

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

State of New Mexico
Energy Minerals and Natural
Resources Department

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

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

Incident ID	nAPP2125861315
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Legacy Reserves Operating, LP	OGRID 240974
Contact Name Dwight Mallory	Contact Telephone 720-726-9728
Contact email dmallory@legacyreserves.com	Incident # (assigned by OCD) nAPP2125861315
Contact mailing address 15 Smith Road, Midland, TX, 79705	

Location of Release Source

Latitude 32.33335 Longitude -103.14992
(NAD 83 in decimal degrees to 5 decimal places)

Site Name SPAU Injection Line	Site Type Flow Line - Injection
Date Release Discovered 9/15/2021	API# (if applicable) NA

Unit Letter	Section	Township	Range	County
J	3	23S	37E	Lea

Surface Owner: State Federal Tribal Private (Name: Doyal Dorthy Et Al)

Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) Unknown	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<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 (provide units)	Volume/Weight Recovered (provide units)

Cause of Release The release is attributed to the failure of a fiberglass trunk line.

State of New Mexico
Oil Conservation Division

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District RP	2RP-4334
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Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? Unauthorized release of an unknown volume, excluding gases, of 25 barrels or more.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Yes, Dwight Mallory, Chad Hensley, 9/15/2021, voice message	

Initial Response

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

<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"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.
If all the actions described above have <u>not</u> been undertaken, explain why:
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.
Printed Name: <u>Dwight Mallory</u> Title: <u>Director, EHS</u> Signature: <u><i>Dwight Mallory</i></u> Date: <u>7/25/2022</u> email: <u>dmallory@legacyreserves.com</u> Telephone: <u>720-726-9728</u>
<u>OCD Only</u> Received by: _____ Date: _____

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District RP	2RP-4334
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>67</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

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

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

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

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

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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: Dwight Mallory Title: Director, EHS
Signature: *Dwight Mallory* Date: 7/25/2022
email: dmallory@legacyreserves.com Telephone: 720-726-9728

OCD Only

Received by: _____ Date: _____

Incident ID	nAPP2125861315
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Remediation Plan

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

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

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

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

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

Printed Name: Dwight Mallory Title: Director, EHS
 Signature: *Dwight Mallory* Date: 7/25/2022
 email: dmallory@legacyreserves.com Telephone: 720-726-9728

OCD Only

Received by: _____ Date: _____

- Approved Approved with Attached Conditions of Approval Denied Deferral Approved

Signature: *Jennifer Nobui* Date: 08/02/2022

Remediation Summary & Backfill Request

Legacy Reserves Operating, LP SPAU Injection Line

Lea County, New Mexico

Unit Letter J, Section 3, Township 23 South, Range 37 East

Latitude 32.3333502 North, Longitude 103.1499243 West

NMOCD Reference No. nAPP2125861315

Prepared By:

Etech Environmental & Safety Solutions, Inc.

2617 W. Marland

Hobbs, New Mexico 88240



Matthew Grieco



Joel W. Lowry



Midland • San Antonio • Lubbock • Hobbs • Lafayette

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1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Legacy Reserves Operating, LP (Legacy), has prepared this *Remediation Summary & Backfill Request* for the release site known as the SPAU Injection Line (henceforth, "Site"). Details of the release are summarized below:

Location of Release Source				
Latitude: <u>32.3333502</u>		Longitude: <u>-103.1499243</u>		
Provided GPS are in WGS84 format.				
Site Name: <u>SPAU Injection Line</u>		Site Type: <u>Flowline</u>		
Date Release Discovered: <u>9/15/2021</u>		API # (if applicable): <u>N/A</u>		
Unit Letter	Section	Township	Range	County
J	3	23S	37E	Lea
Surface Owner: <input type="checkbox"/> State <input type="checkbox"/> Federal <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Private (Name <u>DOYAL DOROTHY ET AL</u>)				
Nature and Volume of Release				
<input type="checkbox"/> Crude Oil	Volume Released (bbls)		Volume Recovered (bbls)	
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) <u>Unknown</u>		Volume Recovered (bbls) <u>0</u>	
	Is the concentration of dissolved chloride in the produced water > 10,000 mg/L?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
<input type="checkbox"/> Condensate	Volume Released (bbls)		Volume Recovered (bbls)	
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)		Volume Recovered (Mcf)	
<input type="checkbox"/> Other (describe)	Volume/Weight Released		Volume/Weight Recovered	
Cause of Release: <u>Failure of a fiberglass transfer line.</u>				
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?	67 Feet	
Did the release impact groundwater or surface water?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of any occupied permanent residence, school, hospital, institution or church?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within the incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production or storage site?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

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

3.0 CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE

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

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

* Measured in milligrams per kilogram (mg/kg)

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

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

4.0 INITIAL SITE ASSESSMENT

On October 14, 2021, Legacy contracted Etech to assess and remediate the release at the Site. Legacy provided Etech with a laboratory analytical report detailing their initial sampling activities. Based on those analytical results, soil was affected above the NMOCD Reclamation Standards and NMOCD Closure Criteria to a depth greater than five (5) feet below ground surface (bgs). Etech determined that additional horizontal and vertical delineation was required at the Site.

On October 19, 2021, Etech conducted an initial site assessment. During the initial site assessment, a series of hand-augered soil bores were advanced at the inferred edges of the affected area in an effort to determine the horizontal extent of soil impacts. During the advancement of the hand-augered soil bores, field soil samples were collected and field-screened for the presence of volatile organic compounds utilizing olfactory/visual senses and concentrations of chloride utilizing a Hach Quantab ® chloride test kit.

Based on field observations and field test data, twelve (12) delineation soil samples (NH, EH, SH, WH, SP1, and SP2, each at Surface and 1') were submitted to a certified, commercial laboratory (henceforth, "the laboratory") for analysis of BTEX, TPH, and chloride. Based on laboratory analytical results, the horizontal extent of affected soil impacted above the NMOCD Closure Criteria and/or the NMOCD Reclamation Standards was adequately defined.

On January 4, 2022, Etech returned to the Site. Continuing the initial site assessment, a series of test trenches were advanced within the release margins in an effort to determine the vertical extent of soil impacts. During the advancement of the hand-augered soil bores, field soil samples were collected and field-screened for the presence of volatile organic compounds utilizing olfactory/visual senses and concentrations of chloride utilizing a Hach Quantab ® chloride test kit.

Based on field observations and field test data, four (4) delineation soil samples (1/4 TT - 1 20', 1/4 TT - 1 21', 1/4 TT - 3 4', and 1/4 TT - 4 7') were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Based on laboratory analytical results, the vertical extent of affected soil impacted above the NMOCD Closure Criteria was adequately defined.

5.0 REMEDIATION ACTIVITIES SUMMARY

On January 4, 2022, remediation activities commenced at the Site. In accordance with the NMOCD, impacted soil affected above the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standards was excavated and stockpiled on-site, pending transfer to an NMOCD-approved surface waste facility for disposal. The floor and sidewalls of the excavation were advanced until field observations and test results suggested BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standards.

On January 4, 2022, Etech collected two (2) confirmation soil samples (FL #1 @ 3' and SW-3). The collected soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standards in each of the submitted soil samples.

On January 5, 2022, Etech collected three (3) confirmation soil samples (FL #3 @ 7', SW-1, and SW-2). The collected soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standards in each of the submitted soil samples.

On January 6, 2022, Etech collected two (2) wall confirmation soil samples (WW-1 and WW-2). The collected soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standards in each of the submitted soil samples.

On February 28, 2022, Etech collected sixteen (16) confirmation soil samples (FL # 1 @ 14' through FL # 14 @ 5', EW-2, and SW-4). The collected soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standards in each of the submitted soil samples.

In addition, Etech collected two (2) delineation soil samples (TT -1 @ 14' and TT -2 @ 24'). The collected soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standards in each of the submitted soil samples.

On March 2, 2022, Etech collected thirty-four (34) floor confirmation soil samples (FL # 15 @ 14' through FL # 44 @ 4'). The collected soil samples were submitted to the laboratory for analysis of chloride. Laboratory analytical results indicated chloride concentrations below the applicable NMOCD Closure Criterion and/or NMOCD Reclamation Standard in each of the submitted soil samples.

Etech also collected four (4) wall confirmation soil samples (NW # 2 through NW # 5). The collected soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standards in each of the submitted soil samples, with the exception of soil sample NW # 2, which exhibited a chloride concentration of 960 mg/kg.

In addition, Etech collected nine (9) delineation soil samples (TT - 3 @ 15' through TT - 8 @ 6'). The collected soil samples were submitted to the laboratory for analysis of chloride. Laboratory analytical results indicated chloride concentrations below the applicable NMOCD Closure Criterion and/or NMOCD Reclamation Standard in each of the submitted soil samples.

On March 7, 2022, Etech collected one (1) wall confirmation soil sample (EW-1). The collected soil sample was submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standards in the submitted soil sample.

On July 6, 2022, Etech collected one (1) wall confirmation soil sample (NW2 @ 0'-4') from the uppermost four (4) feet in the area characterized by sample point NW # 2. The collected soil sample was submitted to the laboratory for analysis of chloride. Laboratory analytical results indicated a chloride concentration below the applicable NMOCD Closure Criterion and/or NMOCD Reclamation Standard in the submitted soil sample.

Approximately 5,140 cubic yards of impacted soil was excavated and transported to an NMOCD-permitted surface waste facility. The dimensions of the excavated area are 155 feet in length, fifty (50) to eighty (80) feet in width, and three (3) to fourteen (14) feet in depth. Further vertical excavation of affected material was precluded due to safety concerns associated with the depth of the excavation and the potential instability of the suspended section of pipeline.

A site and sample location map is provided as Figure 3. Soil profile logs are provided as Appendix B. A soil chemistry table is provided as Table 1. Laboratory analytical reports are provided in Appendix C.

6.0 BACKFILL REQUEST

Remediation activities conducted to date meet the objectives of the NMOCD. Laboratory analytical results from excavation confirmation soil samples indicate BTEX, TPH, and chloride concentrations are below the NMOCD Closure Criteria and/or NMOCD Reclamation Standards in each of the submitted soil samples.

Based on laboratory analytical results and field activities conducted to date, Etech proposes the following activities to advance the closure of the Site:

- Backfill the excavated area using locally sourced, non-impacted material suitable to the landowner. The affected area will be contoured and/or compacted to achieve erosion control, stability and preservation of surface water flow to the extent practicable.
- Upon completion of backfilling activities, the affected area will be reseeded with a landowner-approved seed mixture free of noxious weeds during the first favorable growing season following closure of the Site.
- Upon completion of remediation activities, Etech will prepare a *Remediation Summary & Soil Closure Request* detailing field activities and laboratory analytical results from excavation confirmation soil samples for submission to the NMOCD.

7.0 LIMITATIONS

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

This report has been prepared for the benefit of Legacy Reserves Operating, LP. Use of the information contained in this report is prohibited without the consent of Etech and/or Legacy Reserves Operating, LP.

8.0 DISTRIBUTION

Legacy Reserves Operating, LP

303 W. Wall St.

Midland, TX 79701

New Mexico Energy, Minerals and Natural Resources Department

Oil Conservation Division, District 1

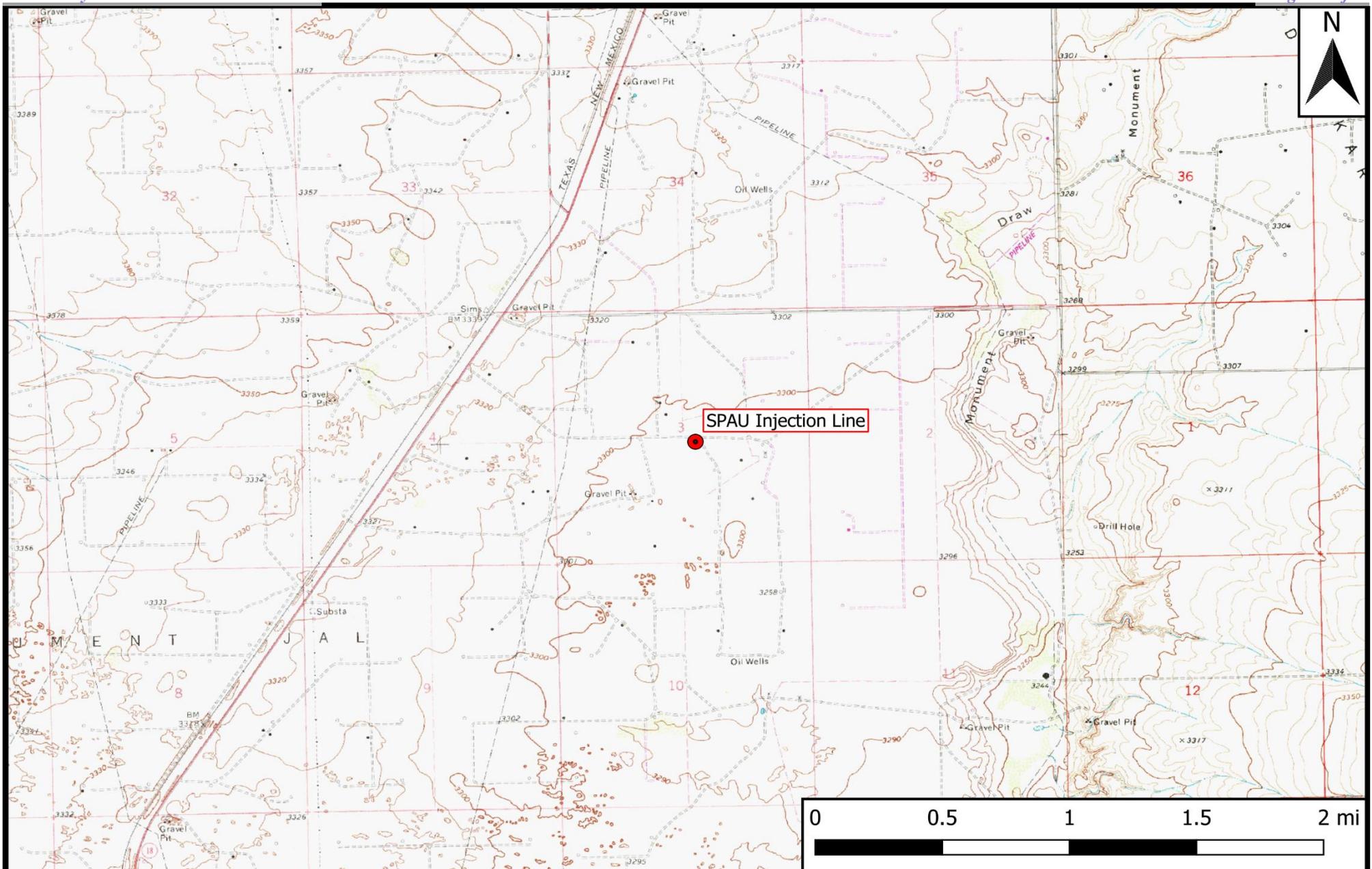
1220 South St. Francis Drive

Santa Fe, NM 87505

(Electronic Submission)

Figure 1

Topographic Map



Legend

- Site Location

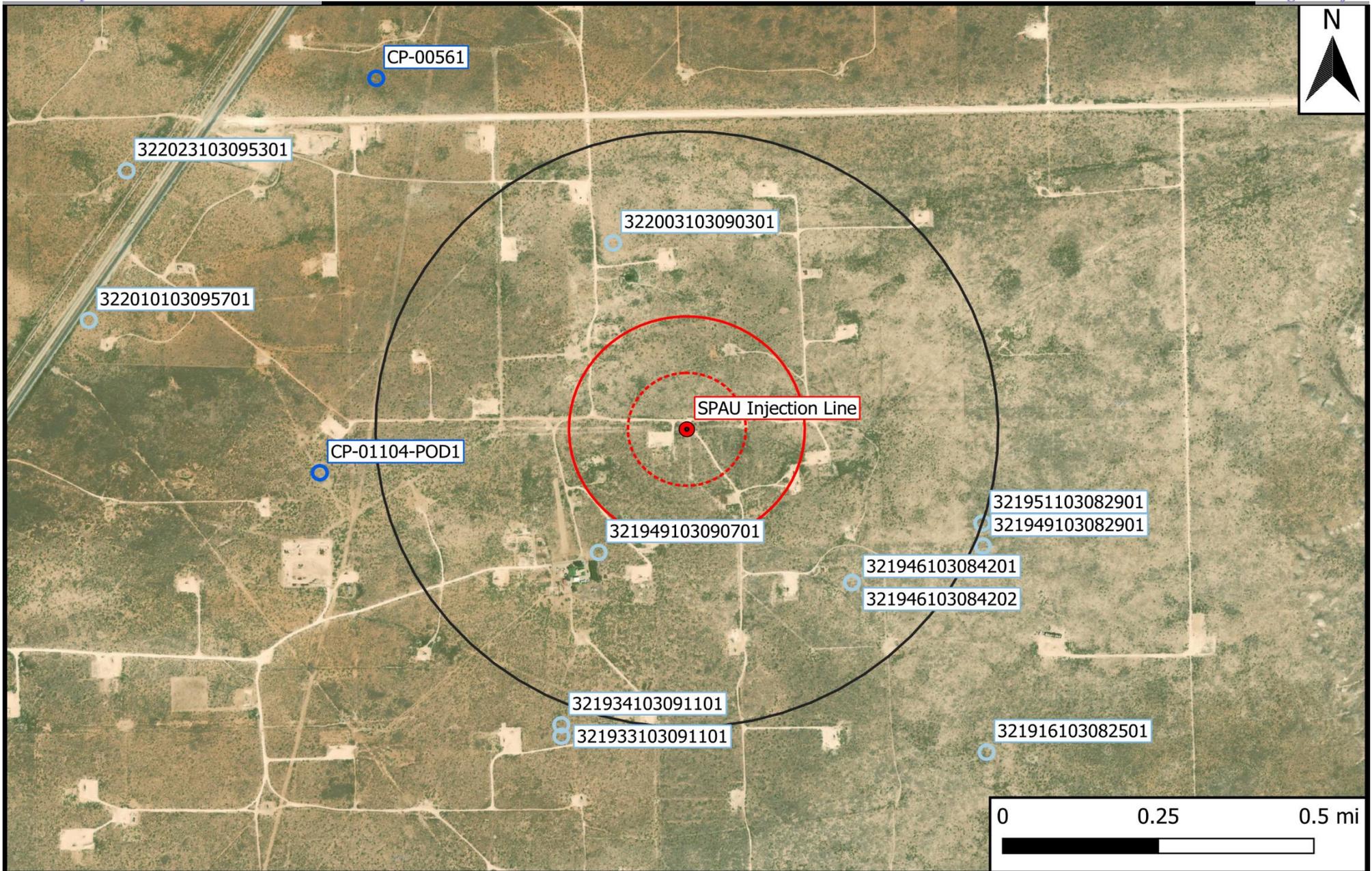
Figure 1
 Topographic Map
 Legacy Reserves Operating, LP
 SPAU Injection Line
 GPS: 32.3333502, -103.1499243
 Lea County

eTECH
 Environmental & Safety Solutions, Inc.

Drafted: mag Checked: jwl Date: 6/30/22

Figure 2

Aerial Proximity Map



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

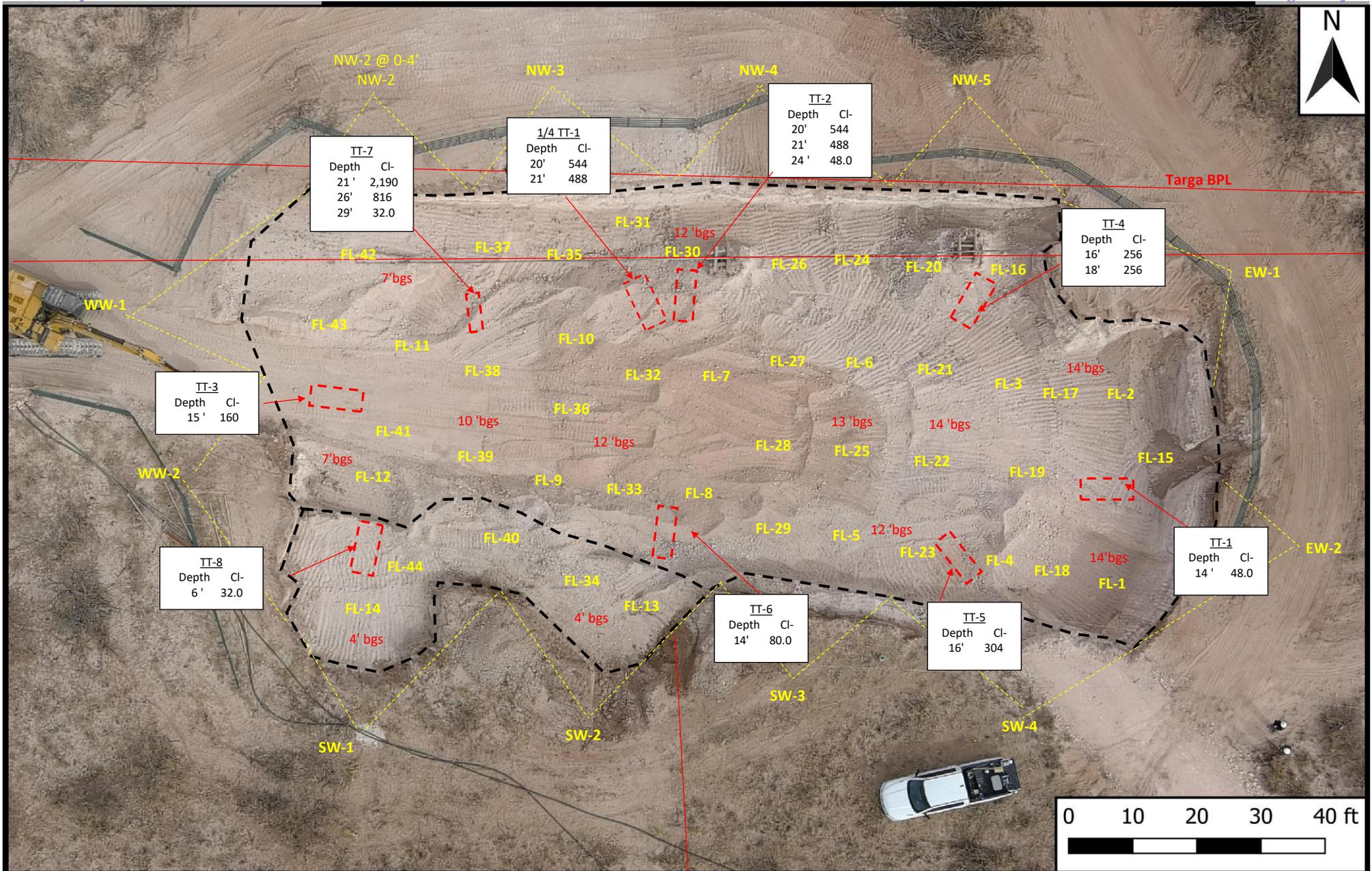
Figure 2
 Aerial Proximity Map
 Legacy Reserves Operating, LP
 SPAU Injection Line
 GPS: 32.3333502, -103.1499243
 Lea County

eTECH 
Environmental & Safety Solutions, Inc.

Drafted: mag Checked: jwl Date: 6/30/22

Figure 3

Site and Sample Location Map



TT-7	
Depth	Cl-
21'	2,190
26'	816
29'	32.0

1/4 TT-1	
Depth	Cl-
20'	544
21'	488

TT-2	
Depth	Cl-
20'	544
21'	488
24'	48.0

TT-4	
Depth	Cl-
16'	256
18'	256

TT-3	
Depth	Cl-
15'	160

TT-8	
Depth	Cl-
6'	32.0

TT-6	
Depth	Cl-
14'	80.0

TT-5	
Depth	Cl-
16'	304

TT-1	
Depth	Cl-
14'	48.0

- FL-10 Composite Sample Location
- Test Trench
- Pipeline
- 4' bgs Excavation Depth

Figure 3
 Site and Sample Location Map
 Legacy Reserves Operating, LP
 SPAU Injection Line
 GPS: 32.3333502, -103.1499243
 Lea County

eTECH
 Environmental & Safety Solutions, Inc.

