ethylbenzene*	<0.050	0.050	08/16/2021	ND	1.95	97.3	2.00	3.79		
Total Xylenes*	<0.150	0.150	08/16/2021	ND	5.75	95.9	6.00	4.36		
Total BTEx	<0.300	0.300	08/16/2021	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	08/16/2021	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/17/2021	ND	195	97.4	200	0.946	
DRO >C10-C28*	<10.0	10.0	08/17/2021	ND	215	107	200	7.04	
EXT DRO >C28-C36	<10.0	10.0	08/17/2021	ND					

Surrogate: 1-Chlorooctane 81.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 75.7 % 38.9-142

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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: 08/13/2021
 Reported: 08/18/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 08/13/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NSW 3B @ 0-8' (H212163-13)

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	08/16/2021	ND	1.97	98.5	2.00	4.83		
Toluene*	0.153	0.050	08/16/2021	ND	2.07	104	2.00	3.39		
Ethylbenzene*	<0.050	0.050	08/16/2021	ND	1.95	97.3	2.00	3.79		
Total Xylenes*	<0.150	0.150	08/16/2021	ND	5.75	95.9	6.00	4.36		
Total BTEx	<0.300	0.300	08/16/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	08/16/2021	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/17/2021	ND	195	97.4	200	0.946	
DRO >C10-C28*	<10.0	10.0	08/17/2021	ND	215	107	200	7.04	
EXT DRO >C28-C36	<10.0	10.0	08/17/2021	ND					

Surrogate: 1-Chlorooctane 82.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 78.5 % 38.9-142

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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: 08/13/2021
 Reported: 08/18/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 08/12/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NSW 4 @ 0-7' (H212163-14)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/16/2021	ND	1.97	98.5	2.00	4.83		
Toluene*	<0.050	0.050	08/16/2021	ND	2.07	104	2.00	3.39		
Ethylbenzene*	<0.050	0.050	08/16/2021	ND	1.95	97.3	2.00	3.79		
Total Xylenes*	<0.150	0.150	08/16/2021	ND	5.75	95.9	6.00	4.36		
Total BTX	<0.300	0.300	08/16/2021	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	176	16.0	08/16/2021	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/17/2021	ND	195	97.4	200	0.946	
DRO >C10-C28*	72.5	10.0	08/17/2021	ND	215	107	200	7.04	
EXT DRO >C28-C36	<10.0	10.0	08/17/2021	ND					

Surrogate: 1-Chlorooctane 82.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 80.1 % 38.9-142

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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 "C. D. Keene", is written over a horizontal line.

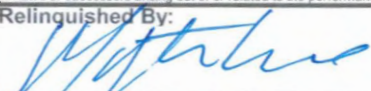
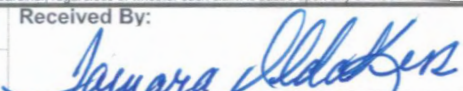
Celey D. Keene, Lab Director/Quality Manager

**ARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																																							
Project Manager: Lance Crenshaw				P.O. #:				Chloride TPH (8015M) BTEX (8021B)																																							
Address: 2617 West Marland				Company: Mewbourne																																											
City: Hobbs State: NM Zip: 88240				Attn: Robbie Runnels																																											
Phone #: (575) 264-9884 Fax #:				Address:																																											
Project #: 14420 Project Owner: Mewbourne				City:																																											
Project Name: Paduca 7/6 A2ED Fed Com 1H				State: Zip:																																											
Project Location: Rural Lea County, NM				Phone #:																																											
Sampler Name: Matthew Grieco				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																			
H212163				C		1						X								X						8/12/21				X		X		X													
2		FL72 @ 8'		C		1						X								X						8/12/21				X		X		X													
3		FL73 @ 8'		C		1						X								X						8/12/21				X		X		X													
4		FL74 @ 8'		C		1						X								X						8/12/21				X		X		X													
5		FL75 @ 8'		C		1						X								X						8/12/21				X		X		X													
6		FL76 @ 8'		C		1						X								X						8/12/21				X		X		X													
7		FL77 @ 4'		C		1						X								X						8/12/21				X		X		X													
8		FL78a @ 6'		C		1						X								X						8/12/21				X		X		X													
9		FL79 @ 7'		C		1						X								X						8/12/21				X		X		X													
10		FL80 @ 4'		C		1						X								X						8/12/21				X		X		X													
<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: 8-13-21				Received By: 				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Phone #:																															
Time: 1535												Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Fax #:																															
Relinquished By:				Date:				Received By:				REMARKS:																																			
				Time:																																											
Delivered By: (Circle One)				Sample Condition				CHECKED BY:				Please email results to pm@etechenv.com																																			
Sampler - UPS - Bus - Other:				Cool Intact				(Initials)																																							
				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				TO																																							



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

August 25, 2021

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: PADUCA 7/6 A2ED FED COM 1H

Enclosed are the results of analyses for samples received by the laboratory on 08/19/21 15:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

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: 08/19/2021
 Reported: 08/25/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 08/17/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 81 @ 6' (H212222-01)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/20/2021	ND	1.89	94.6	2.00	1.71		
Toluene*	<0.050	0.050	08/20/2021	ND	2.04	102	2.00	1.22		
Ethylbenzene*	<0.050	0.050	08/20/2021	ND	1.99	99.5	2.00	1.57		
Total Xylenes*	<0.150	0.150	08/20/2021	ND	5.98	99.7	6.00	1.83		
Total BTX	<0.300	0.300	08/20/2021	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	112	16.0	08/20/2021	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	08/20/2021	ND	180	89.8	200	5.81	
DRO >C10-C28*	181	10.0	08/20/2021	ND	195	97.5	200	2.98	
EXT DRO >C28-C36	19.7	10.0	08/20/2021	ND					

Surrogate: 1-Chlorooctane 83.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 99.9 % 38.9-142

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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: 08/19/2021
 Reported: 08/25/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 08/17/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 82 @ 6' (H212222-02)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/20/2021	ND	1.89	94.6	2.00	1.71		
Toluene*	<0.050	0.050	08/20/2021	ND	2.04	102	2.00	1.22		
Ethylbenzene*	<0.050	0.050	08/20/2021	ND	1.99	99.5	2.00	1.57		
Total Xylenes*	<0.150	0.150	08/20/2021	ND	5.98	99.7	6.00	1.83		
Total BTEx	<0.300	0.300	08/20/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 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	64.0	16.0	08/20/2021	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	08/20/2021	ND	180	89.8	200	5.81	
DRO >C10-C28*	53.7	10.0	08/20/2021	ND	195	97.5	200	2.98	
EXT DRO >C28-C36	<10.0	10.0	08/20/2021	ND					

Surrogate: 1-Chlorooctane 89.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 100 % 38.9-142

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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: 08/19/2021
 Reported: 08/25/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 08/17/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 83 @ 6' (H212222-03)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/20/2021	ND	2.07	104	2.00	1.13	
Toluene*	<0.050	0.050	08/20/2021	ND	2.16	108	2.00	1.42	
Ethylbenzene*	<0.050	0.050	08/20/2021	ND	2.13	107	2.00	2.86	
Total Xylenes*	<0.150	0.150	08/20/2021	ND	6.36	106	6.00	3.42	
Total BTX	<0.300	0.300	08/20/2021	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	240	16.0	08/20/2021	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	08/20/2021	ND	180	89.8	200	5.81	
DRO >C10-C28*	179	10.0	08/20/2021	ND	195	97.5	200	2.98	
EXT DRO >C28-C36	15.4	10.0	08/20/2021	ND					

Surrogate: 1-Chlorooctane 88.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 101 % 38.9-142

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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: 08/19/2021
 Reported: 08/25/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 08/17/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 84 @ 6' (H212222-04)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/20/2021	ND	2.07	104	2.00	1.13		
Toluene*	<0.050	0.050	08/20/2021	ND	2.16	108	2.00	1.42		
Ethylbenzene*	<0.050	0.050	08/20/2021	ND	2.13	107	2.00	2.86		
Total Xylenes*	<0.150	0.150	08/20/2021	ND	6.36	106	6.00	3.42		
Total BTEx	<0.300	0.300	08/20/2021	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	448	16.0	08/20/2021	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	08/20/2021	ND	180	89.8	200	5.81	
DRO >C10-C28*	<10.0	10.0	08/20/2021	ND	195	97.5	200	2.98	
EXT DRO >C28-C36	<10.0	10.0	08/20/2021	ND					

Surrogate: 1-Chlorooctane 89.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 97.2 % 38.9-142

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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: 08/19/2021
 Reported: 08/25/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 08/17/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 91 @ 8' (H212222-05)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/20/2021	ND	2.07	104	2.00	1.13	
Toluene*	<0.050	0.050	08/20/2021	ND	2.16	108	2.00	1.42	
Ethylbenzene*	<0.050	0.050	08/20/2021	ND	2.13	107	2.00	2.86	
Total Xylenes*	<0.150	0.150	08/20/2021	ND	6.36	106	6.00	3.42	
Total BTX	<0.300	0.300	08/20/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	08/20/2021	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	08/23/2021	ND	187	93.7	200	3.45	
DRO >C10-C28*	<10.0	10.0	08/23/2021	ND	211	106	200	3.15	
EXT DRO >C28-C36	<10.0	10.0	08/23/2021	ND					

Surrogate: 1-Chlorooctane 76.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 74.1 % 38.9-142

