

Incident ID	nAPP2123840629
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>55</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 checked="" type="checkbox"/> Yes <input 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.

State of New Mexico
Oil Conservation Division

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

Printed Name: Carolyn Blackaller Title: Sr. Environmental SpecialistSignature:  Date: 12/2/2021email: Carolyn.Blackaller@energytransfer.com Telephone: (432)203-8290**OCD Only**

Received by: _____ Date: _____

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Application ID	


Closure

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

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

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

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

Printed Name: Carolyn Blackaller Title: Sr. Environmental Specialist
Signature:  Date: 12/2/2021
email: Carolyn.Blackaller@energytransfer.com Telephone: (432)203-8290

OCD Only

Received by: Chad Hensley Date: 12/27/2021

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

Closure Approved by:  Date: 12/27/2021
Printed Name: Chad Hensley Title: Environmental Specialist Advanced

Remediation Summary & Soil Closure Request

ETC Texas Pipeline, Ltd.

F-16-4 8-12-21

Lea County, New Mexico

Unit Letter "P", Section 23, Township 22 South, Range 37 East

Latitude 32.370974 North, Longitude 103.1256228 West


NMOCD Reference No. nAPP2123840629

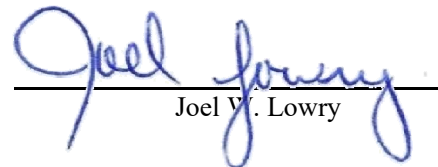
Prepared By:

Etech Environmental & Safety Solutions, Inc.

2507 79th Street, Unit A

Lubbock, Texas 79423


Ben J. Arguijo


Joel V. Lowry



Midland • San Antonio • Lubbock • Hobbs • Lafayette

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1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of ETC Texas Pipeline, Ltd. (ETC), has prepared this *Remediation Summary & Soil Closure Request* for the release site known as the F-16-4 8-12-21 (henceforth, "Site"). Details of the release are summarized below:

Location of Release Source

Latitude: 32.370974 Longitude: -103.1256228

Provided GPS are in WGS84 format.

Site Name:	F-16-4 8-12-21	Site Type:	Pipeline
Date Release Discovered:	8/12/2021	API # (if applicable):	N/A

Unit Letter	Section	Township	Range	County
"P"	23	22S	37E	Lea

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

Nature and Volume of Release

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of total dissolved solids (TDS) in the produced water > 10,000 mg/L?	<input 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 checked="" type="checkbox"/> Other (describe) Pipeline Liquids	Volume/Weight Released (bbls) 5.96	Volume/Weight Recovered (bbls) 0

Cause of Release:

The release was attributed to overspray from an air pocket in the line.

Initial Response

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

Previously submitted portions of the 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?	55'		
Did the release impact groundwater or surface water?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
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Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Did the release impact areas not on an exploration, development, production or storage site?	<input 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 & Wildlife Services (FWS) shapefiles; topographic maps; NMOSE and USGS databases; and aerial imagery. The results are depicted in Figures 1, 2, 4, and 5.

3.0 CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE

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

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

* Measured in milligrams per kilogram (mg/kg)

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

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

4.0 REMEDIATION ACTIVITIES SUMMARY

On August 13, 2021, remediation activities commenced at the Site. ETC retained Etech to provide oversight for the remediation activities and to conduct delineation and confirmation sampling. A third-party contractor was retained to perform excavation activities.

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

On September 3, 2021, Etech collected 28 confirmation soil samples (F1 through F21, NW1, NWW1, NWW2, NWW3, EW1, SEW1, and SW1) from the floor and sidewalls of the excavated area. The soil samples were submitted to a certified commercial laboratory (henceforth, "the laboratory") for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples, with the exception of soil sample F5, which exhibited a chloride concentration of 624 mg/kg. TPH concentrations exceeded the NMOCD Closure Criteria in soil samples F1, F2, F4, F5, F7 through F11, NWW1, and NWW2, with results ranging from 105 mg/kg in soil sample NWW2 to 4,697 mg/kg in soil sample F2.

On September 21, 2021, Etech advanced two (2) hand-augered soil bores (V1 and V2) within the release margins in an effort to further investigate the vertical extent of impacted soil. During the advancement of the hand-augered soil bores, field soil samples were collected and field-screened for the presence of volatile organic compounds utilizing visual/olfactory senses and concentrations of chloride utilizing a chloride test kit.

Based on field observations and field test data, Etech submitted two (2) delineation soil samples (V1 @ 3' and V2 @ 1.5') to the laboratory for analysis of TPH. Based on laboratory analytical results, soil was not affected above the NMOCD Closure Criteria beyond 1.5 feet below ground surface in the area characterized by sample point V2. However, additional delineation and/or excavation was required in the area characterized by sample point V1.

On October 8, 2021, remediation activities resumed at the Site. Based on laboratory analytical results, the excavation was further advanced in the areas characterized by soil samples F1, F2, F4, F5, F7 through F11, NWW1, NWW2, and V1 @ 3'.

On October 14, 2021, Etech collected 12 confirmation soil samples (F1B, F2B, F4B, F5B, F7B through F11B, NWW1B, NWW2B, and V1B) from the floor and sidewalls of the excavated area. The soil samples were submitted to the laboratory for analysis of TPH. Soil sample F5B was also analyzed for chloride. Laboratory analytical results indicated TPH concentrations were below the NMOCD Closure Criteria and NMOCD Reclamation Standard in each of the submitted soil samples. The chloride concentration in soil sample F5B was 800 mg/kg, which exceeded the NMOCD Closure Criteria.

Upon review of laboratory analytical documentation, the excavation was further advanced in the area characterized by soil sample F5B.

On October 25, 2021, Etech collected one (1) confirmation soil sample (F5C) from the floor of the excavated area. The soil sample was submitted to the laboratory for analysis of chloride. Laboratory analytical results indicated the chloride concentration was below the NMOCD Closure Criteria and NMOCD Reclamation Standard.

The final dimensions of the excavated area were approximately 140 feet in length, 50 feet in width, and six (6) inches to six (6) feet in depth. During the course of remediation activities, approximately 420 cubic yards of impacted soil was transported to an NMOCD-permitted surface waste facility for disposal. Approximately 420 cubic yards of locally sourced, non-impacted material was imported to the Site for use as backfill.

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

5.0 RESTORATION, RECLAMATION & RE-VEGETATION PLAN

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

6.0 SOIL CLOSURE REQUEST

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

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

7.0 LIMITATIONS

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

8.0 DISTRIBUTION

ETC Texas Pipeline, Ltd.