Drafted: mag Checked: jwl Date: 7/22/22

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

Table 1 Concentrations of BTEX, TPH, and Chloride in Soil Legacy Reserves Operating, LP SPAU Injection Line NMOCD Ref. #: nAPP2125861315											
NMOCD Closure Criteria				10	50	-	-	1,000	-	2,500	10,000
NMOCD Reclamation Standard				10	50	-	-	-	-	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C 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)
Initial Site Assessment											
INJ C - 1	9/30/2021	5	Excavated	1.74	107	1,670	7,650	9,320	1,230	10,600	6,800
INJ NW - 1	9/30/2021	0.67	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	4,160
INJ SE - 1	9/30/2021	0.67	Excavated	<0.050	<0.300	<10.0	29.6	29.6	<10.0	29.6	6,320
EH @ Surface	10/19/2021	0	Excavated	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	<49.8	18.3
EH @ 1'	10/19/2021	1	Excavated	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	246
NH @ Surface	10/19/2021	0	Excavated	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	424
NH @ 1'	10/19/2021	1	Excavated	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	236
SH @ Surface	10/19/2021	0	Excavated	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	336
SH @ 1'	10/19/2021	1	Excavated	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	501
WH @ Surface	10/19/2021	0	Excavated	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	231
WH @ 1'	10/19/2021	1	Excavated	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	117
SP1 @ Surface	10/19/2021	0	Excavated	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	270
SP1 @ 1'	10/19/2021	1	Excavated	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	104
SP2 @ Surface	10/19/2021	0	Excavated	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	104
SP2 @ 1'	10/19/2021	1	Excavated	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	87.6
1/4 TT - 1 20'	1/4/2022	20	In-Situ	-	-	-	-	-	-	-	544
1/4 TT - 1 21'	1/4/2022	21	In-Situ	-	-	-	-	-	-	-	448
1/4 TT - 3 4'	1/4/2022	4	In-Situ	-	-	-	-	-	-	-	176
1/4 TT - 4 7'	1/4/2022	7	In-Situ	-	-	-	-	-	-	-	224
Excavation											
FL #1 @ 3'	1/4/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL # 1 @ 14'	2/28/2022	14	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	640
FL # 2 @ 12'	2/28/2022	12	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL #3 @ 7'	1/5/2022	7	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FL # 3 @ 12'	2/28/2022	12	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	336
FL # 4 @ 12'	2/28/2022	12	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
FL # 5 @ 12'	2/28/2022	12	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
FL # 6 @ 12'	2/28/2022	12	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	544
FL # 7 @ 12'	2/28/2022	12	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL # 8 @ 12'	2/28/2022	12	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	576
FL # 9 @ 12'	2/28/2022	12	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	7,360
FL # 10 @ 12'	2/28/2022	12	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
FL # 11 @ 7'	2/28/2022	7	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FL # 12 @ 7'	2/28/2022	7	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,840
FL # 13 @ 5'	2/28/2022	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL # 14 @ 5'	2/28/2022	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
FL # 15 @ 14'	3/2/2022	14	In-Situ	-	-	-	-	-	-	-	112
FL # 16 @ 14'	3/2/2022	14	In-Situ	-	-	-	-	-	-	-	32.0
FL # 17 @ 14'	3/2/2022	14	In-Situ	-	-	-	-	-	-	-	64.0
FL # 18 @ 14'	3/2/2022	14	In-Situ	-	-	-	-	-	-	-	304

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

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

Table 1 Concentrations of BTEX, TPH, and Chloride in Soil Legacy Reserves Operating, LP SPAU Injection Line NMOCD Ref. #: nAPP2125861315											
NMOCD Closure Criteria				10	50	-	-	1,000	-	2,500	10,000
NMOCD Reclamation Standard				10	50	-	-	-	-	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C 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 # 19 @ 14'	3/2/2022	14	In-Situ	-	-	-	-	-	-	-	240
FL # 20 @ 12'	3/2/2022	12	In-Situ	-	-	-	-	-	-	-	48.0
FL # 21 @ 14'	3/2/2022	14	In-Situ	-	-	-	-	-	-	-	528
FL # 22 @ 14'	3/2/2022	14	In-Situ	-	-	-	-	-	-	-	320
FL # 23 @ 12'	3/2/2022	12	In-Situ	-	-	-	-	-	-	-	688
FL # 24 @ 12'	3/2/2022	12	In-Situ	-	-	-	-	-	-	-	368
FL # 25 @ 13'	3/2/2022	13	In-Situ	-	-	-	-	-	-	-	576
FL # 26 @ 13'	3/2/2022	13	In-Situ	-	-	-	-	-	-	-	48.0
FL # 27 @ 13'	3/2/2022	13	In-Situ	-	-	-	-	-	-	-	48.0
FL # 28 @ 13'	3/2/2022	13	In-Situ	-	-	-	-	-	-	-	256
FL # 29 @ 13'	3/2/2022	13	In-Situ	-	-	-	-	-	-	-	48.0
FL # 30 @ 12'	3/2/2022	12	In-Situ	-	-	-	-	-	-	-	880
FL # 31 @ 12'	3/2/2022	12	In-Situ	-	-	-	-	-	-	-	48.0
FL # 32 @ 12'	3/2/2022	12	In-Situ	-	-	-	-	-	-	-	960
FL # 33 @ 12'	3/2/2022	12	In-Situ	-	-	-	-	-	-	-	48.0
FL # 34 @ 4'	3/2/2022	4	In-Situ	-	-	-	-	-	-	-	96.0
FL # 35 @ 10'	3/2/2022	10	In-Situ	-	-	-	-	-	-	-	144
FL # 36 @ 7'	3/2/2022	7	In-Situ	-	-	-	-	-	-	-	416
FL # 37 @ 6'	3/2/2022	6	In-Situ	-	-	-	-	-	-	-	512
FL # 38 @ 10'	3/2/2022	10	In-Situ	-	-	-	-	-	-	-	5,360
FL # 39 @ 10'	3/2/2022	10	In-Situ	-	-	-	-	-	-	-	496
FL # 40 @ 4'	3/2/2022	4	In-Situ	-	-	-	-	-	-	-	208
FL # 41 @ 7'	3/2/2022	7	In-Situ	-	-	-	-	-	-	-	1,060
FL # 42 @ 7'	3/2/2022	7	In-Situ	-	-	-	-	-	-	-	400
FL # 43 @ 4'	3/2/2022	4	In-Situ	-	-	-	-	-	-	-	96.0
FL # 44 @ 4'	3/2/2022	4	In-Situ	-	-	-	-	-	-	-	176
EW-1	3/7/2022	0-14	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
EW-2	2/28/2022	0-14	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
NW2 @ 0'-4'	7/6/2022	0-4	In-Situ	-	-	-	-	-	-	-	32.0
NW # 2	3/2/2022	4-7	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	960
NW # 3	3/2/2022	0-12	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
NW # 4	3/2/2022	0-12	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
NW # 5	3/2/2022	0-12	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
SW-1	1/5/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SW-2	1/5/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SW-3	1/4/2022	0-12	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SW-4	2/28/2022	0-14	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
WW-1	1/6/2022	0-7	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
WW-2	1/6/2022	0-7	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
TT -1 @ 14'	2/28/2022	14	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
TT -2 @ 24'	2/28/2022	24	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0

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

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

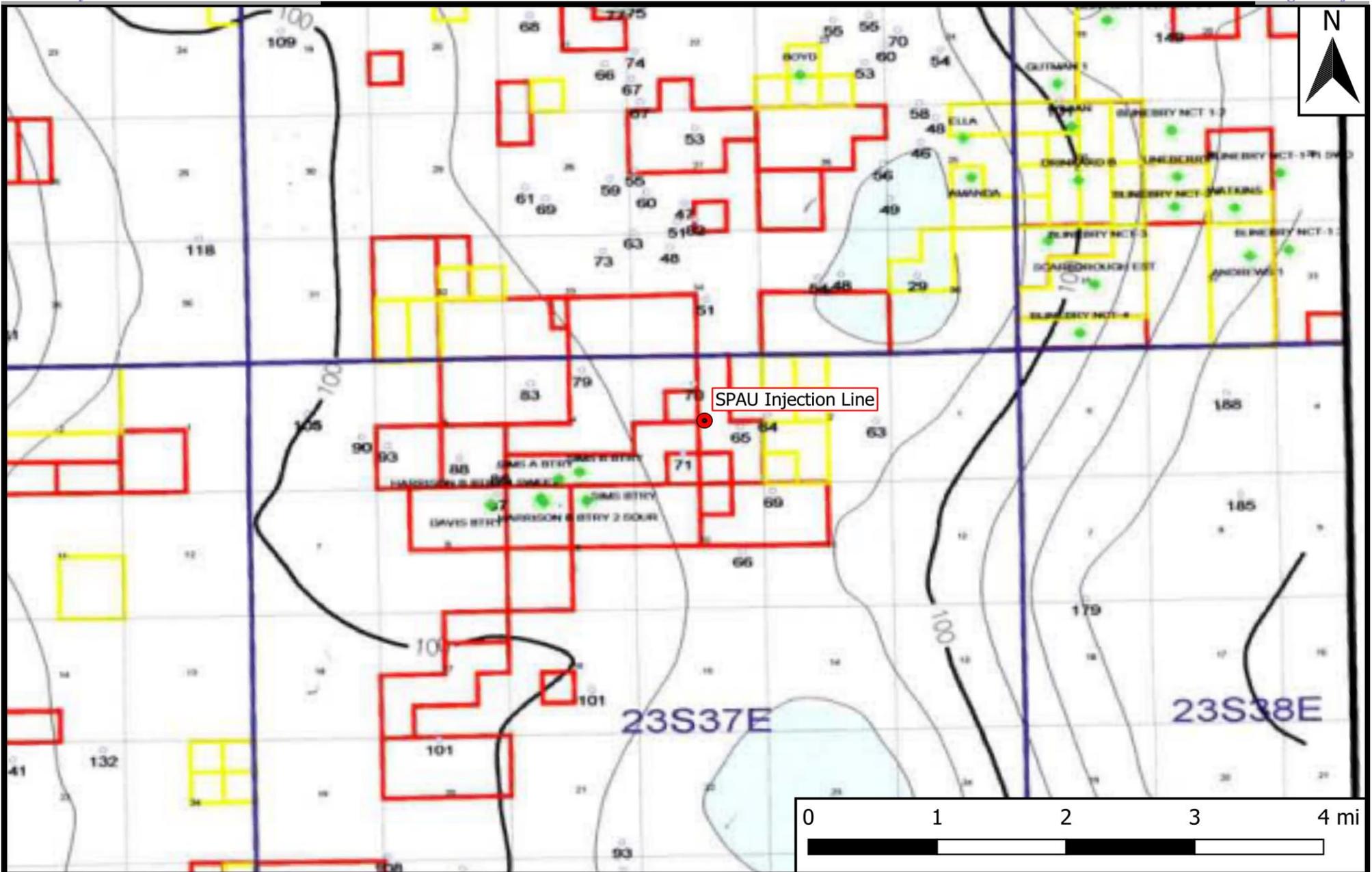
Table 1 Concentrations of BTEX, TPH, and Chloride in Soil Legacy Reserves Operating, LP SPAU Injection Line NMOCD Ref. #: nAPP2125861315												
NMOCD Closure Criteria				10	50	-	-	1,000	-	2,500	10,000	
NMOCD Reclamation Standard				10	50	-	-	-	-	100	600	
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl	
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C 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)	
TT - 3 @ 15'	3/2/2022	15	In-Situ	-	-	-	-	-	-	-	160	
TT - 4 @ 16'	3/2/2022	16	In-Situ	-	-	-	-	-	-	-	256	
TT - 4 @ 18'	3/2/2022	18	In-Situ	-	-	-	-	-	-	-	256	
TT - 5 @ 16'	3/2/2022	16	In-Situ	-	-	-	-	-	-	-	304	
TT - 6 @ 14'	3/2/2022	14	In-Situ	-	-	-	-	-	-	-	80.0	
TT - 7 @ 21'	3/2/2022	21	In-Situ	-	-	-	-	-	-	-	2,190	
TT - 7 @ 26'	3/2/2022	26	In-Situ	-	-	-	-	-	-	-	816	
TT - 7 @ 29'	3/2/2022	29	In-Situ	-	-	-	-	-	-	-	32.0	
TT - 8 @ 6'	3/2/2022	6	In-Situ	-	-	-	-	-	-	-	32.0	

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

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

Appendix A

Depth to Groundwater Information



Legend
 ● Site Location

Figure 4
 Inferred Depth to Groundwater Trend Map
 Legacy Reserves Operating, LP
 SPAU Injection Line
 GPS: 32.3333502, -103.1499243
 Lea County



Drafted: mag Checked: jwl Date: 6/30/22



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	Tw	Rng	X
								Y
	CP 00561	3	3	3	34	22S	37E	673324
								3579834*

Driller License: 576	Driller Company: STONE, T.J.	
Driller Name: STONE, T.J.		
Drill Start Date: 12/26/1976	Drill Finish Date: 12/29/1976	Plug Date:
Log File Date: 01/11/1977	PCW Rev Date:	Source: Shallow
Pump Type:	Pipe Discharge Size:	Estimated Yield: 15 GPM
Casing Size: 6.63	Depth Well: 137 feet	Depth Water: 60 feet

Water Bearing Stratifications:	Top	Bottom	Description
	65	80	Sandstone/Gravel/Conglomerate
	80	128	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom	
	65	128	

*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.

10/14/21 7:56 AM

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
	CP 01104 POD1							673178	3578773

Driller License: 1478 **Driller Company:** STRAUB CORPORATION

Driller Name: STRAUB, MARTIN (LD)

Drill Start Date: 09/10/2012 **Drill Finish Date:** 09/10/2012 **Plug Date:**

Log File Date: 09/27/2012 **PCW Rcv Date:** **Source:**

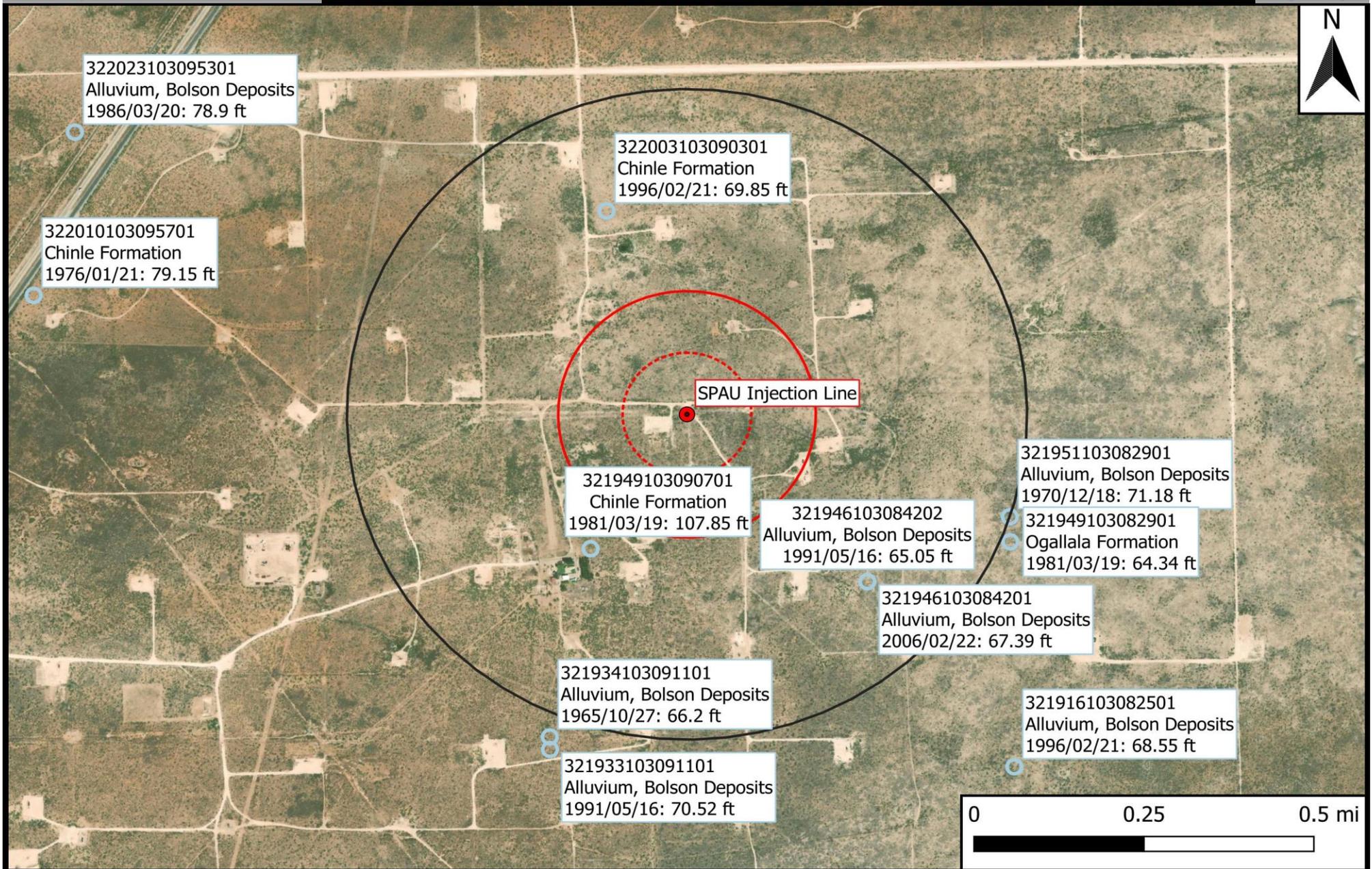
Pump Type: **Pipe Discharge Size:** **Estimated Yield:**

Casing Size: **Depth Well:** 21 feet **Depth Water:**

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

10/14/21 7:56 AM

POINT OF DIVERSION SUMMARY



Legend

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

Figure 5
 USGS Well Proximity Map
 Legacy Reserves Operating, LP
 SPAU Injection Line
 GPS: 32.3333502, -103.1499243
 Lea County

eTECH
 Environmental & Safety Solutions, Inc.

Drafted: mag Checked: jwl Date: 7/22/22



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Groundwater: Field measurements

GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°19'46", Longitude 103°08'42" NAD27

Land-surface elevation 3,298 feet above NAVD88

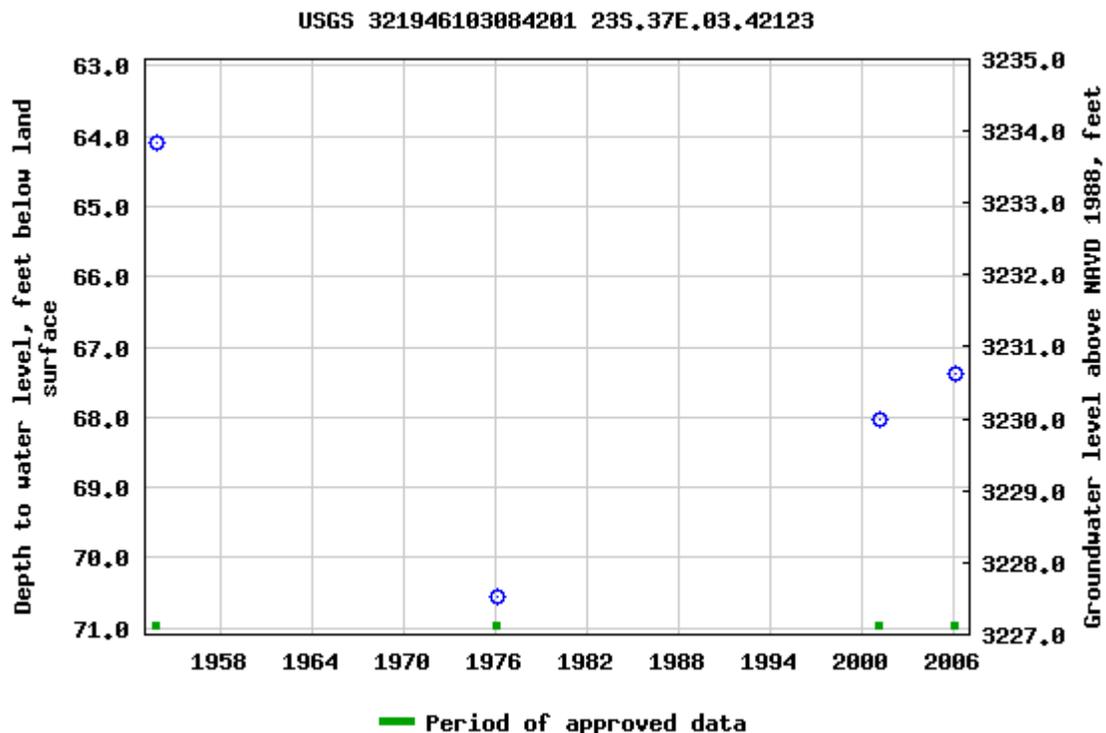
The depth of the well is 75 feet below land surface.

This well is completed in the Pecos River Basin alluvial aquifer (N100PCSRVR) national aquifer.

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

Output formats

Table of data
Tab-separated data
Graph of data
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Breaks in the plot represent a gap of at least one year between field measurements.
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0.57 0.49 nadww01



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Available data for this site

Groundwater: Field measurements

GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°19'46", Longitude 103°08'42" NAD27

Land-surface elevation 3,298 feet above NAVD88

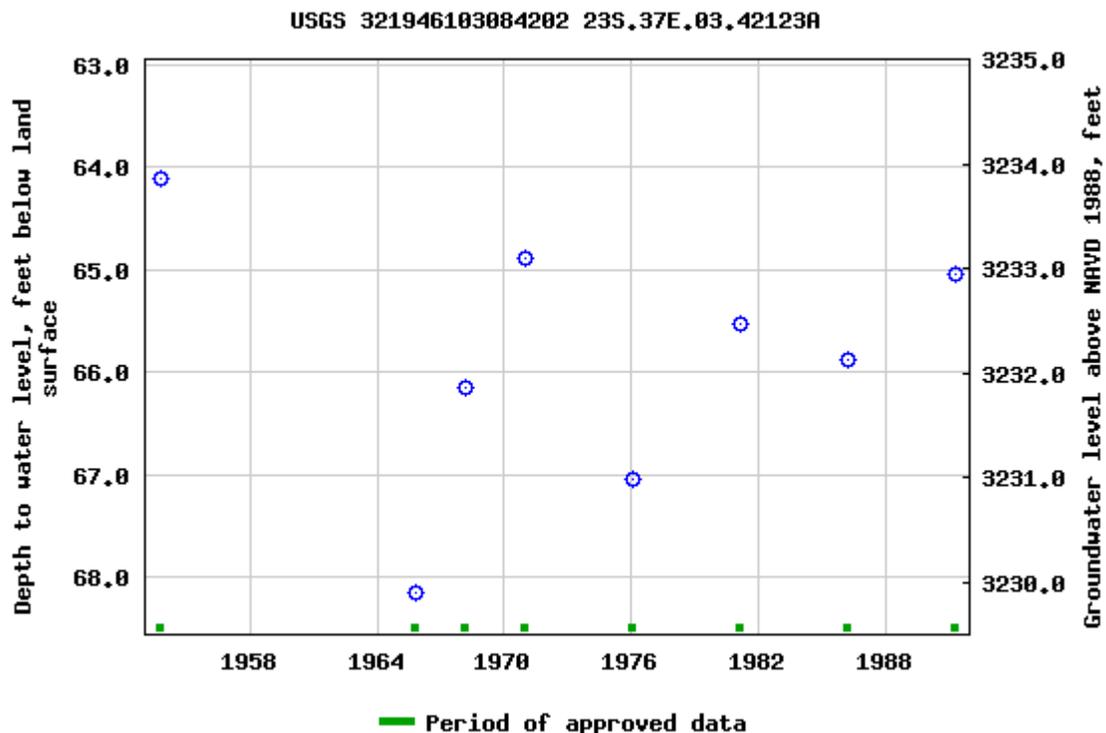
The depth of the well is 80 feet below land surface.