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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: 08/19/2021
 Reported: 08/25/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 08/18/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 71A @ 8.5' (H212222-06)

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2021	ND	187	93.7	200	3.45	
DRO >C10-C28*	<10.0	10.0	08/23/2021	ND	211	106	200	3.15	
EXT DRO >C28-C36	<10.0	10.0	08/23/2021	ND					
Surrogate: 1-Chlorooctane	76.0 %	44.3-133							
Surrogate: 1-Chlorooctadecane	69.5 %	38.9-142							

Sample ID: FL 77A @ 4.5' (H212222-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	08/20/2021	ND	416	104	400	0.00		

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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: 08/19/2021
 Reported: 08/25/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 08/18/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 88A @ 9' (H212222-08)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/20/2021	ND	2.07	104	2.00	1.13	
Toluene*	<0.050	0.050	08/20/2021	ND	2.16	108	2.00	1.42	
Ethylbenzene*	<0.050	0.050	08/20/2021	ND	2.13	107	2.00	2.86	
Total Xylenes*	<0.150	0.150	08/20/2021	ND	6.36	106	6.00	3.42	
Total BTEx	<0.300	0.300	08/20/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	512	16.0	08/20/2021	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	08/23/2021	ND	218	109	200	0.561	
DRO >C10-C28*	<10.0	10.0	08/23/2021	ND	228	114	200	0.317	
EXT DRO >C28-C36	<10.0	10.0	08/23/2021	ND					

Surrogate: 1-Chlorooctane 85.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 82.5 % 38.9-142

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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: 08/19/2021
 Reported: 08/25/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 08/18/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 89A @ 9' (H212222-09)

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	08/20/2021	ND	2.07	104	2.00	1.13	
Toluene*	<0.050	0.050	08/20/2021	ND	2.16	108	2.00	1.42	
Ethylbenzene*	<0.050	0.050	08/20/2021	ND	2.13	107	2.00	2.86	
Total Xylenes*	<0.150	0.150	08/20/2021	ND	6.36	106	6.00	3.42	
Total BTEx	<0.300	0.300	08/20/2021	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	336	16.0	08/20/2021	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	08/23/2021	ND	218	109	200	0.561	
DRO >C10-C28*	<10.0	10.0	08/23/2021	ND	228	114	200	0.317	
EXT DRO >C28-C36	<10.0	10.0	08/23/2021	ND					

Surrogate: 1-Chlorooctane 88.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 85.2 % 38.9-142

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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: 08/19/2021
 Reported: 08/25/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 08/18/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 90A @ 9' (H212222-10)

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	08/20/2021	ND	2.07	104	2.00	1.13	
Toluene*	<0.050	0.050	08/20/2021	ND	2.16	108	2.00	1.42	
Ethylbenzene*	<0.050	0.050	08/20/2021	ND	2.13	107	2.00	2.86	
Total Xylenes*	<0.150	0.150	08/20/2021	ND	6.36	106	6.00	3.42	
Total BTEx	<0.300	0.300	08/20/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	512	16.0	08/20/2021	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	08/20/2021	ND	182	91.1	200	6.30	
DRO >C10-C28*	<10.0	10.0	08/20/2021	ND	205	103	200	4.64	
EXT DRO >C28-C36	<10.0	10.0	08/20/2021	ND					

Surrogate: 1-Chlorooctane 72.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 71.0 % 38.9-142

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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: 08/19/2021
 Reported: 08/25/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 08/18/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SSW 12B @ 0-9' (H212222-11)

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	08/20/2021	ND	2.07	104	2.00	1.13	
Toluene*	<0.050	0.050	08/20/2021	ND	2.16	108	2.00	1.42	
Ethylbenzene*	<0.050	0.050	08/20/2021	ND	2.13	107	2.00	2.86	
Total Xylenes*	<0.150	0.150	08/20/2021	ND	6.36	106	6.00	3.42	
Total BTEx	<0.300	0.300	08/20/2021	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	528	16.0	08/20/2021	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	08/20/2021	ND	182	91.1	200	6.30	
DRO >C10-C28*	<10.0	10.0	08/20/2021	ND	205	103	200	4.64	
EXT DRO >C28-C36	<10.0	10.0	08/20/2021	ND					

Surrogate: 1-Chlorooctane 77.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 76.6 % 38.9-142

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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: 08/19/2021
 Reported: 08/25/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 08/18/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SSW 13B @ 0-9' (H212222-12)

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	08/20/2021	ND	2.07	104	2.00	1.13	
Toluene*	<0.050	0.050	08/20/2021	ND	2.16	108	2.00	1.42	
Ethylbenzene*	<0.050	0.050	08/20/2021	ND	2.13	107	2.00	2.86	
Total Xylenes*	<0.150	0.150	08/20/2021	ND	6.36	106	6.00	3.42	
Total BTX	<0.300	0.300	08/20/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	08/20/2021	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	08/20/2021	ND	182	91.1	200	6.30	
DRO >C10-C28*	<10.0	10.0	08/20/2021	ND	205	103	200	4.64	
EXT DRO >C28-C36	<10.0	10.0	08/20/2021	ND					

Surrogate: 1-Chlorooctane 80.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 79.5 % 38.9-142

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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: 08/19/2021
 Reported: 08/25/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 08/19/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NSW 5B @ 0-6' (H212222-13)

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	08/20/2021	ND	2.07	104	2.00	1.13	
Toluene*	<0.050	0.050	08/20/2021	ND	2.16	108	2.00	1.42	
Ethylbenzene*	<0.050	0.050	08/20/2021	ND	2.13	107	2.00	2.86	
Total Xylenes*	<0.150	0.150	08/20/2021	ND	6.36	106	6.00	3.42	
Total BTEx	<0.300	0.300	08/20/2021	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	192	16.0	08/20/2021	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	08/20/2021	ND	182	91.1	200	6.30	
DRO >C10-C28*	<10.0	10.0	08/20/2021	ND	205	103	200	4.64	
EXT DRO >C28-C36	<10.0	10.0	08/20/2021	ND					

Surrogate: 1-Chlorooctane 79.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 80.9 % 38.9-142

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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", 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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 16 of 16

[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

August 25, 2021

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: PADUCA 7/6 A2ED FED COM 1H

Enclosed are the results of analyses for samples received by the laboratory on 08/20/21 16:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/20/2021
 Reported: 08/25/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 08/20/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: ESW #14 (H212240-01)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/23/2021	ND	2.07	104	2.00	0.545	
Toluene*	<0.050	0.050	08/23/2021	ND	2.14	107	2.00	0.0639	
Ethylbenzene*	<0.050	0.050	08/23/2021	ND	2.10	105	2.00	0.394	
Total Xylenes*	<0.150	0.150	08/23/2021	ND	6.27	105	6.00	1.69	
Total BTX	<0.300	0.300	08/23/2021	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	320	16.0	08/23/2021	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	08/24/2021	ND	191	95.7	200	1.52	
DRO >C10-C28*	<10.0	10.0	08/24/2021	ND	222	111	200	2.39	
EXT DRO >C28-C36	<10.0	10.0	08/24/2021	ND					

Surrogate: 1-Chlorooctane 77.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 76.5 % 38.9-142

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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: 08/20/2021
 Reported: 08/25/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 08/20/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SSW #14 (H212240-02)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/23/2021	ND	2.07	104	2.00	0.545	
Toluene*	<0.050	0.050	08/23/2021	ND	2.14	107	2.00	0.0639	
Ethylbenzene*	<0.050	0.050	08/23/2021	ND	2.10	105	2.00	0.394	
Total Xylenes*	<0.150	0.150	08/23/2021	ND	6.27	105	6.00	1.69	
Total BTEx	<0.300	0.300	08/23/2021	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	08/23/2021	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	08/24/2021	ND	191	95.7	200	1.52	
DRO >C10-C28*	<10.0	10.0	08/24/2021	ND	222	111	200	2.39	
EXT DRO >C28-C36	<10.0	10.0	08/24/2021	ND					

Surrogate: 1-Chlorooctane 81.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 80.1 % 38.9-142

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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: 08/20/2021
 Reported: 08/25/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 08/20/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 92 @ 12' (H212240-03)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/23/2021	ND	2.07	104	2.00	0.545	
Toluene*	<0.050	0.050	08/23/2021	ND	2.14	107	2.00	0.0639	
Ethylbenzene*	<0.050	0.050	08/23/2021	ND	2.10	105	2.00	0.394	
Total Xylenes*	<0.150	0.150	08/23/2021	ND	6.27	105	6.00	1.69	
Total BTX	<0.300	0.300	08/23/2021	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	288	16.0	08/23/2021	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	08/24/2021	ND	191	95.7	200	1.52	
DRO >C10-C28*	<10.0	10.0	08/24/2021	ND	222	111	200	2.39	
EXT DRO >C28-C36	<10.0	10.0	08/24/2021	ND					

Surrogate: 1-Chlorooctane 87.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 83.8 % 38.9-142

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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: 08/20/2021
 Reported: 08/25/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 08/20/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 93 @ 12' (H212240-04)

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	08/23/2021	ND	2.07	104	2.00	0.545	
Toluene*	<0.050	0.050	08/23/2021	ND	2.14	107	2.00	0.0639	
Ethylbenzene*	<0.050	0.050	08/23/2021	ND	2.10	105	2.00	0.394	
Total Xylenes*	<0.150	0.150	08/23/2021	ND	6.27	105	6.00	1.69	
Total BTX	<0.300	0.300	08/23/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	08/23/2021	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	08/24/2021	ND	191	95.7	200	1.52	
DRO >C10-C28*	<10.0	10.0	08/24/2021	ND	222	111	200	2.39	
EXT DRO >C28-C36	<10.0	10.0	08/24/2021	ND					