600 N. Marienfeld. St.

Suite 700

Midland, TX 79701

New Mexico Energy, Minerals and Natural Resources Department

Oil Conservation Division, District 1

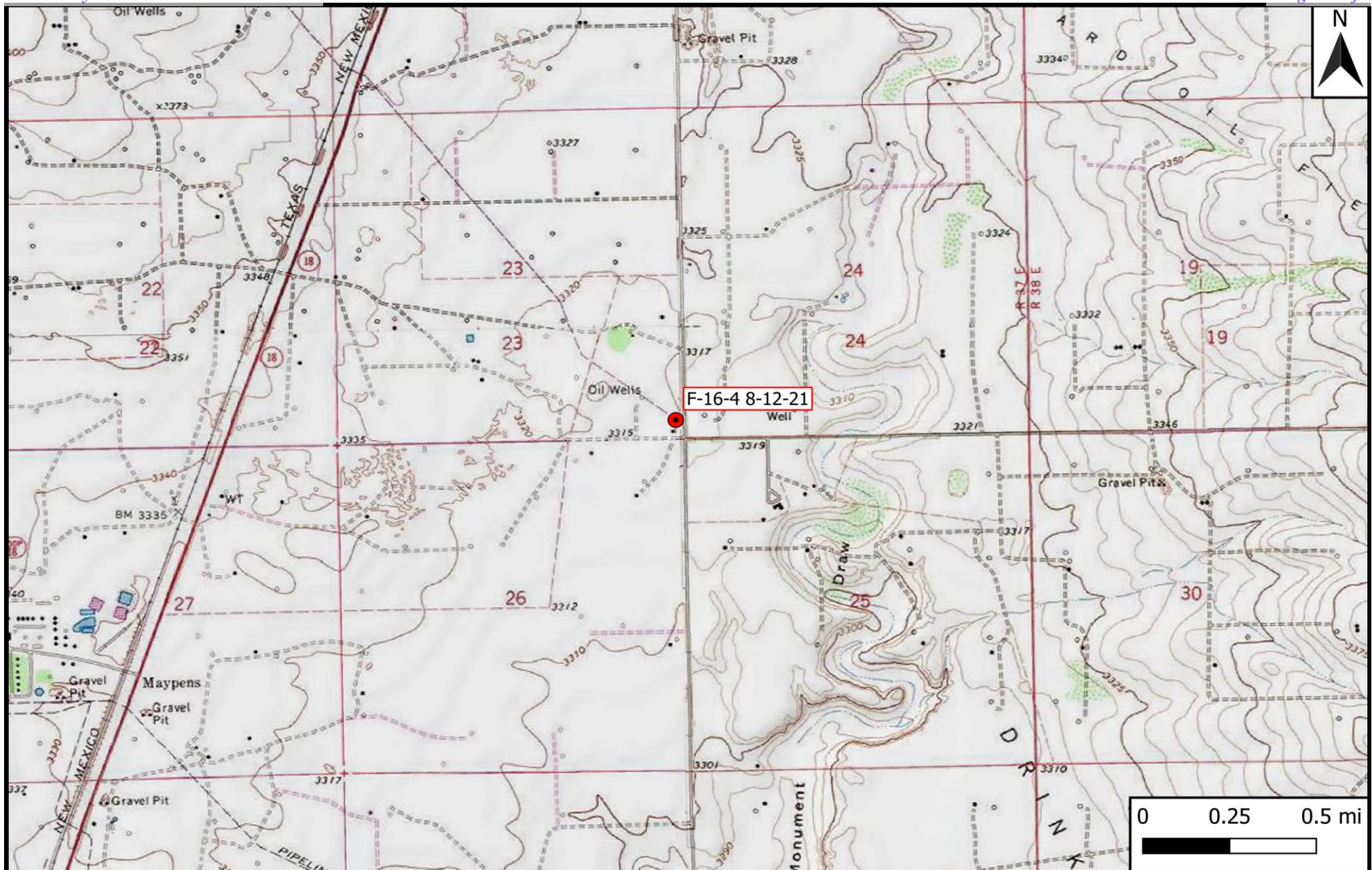
1220 South St. Francis Drive

Santa Fe, NM 87505

(Electronic Submission)

Figure 1

Topographic Map



Legend

- Site Location

Figure 1

Topographic Map
ETC Texas Pipeline, Ltd.
F-16-4 8-12-21
GPS: 32.370974, -103.1256228
Lea County

ETECH
Environmental & Safety Solutions, Inc.