This well is completed in the Pecos River Basin alluvial aquifer (N100PCSRVR) national aquifer.

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

Output formats

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



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Title: Groundwater for USA: Water Levels

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



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0.54 0.49 nadww01



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Groundwater levels for the Nation

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site_no list =

- 321949103090701

Minimum number of levels = 1

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USGS 321949103090701 23S.37E.03.323444

Available data for this site

Groundwater: Field measurements

GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°19'49", Longitude 103°09'07" NAD27

Land-surface elevation 3,297 feet above NAVD88

The depth of the well is 380 feet below land surface.

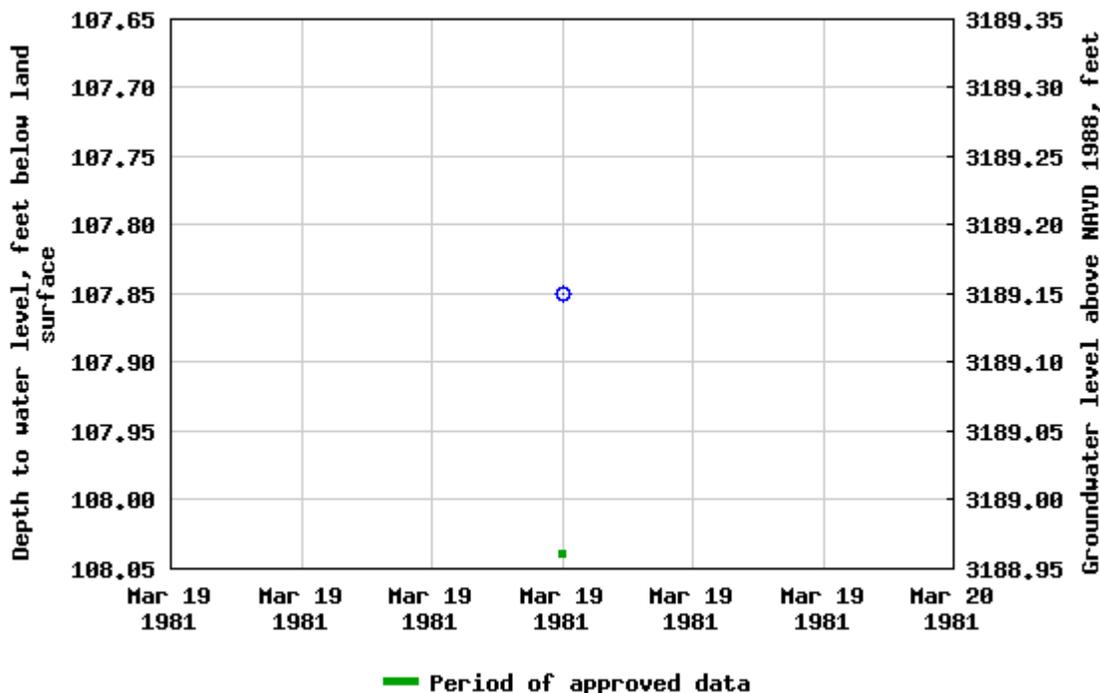
This well is completed in the Pecos River Basin alluvial aquifer (N100PCSRVR) national aquifer.

This well is completed in the Chinle Formation (231CHNL) local aquifer.

Output formats

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

USGS 321949103090701 23S.37E.03.323444



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Title: Groundwater for USA: Water Levels

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



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

Page Last Modified: 2021-10-14 09:51:17 EDT

0.56 0.51 nadww01



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National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater

Geographic Area:

United States

GO

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Groundwater levels for the Nation

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Search Results -- 1 sites found

Agency code = usgs

site_no list =

- 322003103090301

Minimum number of levels = 1

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

USGS 322003103090301 23S.37E.03.124441

Available data for this site

Groundwater: Field measurements

GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°20'16", Longitude 103°09'05" NAD27

Land-surface elevation 3,304.00 feet above NGVD29

The depth of the well is 350 feet below land surface.

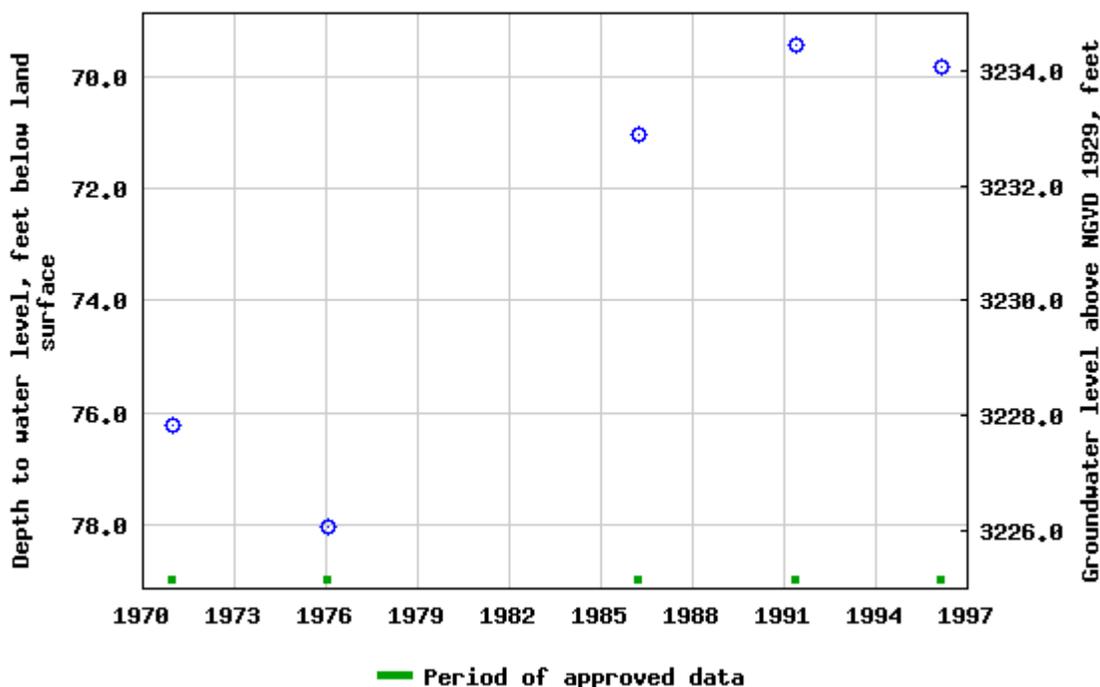
This well is completed in the Pecos River Basin alluvial aquifer (N100PCSRVR) national aquifer.

This well is completed in the Chinle Formation (231CHNL) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
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USGS 322003103090301 23S,37E,03,124441



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Title: Groundwater for USA: Water Levels

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



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

Page Last Modified: 2021-10-14 09:51:18 EDT

0.58 0.52 nadww01

Appendix B

Soil Profile Logs

Soil Profile Log

Etech Project Number: 15018	Location: Lea County, NM	Logged By: J. Lowry
Site Name: SPAU Injection Line	Coordinates: 32.3333502,-103.1499243	Draft Date: 6/30/2022
Client: Legacy Reserves Operating, LP	PLSS: UL "J" (NW/SE), Sec. 3, T23S, R37E	Drafted By: B. Arguijo
NMOCD Incident ID: nAPP2125861315	Depth to Groundwater (ft): 65-70	Checked By: J. Lowry

Comments: N/A

Depth (ft)	Lithology	Material Description	Additional Observations
		Brown Topsoil	N/A
		Light Alkali Topsoil	N/A
5		Resilient Caliche/Calcrete	N/A
10		Caliche	N/A
15			
20		Reddish/Brown Sand	N/A
25			
30		Total Depth: 29 ft Notes: Lines between material types represent approximate boundaries. Actual transitions may be gradual.	

Disclaimer: This log is intended for environmental not geotechnical purposes.

Appendix C

Laboratory Analytical Reports



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

October 06, 2021

DWIGHT MALLORY

LEGACY RESERVES - DENVER

1775 SHERMAN STREET, SUITE 1400

DENVER, CO 80203

RE: SPAU INJ

Enclosed are the results of analyses for samples received by the laboratory on 10/01/21 11:40.

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".

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

LEGACY RESERVES - DENVER
 DWIGHT MALLORY
 1775 SHERMAN STREET, SUITE 1400
 DENVER CO, 80203
 Fax To:

Received:	10/01/2021	Sampling Date:	09/30/2021
Reported:	10/06/2021	Sampling Type:	Soil
Project Name:	SPAU INJ	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: INJ NW - 1 (H212727-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/01/2021	ND	1.97	98.3	2.00	1.13	
Toluene*	<0.050	0.050	10/01/2021	ND	1.92	96.1	2.00	0.396	
Ethylbenzene*	<0.050	0.050	10/01/2021	ND	1.89	94.3	2.00	0.820	
Total Xylenes*	<0.150	0.150	10/01/2021	ND	5.73	95.5	6.00	0.862	
Total BTEX	<0.300	0.300	10/01/2021	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	4160	16.0	10/04/2021	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	10/01/2021	ND	228	114	200	1.21	
DRO >C10-C28*	<10.0	10.0	10/01/2021	ND	224	112	200	0.138	
EXT DRO >C28-C36	<10.0	10.0	10/01/2021	ND					

Surrogate: 1-Chlorooctane 88.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 87.3 % 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:

LEGACY RESERVES - DENVER
 DWIGHT MALLORY
 1775 SHERMAN STREET, SUITE 1400
 DENVER CO, 80203
 Fax To:

Received:	10/01/2021	Sampling Date:	09/30/2021
Reported:	10/06/2021	Sampling Type:	Soil
Project Name:	SPAU INJ	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: INJ SE - 1 (H212727-02)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/01/2021	ND	1.97	98.3	2.00	1.13	
Toluene*	<0.050	0.050	10/01/2021	ND	1.92	96.1	2.00	0.396	
Ethylbenzene*	<0.050	0.050	10/01/2021	ND	1.89	94.3	2.00	0.820	
Total Xylenes*	<0.150	0.150	10/01/2021	ND	5.73	95.5	6.00	0.862	
Total BTEX	<0.300	0.300	10/01/2021	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	6320	16.0	10/04/2021	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	10/01/2021	ND	228	114	200	1.21	
DRO >C10-C28*	29.6	10.0	10/01/2021	ND	224	112	200	0.138	
EXT DRO >C28-C36	<10.0	10.0	10/01/2021	ND					

Surrogate: 1-Chlorooctane 86.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 86.3 % 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:

LEGACY RESERVES - DENVER
 DWIGHT MALLORY
 1775 SHERMAN STREET, SUITE 1400
 DENVER CO, 80203
 Fax To:

Received:	10/01/2021	Sampling Date:	09/30/2021
Reported:	10/06/2021	Sampling Type:	Soil
Project Name:	SPAU INJ	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: INJ C - 1 (H212727-03)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.74	0.500	10/01/2021	ND	1.97	98.3	2.00	1.13	
Toluene*	10.1	0.500	10/01/2021	ND	1.92	96.1	2.00	0.396	
Ethylbenzene*	28.3	0.500	10/01/2021	ND	1.89	94.3	2.00	0.820	
Total Xylenes*	67.1	1.50	10/01/2021	ND	5.73	95.5	6.00	0.862	
Total BTEX	107	3.00	10/01/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 130 % 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	6800	16.0	10/04/2021	ND	432	108	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*	1670	10.0	10/01/2021	ND	228	114	200	1.21		
DRO >C10-C28*	7650	10.0	10/01/2021	ND	224	112	200	0.138		
EXT DRO >C28-C36	1230	10.0	10/01/2021	ND						

Surrogate: 1-Chlorooctane 311 % 44.3-133

Surrogate: 1-Chlorooctadecane 250 % 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.
- 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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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: LEGACY RESERVES
Project Manager: DWIGHT MALLORY
Address: 1775 SHERMAN STREET, SUITE 1400
City: DENVER State: CO Zip: 80203
Phone #: 720-726-9729 Fax #:
Project #: Project Owner:
Project Name: SPAU INTJ
Project Location: LEA COUNTY, NM
Sampler Name: DWIGHT MALLORY
BILL TO ANALYSIS REQUEST
Matrix: GROUNDWATER, WASTEWATER, SOIL, OIL, SLUDGE, OTHER
Preserv: ACID/BASE, ICE/COOL, OTHER
Sampling: DATE, TIME
TPH 8015M, BTEX 8024, CHLORIDES 3M4500

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Relinquished By: [Signature] Date: 10-1-22 Received By: [Signature] Verbal Result: [] Yes [] No Add'l Phone #:
REMARKS: dmallory@legacyreserves.com
Delivered By: (Circle One) Observed Temp. °C 3.9 Sample Condition Cool Intact CHECKED BY: (Initials) Turnaround Time: Standard [x] Rush [] Bacteria (only) Sample Condition
Corrected Temp. °C 3.4 [x] Yes [] No [] Yes [] No [] Yes [] No [] No [] No Corrected Temp. °C

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



Environment Testing
America

ANALYTICAL REPORT

Eurofins Xenco, Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-7439-1
Laboratory Sample Delivery Group: Rural Lea Co, NM
Client Project/Site: SPAU Injection Line

For:
Etech Environmental & Safety Solutions
PO BOX 62228
Midland, Texas 79711

Attn: Joel Lowry

Authorized for release by:
10/29/2021 9:00:18 PM

Jessica Kramer, Project Manager
(432)704-5440
jessica.kramer@eurofinset.com



LINKS

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www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Client: Etech Environmental & Safety Solutions
Project/Site: SPAU Injection Line

Laboratory Job ID: 880-7439-1
SDG: Rural Lea Co, NM

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Definitions/Glossary

Client: Etech Environmental & Safety Solutions
Project/Site: SPAU Injection Line

Job ID: 880-7439-1
SDG: Rural Lea Co, NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Etech Environmental & Safety Solutions
Project/Site: SPAU Injection Line

Job ID: 880-7439-1
SDG: Rural Lea Co, NM

Job ID: 880-7439-1

Laboratory: Eurofins Xenco, Midland

Narrative

Job Narrative
880-7439-1

Receipt

The samples were received on 10/21/2021 10:17 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.7°C

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: SP2 @ Surface (880-7439-3) and (890-1460-A-1-E). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (MB 880-10672/1-A). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.



Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: SPAU Injection LineJob ID: 880-7439-1
SDG: Rural Lea Co, NM

Client Sample ID: SP1 @ Surface

Lab Sample ID: 880-7439-1

Date Collected: 10/19/21 00:00

Matrix: Solid

Date Received: 10/21/21 10:17

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/25/21 13:53	10/27/21 03:04	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/25/21 13:53	10/27/21 03:04	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/25/21 13:53	10/27/21 03:04	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/25/21 13:53	10/27/21 03:04	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/25/21 13:53	10/27/21 03:04	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/25/21 13:53	10/27/21 03:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	10/25/21 13:53	10/27/21 03:04	1
1,4-Difluorobenzene (Surr)	113		70 - 130	10/25/21 13:53	10/27/21 03:04	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/29/21 15:37	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			10/27/21 12:19	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		10/27/21 08:37	10/27/21 11:22	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/27/21 08:37	10/27/21 11:22	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/27/21 08:37	10/27/21 11:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130	10/27/21 08:37	10/27/21 11:22	1
o-Terphenyl	115		70 - 130	10/27/21 08:37	10/27/21 11:22	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	270		5.05		mg/Kg			10/28/21 21:57	1

Client Sample ID: SP1 @ 1'

Lab Sample ID: 880-7439-2

Date Collected: 10/19/21 00:00

Matrix: Solid

Date Received: 10/21/21 10:17

Sample Depth: 1'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/25/21 13:53	10/27/21 03:25	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/25/21 13:53	10/27/21 03:25	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/25/21 13:53	10/27/21 03:25	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/25/21 13:53	10/27/21 03:25	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/25/21 13:53	10/27/21 03:25	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/25/21 13:53	10/27/21 03:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	10/25/21 13:53	10/27/21 03:25	1
1,4-Difluorobenzene (Surr)	103		70 - 130	10/25/21 13:53	10/27/21 03:25	1

Eurofins Xenco, Midland

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: SPAU Injection LineJob ID: 880-7439-1
SDG: Rural Lea Co, NM

Client Sample ID: SP1 @ 1'

Lab Sample ID: 880-7439-2

Date Collected: 10/19/21 00:00

Matrix: Solid

Date Received: 10/21/21 10:17

Sample Depth: 1'

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/29/21 15:37	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			10/27/21 12:19	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		10/27/21 08:37	10/27/21 12:26	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/27/21 08:37	10/27/21 12:26	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/27/21 08:37	10/27/21 12:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130				10/27/21 08:37	10/27/21 12:26	1
o-Terphenyl	104		70 - 130				10/27/21 08:37	10/27/21 12:26	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	104		5.00		mg/Kg			10/28/21 22:19	1

Client Sample ID: SP2 @ Surface

Lab Sample ID: 880-7439-3

Date Collected: 10/19/21 00:00

Matrix: Solid

Date Received: 10/21/21 10:17

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/25/21 13:53	10/27/21 08:34	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/25/21 13:53	10/27/21 08:34	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/25/21 13:53	10/27/21 08:34	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/25/21 13:53	10/27/21 08:34	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/25/21 13:53	10/27/21 08:34	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/25/21 13:53	10/27/21 08:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130				10/25/21 13:53	10/27/21 08:34	1
1,4-Difluorobenzene (Surr)	47	S1-	70 - 130				10/25/21 13:53	10/27/21 08:34	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/29/21 15:37	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			10/27/21 12:19	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/27/21 08:37	10/27/21 12:48	1

Eurofins Xenco, Midland

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: SPAU Injection LineJob ID: 880-7439-1
SDG: Rural Lea Co, NM

Client Sample ID: SP2 @ Surface

Lab Sample ID: 880-7439-3

Date Collected: 10/19/21 00:00

Matrix: Solid

Date Received: 10/21/21 10:17

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/27/21 08:37	10/27/21 12:48	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/27/21 08:37	10/27/21 12:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130				10/27/21 08:37	10/27/21 12:48	1
o-Terphenyl	109		70 - 130				10/27/21 08:37	10/27/21 12:48	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	104		4.95		mg/Kg			10/28/21 22:26	1

Client Sample ID: SP2 @ 1'

Lab Sample ID: 880-7439-4

Date Collected: 10/19/21 00:00

Matrix: Solid

Date Received: 10/21/21 10:17

Sample Depth: 1'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/25/21 13:53	10/27/21 08:54	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/25/21 13:53	10/27/21 08:54	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/25/21 13:53	10/27/21 08:54	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		10/25/21 13:53	10/27/21 08:54	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/25/21 13:53	10/27/21 08:54	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/25/21 13:53	10/27/21 08:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130				10/25/21 13:53	10/27/21 08:54	1
1,4-Difluorobenzene (Surr)	99		70 - 130				10/25/21 13:53	10/27/21 08:54	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			10/29/21 15:37	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			10/27/21 12:19	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/27/21 08:37	10/27/21 13:09	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/27/21 08:37	10/27/21 13:09	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/27/21 08:37	10/27/21 13:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130				10/27/21 08:37	10/27/21 13:09	1
o-Terphenyl	92		70 - 130				10/27/21 08:37	10/27/21 13:09	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	87.6		4.95		mg/Kg			10/28/21 22:33	1

Eurofins Xenco, Midland

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: SPAU Injection LineJob ID: 880-7439-1
SDG: Rural Lea Co, NM

Client Sample ID: NH @ Surface

Lab Sample ID: 880-7439-5

Date Collected: 10/19/21 00:00

Matrix: Solid

Date Received: 10/21/21 10:17

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/25/21 13:53	10/27/21 09:20	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/25/21 13:53	10/27/21 09:20	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/25/21 13:53	10/27/21 09:20	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/25/21 13:53	10/27/21 09:20	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/25/21 13:53	10/27/21 09:20	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/25/21 13:53	10/27/21 09:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130	10/25/21 13:53	10/27/21 09:20	1
1,4-Difluorobenzene (Surr)	98		70 - 130	10/25/21 13:53	10/27/21 09:20	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/29/21 15:37	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			10/27/21 12:19	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		10/27/21 08:37	10/27/21 13:31	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		10/27/21 08:37	10/27/21 13:31	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		10/27/21 08:37	10/27/21 13:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	45	S1-	70 - 130	10/27/21 08:37	10/27/21 13:31	1
o-Terphenyl	45	S1-	70 - 130	10/27/21 08:37	10/27/21 13:31	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	424		5.05		mg/Kg			10/28/21 22:40	1

Client Sample ID: NH @ 1'

Lab Sample ID: 880-7439-6

Date Collected: 10/19/21 00:00

Matrix: Solid

Date Received: 10/21/21 10:17

Sample Depth: 1'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		10/25/21 13:53	10/27/21 09:41	1
Toluene	<0.00202	U	0.00202		mg/Kg		10/25/21 13:53	10/27/21 09:41	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		10/25/21 13:53	10/27/21 09:41	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		10/25/21 13:53	10/27/21 09:41	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		10/25/21 13:53	10/27/21 09:41	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		10/25/21 13:53	10/27/21 09:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	10/25/21 13:53	10/27/21 09:41	1
1,4-Difluorobenzene (Surr)	110		70 - 130	10/25/21 13:53	10/27/21 09:41	1

Eurofins Xenco, Midland

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: SPAU Injection LineJob ID: 880-7439-1
SDG: Rural Lea Co, NM

Client Sample ID: NH @ 1'

Lab Sample ID: 880-7439-6

Date Collected: 10/19/21 00:00

Matrix: Solid

Date Received: 10/21/21 10:17

Sample Depth: 1'

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			10/29/21 15:37	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			10/27/21 12:19	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/27/21 08:37	10/27/21 13:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/27/21 08:37	10/27/21 13:52	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/27/21 08:37	10/27/21 13:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130				10/27/21 08:37	10/27/21 13:52	1
o-Terphenyl	97		70 - 130				10/27/21 08:37	10/27/21 13:52	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	236		5.04		mg/Kg			10/28/21 23:02	1

Client Sample ID: EH @ Surface

Lab Sample ID: 880-7439-7

Date Collected: 10/19/21 00:00

Matrix: Solid

Date Received: 10/21/21 10:17

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/25/21 13:53	10/27/21 10:01	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/25/21 13:53	10/27/21 10:01	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/25/21 13:53	10/27/21 10:01	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		10/25/21 13:53	10/27/21 10:01	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/25/21 13:53	10/27/21 10:01	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		10/25/21 13:53	10/27/21 10:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130				10/25/21 13:53	10/27/21 10:01	1
1,4-Difluorobenzene (Surr)	113		70 - 130				10/25/21 13:53	10/27/21 10:01	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			10/29/21 15:37	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			10/27/21 13:36	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		10/27/21 08:37	10/27/21 14:14	1

Eurofins Xenco, Midland

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: SPAU Injection LineJob ID: 880-7439-1
SDG: Rural Lea Co, NM

Client Sample ID: EH @ Surface

Lab Sample ID: 880-7439-7

Date Collected: 10/19/21 00:00

Matrix: Solid

Date Received: 10/21/21 10:17

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		10/27/21 08:37	10/27/21 14:14	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		10/27/21 08:37	10/27/21 14:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130				10/27/21 08:37	10/27/21 14:14	1
o-Terphenyl	113		70 - 130				10/27/21 08:37	10/27/21 14:14	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18.3		4.98		mg/Kg			10/28/21 23:09	1

Client Sample ID: EH @ 1'

Lab Sample ID: 880-7439-8

Date Collected: 10/19/21 00:00

Matrix: Solid

Date Received: 10/21/21 10:17

Sample Depth: 1'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/25/21 13:53	10/27/21 10:22	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/25/21 13:53	10/27/21 10:22	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/25/21 13:53	10/27/21 10:22	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/25/21 13:53	10/27/21 10:22	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/25/21 13:53	10/27/21 10:22	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/25/21 13:53	10/27/21 10:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130				10/25/21 13:53	10/27/21 10:22	1
1,4-Difluorobenzene (Surr)	113		70 - 130				10/25/21 13:53	10/27/21 10:22	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/29/21 15:37	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			10/27/21 13:36	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/27/21 08:37	10/27/21 14:35	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/27/21 08:37	10/27/21 14:35	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/27/21 08:37	10/27/21 14:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130				10/27/21 08:37	10/27/21 14:35	1
o-Terphenyl	108		70 - 130				10/27/21 08:37	10/27/21 14:35	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	246		5.00		mg/Kg			10/28/21 23:16	1