Surrogate: 1-Chlorooctane 78.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 76.1 % 38.9-142

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

Notes and Definitions

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

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*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager

**ARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

August 25, 2021

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: PADUCA 7/6 A2ED FED COM 1H

Enclosed are the results of analyses for samples received by the laboratory on 08/23/21 16:52.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/23/2021
 Reported: 08/25/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 08/23/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL #94 @ 9' (H212251-01)

BTX 8021B			mg/kg							
			Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/24/2021	ND	1.74	87.2	2.00	4.37		
Toluene*	<0.050	0.050	08/24/2021	ND	1.89	94.7	2.00	3.35		
Ethylbenzene*	<0.050	0.050	08/24/2021	ND	1.85	92.6	2.00	3.76		
Total Xylenes*	<0.150	0.150	08/24/2021	ND	5.66	94.3	6.00	3.38		
Total BTX	<0.300	0.300	08/24/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 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	08/25/2021	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	08/24/2021	ND	209	104	200	0.788		
DRO >C10-C28*	<10.0	10.0	08/24/2021	ND	220	110	200	0.628		
EXT DRO >C28-C36	<10.0	10.0	08/24/2021	ND						

Surrogate: 1-Chlorooctane 74.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 72.4 % 38.9-142

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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: 08/23/2021
 Reported: 08/25/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 08/23/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL #95 @ 9' (H212251-02)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/24/2021	ND	1.74	87.2	2.00	4.37		
Toluene*	<0.050	0.050	08/24/2021	ND	1.89	94.7	2.00	3.35		
Ethylbenzene*	<0.050	0.050	08/24/2021	ND	1.85	92.6	2.00	3.76		
Total Xylenes*	<0.150	0.150	08/24/2021	ND	5.66	94.3	6.00	3.38		
Total BTEx	<0.300	0.300	08/24/2021	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	144	16.0	08/25/2021	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	08/24/2021	ND	209	104	200	0.788	
DRO >C10-C28*	<10.0	10.0	08/24/2021	ND	220	110	200	0.628	
EXT DRO >C28-C36	<10.0	10.0	08/24/2021	ND					

Surrogate: 1-Chlorooctane 71.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 69.7 % 38.9-142

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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: 08/23/2021
 Reported: 08/25/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 08/23/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL #36 @ 8' (H212251-03)

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	08/24/2021	ND	1.74	87.2	2.00	4.37		
Toluene*	<0.050	0.050	08/24/2021	ND	1.89	94.7	2.00	3.35		
Ethylbenzene*	<0.050	0.050	08/24/2021	ND	1.85	92.6	2.00	3.76		
Total Xylenes*	<0.150	0.150	08/24/2021	ND	5.66	94.3	6.00	3.38		
Total BTEx	<0.300	0.300	08/24/2021	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	144	16.0	08/25/2021	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	08/25/2021	ND	209	104	200	0.788	
DRO >C10-C28*	<10.0	10.0	08/25/2021	ND	220	110	200	0.628	
EXT DRO >C28-C36	<10.0	10.0	08/25/2021	ND					

Surrogate: 1-Chlorooctane 95.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 95.1 % 38.9-142

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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: 08/23/2021
 Reported: 08/25/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 08/23/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NSW #6 (H212251-04)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/24/2021	ND	1.74	87.2	2.00	4.37		
Toluene*	<0.050	0.050	08/24/2021	ND	1.89	94.7	2.00	3.35		
Ethylbenzene*	<0.050	0.050	08/24/2021	ND	1.85	92.6	2.00	3.76		
Total Xylenes*	<0.150	0.150	08/24/2021	ND	5.66	94.3	6.00	3.38		
Total BTEx	<0.300	0.300	08/24/2021	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	592	16.0	08/25/2021	ND	432	108	400	7.14		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/24/2021	ND	209	104	200	0.788	
DRO >C10-C28*	<10.0	10.0	08/24/2021	ND	220	110	200	0.628	
EXT DRO >C28-C36	<10.0	10.0	08/24/2021	ND					

Surrogate: 1-Chlorooctane 61.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 58.9 % 38.9-142

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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: 08/23/2021
 Reported: 08/25/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 08/23/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL #86 @ 12' (H212251-05)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/25/2021	ND	1.85	92.6	2.00	1.93		
Toluene*	<0.050	0.050	08/25/2021	ND	2.00	100	2.00	1.94		
Ethylbenzene*	<0.050	0.050	08/25/2021	ND	1.96	98.0	2.00	1.51		
Total Xylenes*	<0.150	0.150	08/25/2021	ND	5.95	99.1	6.00	0.135		
Total BTX	<0.300	0.300	08/25/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 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	08/25/2021	ND	432	108	400	7.14		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/24/2021	ND	209	104	200	0.788	
DRO >C10-C28*	<10.0	10.0	08/24/2021	ND	220	110	200	0.628	
EXT DRO >C28-C36	<10.0	10.0	08/24/2021	ND					

Surrogate: 1-Chlorooctane 66.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 64.8 % 38.9-142

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

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

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager

**ARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

August 26, 2021

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: PADUCA 7/6 A2ED FED COM 1H

Enclosed are the results of analyses for samples received by the laboratory on 08/24/21 15:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

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: 08/24/2021
 Reported: 08/26/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 08/24/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL #85 @ 11' (H212256-01)

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	08/25/2021	ND	1.75	87.6	2.00	3.40	
Toluene*	<0.050	0.050	08/25/2021	ND	1.91	95.6	2.00	2.72	
Ethylbenzene*	<0.050	0.050	08/25/2021	ND	1.86	93.1	2.00	3.34	
Total Xylenes*	<0.150	0.150	08/25/2021	ND	5.66	94.3	6.00	2.88	
Total BTEx	<0.300	0.300	08/25/2021	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	08/25/2021	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	08/25/2021	ND	221	110	200	1.94	
DRO >C10-C28*	<10.0	10.0	08/25/2021	ND	230	115	200	0.508	
EXT DRO >C28-C36	<10.0	10.0	08/25/2021	ND					

Surrogate: 1-Chlorooctane 92.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 93.6 % 38.9-142

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: 08/24/2021
 Reported: 08/26/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 08/24/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: ESW #15 (H212256-02)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/25/2021	ND	1.75	87.6	2.00	3.40		
Toluene*	<0.050	0.050	08/25/2021	ND	1.91	95.6	2.00	2.72		
Ethylbenzene*	<0.050	0.050	08/25/2021	ND	1.86	93.1	2.00	3.34		
Total Xylenes*	<0.150	0.150	08/25/2021	ND	5.66	94.3	6.00	2.88		
Total BTEx	<0.300	0.300	08/25/2021	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	144	16.0	08/25/2021	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	08/25/2021	ND	221	110	200	1.94	
DRO >C10-C28*	<10.0	10.0	08/25/2021	ND	230	115	200	0.508	
EXT DRO >C28-C36	<10.0	10.0	08/25/2021	ND					

Surrogate: 1-Chlorooctane 64.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 64.6 % 38.9-142

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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: 08/24/2021
 Reported: 08/26/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 08/24/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL #87 @ 12' (H212256-03)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/25/2021	ND	1.75	87.6	2.00	3.40	
Toluene*	<0.050	0.050	08/25/2021	ND	1.91	95.6	2.00	2.72	
Ethylbenzene*	<0.050	0.050	08/25/2021	ND	1.86	93.1	2.00	3.34	
Total Xylenes*	<0.150	0.150	08/25/2021	ND	5.66	94.3	6.00	2.88	
Total BTX	<0.300	0.300	08/25/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 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	304	16.0	08/25/2021	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	08/25/2021	ND	202	101	200	1.83	
DRO >C10-C28*	<10.0	10.0	08/25/2021	ND	232	116	200	1.23	
EXT DRO >C28-C36	<10.0	10.0	08/25/2021	ND					

Surrogate: 1-Chlorooctane 82.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 78.8 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager

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101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																																			
Project Manager: Joel Lowry				P.O. #:				Chloride TPH (8015M) BTEX (8021B)																																			
Address: P.O. Box 301				Company: Newbourne																																							
City: Lovington		State: NM		Zip: 88260		Attn:																																					
Phone #: (575) 396-2378		Fax #: (575) 396-1429		Address:																																							
Project #: 14420		Project Owner:		City:																																							
Project Name: Paduca A2ED Fed. Com 1H		State:		Zip:																																							
Project Location:				Phone #:																																							
Sampler Name: Aaron RioS				Fax #:																																							
FOR LAB USE ONLY		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													
H212256																																											
		</																																									



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

August 30, 2021

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: PADUCA 7/6 A2ED FED COM 1H

Enclosed are the results of analyses for samples received by the laboratory on 08/26/21 16:14.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