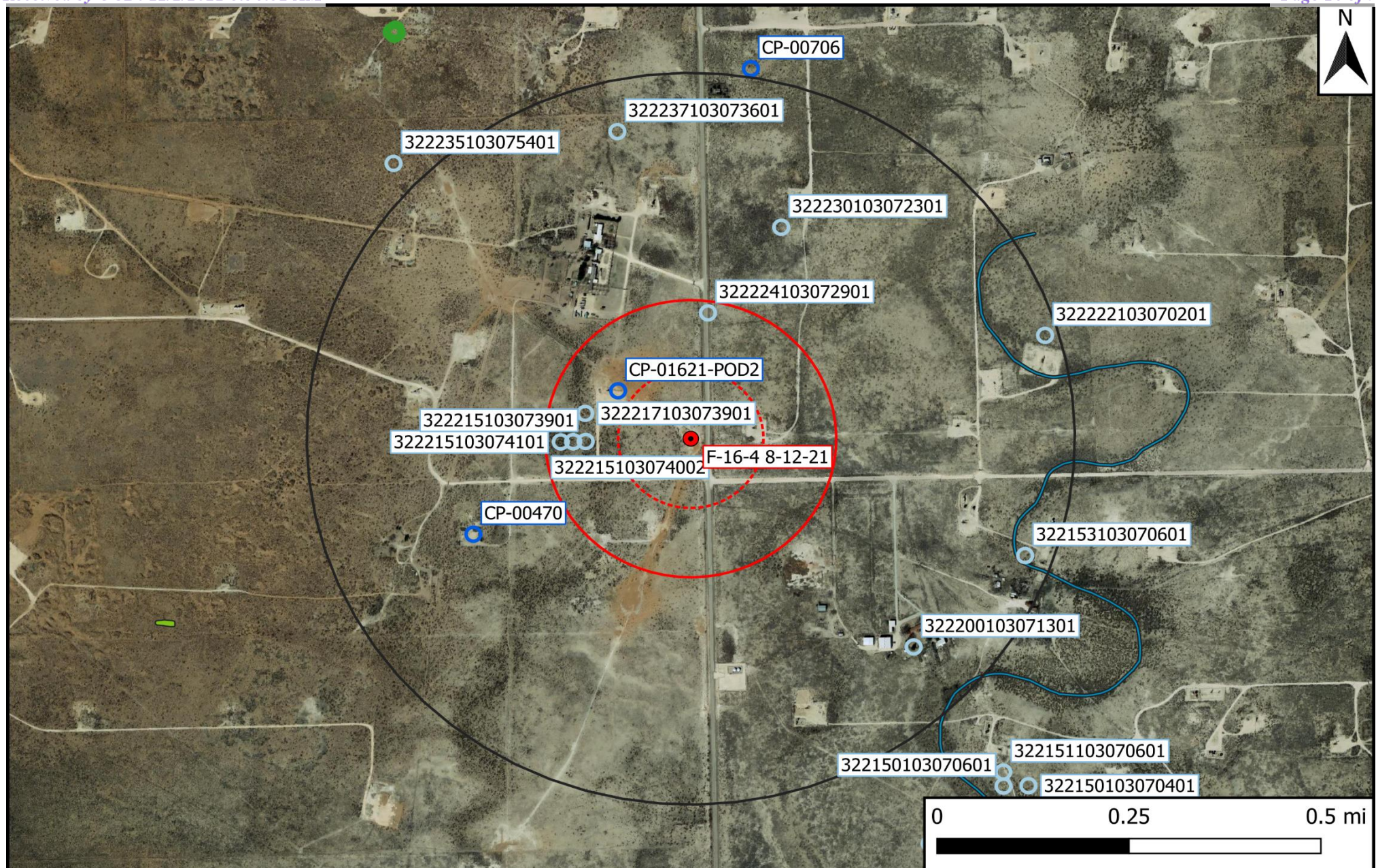
Drafted: bja

Checked: jwl

Date: 9/13/21

Figure 2

Aerial Proximity Map



Legend

- | | | |
|------------------------|----------------------------|-------------------|
| ● Site Location | 1% Annual Flood Chance | 500-Foot Radius |
| ○ Well - NMOSE | Emergent/Forested Wetlands | 1,000-Foot Radius |
| ○ Well - USGS | Freshwater Pond/Lake | 0.5-Mile Radius |
| ○ Well - Other | Medium/High Karst | |
| — Potash Mine Workings | Riverine | |

Figure 2
 Aerial Proximity Map
 ETC Texas Pipeline, Ltd.
 F-16-4 8-12-21
 GPS: 32.370974, -103.1256228
 Lea County

ETECH
 Environmental & Safety Solutions, Inc.

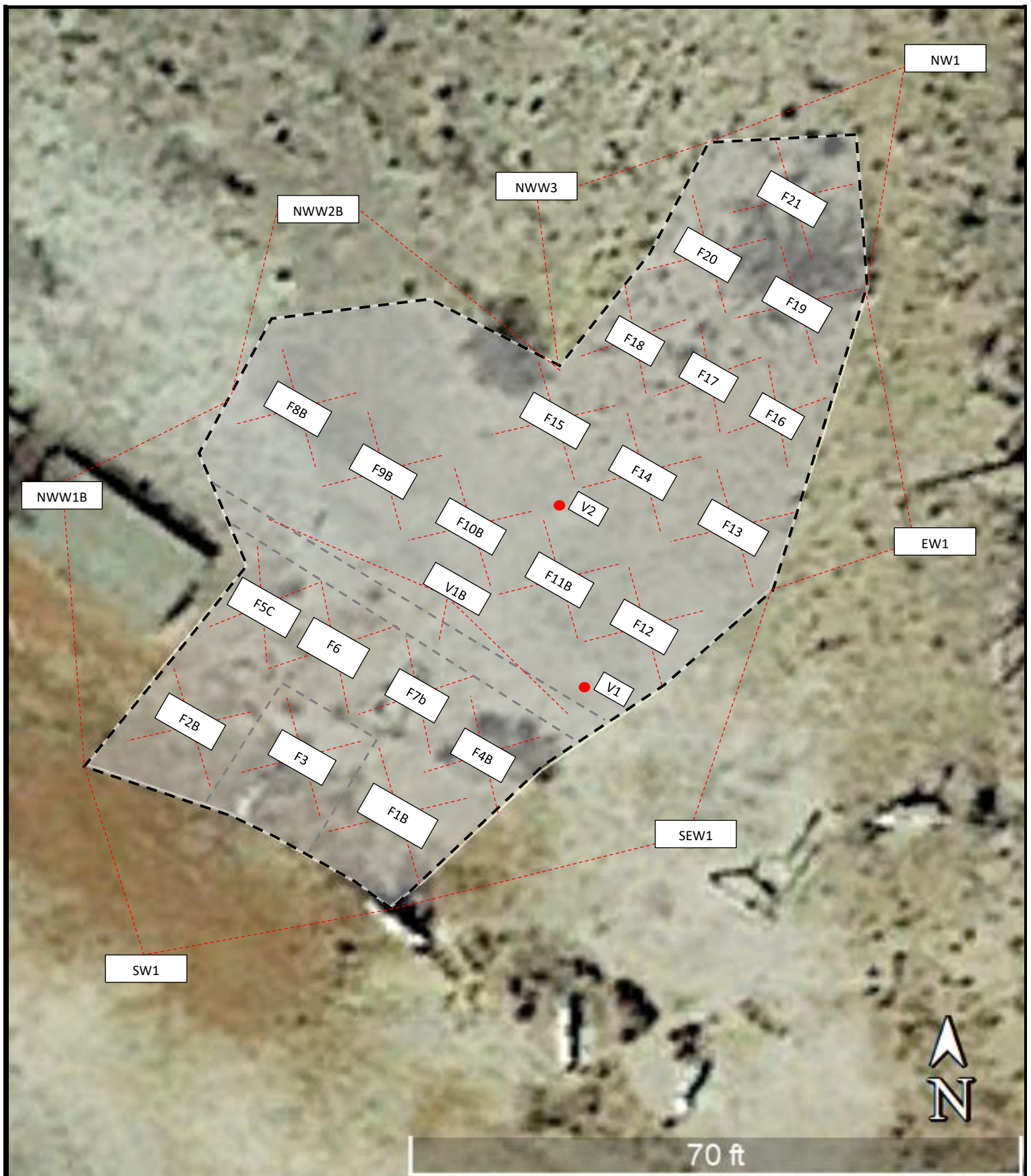
Drafted: bja

Checked: jwl

Date: 9/13/21

Figure 3

Site & Sample Location Map



Legend:




-  Excavated Area
-  Auger Hole
-  Composite Sample Location

Figure 3

Site & Sample Location Map
ETC Texas Pipeline, Ltd.