Eurofins Xenco, Midland

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: SPAU Injection LineJob ID: 880-7439-1
SDG: Rural Lea Co, NM

Client Sample ID: SH @ Surface

Lab Sample ID: 880-7439-9

Date Collected: 10/19/21 00:00

Matrix: Solid

Date Received: 10/21/21 10:17

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		10/25/21 13:53	10/27/21 10:43	1
Toluene	<0.00201	U	0.00201		mg/Kg		10/25/21 13:53	10/27/21 10:43	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		10/25/21 13:53	10/27/21 10:43	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		10/25/21 13:53	10/27/21 10:43	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		10/25/21 13:53	10/27/21 10:43	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		10/25/21 13:53	10/27/21 10:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	10/25/21 13:53	10/27/21 10:43	1
1,4-Difluorobenzene (Surr)	107		70 - 130	10/25/21 13:53	10/27/21 10:43	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			10/28/21 15:21	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			10/27/21 13:36	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		10/27/21 08:37	10/27/21 14:57	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/27/21 08:37	10/27/21 14:57	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/27/21 08:37	10/27/21 14:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130	10/27/21 08:37	10/27/21 14:57	1
o-Terphenyl	107		70 - 130	10/27/21 08:37	10/27/21 14:57	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	336		4.95		mg/Kg			10/28/21 23:23	1

Client Sample ID: SH @ 1'

Lab Sample ID: 880-7439-10

Date Collected: 10/19/21 00:00

Matrix: Solid

Date Received: 10/21/21 10:17

Sample Depth: 1'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/25/21 13:53	10/27/21 11:04	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/25/21 13:53	10/27/21 11:04	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/25/21 13:53	10/27/21 11:04	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		10/25/21 13:53	10/27/21 11:04	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/25/21 13:53	10/27/21 11:04	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		10/25/21 13:53	10/27/21 11:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	10/25/21 13:53	10/27/21 11:04	1
1,4-Difluorobenzene (Surr)	111		70 - 130	10/25/21 13:53	10/27/21 11:04	1

Eurofins Xenco, Midland

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: SPAU Injection LineJob ID: 880-7439-1
SDG: Rural Lea Co, NM

Client Sample ID: SH @ 1'

Lab Sample ID: 880-7439-10

Date Collected: 10/19/21 00:00

Matrix: Solid

Date Received: 10/21/21 10:17

Sample Depth: 1'

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			10/28/21 15:21	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			10/27/21 13:36	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		10/27/21 08:37	10/27/21 15:18	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/27/21 08:37	10/27/21 15:18	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/27/21 08:37	10/27/21 15:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130				10/27/21 08:37	10/27/21 15:18	1
o-Terphenyl	92		70 - 130				10/27/21 08:37	10/27/21 15:18	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	501		4.98		mg/Kg			10/28/21 23:30	1

Client Sample ID: WH @ Surface

Lab Sample ID: 880-7439-11

Date Collected: 10/19/21 00:00

Matrix: Solid

Date Received: 10/21/21 10:17

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		10/25/21 13:53	10/27/21 11:24	1
Toluene	<0.00201	U	0.00201		mg/Kg		10/25/21 13:53	10/27/21 11:24	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		10/25/21 13:53	10/27/21 11:24	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		10/25/21 13:53	10/27/21 11:24	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		10/25/21 13:53	10/27/21 11:24	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		10/25/21 13:53	10/27/21 11:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	43	S1-	70 - 130				10/25/21 13:53	10/27/21 11:24	1
1,4-Difluorobenzene (Surr)	112		70 - 130				10/25/21 13:53	10/27/21 11:24	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			10/28/21 15:21	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			10/27/21 13:36	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		10/27/21 08:37	10/27/21 16:01	1

Eurofins Xenco, Midland

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: SPAU Injection Line

Job ID: 880-7439-1
SDG: Rural Lea Co, NM

Client Sample ID: WH @ Surface

Lab Sample ID: 880-7439-11

Date Collected: 10/19/21 00:00

Matrix: Solid

Date Received: 10/21/21 10:17

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/27/21 08:37	10/27/21 16:01	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/27/21 08:37	10/27/21 16:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130				10/27/21 08:37	10/27/21 16:01	1
o-Terphenyl	91		70 - 130				10/27/21 08:37	10/27/21 16:01	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	231		5.00		mg/Kg			10/28/21 23:38	1

Client Sample ID: WH @ 1'

Lab Sample ID: 880-7439-12

Date Collected: 10/19/21 00:00

Matrix: Solid

Date Received: 10/21/21 10:17

Sample Depth: 1'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		10/25/21 13:53	10/27/21 11:45	1
Toluene	<0.00201	U	0.00201		mg/Kg		10/25/21 13:53	10/27/21 11:45	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		10/25/21 13:53	10/27/21 11:45	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		10/25/21 13:53	10/27/21 11:45	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		10/25/21 13:53	10/27/21 11:45	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		10/25/21 13:53	10/27/21 11:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130				10/25/21 13:53	10/27/21 11:45	1
1,4-Difluorobenzene (Surr)	111		70 - 130				10/25/21 13:53	10/27/21 11:45	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			10/28/21 15:21	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			10/27/21 13:36	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		10/27/21 08:37	10/27/21 16:22	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/27/21 08:37	10/27/21 16:22	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/27/21 08:37	10/27/21 16:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130				10/27/21 08:37	10/27/21 16:22	1
o-Terphenyl	101		70 - 130				10/27/21 08:37	10/27/21 16:22	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	117		4.95		mg/Kg			10/28/21 23:59	1

Eurofins Xenco, Midland

Surrogate Summary

Client: Etech Environmental & Safety Solutions
Project/Site: SPAU Injection Line

Job ID: 880-7439-1
SDG: Rural Lea Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
880-7439-1	SP1 @ Surface	104	113
880-7439-2	SP1 @ 1'	98	103
880-7439-3	SP2 @ Surface	92	47 S1-
880-7439-4	SP2 @ 1'	100	99
880-7439-5	NH @ Surface	89	98
880-7439-6	NH @ 1'	103	110
880-7439-7	EH @ Surface	100	113
880-7439-8	EH @ 1'	104	113
880-7439-9	SH @ Surface	90	107
880-7439-10	SH @ 1'	99	111
880-7439-11	WH @ Surface	43 S1-	112
880-7439-12	WH @ 1'	95	111
890-1460-A-1-C MS	Matrix Spike	90	110
890-1460-A-1-D MSD	Matrix Spike Duplicate	101	101
LCS 880-10431/1-A	Lab Control Sample	92	106
LCSD 880-10431/2-A	Lab Control Sample Dup	91	106
MB 880-10013/5-A	Method Blank	101	103
MB 880-10431/5-A	Method Blank	112	111

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-130)	OTPH1 (70-130)
880-7439-1	SP1 @ Surface	115	115
880-7439-1 MS	SP1 @ Surface	89	85
880-7439-1 MSD	SP1 @ Surface	92	89
880-7439-2	SP1 @ 1'	98	104
880-7439-3	SP2 @ Surface	105	109
880-7439-4	SP2 @ 1'	87	92
880-7439-5	NH @ Surface	45 S1-	45 S1-
880-7439-6	NH @ 1'	96	97
880-7439-7	EH @ Surface	113	113
880-7439-8	EH @ 1'	109	108
880-7439-9	SH @ Surface	111	107
880-7439-10	SH @ 1'	89	92
880-7439-11	WH @ Surface	90	91
880-7439-12	WH @ 1'	96	101
LCS 880-10672/2-A	Lab Control Sample	82	83
LCSD 880-10672/3-A	Lab Control Sample Dup	74	76
MB 880-10672/1-A	Method Blank	122	131 S1+

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

Eurofins Xenco, Midland

QC Sample Results

Client: Etech Environmental & Safety Solutions
 Project/Site: SPAU Injection Line

Job ID: 880-7439-1
 SDG: Rural Lea Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-10013/5-A
 Matrix: Solid
 Analysis Batch: 10595

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 10013

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.00200	U	0.00200		mg/Kg		10/20/21 14:34	10/26/21 12:51	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/20/21 14:34	10/26/21 12:51	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/20/21 14:34	10/26/21 12:51	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/20/21 14:34	10/26/21 12:51	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/20/21 14:34	10/26/21 12:51	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/20/21 14:34	10/26/21 12:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130				10/20/21 14:34	10/26/21 12:51	1
1,4-Difluorobenzene (Surr)	103		70 - 130				10/20/21 14:34	10/26/21 12:51	1

Lab Sample ID: MB 880-10431/5-A
 Matrix: Solid
 Analysis Batch: 10595

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 10431

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.00200	U	0.00200		mg/Kg		10/25/21 13:53	10/26/21 23:55	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/25/21 13:53	10/26/21 23:55	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/25/21 13:53	10/26/21 23:55	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/25/21 13:53	10/26/21 23:55	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/25/21 13:53	10/26/21 23:55	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/25/21 13:53	10/26/21 23:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130				10/25/21 13:53	10/26/21 23:55	1
1,4-Difluorobenzene (Surr)	111		70 - 130				10/25/21 13:53	10/26/21 23:55	1

Lab Sample ID: LCS 880-10431/1-A
 Matrix: Solid
 Analysis Batch: 10595

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 10431

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Toluene	0.100	0.07776		mg/Kg		78	70 - 130
Ethylbenzene	0.100	0.07993		mg/Kg		80	70 - 130
m-Xylene & p-Xylene	0.200	0.1507		mg/Kg		75	70 - 130
o-Xylene	0.100	0.07868		mg/Kg		79	70 - 130
Surrogate	%Recovery	Qualifier	Limits				
4-Bromofluorobenzene (Surr)	92		70 - 130				
1,4-Difluorobenzene (Surr)	106		70 - 130				

Lab Sample ID: LCSD 880-10431/2-A
 Matrix: Solid
 Analysis Batch: 10595

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 10431

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	
								RPD	Limit
Benzene	0.100	0.09955		mg/Kg		100	70 - 130	2	35

Eurofins Xenco, Midland

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: SPAU Injection LineJob ID: 880-7439-1
SDG: Rural Lea Co, NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-10431/2-A

Matrix: Solid

Analysis Batch: 10595

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 10431

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toluene	0.100	0.07700		mg/Kg		77	70 - 130	1	35
Ethylbenzene	0.100	0.07854		mg/Kg		79	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.1482		mg/Kg		74	70 - 130	2	35
o-Xylene	0.100	0.07709		mg/Kg		77	70 - 130	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	91		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: 890-1460-A-1-C MS

Matrix: Solid

Analysis Batch: 10595

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 10431

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00200	U	0.100	0.08277		mg/Kg		82	70 - 130
Toluene	<0.00200	U F1	0.100	0.03668	F1	mg/Kg		37	70 - 130
Ethylbenzene	<0.00200	U F1	0.100	0.04003	F1	mg/Kg		40	70 - 130
m-Xylene & p-Xylene	<0.00399	U F1	0.201	0.07580	F1	mg/Kg		38	70 - 130
o-Xylene	<0.00200	U F1	0.100	0.04952	F1	mg/Kg		49	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	90		70 - 130
1,4-Difluorobenzene (Surr)	110		70 - 130

Lab Sample ID: 890-1460-A-1-D MSD

Matrix: Solid

Analysis Batch: 10595

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 10431

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.07981		mg/Kg		80	70 - 130	4	35
Toluene	<0.00200	U F1	0.100	0.04108	F1	mg/Kg		41	70 - 130	11	35
Ethylbenzene	<0.00200	U F1	0.100	0.04430	F1	mg/Kg		44	70 - 130	10	35
m-Xylene & p-Xylene	<0.00399	U F1	0.200	0.08599	F1	mg/Kg		43	70 - 130	13	35
o-Xylene	<0.00200	U F1	0.100	0.05652	F1	mg/Kg		56	70 - 130	13	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-10672/1-A

Matrix: Solid

Analysis Batch: 10667

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 10672

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/27/21 08:37	10/27/21 10:19	1

Eurofins Xenco, Midland

QC Sample Results

Client: Etech Environmental & Safety Solutions
 Project/Site: SPAU Injection Line

Job ID: 880-7439-1
 SDG: Rural Lea Co, NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-10672/1-A
Matrix: Solid
Analysis Batch: 10667

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 10672

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/27/21 08:37	10/27/21 10:19	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/27/21 08:37	10/27/21 10:19	1
Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac			
	%Recovery	Qualifier							
1-Chlorooctane	122		70 - 130	10/27/21 08:37	10/27/21 10:19	1			
o-Terphenyl	131	S1+	70 - 130	10/27/21 08:37	10/27/21 10:19	1			

Lab Sample ID: LCS 880-10672/2-A
Matrix: Solid
Analysis Batch: 10667

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 10672

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics (Over C10-C28)	1000	1037		mg/Kg		104	70 - 130
Surrogate	LCS	LCS	Limits				
	%Recovery	Qualifier					
1-Chlorooctane	82		70 - 130				
o-Terphenyl	83		70 - 130				

Lab Sample ID: LCSD 880-10672/3-A
Matrix: Solid
Analysis Batch: 10667

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 10672

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	
								RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	1000	730.4		mg/Kg		73	70 - 130	15	20
Diesel Range Organics (Over C10-C28)	1000	975.1		mg/Kg		98	70 - 130	6	20
Surrogate	LCSD	LCSD	Limits						
	%Recovery	Qualifier							
1-Chlorooctane	74		70 - 130						
o-Terphenyl	76		70 - 130						

Lab Sample ID: 880-7439-1 MS
Matrix: Solid
Analysis Batch: 10667

Client Sample ID: SP1 @ Surface
Prep Type: Total/NA
Prep Batch: 10672

Analyte	Sample	Sample	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	757.9		mg/Kg		74	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	997	804.9		mg/Kg		81	70 - 130
Surrogate	MS	MS	Limits						
	%Recovery	Qualifier							
1-Chlorooctane	89		70 - 130						
o-Terphenyl	85		70 - 130						

Eurofins Xenco, Midland

QC Sample Results

Client: Etech Environmental & Safety Solutions
 Project/Site: SPAU Injection Line

Job ID: 880-7439-1
 SDG: Rural Lea Co, NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-7439-1 MSD
 Matrix: Solid
 Analysis Batch: 10667

Client Sample ID: SP1 @ Surface
 Prep Type: Total/NA
 Prep Batch: 10672

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1000	753.3		mg/Kg		73	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	861.0		mg/Kg		86	70 - 130	7	20
Surrogate	%Recovery	MSD Qualifier	MSD	Limits							
1-Chlorooctane	92			70 - 130							
o-Terphenyl	89			70 - 130							

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-10655/1-A
 Matrix: Solid
 Analysis Batch: 10796

Client Sample ID: Method Blank
 Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			10/28/21 21:36	1

Lab Sample ID: LCS 880-10655/2-A
 Matrix: Solid
 Analysis Batch: 10796

Client Sample ID: Lab Control Sample
 Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	255.1		mg/Kg		102	90 - 110

Lab Sample ID: LCSD 880-10655/3-A
 Matrix: Solid
 Analysis Batch: 10796

Client Sample ID: Lab Control Sample Dup
 Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	258.2		mg/Kg		103	90 - 110	1	20

Lab Sample ID: 880-7439-1 MS
 Matrix: Solid
 Analysis Batch: 10796

Client Sample ID: SP1 @ Surface
 Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	270		253	517.6		mg/Kg		98	90 - 110

Lab Sample ID: 880-7439-1 MSD
 Matrix: Solid
 Analysis Batch: 10796

Client Sample ID: SP1 @ Surface
 Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	270		253	529.8		mg/Kg		103	90 - 110	2	20

Eurofins Xenco, Midland

QC Sample Results

Client: Etech Environmental & Safety Solutions
 Project/Site: SPAU Injection Line

Job ID: 880-7439-1
 SDG: Rural Lea Co, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-7439-11 MS
Matrix: Solid
Analysis Batch: 10796

Client Sample ID: WH @ Surface
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	231		250	470.3		mg/Kg		96	90 - 110

Lab Sample ID: 880-7439-11 MSD
Matrix: Solid
Analysis Batch: 10796

Client Sample ID: WH @ Surface
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	231		250	472.4		mg/Kg		97	90 - 110	0	20

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QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: SPAU Injection Line

Job ID: 880-7439-1
SDG: Rural Lea Co, NM

GC VOA

Prep Batch: 10013

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-10013/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 10431

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-7439-1	SP1 @ Surface	Total/NA	Solid	5035	
880-7439-2	SP1 @ 1'	Total/NA	Solid	5035	
880-7439-3	SP2 @ Surface	Total/NA	Solid	5035	
880-7439-4	SP2 @ 1'	Total/NA	Solid	5035	
880-7439-5	NH @ Surface	Total/NA	Solid	5035	
880-7439-6	NH @ 1'	Total/NA	Solid	5035	
880-7439-7	EH @ Surface	Total/NA	Solid	5035	
880-7439-8	EH @ 1'	Total/NA	Solid	5035	
880-7439-9	SH @ Surface	Total/NA	Solid	5035	
880-7439-10	SH @ 1'	Total/NA	Solid	5035	
880-7439-11	WH @ Surface	Total/NA	Solid	5035	
880-7439-12	WH @ 1'	Total/NA	Solid	5035	
MB 880-10431/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-10431/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCS 880-10431/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1460-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
890-1460-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 10595

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-7439-1	SP1 @ Surface	Total/NA	Solid	8021B	10431
880-7439-2	SP1 @ 1'	Total/NA	Solid	8021B	10431
880-7439-3	SP2 @ Surface	Total/NA	Solid	8021B	10431
880-7439-4	SP2 @ 1'	Total/NA	Solid	8021B	10431
880-7439-5	NH @ Surface	Total/NA	Solid	8021B	10431
880-7439-6	NH @ 1'	Total/NA	Solid	8021B	10431
880-7439-7	EH @ Surface	Total/NA	Solid	8021B	10431
880-7439-8	EH @ 1'	Total/NA	Solid	8021B	10431
880-7439-9	SH @ Surface	Total/NA	Solid	8021B	10431
880-7439-10	SH @ 1'	Total/NA	Solid	8021B	10431
880-7439-11	WH @ Surface	Total/NA	Solid	8021B	10431
880-7439-12	WH @ 1'	Total/NA	Solid	8021B	10431
MB 880-10013/5-A	Method Blank	Total/NA	Solid	8021B	10013
MB 880-10431/5-A	Method Blank	Total/NA	Solid	8021B	10431
LCS 880-10431/1-A	Lab Control Sample	Total/NA	Solid	8021B	10431
LCS 880-10431/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	10431
890-1460-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	10431
890-1460-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	10431

Analysis Batch: 10854

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-7439-9	SH @ Surface	Total/NA	Solid	Total BTEX	
880-7439-10	SH @ 1'	Total/NA	Solid	Total BTEX	
880-7439-11	WH @ Surface	Total/NA	Solid	Total BTEX	
880-7439-12	WH @ 1'	Total/NA	Solid	Total BTEX	

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QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: SPAU Injection Line

Job ID: 880-7439-1
SDG: Rural Lea Co, NM

GC VOA

Analysis Batch: 10986

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-7439-1	SP1 @ Surface	Total/NA	Solid	Total BTEX	
880-7439-2	SP1 @ 1'	Total/NA	Solid	Total BTEX	
880-7439-3	SP2 @ Surface	Total/NA	Solid	Total BTEX	
880-7439-4	SP2 @ 1'	Total/NA	Solid	Total BTEX	
880-7439-5	NH @ Surface	Total/NA	Solid	Total BTEX	
880-7439-6	NH @ 1'	Total/NA	Solid	Total BTEX	
880-7439-7	EH @ Surface	Total/NA	Solid	Total BTEX	
880-7439-8	EH @ 1'	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 10667

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-7439-1	SP1 @ Surface	Total/NA	Solid	8015B NM	10672
880-7439-2	SP1 @ 1'	Total/NA	Solid	8015B NM	10672
880-7439-3	SP2 @ Surface	Total/NA	Solid	8015B NM	10672
880-7439-4	SP2 @ 1'	Total/NA	Solid	8015B NM	10672
880-7439-5	NH @ Surface	Total/NA	Solid	8015B NM	10672
880-7439-6	NH @ 1'	Total/NA	Solid	8015B NM	10672
880-7439-7	EH @ Surface	Total/NA	Solid	8015B NM	10672
880-7439-8	EH @ 1'	Total/NA	Solid	8015B NM	10672
880-7439-9	SH @ Surface	Total/NA	Solid	8015B NM	10672
880-7439-10	SH @ 1'	Total/NA	Solid	8015B NM	10672
880-7439-11	WH @ Surface	Total/NA	Solid	8015B NM	10672
880-7439-12	WH @ 1'	Total/NA	Solid	8015B NM	10672
MB 880-10672/1-A	Method Blank	Total/NA	Solid	8015B NM	10672
LCS 880-10672/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	10672
LCSD 880-10672/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	10672
880-7439-1 MS	SP1 @ Surface	Total/NA	Solid	8015B NM	10672
880-7439-1 MSD	SP1 @ Surface	Total/NA	Solid	8015B NM	10672

Prep Batch: 10672

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-7439-1	SP1 @ Surface	Total/NA	Solid	8015NM Prep	
880-7439-2	SP1 @ 1'	Total/NA	Solid	8015NM Prep	
880-7439-3	SP2 @ Surface	Total/NA	Solid	8015NM Prep	
880-7439-4	SP2 @ 1'	Total/NA	Solid	8015NM Prep	
880-7439-5	NH @ Surface	Total/NA	Solid	8015NM Prep	
880-7439-6	NH @ 1'	Total/NA	Solid	8015NM Prep	
880-7439-7	EH @ Surface	Total/NA	Solid	8015NM Prep	
880-7439-8	EH @ 1'	Total/NA	Solid	8015NM Prep	
880-7439-9	SH @ Surface	Total/NA	Solid	8015NM Prep	
880-7439-10	SH @ 1'	Total/NA	Solid	8015NM Prep	
880-7439-11	WH @ Surface	Total/NA	Solid	8015NM Prep	
880-7439-12	WH @ 1'	Total/NA	Solid	8015NM Prep	
MB 880-10672/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-10672/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-10672/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-7439-1 MS	SP1 @ Surface	Total/NA	Solid	8015NM Prep	
880-7439-1 MSD	SP1 @ Surface	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Etech Environmental & Safety Solutions
 Project/Site: SPAU Injection Line

Job ID: 880-7439-1
 SDG: Rural Lea Co, NM

GC Semi VOA

Analysis Batch: 10676

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-7439-1	SP1 @ Surface	Total/NA	Solid	8015 NM	
880-7439-2	SP1 @ 1'	Total/NA	Solid	8015 NM	
880-7439-3	SP2 @ Surface	Total/NA	Solid	8015 NM	
880-7439-4	SP2 @ 1'	Total/NA	Solid	8015 NM	
880-7439-5	NH @ Surface	Total/NA	Solid	8015 NM	
880-7439-6	NH @ 1'	Total/NA	Solid	8015 NM	
880-7439-7	EH @ Surface	Total/NA	Solid	8015 NM	
880-7439-8	EH @ 1'	Total/NA	Solid	8015 NM	
880-7439-9	SH @ Surface	Total/NA	Solid	8015 NM	
880-7439-10	SH @ 1'	Total/NA	Solid	8015 NM	
880-7439-11	WH @ Surface	Total/NA	Solid	8015 NM	
880-7439-12	WH @ 1'	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 10655