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: 08/26/2021
 Reported: 08/30/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 08/26/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: FL # 96 @ 15' (H212306-01)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/28/2021	ND	2.03	102	2.00	1.31	
Toluene*	<0.050	0.050	08/28/2021	ND	2.05	102	2.00	5.26	
Ethylbenzene*	<0.050	0.050	08/28/2021	ND	1.97	98.7	2.00	5.18	
Total Xylenes*	<0.150	0.150	08/28/2021	ND	5.99	99.9	6.00	3.82	
Total BTX	<0.300	0.300	08/28/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 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	224	16.0	08/30/2021	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	08/30/2021	ND	191	95.4	200	8.12	
DRO >C10-C28*	<10.0	10.0	08/30/2021	ND	191	95.6	200	5.71	
EXT DRO >C28-C36	<10.0	10.0	08/30/2021	ND					

Surrogate: 1-Chlorooctane 78.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 75.3 % 38.9-142

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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: 08/26/2021
 Reported: 08/30/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 08/26/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: FL # 98 @ 10' (H212306-02)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/29/2021	ND	2.03	102	2.00	1.31	
Toluene*	<0.050	0.050	08/29/2021	ND	2.05	102	2.00	5.26	
Ethylbenzene*	<0.050	0.050	08/29/2021	ND	1.97	98.7	2.00	5.18	
Total Xylenes*	<0.150	0.150	08/29/2021	ND	5.99	99.9	6.00	3.82	
Total BTX	<0.300	0.300	08/29/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	528	16.0	08/30/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2021	ND	191	95.4	200	8.12	
DRO >C10-C28*	222	10.0	08/30/2021	ND	191	95.6	200	5.71	
EXT DRO >C28-C36	32.8	10.0	08/30/2021	ND					

Surrogate: 1-Chlorooctane 82.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 84.8 % 38.9-142

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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: 08/26/2021
 Reported: 08/30/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 08/26/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: ESW #16 (H212306-03)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/29/2021	ND	2.03	102	2.00	1.31	
Toluene*	<0.050	0.050	08/29/2021	ND	2.05	102	2.00	5.26	
Ethylbenzene*	<0.050	0.050	08/29/2021	ND	1.97	98.7	2.00	5.18	
Total Xylenes*	<0.150	0.150	08/29/2021	ND	5.99	99.9	6.00	3.82	
Total BTX	<0.300	0.300	08/29/2021	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	112	16.0	08/30/2021	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2021	ND	191	95.4	200	8.12	
DRO >C10-C28*	<10.0	10.0	08/30/2021	ND	191	95.6	200	5.71	
EXT DRO >C28-C36	<10.0	10.0	08/30/2021	ND					

Surrogate: 1-Chlorooctane 75.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 71.6 % 38.9-142

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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: 08/26/2021
 Reported: 08/30/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 08/26/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: FL # 81 @ 7' (H212306-04)

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	08/28/2021	ND	1.94	97.1	2.00	9.31		
Toluene*	<0.050	0.050	08/28/2021	ND	2.10	105	2.00	9.48		
Ethylbenzene*	<0.050	0.050	08/28/2021	ND	2.03	101	2.00	9.44		
Total Xylenes*	<0.150	0.150	08/28/2021	ND	6.12	102	6.00	9.22		
Total BTX	<0.300	0.300	08/28/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 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	48.0	16.0	08/30/2021	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2021	ND	191	95.4	200	8.12	
DRO >C10-C28*	<10.0	10.0	08/30/2021	ND	191	95.6	200	5.71	
EXT DRO >C28-C36	<10.0	10.0	08/30/2021	ND					

Surrogate: 1-Chlorooctane 79.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 75.5 % 38.9-142

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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: 08/26/2021
 Reported: 08/30/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 08/26/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: FL # 83 @ 7' (H212306-05)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/28/2021	ND	1.94	97.1	2.00	9.31		
Toluene*	<0.050	0.050	08/28/2021	ND	2.10	105	2.00	9.48		
Ethylbenzene*	<0.050	0.050	08/28/2021	ND	2.03	101	2.00	9.44		
Total Xylenes*	<0.150	0.150	08/28/2021	ND	6.12	102	6.00	9.22		
Total BTX	<0.300	0.300	08/28/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 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	08/30/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2021	ND	191	95.4	200	8.12	
DRO >C10-C28*	<10.0	10.0	08/30/2021	ND	191	95.6	200	5.71	
EXT DRO >C28-C36	<10.0	10.0	08/30/2021	ND					

Surrogate: 1-Chlorooctane 74.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 70.9 % 38.9-142

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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".

Celey D. Keene, Lab Director/Quality Manager



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 8 of 8

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST															
Project Manager: <i>Del Laury</i>				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>															
Address: P.O. Box 301				Company: <i>Newbarde</i>																			
City: Lovington		State: NM		Zip: 88260		Attn:																	
Phone #: (575) 396-2378		Fax #: (575) 396-1429		Address:		City:																	
Project #: <i>14420</i>		Project Owner:		State:		Zip:																	
Project Name: <i>Paducah Aged Fed. Com. I.H.</i>		Project Location:		Phone #:		Fax #:																	
Sampler Name: <i>Monroe</i>																							
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															
<i>H212306</i>				<i>1</i>				<i>X</i>		<i>8-26-21 9:00AM</i>		<i>X X X</i>											
<i>01 FL #96 @ 15'</i>				<i>1</i>				<i>X</i>		<i>8-26-21 10:30AM</i>		<i>X X X</i>											
<i>02 FL #98 @ 10'</i>				<i>1</i>				<i>X</i>		<i>8-26-21 11:25AM</i>		<i>X X X</i>											
<i>03 ESW #16</i>				<i>1</i>				<i>X</i>		<i>8-26-21 2:15PM</i>		<i>X X X</i>											
<i>04 FL #81 @ 7'</i>				<i>1</i>				<i>X</i>		<i>8-26-21 2:15PM</i>		<i>X X X</i>											
<i>05 FL #83 @ 7'</i>				<i>1</i>				<i>X</i>		<i>8-26-21 2:15PM</i>		<i>X X X</i>											
<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:		Received By:				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Phone #:									
				Time:						Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Fax #:									
										REMARKS:													
Relinquished By:				Date:		Received By:				<p>Please email results to pm@etechenv.com.</p>													
				Time:																			
Delivered By: (Circle One)				Sample Condition		CHECKED BY:																	
<input checked="" type="radio"/> Sampler - <input type="radio"/> UPS - <input type="radio"/> Bus - <input type="radio"/> Other:				<input type="checkbox"/> Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		<i>4.42</i> <input type="checkbox"/> Yes <input type="checkbox"/> No				<i>CSH #113</i>													

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

August 31, 2021

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: PADUCA 7/6 A2ED FED COM 1H

Enclosed are the results of analyses for samples received by the laboratory on 08/27/21 16:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/27/2021
 Reported: 08/31/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 08/27/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL # 99 @ 12' (H212331-01)

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	08/30/2021	ND	1.91	95.3	2.00	5.65		
Toluene*	<0.050	0.050	08/30/2021	ND	1.94	97.1	2.00	4.97		
Ethylbenzene*	<0.050	0.050	08/30/2021	ND	1.86	93.2	2.00	4.74		
Total Xylenes*	<0.150	0.150	08/30/2021	ND	5.72	95.4	6.00	4.01		
Total BTEX	<0.300	0.300	08/30/2021	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	288	16.0	08/30/2021	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	08/31/2021	ND	198	99.1	200	4.89	
DRO >C10-C28*	<10.0	10.0	08/31/2021	ND	220	110	200	7.41	
EXT DRO >C28-C36	<10.0	10.0	08/31/2021	ND					

Surrogate: 1-Chlorooctane 88.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 80.1 % 38.9-142

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/27/2021
 Reported: 08/31/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 08/27/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL # 102 @ 9' (H212331-02)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/30/2021	ND	1.91	95.3	2.00	5.65	
Toluene*	<0.050	0.050	08/30/2021	ND	1.94	97.1	2.00	4.97	
Ethylbenzene*	<0.050	0.050	08/30/2021	ND	1.86	93.2	2.00	4.74	
Total Xylenes*	<0.150	0.150	08/30/2021	ND	5.72	95.4	6.00	4.01	
Total BTEx	<0.300	0.300	08/30/2021	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	96.0	16.0	08/30/2021	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	08/31/2021	ND	198	99.1	200	4.89	
DRO >C10-C28*	25.7	10.0	08/31/2021	ND	220	110	200	7.41	
EXT DRO >C28-C36	<10.0	10.0	08/31/2021	ND					

Surrogate: 1-Chlorooctane 79.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 72.7 % 38.9-142

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: 08/27/2021
 Reported: 08/31/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 08/27/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SSW #12 (H212331-03)

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	08/30/2021	ND	1.91	95.3	2.00	5.65	
Toluene*	<0.050	0.050	08/30/2021	ND	1.94	97.1	2.00	4.97	
Ethylbenzene*	<0.050	0.050	08/30/2021	ND	1.86	93.2	2.00	4.74	
Total Xylenes*	<0.150	0.150	08/30/2021	ND	5.72	95.4	6.00	4.01	
Total BTEX	<0.300	0.300	08/30/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.1 % 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	08/30/2021	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	08/31/2021	ND	198	99.1	200	4.89	
DRO >C10-C28*	<10.0	10.0	08/31/2021	ND	220	110	200	7.41	
EXT DRO >C28-C36	<10.0	10.0	08/31/2021	ND					

Surrogate: 1-Chlorooctane 76.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 68.9 % 38.9-142

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: 08/27/2021
 Reported: 08/31/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 08/27/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL # 97 @ 15' (H212331-04)