F-16-4 8-12-21

GPS: 32.370974, -103.1256228

Lea County

eTECH

Environmental & Safety Solutions, Inc.

Drafted: jwl

Modified: bja

Date: 11/19/21

Table 1
Concentrations of BTEX, TPH & Chloride in Soil

Table 1
Concentrations of BTEX, TPH & Chloride in Soil
ETC Texas Pipeline, Ltd.
F-16-4 8-12-21
NMOCD Ref. #: nAPP2123840629

NMOCD Closure Criteria				10	50	-	-	-	-	100	600
NMOCD Reclamation Standard				10	50	-	-	-	-	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
F1	9/3/2021	0.5	Excavated	<0.050	<0.300	11.4	1,510	1,520	432	1,950	16.0
F1B	10/14/2021	4	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	-
F2	9/3/2021	0.5	Excavated	<0.050	<0.300	17.0	3,600	3,620	1,080	4,700	144
F2B	10/14/2021	3	In-Situ	-	-	<10.0	39.7	39.7	<10.0	39.7	-
F3	9/3/2021	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
F4	9/3/2021	0.5	Excavated	<0.050	<0.300	<10.0	259	269	52.3	321	192
F4B	10/14/2021	3	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	-
F5	9/3/2021	0.5	Excavated	<0.050	<0.300	<10.0	135	145	29.5	175	624
F5B	10/14/2021	3	Excavated	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	800
F5C	10/25/2021	4	In-Situ	-	-	-	-	-	-	-	288
F6	9/3/2021	0.5	In-Situ	<0.050	<0.300	<10.0	25.4	35.4	11.8	47.2	160
F7	9/3/2021	0.5	Excavated	<0.050	<0.300	<10.0	113	123	35.7	159	<16.0
F7B	10/14/2021	2.5	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	-
F8	9/3/2021	0.5	Excavated	<0.050	<0.300	<10.0	335	345	109	454	176
F8B	10/14/2021	3	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	-
F9	9/3/2021	0.5	Excavated	<0.050	<0.300	<10.0	323	333	101	434	288
F9B	10/14/2021	3	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	-
F10	9/3/2021	0.5	Excavated	<0.050	<0.300	<10.0	73.2	83.2	44.1	127	80.0
F10B	10/14/2021	3	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	-
F11	9/3/2021	0.5	Excavated	<0.050	<0.300	<10.0	94.6	105	35.1	140	128
F11B	10/14/2021	3	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	-
F12	9/3/2021	0.5	In-Situ	<0.050	<0.300	<10.0	28.3	38.3	<10.0	48.3	112
F13	9/3/2021	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
F14	9/3/2021	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
F15	9/3/2021	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
F16	9/3/2021	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
F17	9/3/2021	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
F18	9/3/2021	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
F19	9/3/2021	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
F20	9/3/2021	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
F21	9/3/2021	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
NW1	9/3/2021	0-0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
NWW1	9/3/2021	0-0.5	Excavated	<0.050	<0.300	<10.0	128	138	27.9	166	144
NWW1B	10/14/2021	0-1	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	-
NWW2	9/3/2021	0-0.5	Excavated	<0.050	<0.300	<10.0	57.6	67.6	37.1	105	128
NWW2B	10/14/2021	0-2	In-Situ	-	-	<10.0	10.3	10.3	18.8	29.1	-
NWW3	9/3/2021	0-0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
EW1	9/3/2021	0-0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SEW1	9/3/2021	0-0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
SW1	9/3/2021	0-0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
V1 @ 3'	9/21/2021	3	Excavated	-	-	<10.0	233	233	45.3	278	-

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

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

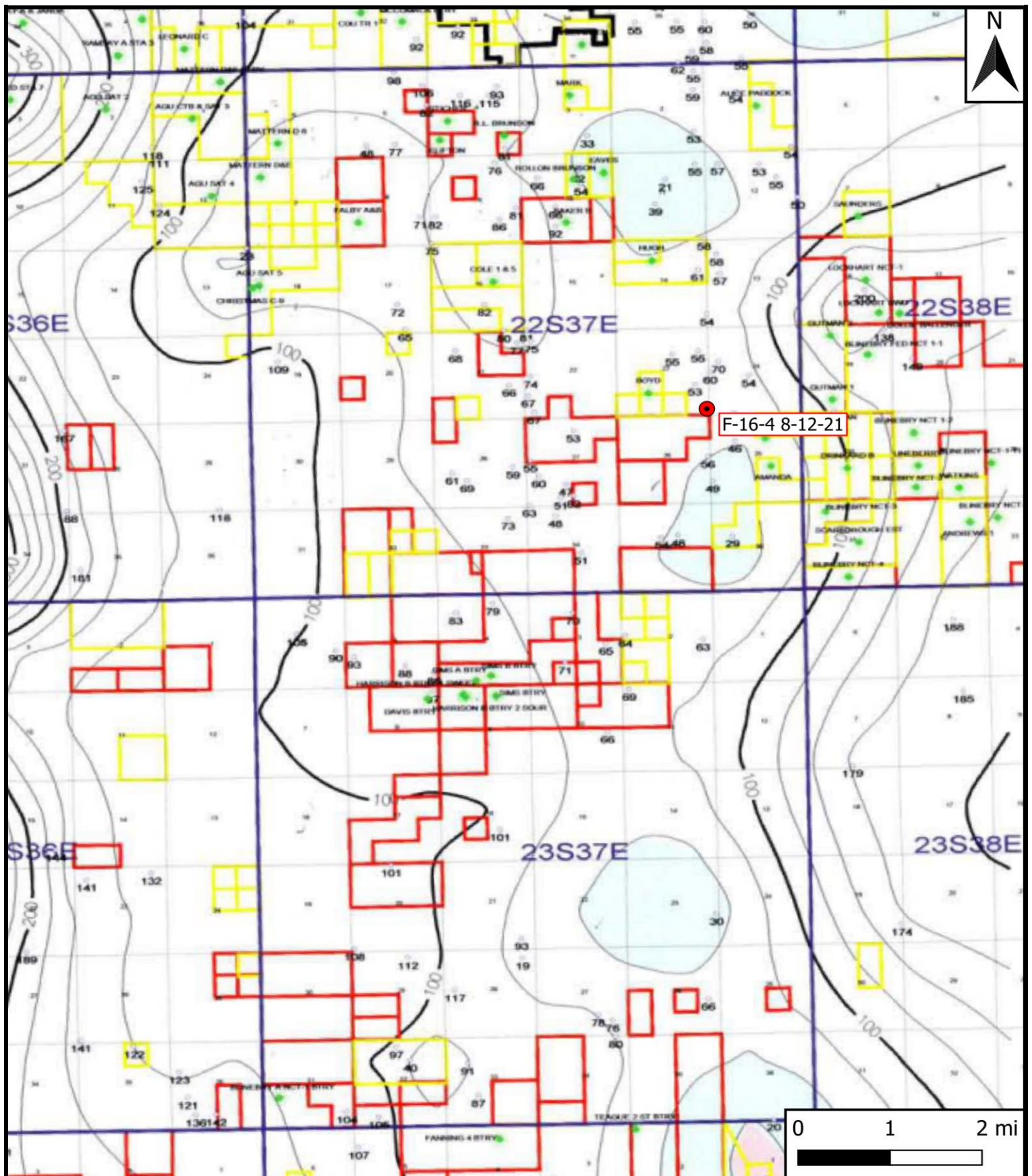
Table 1 Concentrations of BTEX, TPH & Chloride in Soil ETC Texas Pipeline, Ltd. F-16-4 8-12-21 NMOCD Ref. #: nAPP2123840629											
NMOCD Closure Criteria				10	50	-	-	-	-	100	600
NMOCD Reclamation Standard				10	50	-	-	-	-	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
V1B	10/14/2021	6	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	-
V2 @ 1.5'	9/21/2021	1.5	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	-