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-7439-1	SP1 @ Surface	Soluble	Solid	DI Leach	
880-7439-2	SP1 @ 1'	Soluble	Solid	DI Leach	
880-7439-3	SP2 @ Surface	Soluble	Solid	DI Leach	
880-7439-4	SP2 @ 1'	Soluble	Solid	DI Leach	
880-7439-5	NH @ Surface	Soluble	Solid	DI Leach	
880-7439-6	NH @ 1'	Soluble	Solid	DI Leach	
880-7439-7	EH @ Surface	Soluble	Solid	DI Leach	
880-7439-8	EH @ 1'	Soluble	Solid	DI Leach	
880-7439-9	SH @ Surface	Soluble	Solid	DI Leach	
880-7439-10	SH @ 1'	Soluble	Solid	DI Leach	
880-7439-11	WH @ Surface	Soluble	Solid	DI Leach	
880-7439-12	WH @ 1'	Soluble	Solid	DI Leach	
MB 880-10655/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-10655/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCS 880-10655/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-7439-1 MS	SP1 @ Surface	Soluble	Solid	DI Leach	
880-7439-1 MSD	SP1 @ Surface	Soluble	Solid	DI Leach	
880-7439-11 MS	WH @ Surface	Soluble	Solid	DI Leach	
880-7439-11 MSD	WH @ Surface	Soluble	Solid	DI Leach	

Analysis Batch: 10796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-7439-1	SP1 @ Surface	Soluble	Solid	300.0	10655
880-7439-2	SP1 @ 1'	Soluble	Solid	300.0	10655
880-7439-3	SP2 @ Surface	Soluble	Solid	300.0	10655
880-7439-4	SP2 @ 1'	Soluble	Solid	300.0	10655
880-7439-5	NH @ Surface	Soluble	Solid	300.0	10655
880-7439-6	NH @ 1'	Soluble	Solid	300.0	10655
880-7439-7	EH @ Surface	Soluble	Solid	300.0	10655
880-7439-8	EH @ 1'	Soluble	Solid	300.0	10655
880-7439-9	SH @ Surface	Soluble	Solid	300.0	10655
880-7439-10	SH @ 1'	Soluble	Solid	300.0	10655
880-7439-11	WH @ Surface	Soluble	Solid	300.0	10655
880-7439-12	WH @ 1'	Soluble	Solid	300.0	10655

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QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: SPAU Injection Line

Job ID: 880-7439-1
SDG: Rural Lea Co, NM

HPLC/IC (Continued)

Analysis Batch: 10796 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-10655/1-A	Method Blank	Soluble	Solid	300.0	10655
LCS 880-10655/2-A	Lab Control Sample	Soluble	Solid	300.0	10655
LCSD 880-10655/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	10655
880-7439-1 MS	SP1 @ Surface	Soluble	Solid	300.0	10655
880-7439-1 MSD	SP1 @ Surface	Soluble	Solid	300.0	10655
880-7439-11 MS	WH @ Surface	Soluble	Solid	300.0	10655
880-7439-11 MSD	WH @ Surface	Soluble	Solid	300.0	10655

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Lab Chronicle

Client: Etech Environmental & Safety Solutions
Project/Site: SPAU Injection Line

Job ID: 880-7439-1
SDG: Rural Lea Co, NM

Client Sample ID: SP1 @ Surface

Lab Sample ID: 880-7439-1

Date Collected: 10/19/21 00:00

Matrix: Solid

Date Received: 10/21/21 10:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	10431	10/25/21 13:53	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10595	10/27/21 03:04	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10986	10/29/21 15:37	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10676	10/27/21 12:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	10672	10/27/21 08:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10667	10/27/21 11:22	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	10655	10/26/21 16:59	CA	XEN MID
Soluble	Analysis	300.0		1			10796	10/28/21 21:57	CH	XEN MID

Client Sample ID: SP1 @ 1'

Lab Sample ID: 880-7439-2

Date Collected: 10/19/21 00:00

Matrix: Solid

Date Received: 10/21/21 10:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	10431	10/25/21 13:53	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10595	10/27/21 03:25	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10986	10/29/21 15:37	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10676	10/27/21 12:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	10672	10/27/21 08:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10667	10/27/21 12:26	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	10655	10/26/21 16:59	CA	XEN MID
Soluble	Analysis	300.0		1			10796	10/28/21 22:19	CH	XEN MID

Client Sample ID: SP2 @ Surface

Lab Sample ID: 880-7439-3

Date Collected: 10/19/21 00:00

Matrix: Solid

Date Received: 10/21/21 10:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	10431	10/25/21 13:53	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10595	10/27/21 08:34	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10986	10/29/21 15:37	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10676	10/27/21 12:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	10672	10/27/21 08:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10667	10/27/21 12:48	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	10655	10/26/21 16:59	CA	XEN MID
Soluble	Analysis	300.0		1			10796	10/28/21 22:26	CH	XEN MID

Client Sample ID: SP2 @ 1'

Lab Sample ID: 880-7439-4

Date Collected: 10/19/21 00:00

Matrix: Solid

Date Received: 10/21/21 10:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	10431	10/25/21 13:53	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10595	10/27/21 08:54	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10986	10/29/21 15:37	AJ	XEN MID

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Lab Chronicle

Client: Etech Environmental & Safety Solutions
 Project/Site: SPAU Injection Line

Job ID: 880-7439-1
 SDG: Rural Lea Co, NM

Client Sample ID: SP2 @ 1'

Lab Sample ID: 880-7439-4

Date Collected: 10/19/21 00:00

Matrix: Solid

Date Received: 10/21/21 10:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			10676	10/27/21 12:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	10672	10/27/21 08:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10667	10/27/21 13:09	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	10655	10/26/21 16:59	CA	XEN MID
Soluble	Analysis	300.0		1			10796	10/28/21 22:33	CH	XEN MID

Client Sample ID: NH @ Surface

Lab Sample ID: 880-7439-5

Date Collected: 10/19/21 00:00

Matrix: Solid

Date Received: 10/21/21 10:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	10431	10/25/21 13:53	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10595	10/27/21 09:20	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10986	10/29/21 15:37	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10676	10/27/21 12:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	10672	10/27/21 08:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10667	10/27/21 13:31	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	10655	10/26/21 16:59	CA	XEN MID
Soluble	Analysis	300.0		1			10796	10/28/21 22:40	CH	XEN MID

Client Sample ID: NH @ 1'

Lab Sample ID: 880-7439-6

Date Collected: 10/19/21 00:00

Matrix: Solid

Date Received: 10/21/21 10:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	10431	10/25/21 13:53	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10595	10/27/21 09:41	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10986	10/29/21 15:37	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10676	10/27/21 12:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	10672	10/27/21 08:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10667	10/27/21 13:52	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	10655	10/26/21 16:59	CA	XEN MID
Soluble	Analysis	300.0		1			10796	10/28/21 23:02	CH	XEN MID

Client Sample ID: EH @ Surface

Lab Sample ID: 880-7439-7

Date Collected: 10/19/21 00:00

Matrix: Solid

Date Received: 10/21/21 10:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	10431	10/25/21 13:53	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10595	10/27/21 10:01	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10986	10/29/21 15:37	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10676	10/27/21 13:36	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	10672	10/27/21 08:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10667	10/27/21 14:14	AJ	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Project/Site: SPAU Injection Line

Job ID: 880-7439-1
SDG: Rural Lea Co, NM

Client Sample ID: EH @ Surface

Lab Sample ID: 880-7439-7

Date Collected: 10/19/21 00:00

Matrix: Solid

Date Received: 10/21/21 10:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	10655	10/26/21 16:59	CA	XEN MID
Soluble	Analysis	300.0		1			10796	10/28/21 23:09	CH	XEN MID

Client Sample ID: EH @ 1'

Lab Sample ID: 880-7439-8

Date Collected: 10/19/21 00:00

Matrix: Solid

Date Received: 10/21/21 10:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	10431	10/25/21 13:53	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10595	10/27/21 10:22	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10986	10/29/21 15:37	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10676	10/27/21 13:36	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	10672	10/27/21 08:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10667	10/27/21 14:35	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	10655	10/26/21 16:59	CA	XEN MID
Soluble	Analysis	300.0		1			10796	10/28/21 23:16	CH	XEN MID

Client Sample ID: SH @ Surface

Lab Sample ID: 880-7439-9

Date Collected: 10/19/21 00:00

Matrix: Solid

Date Received: 10/21/21 10:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	10431	10/25/21 13:53	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10595	10/27/21 10:43	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10854	10/28/21 15:21	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10676	10/27/21 13:36	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	10672	10/27/21 08:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10667	10/27/21 14:57	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	10655	10/26/21 16:59	CA	XEN MID
Soluble	Analysis	300.0		1			10796	10/28/21 23:23	CH	XEN MID

Client Sample ID: SH @ 1'

Lab Sample ID: 880-7439-10

Date Collected: 10/19/21 00:00

Matrix: Solid

Date Received: 10/21/21 10:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	10431	10/25/21 13:53	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10595	10/27/21 11:04	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10854	10/28/21 15:21	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10676	10/27/21 13:36	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	10672	10/27/21 08:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10667	10/27/21 15:18	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	10655	10/26/21 16:59	CA	XEN MID
Soluble	Analysis	300.0		1			10796	10/28/21 23:30	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Project/Site: SPAU Injection Line

Job ID: 880-7439-1
SDG: Rural Lea Co, NM

Client Sample ID: WH @ Surface

Lab Sample ID: 880-7439-11

Date Collected: 10/19/21 00:00

Matrix: Solid

Date Received: 10/21/21 10:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	10431	10/25/21 13:53	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10595	10/27/21 11:24	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10854	10/28/21 15:21	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10676	10/27/21 13:36	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	10672	10/27/21 08:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10667	10/27/21 16:01	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	10655	10/26/21 16:59	CA	XEN MID
Soluble	Analysis	300.0		1			10796	10/28/21 23:38	CH	XEN MID

Client Sample ID: WH @ 1'

Lab Sample ID: 880-7439-12

Date Collected: 10/19/21 00:00

Matrix: Solid

Date Received: 10/21/21 10:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	10431	10/25/21 13:53	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10595	10/27/21 11:45	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10854	10/28/21 15:21	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10676	10/27/21 13:36	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	10672	10/27/21 08:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10667	10/27/21 16:22	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	10655	10/26/21 16:59	CA	XEN MID
Soluble	Analysis	300.0		1			10796	10/28/21 23:59	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Etech Environmental & Safety Solutions
Project/Site: SPAU Injection Line

Job ID: 880-7439-1
SDG: Rural Lea Co, NM

Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

- 1
- 2
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Method Summary

Client: Etech Environmental & Safety Solutions
 Project/Site: SPAU Injection Line

Job ID: 880-7439-1
 SDG: Rural Lea Co, NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Etech Environmental & Safety Solutions
Project/Site: SPAU Injection Line

Job ID: 880-7439-1
SDG: Rural Lea Co, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-7439-1	SP1 @ Surface	Solid	10/19/21 00:00	10/21/21 10:17	
880-7439-2	SP1 @ 1'	Solid	10/19/21 00:00	10/21/21 10:17	1'
880-7439-3	SP2 @ Surface	Solid	10/19/21 00:00	10/21/21 10:17	
880-7439-4	SP2 @ 1'	Solid	10/19/21 00:00	10/21/21 10:17	1'
880-7439-5	NH @ Surface	Solid	10/19/21 00:00	10/21/21 10:17	
880-7439-6	NH @ 1'	Solid	10/19/21 00:00	10/21/21 10:17	1'
880-7439-7	EH @ Surface	Solid	10/19/21 00:00	10/21/21 10:17	
880-7439-8	EH @ 1'	Solid	10/19/21 00:00	10/21/21 10:17	1'
880-7439-9	SH @ Surface	Solid	10/19/21 00:00	10/21/21 10:17	
880-7439-10	SH @ 1'	Solid	10/19/21 00:00	10/21/21 10:17	1'
880-7439-11	WH @ Surface	Solid	10/19/21 00:00	10/21/21 10:17	
880-7439-12	WH @ 1'	Solid	10/19/21 00:00	10/21/21 10:17	1'

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Chain of Custody

Houston TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio TX (210) 509-3334
 Midland TX (432) 704-5440 EL Paso TX (915) 585-3443 Lubbock, TX (806) 794-1296 Crasbad NM (432) 704-5
 Phoenix, AZ (480) 355-0900 Atlanta GA (770) 449-8800 Tampa, FL (813) 620-2000 West Palm Beach FL (561) 689-



880-7439 Chain of Custody

9 of 2

10/29/2021

Project Manager: Joel Lowry	Bill to: (if different) Legacy
Company Name: ETech Environmental	Company Name:
Address: 2617 Marland	Address:
City, State ZIP: Hobbs, NM 88240	City, State ZIP:
Phone: 575 964-2880	Email: PM@etechenv.com

Work Order Comments

Program UST/PST PRP Brownfields RRC Superfund

State of Project

Reporting Level II Level III PST/UST TRRP Level IV

Deliverables EDD ADaPT Other

Project Name:		Turn Around		ANALYSIS REQUEST												Preservative Codes			
Project Number:		Routine <input checked="" type="checkbox"/>														MeOH Me			
Project Location:		Rush														None NO			
Sampler's Name:		Due Date														HNO3 HN			
PO #:		Quote #:														H2S04 H2			
SAMPLE RECEIPT		Temp Blank: Yes No <input checked="" type="checkbox"/>		Wet Ice: Yes No <input checked="" type="checkbox"/>														HCL HL	
Temperature (°C): 20.6/27		Thermometer ID: 120														NaOH Na			
Received Intact: Yes No <input checked="" type="checkbox"/>		Correction Factor: 0.1														Zn Acetate+ NaOH Zn			
Cooler Custody Seals: Yes No <input checked="" type="checkbox"/>		Total Containers:														TAT starts the day received by the lab if received by 4 00pm			
Sample Custody Seals: Yes No <input checked="" type="checkbox"/>																Sample Comments			
Lab ID	Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	Chlorides	BTEX	TPH										
	SPI @ surface	501	10/19/21			1	X	X	X										
	SPI @ 1'																		
	SP2 @ surface																		
	SP2 @ 1'																		
	NH @ surface																		
	NH @ 1'																		
	EH @ surface																		
	EH @ 1'																		
	SH @ surface																		
	SH @ 1'																		

Total 200.7 / 6010 200 8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn
 Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U 1631 / 245 1 / 7470 / 7471 Hg

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 [Signature]	Jonathan Cox	10/19	2 [Signature]	[Signature]	10/21/21
3			4		10/15
5			6		

FEDEX

Revised Date 022619 Rev 2019.1

Login Sample Receipt Checklist

Client: Etech Environmental & Safety Solutions

Job Number: 880-7439-1

SDG Number: Rural Lea Co, NM

Login Number: 7439

List Number: 1

Creator: Teel, Brianna

List Source: Eurofins Xenco, Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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

January 07, 2022

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: LEGACY SPAU INJECTION LINE

Enclosed are the results of analyses for samples received by the laboratory on 01/05/22 11:25.

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 "Mike Snyder". The signature is fluid and cursive.

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/05/2022	Sampling Date:	01/04/2022
Reported:	01/07/2022	Sampling Type:	Soil
Project Name:	LEGACY SPAU INJECTION LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEGACY RESERVES -		

Sample ID: SSW #1 (H220034-01)

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	01/06/2022	ND	2.07	104	2.00	6.26		
Toluene*	<0.050	0.050	01/06/2022	ND	2.01	101	2.00	6.16		
Ethylbenzene*	<0.050	0.050	01/06/2022	ND	1.96	97.9	2.00	6.62		
Total Xylenes*	<0.150	0.150	01/06/2022	ND	5.97	99.5	6.00	6.60		
Total BTEX	<0.300	0.300	01/06/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.3 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	01/06/2022	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	01/06/2022	ND	210	105	200	0.0128		
DRO >C10-C28*	<10.0	10.0	01/06/2022	ND	216	108	200	1.16		
EXT DRO >C28-C36	<10.0	10.0	01/06/2022	ND						

Surrogate: 1-Chlorooctane 87.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 89.0 % 59.5-142

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.

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/05/2022	Sampling Date:	01/04/2022
Reported:	01/07/2022	Sampling Type:	Soil
Project Name:	LEGACY SPAU INJECTION LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEGACY RESERVES -		

Sample ID: FL #1 @ 3' (H220034-02)

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	01/06/2022	ND	2.07	104	2.00	6.26	
Toluene*	<0.050	0.050	01/06/2022	ND	2.01	101	2.00	6.16	
Ethylbenzene*	<0.050	0.050	01/06/2022	ND	1.96	97.9	2.00	6.62	
Total Xylenes*	<0.150	0.150	01/06/2022	ND	5.97	99.5	6.00	6.60	
Total BTEX	<0.300	0.300	01/06/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.2 % 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	96.0	16.0	01/06/2022	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	01/06/2022	ND	210	105	200	0.0128	
DRO >C10-C28*	<10.0	10.0	01/06/2022	ND	216	108	200	1.16	
EXT DRO >C28-C36	<10.0	10.0	01/06/2022	ND					

Surrogate: 1-Chlorooctane 87.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 90.4 % 59.5-142

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.

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/05/2022	Sampling Date:	01/04/2022
Reported:	01/07/2022	Sampling Type:	Soil
Project Name:	LEGACY SPAU INJECTION LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEGACY RESERVES -		

Sample ID: TT - 1 20' (H220034-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	01/06/2022	ND	400	100	400	3.92	

Sample ID: TT - 3 4' (H220034-04)

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	01/06/2022	ND	400	100	400	3.92	

Sample ID: TT - 4 7' (H220034-05)

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	01/06/2022	ND	400	100	400	3.92	

Sample ID: TT - 1 21' (H220034-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	01/06/2022	ND	400	100	400	3.92	

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*=Accredited Analyte

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Mike Snyder For 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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Mike Snyder For 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

1-3

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																						
Project Manager: <i>Jed Lowry</i>				P.O. #:				Chloride TPH (8015M) BTEX (8021B)																						
Address: P.O. Box 301				Company: Legacy Legacy																										
City: <i>Livingston Hobbs</i>		State: NM Zip: 88260		Attn:																										
Phone #: (575) 396-2378		Fax #: (575) 396-1429		Address:																										
Project #:		Project Owner:		City:																										
Project Name: <i>SPAU injection line</i>				State: Zip:																										
Project Location:				Phone #:																										
Sampler Name: <i>Aaron Rios</i>				Fax #:																										
R 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													
<i>H220034</i>				<i>C</i>	<i>X</i>		<i>X</i>					<i>X</i>	<i>X</i>	<i>X</i>	<i>1/4/22</i>		<i>11:25</i>		<i>X</i>	<i>X</i>	<i>X</i>									
		<i>1 SSW #1.</i>		<i>C</i>	<i>X</i>		<i>X</i>					<i>X</i>	<i>X</i>	<i>X</i>	<i>1/4/22</i>		<i>11:25</i>		<i>X</i>	<i>X</i>	<i>X</i>									
		<i>2 FL # 1 @ 3'</i>		<i>C</i>	<i>X</i>		<i>X</i>					<i>X</i>	<i>X</i>	<i>X</i>	<i>1/4/22</i>		<i>11:25</i>		<i>X</i>	<i>X</i>	<i>X</i>									

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Relinquished By: <i>Aaron Rios</i>		Date: <i>1/4/22</i> Time: <i>5:00pm</i>		Received By:		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
Relinquished By:		Date: <i>1-5-21</i> Time: <i>1125</i>		Received By: <i>Jamara Oldaker</i>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:	
Delivered By: (Circle One)		<i>-7.6c C-0.58</i>		Sample Condition		CHECKED BY:		REMARKS: Please email results to pm@etechenv.com.	
Sampler - UPS - Bus - Other:		<i>-8.1c #113</i>		Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No		(Initials) <i>JO</i>			



ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2-3

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																				
Project Manager: <i>Joel Lowry</i>				P.O. #:				Chloride TPH (8015M) BTEX (8021B)																				
Address: 2617 West Marland				Company: <i>Legacy Reserves</i>																								
City: Hobbs		State: NM		Zip: 88240		Attn:																						
Phone #: (575) 264-9884		Fax #:		Address:																								
Project #:		Project Owner:		City:																								
Project Name: <i>SPAU injection Line</i>				State:																Zip:								
Project Location:				Phone #:																								
Sampler Name: <i>Aaron Rias</i>				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													
	<i>H220034</i>																											
	<i>3</i>	<i>TT-1 20'</i>	<i>G</i>	<i>X</i>		<i>X</i>					<i>X</i>			<i>1/4/22</i>		<i>X</i>												
	<i>4</i>	<i>TT-3 4'</i>	<i>G</i>	<i>X</i>		<i>X</i>					<i>X</i>			<i>↓</i>		<i>X</i>												
	<i>5</i>	<i>TT-4 7'</i>	<i>G</i>	<i>X</i>		<i>X</i>					<i>X</i>			<i>↓</i>		<i>X</i>												
<p><small>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</small></p>																												
Relinquished By: <i>Aaron Rias</i>				Date: <i>1/4/22</i>		Received By:				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:														
Relinquished By:				Date: <i>1-5-22</i>		Received By: <i>Jamara Alderson</i>				REMARKS:				Please email copy of COC and results to pm@etechenv.com.														
Delivered By: (Circle One) <i>-7.6°</i>				C-0.52		Sample Condition				CHECKED BY:																		
<i>Sample</i> - UPS - Bus - Other:				<i>-8.1° #113</i>		Cool Intact				(Initials)																		
						<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



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

March 07, 2022

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: SPAU INJECTION LINE

Enclosed are the results of analyses for samples received by the laboratory on 01/05/22 11:25.

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/ga/lab_accred_certif.html.

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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,

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS NM, 88240	Project: SPAU INJECTION LINE Project Number: NONE GIVEN Project Manager: JOEL LOWRY Fax To:	Reported: 07-Mar-22 16:13
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Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SW-3	H220034-01	Soil	04-Jan-22 00:00	05-Jan-22 11:25
FL #1 @ 3'	H220034-02	Soil	04-Jan-22 00:00	05-Jan-22 11:25

03/07/22 - Client revised the sample ID on -01. This is the revised report and will replace the one sent on 01/10/22.