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	08/30/2021	ND	1.91	95.3	2.00	5.65	
Toluene*	<0.050	0.050	08/30/2021	ND	1.94	97.1	2.00	4.97	
Ethylbenzene*	<0.050	0.050	08/30/2021	ND	1.86	93.2	2.00	4.74	
Total Xylenes*	<0.150	0.150	08/30/2021	ND	5.72	95.4	6.00	4.01	
Total BTX	<0.300	0.300	08/30/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	08/30/2021	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	08/31/2021	ND	198	99.1	200	4.89	
DRO >C10-C28*	<10.0	10.0	08/31/2021	ND	220	110	200	7.41	
EXT DRO >C28-C36	<10.0	10.0	08/31/2021	ND					

Surrogate: 1-Chlorooctane 82.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 75.6 % 38.9-142

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: 08/27/2021
 Reported: 08/31/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 08/27/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NSW #7 (H212331-05)

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	08/30/2021	ND	1.91	95.3	2.00	5.65		
Toluene*	<0.050	0.050	08/30/2021	ND	1.94	97.1	2.00	4.97		
Ethylbenzene*	<0.050	0.050	08/30/2021	ND	1.86	93.2	2.00	4.74		
Total Xylenes*	<0.150	0.150	08/30/2021	ND	5.72	95.4	6.00	4.01		
Total BTEx	<0.300	0.300	08/30/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	08/30/2021	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	08/31/2021	ND	198	99.1	200	4.89	
DRO >C10-C28*	<10.0	10.0	08/31/2021	ND	220	110	200	7.41	
EXT DRO >C28-C36	<10.0	10.0	08/31/2021	ND					

Surrogate: 1-Chlorooctane 74.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 67.1 % 38.9-142

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

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

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



• CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 8 of 8

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST											
Project Manager: Joel Lowry				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: P.O. Box 301				Company: Mewbourne															
City: Lovington State: NM Zip: 88260				Attn:															
Phone #: (575) 396-2378 Fax #: (575) 396-1429				Address:															
Project #: 1442C Project Owner:				City:															
Project Name: Paduca A2ED Fed. Com I.H				State: Zip:															
Project Location:				Phone #:															
Sampler Name: Aaron Rios				Fax #:															

R LAB USE ONLY		G/RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.		SAMPLING		DATE	TIME													
Lab I.D.	Sample I.D.			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :																
H212331																												
1	FL#99 @ 12'		X			X				X			8-27-21	9:45 AM		X	X	X										
2	FL#102 @ 9'		X			X				X			8-27-21	9:45 AM		X	X	X										
3	SSW#12		X			X				X			8-27-21	10:50 AM		X	X	X										
4	FL#97 @ 15'		X			X				X			8-27-21	2:00 PM		X	X	X										
5	SSW#7		X			X				X			8-27-21	2:00 PM		X	X	X										

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

Relinquished By:		Date:		Received By:		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
		Time:				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:	
						REMARKS:			

Relinquished By:		Date:		Received By:		CHECKED BY:	
		Time:				(Initials)	

Delivered By: (Circle One) Sample - UPS - Bus - Other:

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

Please email results to pm@etechenv.com.

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

September 02, 2021

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: PADUCA 7/6 A2ED FED COM 1H

Enclosed are the results of analyses for samples received by the laboratory on 08/30/21 16:55.

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.

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: 08/30/2021
 Reported: 09/02/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 08/30/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL # 100 @ 18' (H212349-01)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/31/2021	ND	1.78	88.8	2.00	5.83	
Toluene*	<0.050	0.050	08/31/2021	ND	1.93	96.7	2.00	5.77	
Ethylbenzene*	<0.050	0.050	08/31/2021	ND	1.88	94.1	2.00	5.84	
Total Xylenes*	<0.150	0.150	08/31/2021	ND	5.68	94.6	6.00	5.36	
Total BTX	<0.300	0.300	08/31/2021	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	08/31/2021	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/31/2021	ND	196	98.1	200	5.74	
DRO >C10-C28*	<10.0	10.0	08/31/2021	ND	220	110	200	9.71	
EXT DRO >C28-C36	<10.0	10.0	08/31/2021	ND					

Surrogate: 1-Chlorooctane 83.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 75.7 % 38.9-142

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: 08/30/2021
 Reported: 09/02/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 08/30/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL # 101 @ 12' (H212349-02)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/31/2021	ND	1.78	88.8	2.00	5.83		
Toluene*	<0.050	0.050	08/31/2021	ND	1.93	96.7	2.00	5.77		
Ethylbenzene*	<0.050	0.050	08/31/2021	ND	1.88	94.1	2.00	5.84		
Total Xylenes*	<0.150	0.150	08/31/2021	ND	5.68	94.6	6.00	5.36		
Total BTEX	<0.300	0.300	08/31/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 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	08/31/2021	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/31/2021	ND	196	98.1	200	5.74	
DRO >C10-C28*	14.9	10.0	08/31/2021	ND	220	110	200	9.71	
EXT DRO >C28-C36	<10.0	10.0	08/31/2021	ND					

Surrogate: 1-Chlorooctane 86.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 80.5 % 38.9-142

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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: 08/30/2021
 Reported: 09/02/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 08/30/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL # 98 @ 11' (H212349-03)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/31/2021	ND	1.78	88.8	2.00	5.83	
Toluene*	<0.050	0.050	08/31/2021	ND	1.93	96.7	2.00	5.77	
Ethylbenzene*	<0.050	0.050	08/31/2021	ND	1.88	94.1	2.00	5.84	
Total Xylenes*	<0.150	0.150	08/31/2021	ND	5.68	94.6	6.00	5.36	
Total BTX	<0.300	0.300	08/31/2021	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	208	16.0	08/31/2021	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/31/2021	ND	196	98.1	200	5.74	
DRO >C10-C28*	<10.0	10.0	08/31/2021	ND	220	110	200	9.71	
EXT DRO >C28-C36	<10.0	10.0	08/31/2021	ND					

Surrogate: 1-Chlorooctane 92.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 83.1 % 38.9-142

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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: 08/30/2021
 Reported: 09/02/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 08/30/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL # 103 @ 9' (H212349-04)

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	09/01/2021	ND	2.05	103	2.00	2.54	
Toluene*	<0.050	0.050	09/01/2021	ND	2.08	104	2.00	1.73	
Ethylbenzene*	<0.050	0.050	09/01/2021	ND	2.06	103	2.00	2.60	
Total Xylenes*	<0.150	0.150	09/01/2021	ND	6.37	106	6.00	2.17	
Total BTEx	<0.300	0.300	09/01/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	08/31/2021	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/31/2021	ND	196	98.1	200	5.74	
DRO >C10-C28*	80.1	10.0	08/31/2021	ND	220	110	200	9.71	
EXT DRO >C28-C36	<10.0	10.0	08/31/2021	ND					

Surrogate: 1-Chlorooctane 81.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 77.3 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

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 "C. 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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

September 03, 2021

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: PADUCA 7/6 A2ED FED COM 1H

Enclosed are the results of analyses for samples received by the laboratory on 08/31/21 16:30.

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.

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: 08/31/2021
 Reported: 09/03/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 08/31/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NSW #8 (H212365-01)

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	09/02/2021	ND	1.98	99.2	2.00	1.48	
Toluene*	<0.050	0.050	09/02/2021	ND	1.97	98.6	2.00	4.08	
Ethylbenzene*	<0.050	0.050	09/02/2021	ND	2.00	100	2.00	7.63	
Total Xylenes*	<0.150	0.150	09/02/2021	ND	6.15	103	6.00	7.70	
Total BTEx	<0.300	0.300	09/02/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 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	32.0	16.0	09/01/2021	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	09/01/2021	ND	197	98.5	200	2.24	
DRO >C10-C28*	<10.0	10.0	09/01/2021	ND	213	107	200	2.75	
EXT DRO >C28-C36	<10.0	10.0	09/01/2021	ND					

Surrogate: 1-Chlorooctane 83.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 75.3 % 38.9-142

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/31/2021
 Reported: 09/03/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 08/31/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SSW #13 (H212365-02)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/02/2021	ND	1.98	99.2	2.00	1.48	
Toluene*	<0.050	0.050	09/02/2021	ND	1.97	98.6	2.00	4.08	
Ethylbenzene*	<0.050	0.050	09/02/2021	ND	2.00	100	2.00	7.63	
Total Xylenes*	<0.150	0.150	09/02/2021	ND	6.15	103	6.00	7.70	
Total BTX	<0.300	0.300	09/02/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	09/01/2021	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	09/02/2021	ND	197	98.5	200	2.24	
DRO >C10-C28*	<10.0	10.0	09/02/2021	ND	213	107	200	2.75	
EXT DRO >C28-C36	<10.0	10.0	09/02/2021	ND					

Surrogate: 1-Chlorooctane 87.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 79.7 % 38.9-142

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/31/2021
 Reported: 09/03/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 08/31/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL # 104 @ 10' (H212365-03)

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	09/02/2021	ND	1.98	99.2	2.00	1.48	
Toluene*	<0.050	0.050	09/02/2021	ND	1.97	98.6	2.00	4.08	
Ethylbenzene*	<0.050	0.050	09/02/2021	ND	2.00	100	2.00	7.63	
Total Xylenes*	<0.150	0.150	09/02/2021	ND	6.15	103	6.00	7.70	
Total BTX	<0.300	0.300	09/02/2021	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	256	16.0	09/01/2021	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	09/02/2021	ND	197	98.5	200	2.24	
DRO >C10-C28*	273	10.0	09/02/2021	ND	213	107	200	2.75	
EXT DRO >C28-C36	35.9	10.0	09/02/2021	ND					