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
ETC Texas Pipeline, Ltd.
F-16-4 8-12-21
GPS: 32.370974, -103.1256228
Lea County

eTECH
Environmental & Safety Solutions, Inc.

Revised: bja

Checked: jwl

Date: 9/13/21



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
CP 01621 POD2		CP	LE	2	4	4	23	22S	37E	676190	3583206	185	75		
CP 00470		CP	LE	2	1	2	26	22S	37E	675886	3582892*	501	99	65	34

Average Depth to Water: **65 feet**

Minimum Depth: **65 feet**

Maximum Depth: **65 feet**

Record Count: 2

UTM NAD83 Radius Search (in meters):

Easting (X): 676341.9

Northing (Y): 3583101.23

Radius: 804.67

*UTM location was derived from PLSS - see Help

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


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WATER COLUMN/ AVERAGE DEPTH TO WATER



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)						(NAD83 UTM in meters)	
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	CP 01621 POD2	2	4	4	23	22S	37E	676190	3583206 
<hr/>									
Driller License: 1711		Driller Company:				STRAUB CORPORATION			
Driller Name: BRYAN, EDWARD									
Drill Start Date: 08/23/2017		Drill Finish Date:				08/23/2017		Plug Date:	
Log File Date: 09/14/2017		PCW Rev Date:						Source: Shallow	
Pump Type:		Pipe Discharge Size:				Estimated Yield:			
Casing Size: 2.00		Depth Well:				75 feet		Depth Water:	
<hr/>									
Casing Perforations:					Top	Bottom			
					60	75			

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POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

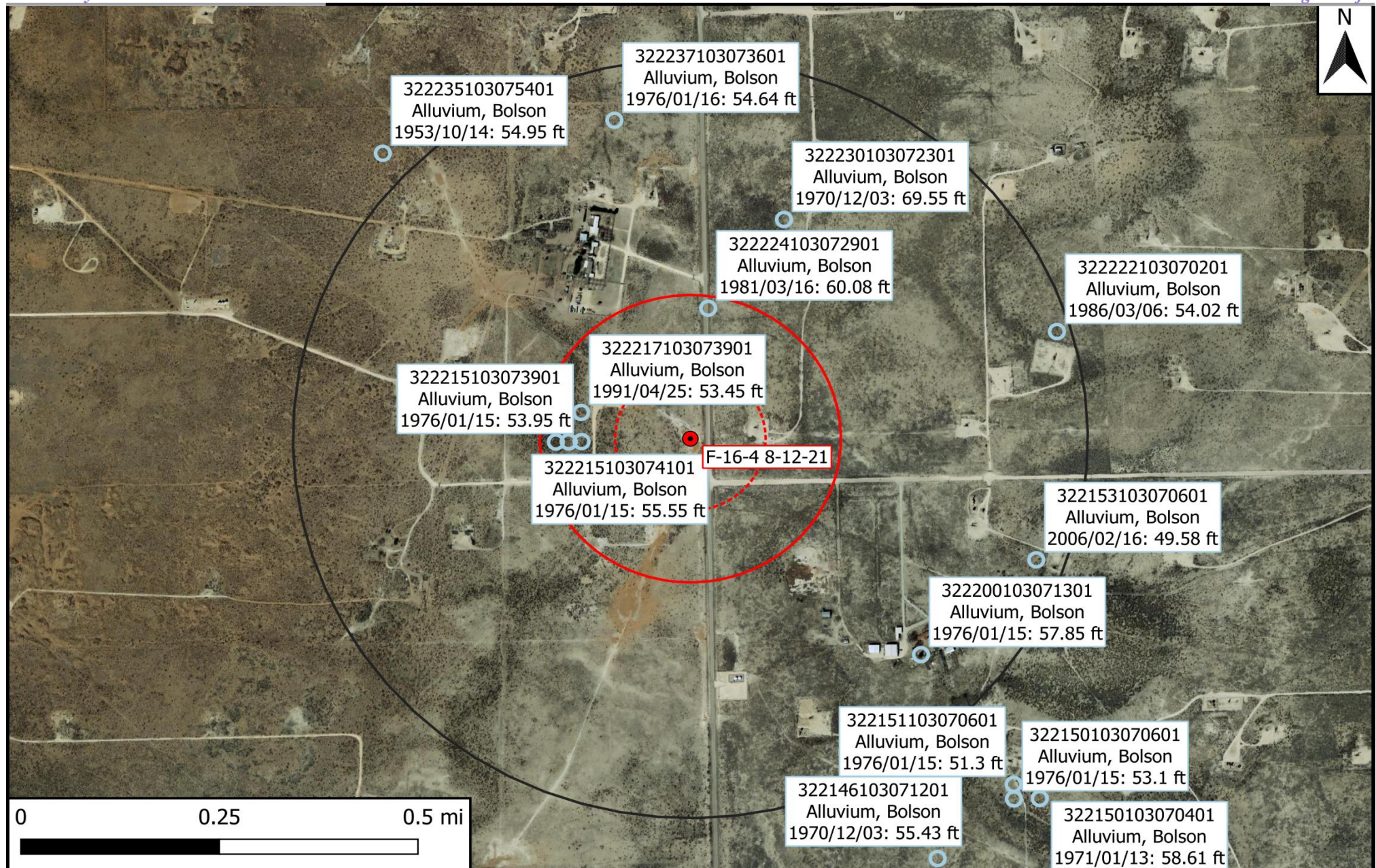
		(quarters are 1=NW 2=NE 3=SW 4=SE)							
		(quarters are smallest to largest)				(NAD83 UTM in meters)			
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tw	Rng	X	Y
	CP 00470	2	1	2	26	22S	37E	675886	3582892*
<hr/>									
Driller License:	46	Driller Company:		ABBOTT BROTHERS COMPANY					
Driller Name:	ABBOTT, MURRELL								
Drill Start Date:	12/03/1968	Drill Finish Date:		12/03/1968		Plug Date:			
Log File Date:	01/10/1969	PCW Rev Date:				Source:		Shallow	
Pump Type:		Pipe Discharge Size:				Estimated Yield:			
Casing Size:	7.00	Depth Well:		99 feet		Depth Water:		65 feet	
<hr/>									
Water Bearing Stratifications:		Top	Bottom	Description					
		65	99	Sandstone/Gravel/Conglomerate					
<hr/>									
Casing Perforations:		Top	Bottom						
		65	99						
<hr/>									