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS NM, 88240	Project: SPAU INJECTION LINE Project Number: NONE GIVEN Project Manager: JOEL LOWRY Fax To:	Reported: 07-Mar-22 16:13
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**SW-3
H220034-01 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	16.0		16.0	mg/kg	4	2010516	GM	06-Jan-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2010514	MS/	06-Jan-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2010514	MS/	06-Jan-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2010514	MS/	06-Jan-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2010514	MS/	06-Jan-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2010514	MS/	06-Jan-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			96.3 %		69.9-140	2010514	MS/	06-Jan-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2010605	MS	06-Jan-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2010605	MS	06-Jan-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2010605	MS	06-Jan-22	8015B	

Surrogate: 1-Chlorooctane			87.1 %		66.9-136	2010605	MS	06-Jan-22	8015B	
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Surrogate: 1-Chlorooctadecane			89.0 %		59.5-142	2010605	MS	06-Jan-22	8015B	
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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 2617 W MARLAND HOBBS NM, 88240	Project: SPAU INJECTION LINE Project Number: NONE GIVEN Project Manager: JOEL LOWRY Fax To:	Reported: 07-Mar-22 16:13
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**FL #1 @ 3'
H220034-02 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	96.0		16.0	mg/kg	4	2010516	GM	06-Jan-22	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2010514	MS/	06-Jan-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2010514	MS/	06-Jan-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2010514	MS/	06-Jan-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2010514	MS/	06-Jan-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2010514	MS/	06-Jan-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			96.2 %		69.9-140	2010514	MS/	06-Jan-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2010605	MS	06-Jan-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2010605	MS	06-Jan-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2010605	MS	06-Jan-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			87.1 %		66.9-136	2010605	MS	06-Jan-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			90.4 %		59.5-142	2010605	MS	06-Jan-22	8015B	
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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 2617 W MARLAND HOBBS NM, 88240	Project: SPAU INJECTION LINE Project Number: NONE GIVEN Project Manager: JOEL LOWRY Fax To:	Reported: 07-Mar-22 16:13
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Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2010516 - 1:4 DI Water										
Blank (2010516-BLK1)										
Prepared & Analyzed: 05-Jan-22										
Chloride	ND	16.0	mg/kg							
LCS (2010516-BS1)										
Prepared & Analyzed: 05-Jan-22										
Chloride	400	16.0	mg/kg	400		100	80-120			
LCS Dup (2010516-BSD1)										
Prepared & Analyzed: 05-Jan-22										
Chloride	416	16.0	mg/kg	400		104	80-120	3.92	20	

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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
2617 W MARLAND
HOBBS NM, 88240

Project: SPAU INJECTION LINE
Project Number: NONE GIVEN
Project Manager: JOEL LOWRY
Fax To:

Reported:
07-Mar-22 16:13

Volatile Organic Compounds by EPA Method 8021 - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2010514 - Volatiles**Blank (2010514-BLK1)**

Prepared & Analyzed: 05-Jan-22

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	ND		mg/kg	0.0500		97.2	69.9-140			

LCS (2010514-BS1)

Prepared & Analyzed: 05-Jan-22

Benzene	2.07	0.050	mg/kg	2.00		104	85.1-114			
Toluene	2.01	0.050	mg/kg	2.00		101	88.6-116			
Ethylbenzene	1.96	0.050	mg/kg	2.00		97.9	84.4-115			
m,p-Xylene	4.03	0.100	mg/kg	4.00		101	85.5-116			
o-Xylene	1.94	0.050	mg/kg	2.00		97.1	85.2-111			
Total Xylenes	5.97	0.150	mg/kg	6.00		99.5	86.2-113			
Surrogate: 4-Bromofluorobenzene (PID)	0.0475		mg/kg	0.0500		94.9	69.9-140			

LCS Dup (2010514-BSD1)

Prepared & Analyzed: 05-Jan-22

Benzene	2.21	0.050	mg/kg	2.00		110	85.1-114	6.26	12.6	
Toluene	2.14	0.050	mg/kg	2.00		107	88.6-116	6.16	13.3	
Ethylbenzene	2.09	0.050	mg/kg	2.00		105	84.4-115	6.62	13.9	
m,p-Xylene	4.31	0.100	mg/kg	4.00		108	85.5-116	6.70	13.6	
o-Xylene	2.07	0.050	mg/kg	2.00		104	85.2-111	6.41	14.1	
Total Xylenes	6.38	0.150	mg/kg	6.00		106	86.2-113	6.60	13.4	
Surrogate: 4-Bromofluorobenzene (PID)	0.0477		mg/kg	0.0500		95.4	69.9-140			

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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 2617 W MARLAND HOBBS NM, 88240	Project: SPAU INJECTION LINE Project Number: NONE GIVEN Project Manager: JOEL LOWRY Fax To:	Reported: 07-Mar-22 16:13
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Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2010605 - General Prep - Organics

Blank (2010605-BLK1)		Prepared & Analyzed: 06-Jan-22								
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	49.9		mg/kg	50.0		99.8	66.9-136			
Surrogate: 1-Chlorooctadecane	52.8		mg/kg	50.0		106	59.5-142			

LCS (2010605-BS1)		Prepared & Analyzed: 06-Jan-22								
GRO C6-C10	210	10.0	mg/kg	200		105	81.6-129			
DRO >C10-C28	216	10.0	mg/kg	200		108	83-129			
Total TPH C6-C28	426	10.0	mg/kg	400		106	84.5-127			
Surrogate: 1-Chlorooctane	54.4		mg/kg	50.0		109	66.9-136			
Surrogate: 1-Chlorooctadecane	56.5		mg/kg	50.0		113	59.5-142			

LCS Dup (2010605-BSD1)		Prepared & Analyzed: 06-Jan-22								
GRO C6-C10	210	10.0	mg/kg	200		105	81.6-129	0.0128	21.4	
DRO >C10-C28	213	10.0	mg/kg	200		107	83-129	1.16	17.9	
Total TPH C6-C28	423	10.0	mg/kg	400		106	84.5-127	0.577	17.6	
Surrogate: 1-Chlorooctane	54.9		mg/kg	50.0		110	66.9-136			
Surrogate: 1-Chlorooctadecane	56.3		mg/kg	50.0		113	59.5-142			

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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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

2-3

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																				
Project Manager: <u>Joel Lowry</u>				P.O. #:				Chloride TPH (8015M) BTEX (8021B)																				
Address: 2617 West Marland				Company: <u>Legacy Reserves</u>																								
City: Hobbs		State: NM		Zip: 88240		Attn:																						
Phone #: (575) 264-9884		Fax #:		Address:																								
Project #:		Project Owner:		City:																								
Project Name: <u>SPAU injection Line</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>H220034</u>																											
	<u>3</u>	<u>TT-1 20'</u>	<u>6</u>	<u>X</u>			<u>X</u>							<u>1/4/22</u>		<u>X</u>												
	<u>4</u>	<u>TT-3 4'</u>	<u>6</u>	<u>X</u>			<u>X</u>							<u>↓</u>		<u>X</u>												
	<u>5</u>	<u>TT-4 9'</u>	<u>6</u>	<u>X</u>			<u>X</u>							<u>↓</u>		<u>X</u>												
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Relinquished By: <u>Aaron Rios</u>				Date: <u>1/4/22</u>		Time: <u>5:00pm</u>		Received By: <u>Juanita Delatorre</u>				Date: <u>1-5-22</u>		Time: <u>11:25</u>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:						
Delivered By: (Circle One) <u>Sample</u> - UPS - Bus - Other:				-7.6°C		C-0.5°C		Sample Condition				CHECKED BY: (Initials)		REMARKS: Please email copy of COC and results to pm@etechenv.com.														
		<u>-8.1°C</u>		<u>#113</u>		Cool <input type="checkbox"/> Yes <input type="checkbox"/> No		Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		<u>JO</u>																		



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

March 07, 2022

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: LEGACY SPAU INJECTION LINE

Enclosed are the results of analyses for samples received by the laboratory on 01/05/22 16:00.

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

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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,

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS NM, 88240	Project: LEGACY SPAU INJECTION LINE Project Number: 15018 Project Manager: JOEL LOWRY Fax To:	Reported: 07-Mar-22 15:09
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Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL #3 @ 7'	H220051-01	Soil	05-Jan-22 00:00	05-Jan-22 16:00
SW-2	H220051-02	Soil	05-Jan-22 00:00	05-Jan-22 16:00
SW-1	H220051-03	Soil	05-Jan-22 00:00	05-Jan-22 16:00

03/07/22 - Client changed the sample IDs of -02 and -03. This is the revised report and will replace the one sent on 01/10/22.

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Analytical Results For:

Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS NM, 88240	Project: LEGACY SPAU INJECTION LINE Project Number: 15018 Project Manager: JOEL LOWRY Fax To:	Reported: 07-Mar-22 15:09
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**FL #3 @ 7'
H220051-01 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	208		16.0	mg/kg	4	2010705	GM	07-Jan-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2010701	MS/	07-Jan-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2010701	MS/	07-Jan-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2010701	MS/	07-Jan-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2010701	MS/	07-Jan-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2010701	MS/	07-Jan-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			94.4 %		69.9-140	2010701	MS/	07-Jan-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2010606	MS	06-Jan-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2010606	MS	06-Jan-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2010606	MS	06-Jan-22	8015B	

Surrogate: 1-Chlorooctane			75.0 %		66.9-136	2010606	MS	06-Jan-22	8015B	
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Surrogate: 1-Chlorooctadecane			72.1 %		59.5-142	2010606	MS	06-Jan-22	8015B	
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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
2617 W MARLAND
HOBBS NM, 88240

Project: LEGACY SPAU INJECTION LINE
Project Number: 15018
Project Manager: JOEL LOWRY
Fax To:

Reported:
07-Mar-22 15:09

SW-2**H220051-02 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	16.0		16.0	mg/kg	4	2010705	GM	07-Jan-22	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2010701	MS/	07-Jan-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2010701	MS/	07-Jan-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2010701	MS/	07-Jan-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2010701	MS/	07-Jan-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2010701	MS/	07-Jan-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			94.9 %		69.9-140	2010701	MS/	07-Jan-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2010606	MS	06-Jan-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2010606	MS	06-Jan-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2010606	MS	06-Jan-22	8015B	

Surrogate: 1-Chlorooctane			93.4 %		66.9-136	2010606	MS	06-Jan-22	8015B	
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Surrogate: 1-Chlorooctadecane			90.5 %		59.5-142	2010606	MS	06-Jan-22	8015B	
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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 2617 W MARLAND HOBBS NM, 88240	Project: LEGACY SPAU INJECTION LINE Project Number: 15018 Project Manager: JOEL LOWRY Fax To:	Reported: 07-Mar-22 15:09
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SW-1

H220051-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	16.0		16.0	mg/kg	4	2010705	GM	07-Jan-22	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2010701	MS/	07-Jan-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2010701	MS/	07-Jan-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2010701	MS/	07-Jan-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2010701	MS/	07-Jan-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2010701	MS/	07-Jan-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			94.6 %		69.9-140	2010701	MS/	07-Jan-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2010606	MS	06-Jan-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2010606	MS	06-Jan-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2010606	MS	06-Jan-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			94.6 %		66.9-136	2010606	MS	06-Jan-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			91.5 %		59.5-142	2010606	MS	06-Jan-22	8015B	
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PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS NM, 88240	Project: LEGACY SPAU INJECTION LINE Project Number: 15018 Project Manager: JOEL LOWRY Fax To:	Reported: 07-Mar-22 15:09
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Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2010705 - 1:4 DI Water										
Blank (2010705-BLK1)										
Prepared & Analyzed: 07-Jan-22										
Chloride	ND	16.0	mg/kg							
LCS (2010705-BS1)										
Prepared & Analyzed: 07-Jan-22										
Chloride	432	16.0	mg/kg	400		108	80-120			
LCS Dup (2010705-BSD1)										
Prepared & Analyzed: 07-Jan-22										
Chloride	416	16.0	mg/kg	400		104	80-120	3.77	20	

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

Analytical Results For:

Etech Environmental & Safety Solutions
2617 W MARLAND
HOBBS NM, 88240

Project: LEGACY SPAU INJECTION LINE
Project Number: 15018
Project Manager: JOEL LOWRY
Fax To:

Reported:
07-Mar-22 15:09

Volatile Organic Compounds by EPA Method 8021 - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2010701 - Volatiles**Blank (2010701-BLK1)**

Prepared & Analyzed: 07-Jan-22

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	ND		mg/kg	0.0500		94.5	69.9-140			

LCS (2010701-BS1)

Prepared & Analyzed: 07-Jan-22

Benzene	2.02	0.050	mg/kg	2.00		101	85.1-114			
Toluene	1.91	0.050	mg/kg	2.00		95.7	88.6-116			
Ethylbenzene	1.89	0.050	mg/kg	2.00		94.7	84.4-115			
m,p-Xylene	3.91	0.100	mg/kg	4.00		97.6	85.5-116			
o-Xylene	1.97	0.050	mg/kg	2.00		98.7	85.2-111			
Total Xylenes	5.88	0.150	mg/kg	6.00		98.0	86.2-113			
Surrogate: 4-Bromofluorobenzene (PID)	0.0464		mg/kg	0.0500		92.7	69.9-140			

LCS Dup (2010701-BSD1)

Prepared & Analyzed: 07-Jan-22

Benzene	2.10	0.050	mg/kg	2.00		105	85.1-114	3.51	12.6	
Toluene	1.98	0.050	mg/kg	2.00		99.1	88.6-116	3.47	13.3	
Ethylbenzene	1.97	0.050	mg/kg	2.00		98.4	84.4-115	3.81	13.9	
m,p-Xylene	4.07	0.100	mg/kg	4.00		102	85.5-116	4.02	13.6	
o-Xylene	2.05	0.050	mg/kg	2.00		103	85.2-111	3.86	14.1	
Total Xylenes	6.12	0.150	mg/kg	6.00		102	86.2-113	3.97	13.4	
Surrogate: 4-Bromofluorobenzene (PID)	0.0464		mg/kg	0.0500		92.9	69.9-140			

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Analytical Results For:

Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS NM, 88240	Project: LEGACY SPAU INJECTION LINE Project Number: 15018 Project Manager: JOEL LOWRY Fax To:	Reported: 07-Mar-22 15:09
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Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2010606 - General Prep - Organics

Blank (2010606-BLK1)		Prepared & Analyzed: 06-Jan-22								
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
<i>Surrogate: 1-Chlorooctane</i>	58.6		mg/kg	50.0		117	66.9-136			
<i>Surrogate: 1-Chlorooctadecane</i>	60.1		mg/kg	50.0		120	59.5-142			

LCS (2010606-BS1)		Prepared & Analyzed: 06-Jan-22								
GRO C6-C10	193	10.0	mg/kg	200		96.3	81.6-129			
DRO >C10-C28	186	10.0	mg/kg	200		93.2	83-129			
Total TPH C6-C28	379	10.0	mg/kg	400		94.8	84.5-127			
<i>Surrogate: 1-Chlorooctane</i>	51.1		mg/kg	50.0		102	66.9-136			
<i>Surrogate: 1-Chlorooctadecane</i>	51.4		mg/kg	50.0		103	59.5-142			

LCS Dup (2010606-BSD1)		Prepared & Analyzed: 06-Jan-22								
GRO C6-C10	194	10.0	mg/kg	200		96.9	81.6-129	0.615	21.4	
DRO >C10-C28	190	10.0	mg/kg	200		94.8	83-129	1.65	17.9	
Total TPH C6-C28	383	10.0	mg/kg	400		95.9	84.5-127	1.13	17.6	
<i>Surrogate: 1-Chlorooctane</i>	51.2		mg/kg	50.0		102	66.9-136			
<i>Surrogate: 1-Chlorooctadecane</i>	51.4		mg/kg	50.0		103	59.5-142			

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

March 07, 2022

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: LEGACY SPAU INJECTION LINE

Enclosed are the results of analyses for samples received by the laboratory on 01/06/22 16:00.

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

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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,

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS NM, 88240	Project: LEGACY SPAU INJECTION LINE Project Number: 15018 Project Manager: JOEL LOWRY Fax To:	Reported: 07-Mar-22 15:03
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Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WW-1	H220062-01	Soil	06-Jan-22 00:00	06-Jan-22 16:00
WW-2	H220062-02	Soil	06-Jan-22 00:00	06-Jan-22 16:00

03/07/22 - Client changed the sample IDs on -01 and -02. This is the revised report and will replace the one sent on 01/ 11/22.

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Analytical Results For:

Etech Environmental & Safety Solutions
2617 W MARLAND
HOBBS NM, 88240

Project: LEGACY SPAU INJECTION LINE
Project Number: 15018
Project Manager: JOEL LOWRY
Fax To:

Reported:
07-Mar-22 15:03

WW-1**H220062-01 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	96.0		16.0	mg/kg	4	2010715	GM	07-Jan-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2010707	MS/	07-Jan-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2010707	MS/	07-Jan-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2010707	MS/	07-Jan-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2010707	MS/	07-Jan-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2010707	MS/	07-Jan-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			94.8 %	69.9-140		2010707	MS/	07-Jan-22	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2010713	MS	07-Jan-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2010713	MS	07-Jan-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2010713	MS	07-Jan-22	8015B	
Surrogate: 1-Chlorooctane			98.8 %	66.9-136		2010713	MS	07-Jan-22	8015B	
Surrogate: 1-Chlorooctadecane			104 %	59.5-142		2010713	MS	07-Jan-22	8015B	

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS NM, 88240	Project: LEGACY SPAU INJECTION LINE Project Number: 15018 Project Manager: JOEL LOWRY Fax To:	Reported: 07-Mar-22 15:03
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**WW-2
H220062-02 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	16.0		16.0	mg/kg	4	2010715	GM	07-Jan-22	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2010707	MS/	07-Jan-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2010707	MS/	07-Jan-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2010707	MS/	07-Jan-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2010707	MS/	07-Jan-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2010707	MS/	07-Jan-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			95.2 %		69.9-140	2010707	MS/	07-Jan-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2010714	MS	07-Jan-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2010714	MS	07-Jan-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2010714	MS	07-Jan-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			94.9 %		66.9-136	2010714	MS	07-Jan-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			100 %		59.5-142	2010714	MS	07-Jan-22	8015B	
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Analytical Results For:

Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS NM, 88240	Project: LEGACY SPAU INJECTION LINE Project Number: 15018 Project Manager: JOEL LOWRY Fax To:	Reported: 07-Mar-22 15:03
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Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2010715 - 1:4 DI Water										
Blank (2010715-BLK1)										
Prepared & Analyzed: 07-Jan-22										
Chloride	ND	16.0	mg/kg							
LCS (2010715-BS1)										
Prepared & Analyzed: 07-Jan-22										
Chloride	416	16.0	mg/kg	400		104	80-120			
LCS Dup (2010715-BSD1)										
Prepared & Analyzed: 07-Jan-22										
Chloride	400	16.0	mg/kg	400		100	80-120	3.92	20	

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Analytical Results For:

Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS NM, 88240	Project: LEGACY SPAU INJECTION LINE Project Number: 15018 Project Manager: JOEL LOWRY Fax To:	Reported: 07-Mar-22 15:03
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Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2010707 - Volatiles

Blank (2010707-BLK1)

Prepared & Analyzed: 07-Jan-22

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	ND		mg/kg	0.0500		94.4	69.9-140			

LCS (2010707-BS1)

Prepared & Analyzed: 07-Jan-22

Benzene	1.97	0.050	mg/kg	2.00		98.7	85.1-114			
Toluene	1.86	0.050	mg/kg	2.00		92.9	88.6-116			
Ethylbenzene	1.86	0.050	mg/kg	2.00		92.8	84.4-115			
m,p-Xylene	3.83	0.100	mg/kg	4.00		95.8	85.5-116			
o-Xylene	1.93	0.050	mg/kg	2.00		96.5	85.2-111			
Total Xylenes	5.76	0.150	mg/kg	6.00		96.1	86.2-113			
Surrogate: 4-Bromofluorobenzene (PID)	0.0467		mg/kg	0.0500		93.5	69.9-140			

LCS Dup (2010707-BSD1)

Prepared & Analyzed: 07-Jan-22

Benzene	2.12	0.050	mg/kg	2.00		106	85.1-114	6.97	12.6	
Toluene	2.00	0.050	mg/kg	2.00		99.8	88.6-116	7.21	13.3	
Ethylbenzene	2.00	0.050	mg/kg	2.00		99.8	84.4-115	7.27	13.9	
m,p-Xylene	4.12	0.100	mg/kg	4.00		103	85.5-116	7.14	13.6	
o-Xylene	2.08	0.050	mg/kg	2.00		104	85.2-111	7.61	14.1	
Total Xylenes	6.20	0.150	mg/kg	6.00		103	86.2-113	7.30	13.4	
Surrogate: 4-Bromofluorobenzene (PID)	0.0467		mg/kg	0.0500		93.4	69.9-140			

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Analytical Results For:

Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS NM, 88240	Project: LEGACY SPAU INJECTION LINE Project Number: 15018 Project Manager: JOEL LOWRY Fax To:	Reported: 07-Mar-22 15:03
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Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2010713 - General Prep - Organics

Blank (2010713-BLK1)		Prepared & Analyzed: 07-Jan-22								
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	56.4		mg/kg	50.0		113	66.9-136			
Surrogate: 1-Chlorooctadecane	57.4		mg/kg	50.0		115	59.5-142			

LCS (2010713-BS1)		Prepared & Analyzed: 07-Jan-22								
GRO C6-C10	193	10.0	mg/kg	200		96.4	81.6-129			
DRO >C10-C28	187	10.0	mg/kg	200		93.4	83-129			
Total TPH C6-C28	380	10.0	mg/kg	400		94.9	84.5-127			
Surrogate: 1-Chlorooctane	51.1		mg/kg	50.0		102	66.9-136			
Surrogate: 1-Chlorooctadecane	51.3		mg/kg	50.0		103	59.5-142			

LCS Dup (2010713-BS1)		Prepared & Analyzed: 07-Jan-22								
GRO C6-C10	193	10.0	mg/kg	200		96.6	81.6-129	0.181	21.4	
DRO >C10-C28	189	10.0	mg/kg	200		94.3	83-129	0.985	17.9	
Total TPH C6-C28	382	10.0	mg/kg	400		95.4	84.5-127	0.577	17.6	
Surrogate: 1-Chlorooctane	51.8		mg/kg	50.0		104	66.9-136			
Surrogate: 1-Chlorooctadecane	52.4		mg/kg	50.0		105	59.5-142			

Batch 2010714 - General Prep - Organics

Blank (2010714-BLK1)		Prepared & Analyzed: 07-Jan-22								
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	52.6		mg/kg	50.0		105	66.9-136			
Surrogate: 1-Chlorooctadecane	55.7		mg/kg	50.0		111	59.5-142			

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Analytical Results For:

Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS NM, 88240	Project: LEGACY SPAU INJECTION LINE Project Number: 15018 Project Manager: JOEL LOWRY Fax To:	Reported: 07-Mar-22 15:03
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Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2010714 - General Prep - Organics

LCS (2010714-BS1)

Prepared & Analyzed: 07-Jan-22

GRO C6-C10	206	10.0	mg/kg	200		103	81.6-129			
DRO >C10-C28	238	10.0	mg/kg	200		119	83-129			
Total TPH C6-C28	445	10.0	mg/kg	400		111	84.5-127			
Surrogate: 1-Chlorooctane	49.5		mg/kg	50.0		98.9	66.9-136			
Surrogate: 1-Chlorooctadecane	52.1		mg/kg	50.0		104	59.5-142			

LCS Dup (2010714-BSD1)

Prepared & Analyzed: 07-Jan-22

GRO C6-C10	228	10.0	mg/kg	200		114	81.6-129	10.1	21.4	
DRO >C10-C28	233	10.0	mg/kg	200		116	83-129	2.29	17.9	
Total TPH C6-C28	461	10.0	mg/kg	400		115	84.5-127	3.65	17.6	
Surrogate: 1-Chlorooctane	48.8		mg/kg	50.0		97.6	66.9-136			
Surrogate: 1-Chlorooctadecane	52.2		mg/kg	50.0		104	59.5-142			

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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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: 2617 West Marland		Company: <i>Legacy</i>																									
City: Hobbs State: NM Zip: 88240		Attn:																									
Phone #: (575) 264-9884 Fax #:		Address:																									
Project #: <i>15018</i> Project Owner:		City:																									
Project Name: <i>Legacy SPAU Injection Line #15018</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)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME													
<i>H2200062</i>	<i>1 NW#1 WW-1</i>	<i>X</i>	<i>X</i>	<i>X</i>						<i>X</i>			<i>1-6-22</i>		<i>X</i>	<i>X</i>	<i>X</i>										
	<i>2 NW#2 WW-2</i>	<i>X</i>	<i>X</i>		<i>X</i>					<i>X</i>			<i>1-6-22</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: <i>Aaron Rios</i>		Date: <i>1-6-22</i>	Received By: <i>Jamara Oldaker</i>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:		REMARKS: <i>* Revised as per Soil. 3/7/22 ch</i>																		
Relinquished By:		Time: <i>1600</i>	Received By:		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:		Please email copy of COC and results to pm@etechenv.com.																		
Delivered By: (Circle One)		<i>4.8c</i> C-0.5c		Sample Condition		CHECKED BY: (Initials)																					
Sampler - UPS - Bus - Other:		<i>(4.3c #13)</i>		Cool - Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<i>TR</i>																					



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

March 07, 2022

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: SPAU INJECTION LINE

Enclosed are the results of analyses for samples received by the laboratory on 02/28/22 16:50.