Surrogate: 1-Chlorooctane 93.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 89.2 % 38.9-142

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: 08/31/2021
 Reported: 09/03/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 08/31/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL # 105 @ 8' (H212365-04)

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	09/02/2021	ND	1.98	99.2	2.00	1.48	
Toluene*	<0.050	0.050	09/02/2021	ND	1.97	98.6	2.00	4.08	
Ethylbenzene*	<0.050	0.050	09/02/2021	ND	2.00	100	2.00	7.63	
Total Xylenes*	<0.150	0.150	09/02/2021	ND	6.15	103	6.00	7.70	
Total BTX	<0.300	0.300	09/02/2021	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	09/01/2021	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	09/02/2021	ND	197	98.5	200	2.24	
DRO >C10-C28*	<10.0	10.0	09/02/2021	ND	213	107	200	2.75	
EXT DRO >C28-C36	<10.0	10.0	09/02/2021	ND					

Surrogate: 1-Chlorooctane 87.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 79.0 % 38.9-142

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: 08/31/2021
 Reported: 09/03/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 08/31/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL # 106 @ 9' (H212365-05)

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	09/02/2021	ND	1.98	99.2	2.00	1.48	
Toluene*	<0.050	0.050	09/02/2021	ND	1.97	98.6	2.00	4.08	
Ethylbenzene*	<0.050	0.050	09/02/2021	ND	2.00	100	2.00	7.63	
Total Xylenes*	<0.150	0.150	09/02/2021	ND	6.15	103	6.00	7.70	
Total BTX	<0.300	0.300	09/02/2021	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	09/01/2021	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	09/02/2021	ND	197	98.5	200	2.24	
DRO >C10-C28*	144	10.0	09/02/2021	ND	213	107	200	2.75	
EXT DRO >C28-C36	18.2	10.0	09/02/2021	ND					

Surrogate: 1-Chlorooctane 88.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 80.2 % 38.9-142

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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: 08/31/2021
 Reported: 09/03/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 08/31/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL # 107 @ 8' (H212365-06)

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	09/02/2021	ND	1.98	99.2	2.00	1.48		
Toluene*	<0.050	0.050	09/02/2021	ND	1.97	98.6	2.00	4.08		
Ethylbenzene*	<0.050	0.050	09/02/2021	ND	2.00	100	2.00	7.63		
Total Xylenes*	<0.150	0.150	09/02/2021	ND	6.15	103	6.00	7.70		
Total BTEx	<0.300	0.300	09/02/2021	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	160	16.0	09/01/2021	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	09/02/2021	ND	211	105	200	2.80	
DRO >C10-C28*	18.0	10.0	09/02/2021	ND	204	102	200	2.48	
EXT DRO >C28-C36	<10.0	10.0	09/02/2021	ND					

Surrogate: 1-Chlorooctane 84.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 82.0 % 38.9-142

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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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																							
Project Manager:				P.O. #:				Chloride TPH (8015M) BTEX (8021B)																							
Address: P.O. Box 301				Company: <i>Mewbourne</i>																											
City: Lovington		State: NM Zip: 88260		Attn:																											
Phone #: (575) 396-2378		Fax #: (575) 396-1429		Address:																											
Project #: <i>14420</i>		Project Owner:		City:																											
Project Name: <i>Paduca 7-6 A2ED Fed. Com 1. ft</i>				State: Zip:																											
Project Location:				Phone #:																											
Sampler Name: <i>Aaron Rios</i>				Fax #:																											
R LAB USE ONLY				MATRIX				PRESERV.				SAMPLING																			
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME															
<i>H212365</i>		<i>NSW #8</i>		<i>1</i>	<i>1</i>		<i>X</i>					<i>X</i>	<i>X</i>	<i>X</i>	<i>8-31-21</i>	<i>7:30 AM</i>	<i>X</i>	<i>X</i>	<i>X</i>												
<i>SSW #13</i>		<i>1</i>	<i>1</i>		<i>X</i>							<i>X</i>	<i>X</i>	<i>X</i>	<i>8-31-21</i>	<i>7:30 AM</i>	<i>X</i>	<i>X</i>	<i>X</i>												
<i>FL #104 @ 10'</i>		<i>1</i>	<i>1</i>		<i>X</i>							<i>X</i>	<i>X</i>	<i>X</i>	<i>8-31-21</i>	<i>10:00 AM</i>	<i>X</i>	<i>X</i>	<i>X</i>												
<i>FL #105 @ 8'</i>		<i>1</i>	<i>1</i>		<i>X</i>							<i>X</i>	<i>X</i>	<i>X</i>	<i>8-31-21</i>	<i>11:45 AM</i>	<i>X</i>	<i>X</i>	<i>X</i>												
<i>FL #106 @ 9'</i>		<i>1</i>	<i>1</i>		<i>X</i>							<i>X</i>	<i>X</i>	<i>X</i>	<i>8-31-21</i>	<i>2:30 PM</i>	<i>X</i>	<i>X</i>	<i>X</i>												
<i>FL #107 @ 8'</i>		<i>1</i>	<i>1</i>		<i>X</i>							<i>X</i>	<i>X</i>	<i>X</i>	<i>8-31-21</i>	<i>2:30 PM</i>	<i>X</i>	<i>X</i>	<i>X</i>												
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Relinquished By:				Date:				Received By:				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Phone #:															
				Time:								Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Fax #:															
												REMARKS:																			
Relinquished By:				Date:				Received By:				Please email results to pm@etechenv.com .																			
<i>Aaron Rios</i>				<i>8-31-21</i>				<i>Jamara Oldakel</i>																							
Time:				Time:																											
Delivered By: (Circle One)				Sample Condition				CHECKED BY:																							
<input checked="" type="checkbox"/> Sampler - <input type="checkbox"/> UPS - <input type="checkbox"/> Bus - <input type="checkbox"/> Other:				<input type="checkbox"/> Cool <input type="checkbox"/> Intact				<input type="checkbox"/> Yes <input type="checkbox"/> No				<i>JO</i>																			
<i>4.4c #113</i>																															



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

September 07, 2021

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: PADUCA 7/6 A2ED FED COM 1H

Enclosed are the results of analyses for samples received by the laboratory on 09/01/21 16:25.

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.

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:	09/01/2021	Sampling Date:	09/01/2021
Reported:	09/07/2021	Sampling Type:	Soil
Project Name:	PADUCA 7/6 A2ED FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	14420	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: NSW #9 (H212379-01)

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	09/02/2021	ND	1.98	99.2	2.00	1.48	
Toluene*	<0.050	0.050	09/02/2021	ND	1.97	98.6	2.00	4.08	
Ethylbenzene*	<0.050	0.050	09/02/2021	ND	2.00	100	2.00	7.63	
Total Xylenes*	<0.150	0.150	09/02/2021	ND	6.15	103	6.00	7.70	
Total BTX	<0.300	0.300	09/02/2021	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	160	16.0	09/02/2021	ND	432	108	400	0.00	

TPH 8015M			mg/kg		Analyzed By: CK				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/02/2021	ND	188	94.2	200	2.57	
DRO >C10-C28*	<10.0	10.0	09/02/2021	ND	203	101	200	2.48	
EXT DRO >C28-C36	<10.0	10.0	09/02/2021	ND					

Surrogate: 1-Chlorooctane 90.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 90.2 % 38.9-142

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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: 09/01/2021
 Reported: 09/07/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 09/01/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SSW #14 (H212379-02)

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	09/02/2021	ND	1.98	99.2	2.00	1.48		
Toluene*	<0.050	0.050	09/02/2021	ND	1.97	98.6	2.00	4.08		
Ethylbenzene*	<0.050	0.050	09/02/2021	ND	2.00	100	2.00	7.63		
Total Xylenes*	<0.150	0.150	09/02/2021	ND	6.15	103	6.00	7.70		
Total BTEx	<0.300	0.300	09/02/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	09/02/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/02/2021	ND	188	94.2	200	2.57	
DRO >C10-C28*	<10.0	10.0	09/02/2021	ND	203	101	200	2.48	
EXT DRO >C28-C36	<10.0	10.0	09/02/2021	ND					

Surrogate: 1-Chlorooctane 89.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 86.3 % 38.9-142

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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: 09/01/2021
 Reported: 09/07/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 09/01/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL # 108 @ 8' (H212379-03)

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	09/02/2021	ND	1.98	99.2	2.00	1.48	
Toluene*	<0.050	0.050	09/02/2021	ND	1.97	98.6	2.00	4.08	
Ethylbenzene*	<0.050	0.050	09/02/2021	ND	2.00	100	2.00	7.63	
Total Xylenes*	<0.150	0.150	09/02/2021	ND	6.15	103	6.00	7.70	
Total BTX	<0.300	0.300	09/02/2021	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	09/02/2021	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/02/2021	ND	188	94.2	200	2.57	
DRO >C10-C28*	208	10.0	09/02/2021	ND	203	101	200	2.48	
EXT DRO >C28-C36	27.2	10.0	09/02/2021	ND					

Surrogate: 1-Chlorooctane 83.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 87.9 % 38.9-142

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: 09/01/2021
 Reported: 09/07/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 09/01/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL # 109 @ 13' (H212379-04)