*UTM location was derived from PLSS - see Help

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POINT OF DIVERSION SUMMARY



- Legend
- Site Location
 - Well - USGS
 - ⋯ 500-Ft Radius
 - ⬜ 1,000-Ft Radius
 - ⬜ 0.5-Mi Radius

Figure 5
USGS Well Proximity Map
ETC Texas Pipeline, Ltd.
F-16-4 8-12-21
GPS: 32.370974, -103.1256228
Lea County

ETECH
Environmental & Safety Solutions, Inc.

Drafted: bja

Checked: jwl

Date: 9/13/21



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Data Category:
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Geographic Area:
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Agency code = usgs
site_no list =

- 322153103070601

Minimum number of levels = 1
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USGS 322153103070601 22S.37E.25.12233

Lea County, New Mexico
Latitude 32°22'06.8", Longitude 103°07'05.6" NAD83
Land-surface elevation 3,565.00 feet above NGVD29
The depth of the well is 85 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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Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water- level approval status
1965-10-26			D	72019	49.00			1	Z		A
1968-03-06			D	72019	48.84			1	Z		A
1971-01-13			D	72019	50.45			1	Z		A
1976-01-15			D	72019	48.73			1	Z		A
1981-03-16			D	72019	49.27			1	Z		A
1986-03-06			D	72019	49.78			1	Z		A
1991-04-25			D	72019	48.62			1	Z		A

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water- level approval status
1996-02-14			D	72019	48.43			1	S		A
2001-02-07			D	72019	49.39			1	S	USGS	A
2006-02-17	00:30 UTC		m	72019	49.58			1	S	USGS	A

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

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• 322215103073901

Minimum number of levels = 1

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USGS 322215103073901 22S.37E.23.423421

Lea County, New Mexico

Latitude 32°22'15", Longitude 103°07'39" NAD27

Land-surface elevation 3,321 feet above NAVD88

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

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1970-12-03			D	72019	54.20		1	Z			A
1976-01-15			D	72019	53.95		1	Z			A

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

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• 322215103074001

Minimum number of levels = 1

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USGS 322215103074001 22S.37E.23.423412A

Lea County, New Mexico

Latitude 32°22'15", Longitude 103°07'40" NAD27

Land-surface elevation 3,321 feet above NAVD88

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

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1965-12-19		D	72019	58.79			3	Z			A
1976-01-15		D	72019	56.23			1	Z			A

Explanation		
Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Status	3	True value is above reported value due to local conditions
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

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Agency code = usgs
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- 322215103074101

Minimum number of levels = 1
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USGS 322215103074101 22S.37E.23.42300

Lea County, New Mexico
Latitude 32°22'15", Longitude 103°07'41" NAD27
Land-surface elevation 3,321 feet above NAVD88
The depth of the well is 70 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

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Graph of data

Reselect period

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1953-10-12			D	72019	55.30		1	Z			A
1965-12-19			D	72019	54.83		1	Z			A
1970-12-03			D	72019	55.20		1	Z			A
1976-01-15			D	72019	55.55		1	Z			A

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

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• 322217103073901

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USGS 322217103073901 22S.37E.23.423223

Lea County, New Mexico

Latitude 32°22'17", Longitude 103°07'39" NAD27

Land-surface elevation 3,321 feet above NAVD88

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

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1965-12-19			D	72019	61.21			1	Z		A
1968-03-06			D	72019	53.86			1	Z		A
1976-01-16			D	72019	54.24			1	Z		A
1981-03-16			D	72019	54.29			1	Z		A

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water- level approval status
1986-03-06			D	72019	54.16		1	Z			A
1991-04-25			D	72019	53.45		1	Z			A

Explanation

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

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Agency code = usgs

site_no list =
• 322224103072901

Minimum number of levels = 1

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USGS 322224103072901 22S.37E.24.31111

Lea County, New Mexico

Latitude 32°22'24", Longitude 103°07'29" NAD27

Land-surface elevation 3,321 feet above NAVD88

The depth of the well is 127 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

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Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1955-04-21			D	72019	59.34		1	Z			A
1965-10-26			D	72019	64.31		1	Z			A
1970-12-03			D	72019	65.45		1	Z			A
1981-03-16			D	72019	60.08		1	Z			A

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

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0.32 0.25 nadww01



Appendix B

Soil Profile Log



Soil Profile

Date: 9/21/21

Project: F-16-4 8-12-21
Project Number: 14770 Latitude: 32.370974 Longitude: -103.1256228

Depth (ft. bgs)	Description
1	Imported Fill
2	Brown Topsoil
3	
4	
5	
6	
7	Caliche
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Appendix C

Laboratory Analytical Reports



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

September 13, 2021

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: F - 16 - 4 (8/12/21)