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

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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,

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

Etech Environmental & Safety Solutions
2617 W MARLAND
HOBBS NM, 88240

Project: SPAU INJECTION LINE
Project Number: 15018
Project Manager: JOEL LOWRY
Fax To:

Reported:
07-Mar-22 16:20

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL # 1 @ 14'	H220774-01	Soil	28-Feb-22 00:00	28-Feb-22 16:50
FL # 2 @ 12'	H220774-02	Soil	28-Feb-22 00:00	28-Feb-22 16:50
FL # 3 @ 12'	H220774-03	Soil	28-Feb-22 00:00	28-Feb-22 16:50
FL # 4 @ 12'	H220774-04	Soil	28-Feb-22 00:00	28-Feb-22 16:50
FL # 5 @ 12'	H220774-05	Soil	28-Feb-22 00:00	28-Feb-22 16:50
FL # 6 @ 12'	H220774-06	Soil	28-Feb-22 00:00	28-Feb-22 16:50
FL # 7 @ 12'	H220774-07	Soil	28-Feb-22 00:00	28-Feb-22 16:50
FL # 8 @ 12'	H220774-08	Soil	28-Feb-22 00:00	28-Feb-22 16:50
FL # 9 @ 12'	H220774-09	Soil	28-Feb-22 00:00	28-Feb-22 16:50
FL # 10 @ 12'	H220774-10	Soil	28-Feb-22 00:00	28-Feb-22 16:50
FL # 11 @ 7'	H220774-11	Soil	28-Feb-22 00:00	28-Feb-22 16:50
FL # 12 @ 7'	H220774-12	Soil	28-Feb-22 00:00	28-Feb-22 16:50
FL # 13 @ 5'	H220774-13	Soil	28-Feb-22 00:00	28-Feb-22 16:50
FL # 14 @ 5'	H220774-14	Soil	28-Feb-22 00:00	28-Feb-22 16:50
TT - 1 @ 14'	H220774-15	Soil	28-Feb-22 00:00	28-Feb-22 16:50
TT - 2 @ 24'	H220774-16	Soil	28-Feb-22 00:00	28-Feb-22 16:50
SW-4	H220774-17	Soil	28-Feb-22 00:00	28-Feb-22 16:50
EW-2	H220774-18	Soil	28-Feb-22 00:00	28-Feb-22 16:50

03/07/22 - Client revised the sample IDs for -17 and -18. This is the revised report and it replaces the one sent on 03/02/22.

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
2617 W MARLAND
HOBBS NM, 88240

Project: SPAU INJECTION LINE
Project Number: 15018
Project Manager: JOEL LOWRY
Fax To:

Reported:
07-Mar-22 16:20

FL # 1 @ 14'
H220774-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	640		16.0	mg/kg	4	2030204	GM	02-Mar-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2030111	MS\	01-Mar-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2030111	MS\	01-Mar-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2030111	MS\	01-Mar-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2030111	MS\	01-Mar-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2030111	MS\	01-Mar-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			104 %	69.9-140		2030111	MS\	01-Mar-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2030108	MS	01-Mar-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2030108	MS	01-Mar-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2030108	MS	01-Mar-22	8015B	

Surrogate: 1-Chlorooctane			89.5 %	66.9-136		2030108	MS	01-Mar-22	8015B	
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Surrogate: 1-Chlorooctadecane			97.7 %	59.5-142		2030108	MS	01-Mar-22	8015B	
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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 2617 W MARLAND HOBBS NM, 88240	Project: SPAU INJECTION LINE Project Number: 15018 Project Manager: JOEL LOWRY Fax To:	Reported: 07-Mar-22 16:20
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FL # 2 @ 12'
H220774-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	48.0		16.0	mg/kg	4	2030204	GM	02-Mar-22	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2030111	MS\	01-Mar-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2030111	MS\	01-Mar-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2030111	MS\	01-Mar-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2030111	MS\	01-Mar-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2030111	MS\	01-Mar-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			105 %	69.9-140		2030111	MS\	01-Mar-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2030108	MS	01-Mar-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2030108	MS	01-Mar-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2030108	MS	01-Mar-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			88.1 %	66.9-136		2030108	MS	01-Mar-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			96.2 %	59.5-142		2030108	MS	01-Mar-22	8015B	
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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 2617 W MARLAND HOBBS NM, 88240	Project: SPAU INJECTION LINE Project Number: 15018 Project Manager: JOEL LOWRY Fax To:	Reported: 07-Mar-22 16:20
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FL # 3 @ 12'
H220774-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	336		16.0	mg/kg	4	2030204	GM	02-Mar-22	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2030111	MS\	01-Mar-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2030111	MS\	01-Mar-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2030111	MS\	01-Mar-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2030111	MS\	01-Mar-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2030111	MS\	01-Mar-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			104 %	69.9-140		2030111	MS\	01-Mar-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2030108	MS	01-Mar-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2030108	MS	01-Mar-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2030108	MS	01-Mar-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			93.4 %	66.9-136		2030108	MS	01-Mar-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			104 %	59.5-142		2030108	MS	01-Mar-22	8015B	
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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 2617 W MARLAND HOBBS NM, 88240	Project: SPAU INJECTION LINE Project Number: 15018 Project Manager: JOEL LOWRY Fax To:	Reported: 07-Mar-22 16:20
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FL # 4 @ 12'
H220774-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	304		16.0	mg/kg	4	2030204	GM	02-Mar-22	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2030116	MS	02-Mar-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2030116	MS	02-Mar-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2030116	MS	02-Mar-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2030116	MS	02-Mar-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2030116	MS	02-Mar-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			103 %	69.9-140		2030116	MS	02-Mar-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2030108	MS	01-Mar-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2030108	MS	01-Mar-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2030108	MS	01-Mar-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			94.7 %	66.9-136		2030108	MS	01-Mar-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			105 %	59.5-142		2030108	MS	01-Mar-22	8015B	
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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
2617 W MARLAND
HOBBS NM, 88240

Project: SPAU INJECTION LINE
Project Number: 15018
Project Manager: JOEL LOWRY
Fax To:

Reported:
07-Mar-22 16:20

FL # 5 @ 12'
H220774-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	320		16.0	mg/kg	4	2030204	GM	02-Mar-22	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2030116	MS	02-Mar-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2030116	MS	02-Mar-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2030116	MS	02-Mar-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2030116	MS	02-Mar-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2030116	MS	02-Mar-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			104 %		69.9-140	2030116	MS	02-Mar-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2030108	MS	01-Mar-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2030108	MS	01-Mar-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2030108	MS	01-Mar-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			103 %		66.9-136	2030108	MS	01-Mar-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			115 %		59.5-142	2030108	MS	01-Mar-22	8015B	
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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
2617 W MARLAND
HOBBS NM, 88240

Project: SPAU INJECTION LINE
Project Number: 15018
Project Manager: JOEL LOWRY
Fax To:

Reported:
07-Mar-22 16:20

FL # 6 @ 12'
H220774-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	544		16.0	mg/kg	4	2030205	GM	02-Mar-22	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2030116	MS	02-Mar-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2030116	MS	02-Mar-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2030116	MS	02-Mar-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2030116	MS	02-Mar-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2030116	MS	02-Mar-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			104 %		69.9-140	2030116	MS	02-Mar-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2030109	MS	01-Mar-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2030109	MS	01-Mar-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2030109	MS	01-Mar-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			91.0 %		66.9-136	2030109	MS	01-Mar-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			93.2 %		59.5-142	2030109	MS	01-Mar-22	8015B	
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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
2617 W MARLAND
HOBBS NM, 88240

Project: SPAU INJECTION LINE
Project Number: 15018
Project Manager: JOEL LOWRY
Fax To:

Reported:
07-Mar-22 16:20

FL # 7 @ 12'
H220774-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	112		16.0	mg/kg	4	2030205	GM	02-Mar-22	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2030116	MS	02-Mar-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2030116	MS	02-Mar-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2030116	MS	02-Mar-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2030116	MS	02-Mar-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2030116	MS	02-Mar-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			103 %		69.9-140	2030116	MS	02-Mar-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2030109	MS	01-Mar-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2030109	MS	01-Mar-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2030109	MS	01-Mar-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			96.9 %		66.9-136	2030109	MS	01-Mar-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			98.7 %		59.5-142	2030109	MS	01-Mar-22	8015B	
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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 2617 W MARLAND HOBBS NM, 88240	Project: SPAU INJECTION LINE Project Number: 15018 Project Manager: JOEL LOWRY Fax To:	Reported: 07-Mar-22 16:20
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FL # 8 @ 12'
H220774-08 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	576		16.0	mg/kg	4	2030205	GM	02-Mar-22	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2030116	MS	02-Mar-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2030116	MS	02-Mar-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2030116	MS	02-Mar-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2030116	MS	02-Mar-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2030116	MS	02-Mar-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			104 %	69.9-140		2030116	MS	02-Mar-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2030109	MS	01-Mar-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2030109	MS	01-Mar-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2030109	MS	01-Mar-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			94.7 %	66.9-136		2030109	MS	01-Mar-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			97.4 %	59.5-142		2030109	MS	01-Mar-22	8015B	
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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 2617 W MARLAND HOBBS NM, 88240	Project: SPAU INJECTION LINE Project Number: 15018 Project Manager: JOEL LOWRY Fax To:	Reported: 07-Mar-22 16:20
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FL # 9 @ 12'
H220774-09 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	7360		16.0	mg/kg	4	2030205	GM	02-Mar-22	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2030116	MS	02-Mar-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2030116	MS	02-Mar-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2030116	MS	02-Mar-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2030116	MS	02-Mar-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2030116	MS	02-Mar-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			103 %	69.9-140		2030116	MS	02-Mar-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2030109	MS	01-Mar-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2030109	MS	01-Mar-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2030109	MS	01-Mar-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			102 %	66.9-136		2030109	MS	01-Mar-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			105 %	59.5-142		2030109	MS	01-Mar-22	8015B	
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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
2617 W MARLAND
HOBBS NM, 88240

Project: SPAU INJECTION LINE
Project Number: 15018
Project Manager: JOEL LOWRY
Fax To:

Reported:
07-Mar-22 16:20

FL # 10 @ 12'
H220774-10 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	320		16.0	mg/kg	4	2030205	GM	02-Mar-22	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2030115	MS	01-Mar-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2030115	MS	01-Mar-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2030115	MS	01-Mar-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2030115	MS	01-Mar-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2030115	MS	01-Mar-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140 2030115 MS 01-Mar-22 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2030109	MS	01-Mar-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2030109	MS	01-Mar-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2030109	MS	01-Mar-22	8015B	

Surrogate: 1-Chlorooctane 89.0 % 66.9-136 2030109 MS 01-Mar-22 8015B

Surrogate: 1-Chlorooctadecane 90.6 % 59.5-142 2030109 MS 01-Mar-22 8015B

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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
2617 W MARLAND
HOBBS NM, 88240

Project: SPAU INJECTION LINE
Project Number: 15018
Project Manager: JOEL LOWRY
Fax To:

Reported:
07-Mar-22 16:20

FL # 11 @ 7'
H220774-11 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	176		16.0	mg/kg	4	2030205	GM	02-Mar-22	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2030115	MS	01-Mar-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2030115	MS	01-Mar-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2030115	MS	01-Mar-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2030115	MS	01-Mar-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2030115	MS	01-Mar-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			104 %		69.9-140	2030115	MS	01-Mar-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2030109	MS	01-Mar-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2030109	MS	01-Mar-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2030109	MS	01-Mar-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			95.6 %		66.9-136	2030109	MS	01-Mar-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			98.4 %		59.5-142	2030109	MS	01-Mar-22	8015B	
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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 2617 W MARLAND HOBBS NM, 88240	Project: SPAU INJECTION LINE Project Number: 15018 Project Manager: JOEL LOWRY Fax To:	Reported: 07-Mar-22 16:20
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FL # 12 @ 7'
H220774-12 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	3840		16.0	mg/kg	4	2030205	GM	02-Mar-22	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2030115	MS	01-Mar-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2030115	MS	01-Mar-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2030115	MS	01-Mar-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2030115	MS	01-Mar-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2030115	MS	01-Mar-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			105 %	69.9-140		2030115	MS	01-Mar-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2030109	MS	01-Mar-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2030109	MS	01-Mar-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2030109	MS	01-Mar-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			98.7 %	66.9-136		2030109	MS	01-Mar-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			102 %	59.5-142		2030109	MS	01-Mar-22	8015B	
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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 2617 W MARLAND HOBBS NM, 88240	Project: SPAU INJECTION LINE Project Number: 15018 Project Manager: JOEL LOWRY Fax To:	Reported: 07-Mar-22 16:20
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FL # 13 @ 5'
H220774-13 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	64.0		16.0	mg/kg	4	2030205	GM	02-Mar-22	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2030115	MS	01-Mar-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2030115	MS	01-Mar-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2030115	MS	01-Mar-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2030115	MS	01-Mar-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2030115	MS	01-Mar-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			103 %	69.9-140		2030115	MS	01-Mar-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2030109	MS	01-Mar-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2030109	MS	01-Mar-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2030109	MS	01-Mar-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			92.2 %	66.9-136		2030109	MS	01-Mar-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			94.9 %	59.5-142		2030109	MS	01-Mar-22	8015B	
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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 2617 W MARLAND HOBBS NM, 88240	Project: SPAU INJECTION LINE Project Number: 15018 Project Manager: JOEL LOWRY Fax To:	Reported: 07-Mar-22 16:20
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FL # 14 @ 5'
H220774-14 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	240		16.0	mg/kg	4	2030205	GM	02-Mar-22	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2030115	MS	01-Mar-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2030115	MS	01-Mar-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2030115	MS	01-Mar-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2030115	MS	01-Mar-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2030115	MS	01-Mar-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			104 %	69.9-140		2030115	MS	01-Mar-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2030109	MS	01-Mar-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2030109	MS	01-Mar-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2030109	MS	01-Mar-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			97.2 %	66.9-136		2030109	MS	01-Mar-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			99.1 %	59.5-142		2030109	MS	01-Mar-22	8015B	
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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 2617 W MARLAND HOBBS NM, 88240	Project: SPAU INJECTION LINE Project Number: 15018 Project Manager: JOEL LOWRY Fax To:	Reported: 07-Mar-22 16:20
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TT - 1 @ 14'
H220774-15 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	48.0		16.0	mg/kg	4	2030205	GM	02-Mar-22	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2030115	MS	01-Mar-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2030115	MS	01-Mar-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2030115	MS	01-Mar-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2030115	MS	01-Mar-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2030115	MS	01-Mar-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			105 %	69.9-140		2030115	MS	01-Mar-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2030109	MS	01-Mar-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2030109	MS	01-Mar-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2030109	MS	01-Mar-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			101 %	66.9-136		2030109	MS	01-Mar-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			103 %	59.5-142		2030109	MS	01-Mar-22	8015B	
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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
2617 W MARLAND
HOBBS NM, 88240

Project: SPAU INJECTION LINE
Project Number: 15018
Project Manager: JOEL LOWRY
Fax To:

Reported:
07-Mar-22 16:20

TT - 2 @ 24'
H220774-16 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	48.0		16.0	mg/kg	4	2030205	GM	02-Mar-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2030115	MS	01-Mar-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2030115	MS	01-Mar-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2030115	MS	01-Mar-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2030115	MS	01-Mar-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2030115	MS	01-Mar-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			104 %		69.9-140	2030115	MS	01-Mar-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2030109	MS	01-Mar-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2030109	MS	01-Mar-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2030109	MS	01-Mar-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			108 %		66.9-136	2030109	MS	01-Mar-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			111 %		59.5-142	2030109	MS	01-Mar-22	8015B	
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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
2617 W MARLAND
HOBBS NM, 88240

Project: SPAU INJECTION LINE
Project Number: 15018
Project Manager: JOEL LOWRY
Fax To:

Reported:
07-Mar-22 16:20

SW-4**H220774-17 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	32.0		16.0	mg/kg	4	2030205	GM	02-Mar-22	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2030115	MS	01-Mar-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2030115	MS	01-Mar-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2030115	MS	01-Mar-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2030115	MS	01-Mar-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2030115	MS	01-Mar-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			104 %	69.9-140		2030115	MS	01-Mar-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2030109	MS	01-Mar-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2030109	MS	01-Mar-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2030109	MS	01-Mar-22	8015B	

Surrogate: 1-Chlorooctane			100 %	66.9-136		2030109	MS	01-Mar-22	8015B	
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Surrogate: 1-Chlorooctadecane			111 %	59.5-142		2030109	MS	01-Mar-22	8015B	
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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
2617 W MARLAND
HOBBS NM, 88240

Project: SPAU INJECTION LINE
Project Number: 15018
Project Manager: JOEL LOWRY
Fax To:

Reported:
07-Mar-22 16:20

EW-2
H220774-18 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	48.0		16.0	mg/kg	4	2030205	GM	02-Mar-22	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2030115	MS	01-Mar-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2030115	MS	01-Mar-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2030115	MS	01-Mar-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2030115	MS	01-Mar-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2030115	MS	01-Mar-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			104 %	69.9-140		2030115	MS	01-Mar-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2030109	MS	01-Mar-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2030109	MS	01-Mar-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2030109	MS	01-Mar-22	8015B	

Surrogate: 1-Chlorooctane			101 %	66.9-136		2030109	MS	01-Mar-22	8015B	
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Surrogate: 1-Chlorooctadecane			105 %	59.5-142		2030109	MS	01-Mar-22	8015B	
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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 2617 W MARLAND HOBBS NM, 88240	Project: SPAU INJECTION LINE Project Number: 15018 Project Manager: JOEL LOWRY Fax To:	Reported: 07-Mar-22 16:20
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Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2030204 - 1:4 DI Water										
Blank (2030204-BLK1) Prepared & Analyzed: 02-Mar-22										
Chloride	ND	16.0	mg/kg							
LCS (2030204-BS1) Prepared & Analyzed: 02-Mar-22										
Chloride	432	16.0	mg/kg	400		108	80-120			
LCS Dup (2030204-BSD1) Prepared & Analyzed: 02-Mar-22										
Chloride	432	16.0	mg/kg	400		108	80-120	0.00	20	
Batch 2030205 - 1:4 DI Water										
Blank (2030205-BLK1) Prepared & Analyzed: 02-Mar-22										
Chloride	ND	16.0	mg/kg							
LCS (2030205-BS1) Prepared & Analyzed: 02-Mar-22										
Chloride	432	16.0	mg/kg	400		108	80-120			
LCS Dup (2030205-BSD1) Prepared & Analyzed: 02-Mar-22										
Chloride	432	16.0	mg/kg	400		108	80-120	0.00	20	

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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
2617 W MARLAND
HOBBS NM, 88240

Project: SPAU INJECTION LINE
Project Number: 15018
Project Manager: JOEL LOWRY
Fax To:

Reported:
07-Mar-22 16:20

Volatile Organic Compounds by EPA Method 8021 - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2030111 - Volatiles**Blank (2030111-BLK1)**

Prepared & Analyzed: 01-Mar-22

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0522		mg/kg	0.0500		104	69.9-140			

LCS (2030111-BS1)

Prepared & Analyzed: 01-Mar-22

Benzene	2.13	0.050	mg/kg	2.00		107	83.4-122			
Toluene	2.09	0.050	mg/kg	2.00		105	84.2-126			
Ethylbenzene	2.10	0.050	mg/kg	2.00		105	84.2-121			
m,p-Xylene	4.41	0.100	mg/kg	4.00		110	89.9-126			
o-Xylene	2.09	0.050	mg/kg	2.00		104	84.3-123			
Total Xylenes	6.50	0.150	mg/kg	6.00		108	89.1-124			
Surrogate: 4-Bromofluorobenzene (PID)	0.0499		mg/kg	0.0500		99.8	69.9-140			

LCS Dup (2030111-BSD1)

Prepared & Analyzed: 01-Mar-22

Benzene	2.12	0.050	mg/kg	2.00		106	83.4-122	0.447	12.6	
Toluene	2.09	0.050	mg/kg	2.00		104	84.2-126	0.106	13.3	
Ethylbenzene	2.10	0.050	mg/kg	2.00		105	84.2-121	0.0903	13.9	
m,p-Xylene	4.41	0.100	mg/kg	4.00		110	89.9-126	0.112	13.6	
o-Xylene	2.08	0.050	mg/kg	2.00		104	84.3-123	0.148	14.1	
Total Xylenes	6.49	0.150	mg/kg	6.00		108	89.1-124	0.123	13.4	
Surrogate: 4-Bromofluorobenzene (PID)	0.0516		mg/kg	0.0500		103	69.9-140			

Batch 2030115 - Volatiles**Blank (2030115-BLK1)**

Prepared & Analyzed: 01-Mar-22

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							

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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
2617 W MARLAND
HOBBS NM, 88240

Project: SPAU INJECTION LINE
Project Number: 15018
Project Manager: JOEL LOWRY
Fax To:

Reported:
07-Mar-22 16:20

Volatile Organic Compounds by EPA Method 8021 - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2030115 - Volatiles**Blank (2030115-BLK1)**

Prepared & Analyzed: 01-Mar-22

Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0514		mg/kg	0.0500		103	69.9-140			

LCS (2030115-BS1)

Prepared & Analyzed: 01-Mar-22

Benzene	2.04	0.050	mg/kg	2.00		102	83.4-122			
Toluene	2.04	0.050	mg/kg	2.00		102	84.2-126			
Ethylbenzene	1.95	0.050	mg/kg	2.00		97.5	84.2-121			
m,p-Xylene	4.09	0.100	mg/kg	4.00		102	89.9-126			
o-Xylene	1.94	0.050	mg/kg	2.00		97.1	84.3-123			
Total Xylenes	6.03	0.150	mg/kg	6.00		100	89.1-124			
Surrogate: 4-Bromofluorobenzene (PID)	0.0494		mg/kg	0.0500		98.9	69.9-140			

LCS Dup (2030115-BSD1)

Prepared & Analyzed: 01-Mar-22

Benzene	2.09	0.050	mg/kg	2.00		104	83.4-122	2.43	12.6	
Toluene	2.08	0.050	mg/kg	2.00		104	84.2-126	2.02	13.3	
Ethylbenzene	2.01	0.050	mg/kg	2.00		100	84.2-121	2.94	13.9	
m,p-Xylene	4.21	0.100	mg/kg	4.00		105	89.9-126	2.99	13.6	
o-Xylene	2.01	0.050	mg/kg	2.00		101	84.3-123	3.56	14.1	
Total Xylenes	6.22	0.150	mg/kg	6.00		104	89.1-124	3.18	13.4	
Surrogate: 4-Bromofluorobenzene (PID)	0.0506		mg/kg	0.0500		101	69.9-140			

Batch 2030116 - Volatiles**Blank (2030116-BLK1)**

Prepared: 01-Mar-22 Analyzed: 02-Mar-22

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0518		mg/kg	0.0500		104	69.9-140			

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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 2617 W MARLAND HOBBS NM, 88240	Project: SPAU INJECTION LINE Project Number: 15018 Project Manager: JOEL LOWRY Fax To:	Reported: 07-Mar-22 16:20
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Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2030116 - Volatiles

LCS (2030116-BS1)		Prepared: 01-Mar-22 Analyzed: 02-Mar-22								
Benzene	2.09	0.050	mg/kg	2.00		104	83.4-122			
Toluene	2.08	0.050	mg/kg	2.00		104	84.2-126			
Ethylbenzene	2.00	0.050	mg/kg	2.00		99.8	84.2-121			
m,p-Xylene	4.18	0.100	mg/kg	4.00		105	89.9-126			
o-Xylene	2.02	0.050	mg/kg	2.00		101	84.3-123			
Total Xylenes	6.20	0.150	mg/kg	6.00		103	89.1-124			
Surrogate: 4-Bromofluorobenzene (PID)	0.0508		mg/kg	0.0500		102	69.9-140			

LCS Dup (2030116-BSD1)		Prepared: 01-Mar-22 Analyzed: 02-Mar-22								
Benzene	2.09	0.050	mg/kg	2.00		104	83.4-122	0.0321	12.6	
Toluene	2.08	0.050	mg/kg	2.00		104	84.2-126	0.0529	13.3	
Ethylbenzene	1.99	0.050	mg/kg	2.00		99.4	84.2-121	0.430	13.9	
m,p-Xylene	4.15	0.100	mg/kg	4.00		104	89.9-126	0.766	13.6	
o-Xylene	1.96	0.050	mg/kg	2.00		97.9	84.3-123	3.04	14.1	
Total Xylenes	6.11	0.150	mg/kg	6.00		102	89.1-124	1.50	13.4	
Surrogate: 4-Bromofluorobenzene (PID)	0.0503		mg/kg	0.0500		101	69.9-140			

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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 2617 W MARLAND HOBBS NM, 88240	Project: SPAU INJECTION LINE Project Number: 15018 Project Manager: JOEL LOWRY Fax To:	Reported: 07-Mar-22 16:20
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Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2030108 - General Prep - Organics

Blank (2030108-BLK1)		Prepared & Analyzed: 01-Mar-22								
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	47.6		mg/kg	50.0		95.3	66.9-136			
Surrogate: 1-Chlorooctadecane	52.4		mg/kg	50.0		105	59.5-142			

LCS (2030108-BS1)		Prepared & Analyzed: 01-Mar-22								
GRO C6-C10	216	10.0	mg/kg	200		108	81.6-129			
DRO >C10-C28	212	10.0	mg/kg	200		106	83-129			
Total TPH C6-C28	427	10.0	mg/kg	400		107	84.5-127			
Surrogate: 1-Chlorooctane	54.1		mg/kg	50.0		108	66.9-136			
Surrogate: 1-Chlorooctadecane	59.1		mg/kg	50.0		118	59.5-142			

LCS Dup (2030108-BS1)		Prepared & Analyzed: 01-Mar-22								
GRO C6-C10	227	10.0	mg/kg	200		113	81.6-129	4.91	21.4	
DRO >C10-C28	221	10.0	mg/kg	200		111	83-129	4.40	17.9	
Total TPH C6-C28	448	10.0	mg/kg	400		112	84.5-127	4.66	17.6	
Surrogate: 1-Chlorooctane	52.9		mg/kg	50.0		106	66.9-136			
Surrogate: 1-Chlorooctadecane	56.5		mg/kg	50.0		113	59.5-142			

Batch 2030109 - General Prep - Organics

Blank (2030109-BLK1)		Prepared & Analyzed: 01-Mar-22								
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	48.3		mg/kg	50.0		96.6	66.9-136			
Surrogate: 1-Chlorooctadecane	50.8		mg/kg	50.0		102	59.5-142			

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS NM, 88240	Project: SPAU INJECTION LINE Project Number: 15018 Project Manager: JOEL LOWRY Fax To:	Reported: 07-Mar-22 16:20
---	---	------------------------------

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2030109 - General Prep - Organics

LCS (2030109-BS1)

Prepared & Analyzed: 01-Mar-22

GRO C6-C10	225	10.0	mg/kg	200		112	81.6-129			
DRO >C10-C28	206	10.0	mg/kg	200		103	83-129			
Total TPH C6-C28	431	10.0	mg/kg	400		108	84.5-127			
Surrogate: 1-Chlorooctane	60.8		mg/kg	50.0		122	66.9-136			
Surrogate: 1-Chlorooctadecane	59.9		mg/kg	50.0		120	59.5-142			

LCS Dup (2030109-BSD1)

Prepared & Analyzed: 01-Mar-22

GRO C6-C10	243	10.0	mg/kg	200		121	81.6-129	7.70	21.4	
DRO >C10-C28	224	10.0	mg/kg	200		112	83-129	8.58	17.9	
Total TPH C6-C28	467	10.0	mg/kg	400		117	84.5-127	8.12	17.6	
Surrogate: 1-Chlorooctane	61.4		mg/kg	50.0		123	66.9-136			
Surrogate: 1-Chlorooctadecane	57.7		mg/kg	50.0		115	59.5-142			

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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Celey D. Keene, Lab Director/Quality Manager



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

March 04, 2022

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: LEGACY SPAU INJECTION LINE

Enclosed are the results of analyses for samples received by the laboratory on 03/02/22 16:20.