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	09/02/2021	ND	1.98	99.2	2.00	1.48	
Toluene*	<0.050	0.050	09/02/2021	ND	1.97	98.6	2.00	4.08	
Ethylbenzene*	<0.050	0.050	09/02/2021	ND	2.00	100	2.00	7.63	
Total Xylenes*	<0.150	0.150	09/02/2021	ND	6.15	103	6.00	7.70	
Total BTX	<0.300	0.300	09/02/2021	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	160	16.0	09/02/2021	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/02/2021	ND	188	94.2	200	2.57	
DRO >C10-C28*	15.8	10.0	09/02/2021	ND	203	101	200	2.48	
EXT DRO >C28-C36	<10.0	10.0	09/02/2021	ND					

Surrogate: 1-Chlorooctane 82.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 76.9 % 38.9-142

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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: 09/01/2021
 Reported: 09/07/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 09/01/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL # 110 @ 7' (H212379-05)

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	09/02/2021	ND	1.98	99.2	2.00	1.48		
Toluene*	<0.050	0.050	09/02/2021	ND	1.97	98.6	2.00	4.08		
Ethylbenzene*	<0.050	0.050	09/02/2021	ND	2.00	100	2.00	7.63		
Total Xylenes*	<0.150	0.150	09/02/2021	ND	6.15	103	6.00	7.70		
Total BTEx	<0.300	0.300	09/02/2021	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	144	16.0	09/02/2021	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/02/2021	ND	188	94.2	200	2.57	
DRO >C10-C28*	<10.0	10.0	09/02/2021	ND	203	101	200	2.48	
EXT DRO >C28-C36	<10.0	10.0	09/02/2021	ND					

Surrogate: 1-Chlorooctane 90.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 84.4 % 38.9-142

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: 09/01/2021
 Reported: 09/07/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 09/01/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL # 111 @ 7' (H212379-06)

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	09/02/2021	ND	1.98	99.2	2.00	1.48	
Toluene*	<0.050	0.050	09/02/2021	ND	1.97	98.6	2.00	4.08	
Ethylbenzene*	<0.050	0.050	09/02/2021	ND	2.00	100	2.00	7.63	
Total Xylenes*	<0.150	0.150	09/02/2021	ND	6.15	103	6.00	7.70	
Total BTX	<0.300	0.300	09/02/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	09/02/2021	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/02/2021	ND	188	94.2	200	2.57	
DRO >C10-C28*	170	10.0	09/02/2021	ND	203	101	200	2.48	
EXT DRO >C28-C36	23.0	10.0	09/02/2021	ND					

Surrogate: 1-Chlorooctane 82.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 82.5 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



• CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

September 08, 2021

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: PADUCA 7/6 A2ED FED COM 1H

Enclosed are the results of analyses for samples received by the laboratory on 09/02/21 16:10.

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.

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: 09/02/2021
 Reported: 09/08/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 09/02/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL # 112 @ 14' (H212406-01)

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	09/03/2021	ND	1.98	99.2	2.00	9.62	
Toluene*	<0.050	0.050	09/03/2021	ND	2.00	100	2.00	9.33	QR-03
Ethylbenzene*	<0.050	0.050	09/03/2021	ND	2.00	100	2.00	6.56	QR-03
Total Xylenes*	<0.150	0.150	09/03/2021	ND	6.15	103	6.00	6.87	QR-03
Total BTX	<0.300	0.300	09/03/2021	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	80.0	16.0	09/07/2021	ND	432	108	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	09/03/2021	ND	214	107	200	0.547	
DRO >C10-C28*	<10.0	10.0	09/03/2021	ND	211	106	200	0.939	
EXT DRO >C28-C36	<10.0	10.0	09/03/2021	ND					

Surrogate: 1-Chlorooctane 86.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 81.7 % 38.9-142

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: 09/02/2021
 Reported: 09/08/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 09/02/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL # 113 @ 14' (H212406-02)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/03/2021	ND	1.98	99.2	2.00	9.62	
Toluene*	<0.050	0.050	09/03/2021	ND	2.00	100	2.00	9.33	
Ethylbenzene*	<0.050	0.050	09/03/2021	ND	2.00	100	2.00	6.56	
Total Xylenes*	<0.150	0.150	09/03/2021	ND	6.15	103	6.00	6.87	
Total BTX	<0.300	0.300	09/03/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	09/07/2021	ND	432	108	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	09/03/2021	ND	214	107	200	0.547	
DRO >C10-C28*	<10.0	10.0	09/03/2021	ND	211	106	200	0.939	
EXT DRO >C28-C36	<10.0	10.0	09/03/2021	ND					

Surrogate: 1-Chlorooctane 85.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 80.9 % 38.9-142

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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: 09/02/2021
 Reported: 09/08/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 09/02/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL # 114 @ 8' (H212406-03)

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	09/03/2021	ND	1.98	99.2	2.00	9.62	
Toluene*	<0.050	0.050	09/03/2021	ND	2.00	100	2.00	9.33	
Ethylbenzene*	<0.050	0.050	09/03/2021	ND	2.00	100	2.00	6.56	
Total Xylenes*	<0.150	0.150	09/03/2021	ND	6.15	103	6.00	6.87	
Total BTX	<0.300	0.300	09/03/2021	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	09/07/2021	ND	432	108	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	09/03/2021	ND	214	107	200	0.547	
DRO >C10-C28*	11.3	10.0	09/03/2021	ND	211	106	200	0.939	
EXT DRO >C28-C36	<10.0	10.0	09/03/2021	ND					

Surrogate: 1-Chlorooctane 84.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 79.5 % 38.9-142

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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: 09/02/2021
 Reported: 09/08/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 09/02/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: ESW #17 (H212406-04)

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	09/03/2021	ND	1.98	99.2	2.00	9.62	
Toluene*	<0.050	0.050	09/03/2021	ND	2.00	100	2.00	9.33	
Ethylbenzene*	<0.050	0.050	09/03/2021	ND	2.00	100	2.00	6.56	
Total Xylenes*	<0.150	0.150	09/03/2021	ND	6.15	103	6.00	6.87	
Total BTX	<0.300	0.300	09/03/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	48.0	16.0	09/07/2021	ND	432	108	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	09/03/2021	ND	214	107	200	0.547	
DRO >C10-C28*	<10.0	10.0	09/03/2021	ND	211	106	200	0.939	
EXT DRO >C28-C36	<10.0	10.0	09/03/2021	ND					

Surrogate: 1-Chlorooctane 93.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 88.5 % 38.9-142

Cardinal Laboratories

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

Cardinal Laboratories

*=Accredited Analyte

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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

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



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

September 13, 2021

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: PADUCA 7/6 A2ED FED COM 1H

Enclosed are the results of analyses for samples received by the laboratory on 09/07/21 16:58.

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.

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: 09/07/2021
 Reported: 09/13/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 09/07/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL # 106 @ 10' (H212442-01)

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/10/2021	ND	228	114	200	7.73	
DRO >C10-C28*	<10.0	10.0	09/10/2021	ND	232	116	200	10.6	
EXT DRO >C28-C36	<10.0	10.0	09/10/2021	ND					
<hr/>									
Surrogate: 1-Chlorooctane	95.9 %	44.3-133							
Surrogate: 1-Chlorooctadecane	98.2 %	38.9-142							

Sample ID: FL # 104 @ 11' (H212442-02)

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/10/2021	ND	228	114	200	7.73	
DRO >C10-C28*	39.5	10.0	09/10/2021	ND	232	116	200	10.6	
EXT DRO >C28-C36	<10.0	10.0	09/10/2021	ND					
<hr/>									
Surrogate: 1-Chlorooctane	96.7 %	44.3-133							
Surrogate: 1-Chlorooctadecane	101 %	38.9-142							

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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: 09/07/2021
 Reported: 09/13/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 09/07/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL # 111 @ 8' (H212442-03)

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/10/2021	ND	228	114	200	7.73	
DRO >C10-C28*	42.6	10.0	09/10/2021	ND	232	116	200	10.6	
EXT DRO >C28-C36	<10.0	10.0	09/10/2021	ND					
Surrogate: 1-Chlorooctane	98.0 %	44.3-133							
Surrogate: 1-Chlorooctadecane	102 %	38.9-142							

Sample ID: FL # 108 @ 9' (H212442-04)

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/10/2021	ND	228	114	200	7.73	
DRO >C10-C28*	<10.0	10.0	09/10/2021	ND	232	116	200	10.6	
EXT DRO >C28-C36	<10.0	10.0	09/10/2021	ND					
Surrogate: 1-Chlorooctane	92.6 %	44.3-133							
Surrogate: 1-Chlorooctadecane	93.6 %	38.9-142							

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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



ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

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



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

September 14, 2021

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: PADUCA 7/6 A2ED FED COM 1H

Enclosed are the results of analyses for samples received by the laboratory on 09/09/21 16:25.

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.