Enclosed are the results of analyses for samples received by the laboratory on 09/07/21 8:50.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/07/2021
 Reported: 09/13/2021
 Project Name: F - 16 - 4 (8/12/21)
 Project Number: 14770
 Project Location: ETC

Sampling Date: 09/03/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: F 1 (H212426-01)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/08/2021	ND	2.04	102	2.00	6.39	
Toluene*	<0.050	0.050	09/08/2021	ND	2.26	113	2.00	6.38	
Ethylbenzene*	<0.050	0.050	09/08/2021	ND	2.19	110	2.00	6.34	
Total Xylenes*	0.209	0.150	09/08/2021	ND	6.60	110	6.00	5.81	
Total BTX	<0.300	0.300	09/08/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	09/08/2021	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	11.4	10.0	09/07/2021	ND	211	106	200	0.351	
DRO >C10-C28*	1510	10.0	09/07/2021	ND	239	119	200	3.00	QM-07
EXT DRO >C28-C36	432	10.0	09/07/2021	ND					

Surrogate: 1-Chlorooctane 105 % 44.3-133

Surrogate: 1-Chlorooctadecane 139 % 38.9-142

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/07/2021
 Reported: 09/13/2021
 Project Name: F - 16 - 4 (8/12/21)
 Project Number: 14770
 Project Location: ETC

Sampling Date: 09/03/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: F 2 (H212426-02)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/08/2021	ND	2.04	102	2.00	6.39	
Toluene*	<0.050	0.050	09/08/2021	ND	2.26	113	2.00	6.38	
Ethylbenzene*	<0.050	0.050	09/08/2021	ND	2.19	110	2.00	6.34	
Total Xylenes*	0.246	0.150	09/08/2021	ND	6.60	110	6.00	5.81	
Total BTEx	<0.300	0.300	09/08/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	09/08/2021	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	17.0	10.0	09/08/2021	ND	211	106	200	0.351	
DRO >C10-C28*	3600	10.0	09/08/2021	ND	239	119	200	3.00	
EXT DRO >C28-C36	1080	10.0	09/08/2021	ND					

Surrogate: 1-Chlorooctane 108 % 44.3-133

Surrogate: 1-Chlorooctadecane 151 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/07/2021
 Reported: 09/13/2021
 Project Name: F - 16 - 4 (8/12/21)
 Project Number: 14770
 Project Location: ETC

Sampling Date: 09/03/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: F 3 (H212426-03)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/07/2021	ND	2.04	102	2.00	6.39	
Toluene*	<0.050	0.050	09/07/2021	ND	2.26	113	2.00	6.38	
Ethylbenzene*	<0.050	0.050	09/07/2021	ND	2.19	110	2.00	6.34	
Total Xylenes*	<0.150	0.150	09/07/2021	ND	6.60	110	6.00	5.81	
Total BTEx	<0.300	0.300	09/07/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/08/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/07/2021	ND	211	106	200	0.351	
DRO >C10-C28*	<10.0	10.0	09/07/2021	ND	239	119	200	3.00	
EXT DRO >C28-C36	<10.0	10.0	09/07/2021	ND					

Surrogate: 1-Chlorooctane 106 % 44.3-133

Surrogate: 1-Chlorooctadecane 106 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/07/2021
 Reported: 09/13/2021
 Project Name: F - 16 - 4 (8/12/21)
 Project Number: 14770
 Project Location: ETC

Sampling Date: 09/03/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: F 4 (H212426-04)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/07/2021	ND	2.04	102	2.00	6.39	
Toluene*	<0.050	0.050	09/07/2021	ND	2.26	113	2.00	6.38	
Ethylbenzene*	<0.050	0.050	09/07/2021	ND	2.19	110	2.00	6.34	
Total Xylenes*	<0.150	0.150	09/07/2021	ND	6.60	110	6.00	5.81	
Total BTX	<0.300	0.300	09/07/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	09/08/2021	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/08/2021	ND	224	112	200	2.58	
DRO >C10-C28*	259	10.0	09/08/2021	ND	222	111	200	1.25	
EXT DRO >C28-C36	52.3	10.0	09/08/2021	ND					

Surrogate: 1-Chlorooctane 103 % 44.3-133

Surrogate: 1-Chlorooctadecane 122 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/07/2021
 Reported: 09/13/2021
 Project Name: F - 16 - 4 (8/12/21)
 Project Number: 14770
 Project Location: ETC

Sampling Date: 09/03/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: F 5 (H212426-05)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/07/2021	ND	2.04	102	2.00	6.39	
Toluene*	<0.050	0.050	09/07/2021	ND	2.26	113	2.00	6.38	
Ethylbenzene*	<0.050	0.050	09/07/2021	ND	2.19	110	2.00	6.34	
Total Xylenes*	<0.150	0.150	09/07/2021	ND	6.60	110	6.00	5.81	
Total BTEx	<0.300	0.300	09/07/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	624	16.0	09/08/2021	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/08/2021	ND	224	112	200	2.58	
DRO >C10-C28*	135	10.0	09/08/2021	ND	222	111	200	1.25	
EXT DRO >C28-C36	29.5	10.0	09/08/2021	ND					

Surrogate: 1-Chlorooctane 105 % 44.3-133

Surrogate: 1-Chlorooctadecane 114 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/07/2021
 Reported: 09/13/2021
 Project Name: F - 16 - 4 (8/12/21)
 Project Number: 14770
 Project Location: ETC

Sampling Date: 09/03/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: F 6 (H212426-06)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/07/2021	ND	2.04	102	2.00	6.39	
Toluene*	<0.050	0.050	09/07/2021	ND	2.26	113	2.00	6.38	
Ethylbenzene*	<0.050	0.050	09/07/2021	ND	2.19	110	2.00	6.34	
Total Xylenes*	<0.150	0.150	09/07/2021	ND	6.60	110	6.00	5.81	
Total BTEx	<0.300	0.300	09/07/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	09/08/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/08/2021	ND	224	112	200	2.58	
DRO >C10-C28*	25.4	10.0	09/08/2021	ND	222	111	200	1.25	
EXT DRO >C28-C36	11.8	10.0	09/08/2021	ND					

Surrogate: 1-Chlorooctane 102 % 44.3-133

Surrogate: 1-Chlorooctadecane 105 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/07/2021
 Reported: 09/13/2021
 Project Name: F - 16 - 4 (8/12/21)
 Project Number: 14770
 Project Location: ETC