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:	03/02/2022	Sampling Date:	03/02/2022
Reported:	03/04/2022	Sampling Type:	Soil
Project Name:	LEGACY SPAU INJECTION LINE	Sampling Condition:	Cool & Intact
Project Number:	15018	Sample Received By:	Tamara Oldaker
Project Location:	LEGACY RESERVES		

Sample ID: TT - 3 @ 15' (H220826-01)

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	03/04/2022	ND	400	100	400	3.92	

Sample ID: TT - 4 @ 16' (H220826-02)

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	03/04/2022	ND	400	100	400	3.92	

Sample ID: TT - 4 @ 18' (H220826-03)

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	03/04/2022	ND	400	100	400	3.92	

Sample ID: TT - 5 @ 16' (H220826-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	03/04/2022	ND	400	100	400	3.92	

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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:	03/02/2022	Sampling Date:	03/02/2022
Reported:	03/04/2022	Sampling Type:	Soil
Project Name:	LEGACY SPAU INJECTION LINE	Sampling Condition:	Cool & Intact
Project Number:	15018	Sample Received By:	Tamara Oldaker
Project Location:	LEGACY RESERVES		

Sample ID: TT - 6 @ 14' (H220826-05)

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	03/04/2022	ND	400	100	400	3.92	

Sample ID: TT - 7 @ 21' (H220826-06)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2190	16.0	03/04/2022	ND	400	100	400	3.92	

Sample ID: TT - 7 @ 26' (H220826-07)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	816	16.0	03/04/2022	ND	400	100	400	3.92	

Sample ID: TT - 7 @ 29' (H220826-08)

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	03/04/2022	ND	432	108	400	0.00	

Sample ID: TT - 8 @ 6' (H220826-09)

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	03/04/2022	ND	432	108	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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- 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

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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: <i>Joel County</i>				P.O. #:				Chloride TPH (8015M) BTEX (8021E)																			
Address: 2617 West Marland				Company: <i>Legacy</i>																							
City: Hobbs		State: NM		Zip: 88240		Attn:																					
Phone #: (575) 264-9884		Fax #:		Address:																							
Project #: <i>15018</i>		Project Owner:		City:																							
Project Name: <i>Legacy SPAU injection line #15018</i>				State:																Zip:							
Project Location:				Phone #:																							
Sampler Name: <i>Aaron Rios</i>				Fax #:																							
FOR LAB USE ONLY																											
Lab I.D.		Sample I.D.				MATRIX		PRESERV.		SAMPLING																	
		GIRAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER:		ACID/BASE:		ICE / COOL		OTHER:		DATE		TIME	
<i>H220 826</i>																											
<i>1</i>		<i>TT-3 @ 15'</i>		<i>X</i>		<i>X</i>																		<i>3-2-22</i>			
<i>2</i>		<i>TT-4 @ 16'</i>		<i>X</i>		<i>X</i>																		<i>3-2-22</i>			
<i>3</i>		<i>TT-4 @ 18'</i>		<i>X</i>		<i>X</i>																		<i>3-2-22</i>			
<i>4</i>		<i>TT-5 @ 16'</i>		<i>X</i>		<i>X</i>																		<i>3-2-22</i>			
<i>5</i>		<i>TT-6 @ 14'</i>		<i>X</i>		<i>X</i>																		<i>3-2-22</i>			
<i>6</i>		<i>TT-7 @ 21'</i>		<i>X</i>		<i>X</i>																		<i>3-2-22</i>			
<i>7</i>		<i>TT-7 @ 26'</i>		<i>X</i>		<i>X</i>																		<i>3-2-22</i>			
<i>8</i>		<i>TT-7 @ 29'</i>		<i>X</i>		<i>X</i>																		<i>3-2-22</i>			
<i>9</i>		<i>TT-8 @ 6'</i>		<i>X</i>		<i>X</i>																		<i>3-2-22</i>			
<small>EASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</small>																											
Relinquished By:				Date:				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:															
<i>Aaron Rios</i>				<i>3-2-22</i>				<i>Amara Aldaker</i>																			
Delivered By: (Circle One)				Time:				Sample Condition				CHECKED BY:															
<input checked="" type="radio"/> Sample - UPS - Bus - Other:				<i>5:48</i>				<i>C-0.52</i>				<i>ASAP</i>															
				<i>4.9° #113</i>				<input checked="" type="checkbox"/> Cool <input type="checkbox"/> Intact				<i>ASAP Chloride</i>															
								<input type="checkbox"/> Yes <input type="checkbox"/> No																			



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

March 08, 2022

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: SPAU INJECTION LINE

Enclosed are the results of analyses for samples received by the laboratory on 03/02/22 16:20.

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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, flowing "C" at the beginning.

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:	03/02/2022	Sampling Date:	03/02/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	SPAU INJECTION LINE	Sampling Condition:	Cool & Intact
Project Number:	15018	Sample Received By:	Tamara Oldaker
Project Location:	LEGACY RESERVES		

Sample ID: FL # 15 @ 14' (H220831-01)

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	03/04/2022	ND	400	100	400	3.92	

Sample ID: FL # 16 @ 14' (H220831-02)

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	03/04/2022	ND	400	100	400	3.92	

Sample ID: FL # 17 @ 14' (H220831-03)

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	03/04/2022	ND	400	100	400	3.92	

Sample ID: FL # 18 @ 14' (H220831-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	03/04/2022	ND	400	100	400	3.92	

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:	03/02/2022	Sampling Date:	03/02/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	SPAU INJECTION LINE	Sampling Condition:	Cool & Intact
Project Number:	15018	Sample Received By:	Tamara Oldaker
Project Location:	LEGACY RESERVES		

Sample ID: FL # 19 @ 14' (H220831-05)

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	03/04/2022	ND	400	100	400	3.92	

Sample ID: FL # 20 @ 12' (H220831-06)

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	03/04/2022	ND	400	100	400	3.92	

Sample ID: FL # 21 @ 14' (H220831-07)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	03/04/2022	ND	400	100	400	3.92	

Sample ID: FL # 22 @ 14' (H220831-08)

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	03/04/2022	ND	400	100	400	3.92	

Sample ID: FL # 23 @ 12' (H220831-09)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	03/07/2022	ND	416	104	400	3.77	

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Analytical Results For:

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

Received:	03/02/2022	Sampling Date:	03/02/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	SPAU INJECTION LINE	Sampling Condition:	Cool & Intact
Project Number:	15018	Sample Received By:	Tamara Oldaker
Project Location:	LEGACY RESERVES		

Sample ID: FL # 24 @ 12' (H220831-10)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	03/07/2022	ND	416	104	400	3.77	

Sample ID: FL # 25 @ 13' (H220831-11)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	03/07/2022	ND	416	104	400	3.77	

Sample ID: FL # 26 @ 13' (H220831-12)

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	03/07/2022	ND	416	104	400	3.77	

Sample ID: FL # 27 @ 13' (H220831-13)

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	03/07/2022	ND	416	104	400	3.77	

Sample ID: FL # 28 @ 13' (H220831-14)

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	03/07/2022	ND	416	104	400	3.77	

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 2617 W MARLAND
 HOBBS NM, 88240
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Received:	03/02/2022	Sampling Date:	03/02/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	SPAU INJECTION LINE	Sampling Condition:	Cool & Intact
Project Number:	15018	Sample Received By:	Tamara Oldaker
Project Location:	LEGACY RESERVES		

Sample ID: FL # 29 @ 13' (H220831-15)

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	03/07/2022	ND	416	104	400	3.77	

Sample ID: FL # 30 @ 12' (H220831-16)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	880	16.0	03/07/2022	ND	416	104	400	3.77	

Sample ID: FL # 31 @ 12' (H220831-17)

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	03/07/2022	ND	416	104	400	3.77	

Sample ID: FL # 32 @ 12' (H220831-18)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	960	16.0	03/07/2022	ND	416	104	400	3.77	

Sample ID: FL # 33 @ 12' (H220831-19)

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	03/07/2022	ND	416	104	400	3.77	

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Received:	03/02/2022	Sampling Date:	03/02/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	SPAU INJECTION LINE	Sampling Condition:	Cool & Intact
Project Number:	15018	Sample Received By:	Tamara Oldaker
Project Location:	LEGACY RESERVES		

Sample ID: FL # 34 @ 4' (H220831-20)

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	03/07/2022	ND	416	104	400	3.77	

Sample ID: FL # 35 @ 10' (H220831-21)

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	03/07/2022	ND	416	104	400	3.77	

Sample ID: FL # 36 @ 7' (H220831-22)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	03/07/2022	ND	416	104	400	3.77	

Sample ID: FL # 37 @ 6' (H220831-23)

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	03/07/2022	ND	416	104	400	3.77	

Sample ID: FL # 38 @ 10' (H220831-24)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5360	16.0	03/07/2022	ND	416	104	400	3.77	

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Received:	03/02/2022	Sampling Date:	03/02/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	SPAU INJECTION LINE	Sampling Condition:	Cool & Intact
Project Number:	15018	Sample Received By:	Tamara Oldaker
Project Location:	LEGACY RESERVES		

Sample ID: FL # 39 @ 10' (H220831-25)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	03/07/2022	ND	416	104	400	3.77	

Sample ID: FL # 40 @ 4' (H220831-26)

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	03/07/2022	ND	416	104	400	3.77	

Sample ID: FL # 41 @ 7' (H220831-27)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1060	16.0	03/07/2022	ND	416	104	400	3.77	

Sample ID: FL # 42 @ 7' (H220831-28)

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	03/07/2022	ND	416	104	400	3.77	

Sample ID: FL # 43 @ 4' (H220831-29)

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	03/07/2022	ND	416	104	400	3.92	

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Received:	03/02/2022	Sampling Date:	03/02/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	SPAU INJECTION LINE	Sampling Condition:	Cool & Intact
Project Number:	15018	Sample Received By:	Tamara Oldaker
Project Location:	LEGACY RESERVES		

Sample ID: FL # 44 @ 4' (H220831-30)

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	03/07/2022	ND	416	104	400	3.92	

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Received:	03/02/2022	Sampling Date:	03/02/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	SPAU INJECTION LINE	Sampling Condition:	Cool & Intact
Project Number:	15018	Sample Received By:	Tamara Oldaker
Project Location:	LEGACY RESERVES		

Sample ID: NW # 2 (H220831-31)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/04/2022	ND	1.95	97.5	2.00	11.6	
Toluene*	<0.050	0.050	03/04/2022	ND	2.00	100	2.00	6.98	
Ethylbenzene*	<0.050	0.050	03/04/2022	ND	1.92	96.0	2.00	8.86	
Total Xylenes*	<0.150	0.150	03/04/2022	ND	5.94	99.0	6.00	9.69	
Total BTEX	<0.300	0.300	03/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	960	16.0	03/07/2022	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	03/07/2022	ND	231	115	200	0.498	
DRO >C10-C28*	<10.0	10.0	03/07/2022	ND	207	104	200	1.41	
EXT DRO >C28-C36	<10.0	10.0	03/07/2022	ND					

Surrogate: 1-Chlorooctane 85.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 86.5 % 59.5-142

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 2617 W MARLAND
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 Fax To:

Received:	03/02/2022	Sampling Date:	03/02/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	SPAU INJECTION LINE	Sampling Condition:	Cool & Intact
Project Number:	15018	Sample Received By:	Tamara Oldaker
Project Location:	LEGACY RESERVES		

Sample ID: NW # 3 (H220831-32)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/04/2022	ND	1.95	97.5	2.00	11.6	
Toluene*	<0.050	0.050	03/04/2022	ND	2.00	100	2.00	6.98	
Ethylbenzene*	<0.050	0.050	03/04/2022	ND	1.92	96.0	2.00	8.86	
Total Xylenes*	<0.150	0.150	03/04/2022	ND	5.94	99.0	6.00	9.69	
Total BTEX	<0.300	0.300	03/04/2022	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	03/07/2022	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	03/07/2022	ND	231	115	200	0.498	
DRO >C10-C28*	<10.0	10.0	03/07/2022	ND	207	104	200	1.41	
EXT DRO >C28-C36	<10.0	10.0	03/07/2022	ND					

Surrogate: 1-Chlorooctane 75.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 74.7 % 59.5-142

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Analytical Results For:

Etech Environmental & Safety Solutions
 JOEL LOWRY
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 Fax To:

Received:	03/02/2022	Sampling Date:	03/02/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	SPAU INJECTION LINE	Sampling Condition:	Cool & Intact
Project Number:	15018	Sample Received By:	Tamara Oldaker
Project Location:	LEGACY RESERVES		

Sample ID: NW # 4 (H220831-33)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/04/2022	ND	1.95	97.5	2.00	11.6	
Toluene*	<0.050	0.050	03/04/2022	ND	2.00	100	2.00	6.98	
Ethylbenzene*	<0.050	0.050	03/04/2022	ND	1.92	96.0	2.00	8.86	
Total Xylenes*	<0.150	0.150	03/04/2022	ND	5.94	99.0	6.00	9.69	
Total BTEX	<0.300	0.300	03/04/2022	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	112	16.0	03/07/2022	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	03/07/2022	ND	231	115	200	0.498	
DRO >C10-C28*	<10.0	10.0	03/07/2022	ND	207	104	200	1.41	
EXT DRO >C28-C36	<10.0	10.0	03/07/2022	ND					

Surrogate: 1-Chlorooctane 83.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 84.4 % 59.5-142

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Received:	03/02/2022	Sampling Date:	03/02/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	SPAU INJECTION LINE	Sampling Condition:	Cool & Intact
Project Number:	15018	Sample Received By:	Tamara Oldaker
Project Location:	LEGACY RESERVES		

Sample ID: NW # 5 (H220831-34)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/04/2022	ND	1.95	97.5	2.00	11.6	
Toluene*	<0.050	0.050	03/04/2022	ND	2.00	100	2.00	6.98	
Ethylbenzene*	<0.050	0.050	03/04/2022	ND	1.92	96.0	2.00	8.86	
Total Xylenes*	<0.150	0.150	03/04/2022	ND	5.94	99.0	6.00	9.69	
Total BTEX	<0.300	0.300	03/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	03/07/2022	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	03/07/2022	ND	231	115	200	0.498	
DRO >C10-C28*	<10.0	10.0	03/07/2022	ND	207	104	200	1.41	
EXT DRO >C28-C36	<10.0	10.0	03/07/2022	ND					

Surrogate: 1-Chlorooctane 88.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 90.7 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

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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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

2 of 4

Company Name: Etech Environmental & Safety Solutions, Inc.		BILL TO		ANALYSIS REQUEST									
Project Manager: <i>Joel Lowry</i>		P.O. #:											
Address: 2617 West Marland		Company: <i>Legacy</i>											
City: Hobbs State: NM Zip: 88240		Attn:											
Phone #: (575) 264-9884 Fax #:		Address:											
Project #: <i>15018</i> Project Owner:		City:											
Project Name: <i>Legacy SPALL injection line #15018</i>		State: Zip:											
Project Location:		Phone #:											
Sampler Name: <i>Aaron Rios</i>		Fax #:											

Lab I.D.	Sample I.D.	(GRAB OR (C)OMP. # CONTAINERS	MATRIX					PRESERV.		SAMPLING		Chloride	TPH (8015M)	BTEX (8021B)
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:			
<i>H220831</i>														
<i>11</i>	<i>FL # 25 @ 13'</i>	<i>X</i>	<i>X</i>								<i>3-2-22</i>		<i>X</i>	
<i>12</i>	<i>FL # 26 @ 13'</i>	<i>X</i>	<i>X</i>										<i>X</i>	
<i>13</i>	<i>FL # 27 @ 13'</i>	<i>X</i>	<i>X</i>										<i>X</i>	
<i>14</i>	<i>FL # 28 @ 13'</i>	<i>Y</i>	<i>X</i>										<i>X</i>	
<i>15</i>	<i>FL # 29 @ 13'</i>	<i>X</i>	<i>X</i>										<i>X</i>	
<i>16</i>	<i>FL # 30 @ 12'</i>	<i>X</i>	<i>Y</i>										<i>X</i>	
<i>17</i>	<i>FL # 31 @ 12'</i>	<i>X</i>	<i>X</i>										<i>X</i>	
<i>18</i>	<i>FL # 32 @ 12'</i>	<i>Y</i>	<i>X</i>										<i>X</i>	
<i>19</i>	<i>FL # 33 @ 12'</i>	<i>X</i>	<i>Y</i>										<i>X</i>	
<i>20</i>	<i>FL # 34 @ 4'</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 #:
Relinquished By:	Date:	Received By:	REMARKS:	
<i>Aaron Rios</i>	<i>3-2-22</i>	<i>Jamara Oldaker</i>	Please email copy of COC and results to pm@etechenv.com.	
Delivered By: (Circle One)	Time:	Sample Condition	CHECKED BY: (Initials)	
<input checked="" type="radio"/> Sample - UPS - Bus - Other:	<i>5:40</i>	<i>C-0.5c</i>	<i>JO</i>	
	<i>4:40</i>	<i>#113</i>		



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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: 2617 W Marland				Company: Etech																								
City: Hobbs		State: NM		Zip: 88240		Attn: Joel Lowry																						
Phone #: (575) 264-9884		Fax #:		Address:																								
Project #: 15018		Project Owner: Legacy		City:																								
Project Name: SPAU Injection Line				State: Zip:																								
Project Location: Rural Lea County, NM				Phone #:																								
Sampler Name: Joel Lowry				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													
	H2208860		C	1			X							3/7/22	13:50	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: <i>[Signature]</i>				Date: 3/7/22		Received By: <i>[Signature]</i>				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:																
				Time: 13:03						Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:																
Relinquished By:				Date:		Received By:				REMARKS:																		
				Time:						RUSH SAMPLES																		
Delivered By: (Circle One)				-5.4		Sample Condition		CHECKED BY: <i>[Signature]</i>		Please email results and copy of CoC to pm@etechenv.com.																		
Sampler - UPS - Bus - Other:				-165		Cool Intact		(Initials)																				
				-6.1 + 5.9		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																						
						<input type="checkbox"/> No <input type="checkbox"/> No																						

#113



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

March 08, 2022

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: SPAU INJECTION LINE

Enclosed are the results of analyses for samples received by the laboratory on 03/07/22 15:03.

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, flowing "C" at the beginning.

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:	03/07/2022	Sampling Date:	03/07/2022
Reported:	03/08/2022	Sampling Type:	Soil
Project Name:	SPAU INJECTION LINE	Sampling Condition:	Cool & Intact
Project Number:	15018	Sample Received By:	Jodi Henson
Project Location:	LEGACY RESERVES		

Sample ID: EW - 1 (H220886-01)

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	03/07/2022	ND	2.08	104	2.00	5.88	
Toluene*	<0.050	0.050	03/07/2022	ND	2.11	105	2.00	5.59	
Ethylbenzene*	<0.050	0.050	03/07/2022	ND	2.12	106	2.00	5.37	
Total Xylenes*	<0.150	0.150	03/07/2022	ND	6.56	109	6.00	5.52	
Total BTEX	<0.300	0.300	03/07/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/08/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2022	ND	207	103	200	0.603	
DRO >C10-C28*	<10.0	10.0	03/07/2022	ND	201	101	200	3.57	
EXT DRO >C28-C36	<10.0	10.0	03/07/2022	ND					

Surrogate: 1-Chlorooctane 67.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 74.5 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

Appendix D

Photographic Log

Photographic Log

Photo Number: 1	
Photo Direction: South	
Photo Description: View of impacted area.	

Photo Number: 2	
Photo Direction: South	
Photo Description: View of impacted area.	

Photographic Log

Photo Number: 3	
Photo Direction: Top-Down	
Photo Description: Aerial view of excavation.	

Photo Number: 4	
Photo Direction: Top-Down	
Photo Description: Aerial view of excavation.	

Photographic Log

Photo Number: 5	 <p>2/16/22, 12:43 PM +82.333443,-103.149720</p> <p>View of excavated area.</p>
Photo Direction: Southwest	
Photo Description:	

Photo Number: 6	 <p>View of excavated area.</p>
Photo Direction: South	
Photo Description:	

Photographic Log

Photo Number: 7	 <p>3/2/22, 12:46 PM +32.333452,-103.150036</p>
Photo Direction: Southeast	
Photo Description: View of excavated area.	

Photo Number: 8	 <p>2/16/22, 12:43 PM +32.333443,-103.149720</p>
Photo Direction: South	
Photo Description: View of excavated area.	

District I
 1625 N. French Dr., Hobbs, NM 88240
 Phone:(575) 393-6161 Fax:(575) 393-0720

District II
 811 S. First St., Artesia, NM 88210
 Phone:(575) 748-1283 Fax:(575) 748-9720

District III
 1000 Rio Brazos Rd., Aztec, NM 87410
 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV
 1220 S. St Francis Dr., Santa Fe, NM 87505
 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS
 Action 54763

CONDITIONS

Operator: LEGACY RESERVES OPERATING, LP 15 Smith Road Midland, TX 79705	OGRID: 240974
	Action Number: 54763
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Remediation Plan Approved.	8/2/2022