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 "Coley 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: 09/09/2021
 Reported: 09/14/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 09/09/2021
 Sampling Type: Sludge
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SSW #3 (H212497-01)

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	09/10/2021	ND	2.02	101	2.00	7.85	
Toluene*	<0.050	0.050	09/10/2021	ND	2.02	101	2.00	8.88	
Ethylbenzene*	<0.050	0.050	09/10/2021	ND	2.04	102	2.00	9.07	
Total Xylenes*	<0.150	0.150	09/10/2021	ND	6.24	104	6.00	8.24	
Total BTX	<0.300	0.300	09/10/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	48.0	16.0	09/13/2021	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	09/11/2021	ND	218	109	200	3.95	
DRO >C10-C28*	<10.0	10.0	09/11/2021	ND	220	110	200	3.59	
EXT DRO >C28-C36	<10.0	10.0	09/11/2021	ND					

Surrogate: 1-Chlorooctane 99.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 103 % 38.9-142

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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: 09/09/2021
 Reported: 09/14/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 09/09/2021
 Sampling Type: Sludge
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: WSW #12 (H212497-02)

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	09/10/2021	ND	2.02	101	2.00	7.85	
Toluene*	<0.050	0.050	09/10/2021	ND	2.02	101	2.00	8.88	
Ethylbenzene*	<0.050	0.050	09/10/2021	ND	2.04	102	2.00	9.07	
Total Xylenes*	<0.150	0.150	09/10/2021	ND	6.24	104	6.00	8.24	
Total BTEx	<0.300	0.300	09/10/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	48.0	16.0	09/13/2021	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	09/11/2021	ND	218	109	200	3.95	
DRO >C10-C28*	<10.0	10.0	09/11/2021	ND	220	110	200	3.59	
EXT DRO >C28-C36	<10.0	10.0	09/11/2021	ND					

Surrogate: 1-Chlorooctane 101 % 44.3-133

Surrogate: 1-Chlorooctadecane 105 % 38.9-142

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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: 09/09/2021
 Reported: 09/14/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 09/09/2021
 Sampling Type: Sludge
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: ESW #9 (H212497-03)

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	09/10/2021	ND	2.02	101	2.00	7.85	
Toluene*	<0.050	0.050	09/10/2021	ND	2.02	101	2.00	8.88	
Ethylbenzene*	<0.050	0.050	09/10/2021	ND	2.04	102	2.00	9.07	
Total Xylenes*	<0.150	0.150	09/10/2021	ND	6.24	104	6.00	8.24	
Total BTX	<0.300	0.300	09/10/2021	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	48.0	16.0	09/13/2021	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	09/11/2021	ND	218	109	200	3.95	
DRO >C10-C28*	<10.0	10.0	09/11/2021	ND	220	110	200	3.59	
EXT DRO >C28-C36	<10.0	10.0	09/11/2021	ND					

Surrogate: 1-Chlorooctane 95.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 99.8 % 38.9-142

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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: 09/09/2021
 Reported: 09/14/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 09/09/2021
 Sampling Type: Sludge
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SSW #11 (H212497-04)

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	09/10/2021	ND	2.02	101	2.00	7.85	
Toluene*	<0.050	0.050	09/10/2021	ND	2.02	101	2.00	8.88	
Ethylbenzene*	<0.050	0.050	09/10/2021	ND	2.04	102	2.00	9.07	
Total Xylenes*	<0.150	0.150	09/10/2021	ND	6.24	104	6.00	8.24	
Total BTEx	<0.300	0.300	09/10/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	64.0	16.0	09/13/2021	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	09/11/2021	ND	218	109	200	3.95	
DRO >C10-C28*	<10.0	10.0	09/11/2021	ND	220	110	200	3.59	
EXT DRO >C28-C36	<10.0	10.0	09/11/2021	ND					

Surrogate: 1-Chlorooctane 95.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 99.8 % 38.9-142

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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: 09/09/2021
 Reported: 09/14/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 09/09/2021
 Sampling Type: Sludge
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: ESW #3 (H212497-05)

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	09/10/2021	ND	1.88	94.0	2.00	0.282	
Toluene*	<0.050	0.050	09/10/2021	ND	2.05	103	2.00	0.466	
Ethylbenzene*	<0.050	0.050	09/10/2021	ND	2.03	102	2.00	0.0987	
Total Xylenes*	<0.150	0.150	09/10/2021	ND	6.14	102	6.00	0.315	
Total BTX	<0.300	0.300	09/10/2021	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	48.0	16.0	09/13/2021	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	09/11/2021	ND	218	109	200	3.95	
DRO >C10-C28*	<10.0	10.0	09/11/2021	ND	220	110	200	3.59	
EXT DRO >C28-C36	<10.0	10.0	09/11/2021	ND					

Surrogate: 1-Chlorooctane 102 % 44.3-133

Surrogate: 1-Chlorooctadecane 105 % 38.9-142

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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: 09/09/2021
 Reported: 09/14/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 09/09/2021
 Sampling Type: Sludge
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL #41 @ 9' (H212497-06)

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	09/10/2021	ND	1.88	94.0	2.00	0.282	
Toluene*	<0.050	0.050	09/10/2021	ND	2.05	103	2.00	0.466	
Ethylbenzene*	<0.050	0.050	09/10/2021	ND	2.03	102	2.00	0.0987	
Total Xylenes*	<0.150	0.150	09/10/2021	ND	6.14	102	6.00	0.315	
Total BTX	<0.300	0.300	09/10/2021	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	240	16.0	09/13/2021	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	09/11/2021	ND	218	109	200	3.95	
DRO >C10-C28*	31.5	10.0	09/11/2021	ND	220	110	200	3.59	
EXT DRO >C28-C36	<10.0	10.0	09/11/2021	ND					

Surrogate: 1-Chlorooctane 95.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 101 % 38.9-142

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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: 09/09/2021
 Reported: 09/14/2021
 Project Name: PADUCA 7/6 A2ED FED COM 1H
 Project Number: 14420
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 09/09/2021
 Sampling Type: Sludge
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SSW #15 (H212497-07)

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	09/10/2021	ND	1.88	94.0	2.00	0.282	
Toluene*	<0.050	0.050	09/10/2021	ND	2.05	103	2.00	0.466	
Ethylbenzene*	<0.050	0.050	09/10/2021	ND	2.03	102	2.00	0.0987	
Total Xylenes*	<0.150	0.150	09/10/2021	ND	6.14	102	6.00	0.315	
Total BTX	<0.300	0.300	09/10/2021	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	240	16.0	09/13/2021	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	09/11/2021	ND	218	109	200	3.95	
DRO >C10-C28*	41.3	10.0	09/11/2021	ND	220	110	200	3.59	
EXT DRO >C28-C36	10.6	10.0	09/11/2021	ND					

Surrogate: 1-Chlorooctane 94.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 100 % 38.9-142

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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", is written over a light blue horizontal line.

Celey D. Keene, Lab Director/Quality Manager



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 10 of 10

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																			
Project Manager: <i>Joel Lowry</i>				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																			
Address: P.O. Box 301				Company: <i>Newbourne</i>																							
City: <i>Levington Hobbs</i> State: NM Zip: <i>88240</i>				Attn:																							
Phone #: (575) 396-2378 Fax #: (575) 396-1428				Address:																							
Project #: <i>14420</i> Project Owner:				City:																							
Project Name: <i>Paduca 7-6 A2ED Fed. Com 1.H</i>				State: Zip:																							
Project Location:				Phone #:																							
Sampler Name: <i>Aaron Rios</i>				Fax #:																							
FOR LAB USE ONLY						MATRIX		PRESERV.		SAMPLING																	
Lab I.D.	Sample I.D.	(G/RAB OR (C)COMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME													
<i>H212497</i>																											
	<i>1 SSW #3</i>		<i>1</i>			<i>X</i>				<i>X</i>			<i>9-9-21</i>	<i>8:00am</i>	<i>X</i>	<i>X</i>	<i>X</i>										
	<i>2 WSW #12</i>		<i>1</i>			<i>X</i>				<i>X</i>			<i>9-9-21</i>	<i>8:05am</i>	<i>X</i>	<i>X</i>	<i>X</i>										
	<i>3 ESW #9</i>		<i>1</i>			<i>X</i>				<i>X</i>			<i>9-9-21</i>	<i>10:20am</i>	<i>X</i>	<i>X</i>	<i>X</i>										
	<i>4 SSW #11</i>		<i>1</i>			<i>X</i>				<i>X</i>			<i>9-9-21</i>	<i>10:35am</i>	<i>X</i>	<i>X</i>	<i>X</i>										
	<i>5 ESW #3</i>		<i>1</i>			<i>X</i>				<i>X</i>			<i>9-9-21</i>	<i>11:00am</i>	<i>X</i>	<i>X</i>	<i>X</i>										
	<i>6 EL #41 @ 9'</i>		<i>1</i>			<i>X</i>				<i>X</i>			<i>9-9-21</i>	<i>11:15am</i>	<i>X</i>	<i>X</i>	<i>X</i>										
	<i>7 SSW #15</i>		<i>1</i>			<i>X</i>				<i>X</i>			<i>9-9-21</i>	<i>2:00pm</i>	<i>X</i>	<i>X</i>	<i>X</i>										
<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:		Received By:		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:		<p>REMARKS:</p> <p>Please email results to pm@etechenv.com.</p>																	
		Time:				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:																			
Relinquished By:		Date:		Received By:																							
		Time:																									
Delivered By: (Circle One)		Date: <i>9-9-21</i>		Received By: <i>Tamara Aldrete</i>		Sample Condition		CHECKED BY: (Initials)																			
Sampler - UPS - Bus - Other:		Time: <i>1625</i>				Cool Intact																					
						<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<i>TO</i>																			

FORM-006
Revision 1.0

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

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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 58120

CONDITIONS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 58120
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
chensley	None	12/1/2021