Sampling Date: 09/03/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: F 7 (H212426-07)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/07/2021	ND	2.04	102	2.00	6.39	
Toluene*	<0.050	0.050	09/07/2021	ND	2.26	113	2.00	6.38	
Ethylbenzene*	<0.050	0.050	09/07/2021	ND	2.19	110	2.00	6.34	
Total Xylenes*	<0.150	0.150	09/07/2021	ND	6.60	110	6.00	5.81	
Total BTEx	<0.300	0.300	09/07/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/08/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/08/2021	ND	224	112	200	2.58	
DRO >C10-C28*	113	10.0	09/08/2021	ND	222	111	200	1.25	
EXT DRO >C28-C36	35.7	10.0	09/08/2021	ND					

Surrogate: 1-Chlorooctane 124 % 44.3-133

Surrogate: 1-Chlorooctadecane 134 % 38.9-142

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/07/2021
 Reported: 09/13/2021
 Project Name: F - 16 - 4 (8/12/21)
 Project Number: 14770
 Project Location: ETC

Sampling Date: 09/03/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: F 8 (H212426-08)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/07/2021	ND	2.04	102	2.00	6.39	
Toluene*	<0.050	0.050	09/07/2021	ND	2.26	113	2.00	6.38	
Ethylbenzene*	<0.050	0.050	09/07/2021	ND	2.19	110	2.00	6.34	
Total Xylenes*	<0.150	0.150	09/07/2021	ND	6.60	110	6.00	5.81	
Total BTEx	<0.300	0.300	09/07/2021	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	09/08/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/08/2021	ND	224	112	200	2.58	
DRO >C10-C28*	335	10.0	09/08/2021	ND	222	111	200	1.25	
EXT DRO >C28-C36	109	10.0	09/08/2021	ND					

Surrogate: 1-Chlorooctane 98.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 115 % 38.9-142

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/07/2021
 Reported: 09/13/2021
 Project Name: F - 16 - 4 (8/12/21)
 Project Number: 14770
 Project Location: ETC

Sampling Date: 09/03/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: F 9 (H212426-09)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/07/2021	ND	2.04	102	2.00	6.39	
Toluene*	<0.050	0.050	09/07/2021	ND	2.26	113	2.00	6.38	
Ethylbenzene*	<0.050	0.050	09/07/2021	ND	2.19	110	2.00	6.34	
Total Xylenes*	<0.150	0.150	09/07/2021	ND	6.60	110	6.00	5.81	
Total BTEx	<0.300	0.300	09/07/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	09/08/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/08/2021	ND	224	112	200	2.58	
DRO >C10-C28*	323	10.0	09/08/2021	ND	222	111	200	1.25	
EXT DRO >C28-C36	101	10.0	09/08/2021	ND					

Surrogate: 1-Chlorooctane 97.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 111 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/07/2021
 Reported: 09/13/2021
 Project Name: F - 16 - 4 (8/12/21)
 Project Number: 14770
 Project Location: ETC

Sampling Date: 09/03/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: F 10 (H212426-10)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/07/2021	ND	2.04	102	2.00	6.39	
Toluene*	<0.050	0.050	09/07/2021	ND	2.26	113	2.00	6.38	
Ethylbenzene*	<0.050	0.050	09/07/2021	ND	2.19	110	2.00	6.34	
Total Xylenes*	<0.150	0.150	09/07/2021	ND	6.60	110	6.00	5.81	
Total BTX	<0.300	0.300	09/07/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	09/08/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/08/2021	ND	224	112	200	2.58	
DRO >C10-C28*	73.2	10.0	09/08/2021	ND	222	111	200	1.25	
EXT DRO >C28-C36	44.1	10.0	09/08/2021	ND					

Surrogate: 1-Chlorooctane 97.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 103 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 09/07/2021
 Reported: 09/13/2021
 Project Name: F - 16 - 4 (8/12/21)
 Project Number: 14770
 Project Location: ETC

Sampling Date: 09/03/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: F 11 (H212426-11)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/07/2021	ND	2.04	102	2.00	6.39	
Toluene*	<0.050	0.050	09/07/2021	ND	2.26	113	2.00	6.38	
Ethylbenzene*	<0.050	0.050	09/07/2021	ND	2.19	110	2.00	6.34	
Total Xylenes*	<0.150	0.150	09/07/2021	ND	6.60	110	6.00	5.81	
Total BTX	<0.300	0.300	09/07/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	09/08/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/08/2021	ND	224	112	200	2.58	
DRO >C10-C28*	94.6	10.0	09/08/2021	ND	222	111	200	1.25	
EXT DRO >C28-C36	35.1	10.0	09/08/2021	ND					

Surrogate: 1-Chlorooctane 92.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 100 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 09/07/2021
 Reported: 09/13/2021
 Project Name: F - 16 - 4 (8/12/21)
 Project Number: 14770
 Project Location: ETC

Sampling Date: 09/03/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: F 12 (H212426-12)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/07/2021	ND	2.04	102	2.00	6.39	
Toluene*	<0.050	0.050	09/07/2021	ND	2.26	113	2.00	6.38	
Ethylbenzene*	<0.050	0.050	09/07/2021	ND	2.19	110	2.00	6.34	
Total Xylenes*	<0.150	0.150	09/07/2021	ND	6.60	110	6.00	5.81	
Total BTX	<0.300	0.300	09/07/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	09/08/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/08/2021	ND	224	112	200	2.58	
DRO >C10-C28*	28.3	10.0	09/08/2021	ND	222	111	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	09/08/2021	ND					

Surrogate: 1-Chlorooctane 105 % 44.3-133

Surrogate: 1-Chlorooctadecane 109 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 09/07/2021
 Reported: 09/13/2021
 Project Name: F - 16 - 4 (8/12/21)
 Project Number: 14770
 Project Location: ETC

Sampling Date: 09/03/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: F 13 (H212426-13)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/07/2021	ND	2.04	102	2.00	6.39	
Toluene*	<0.050	0.050	09/07/2021	ND	2.26	113	2.00	6.38	
Ethylbenzene*	<0.050	0.050	09/07/2021	ND	2.19	110	2.00	6.34	
Total Xylenes*	<0.150	0.150	09/07/2021	ND	6.60	110	6.00	5.81	
Total BTX	<0.300	0.300	09/07/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/08/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/08/2021	ND	224	112	200	2.58	
DRO >C10-C28*	<10.0	10.0	09/08/2021	ND	222	111	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	09/08/2021	ND					

Surrogate: 1-Chlorooctane 104 % 44.3-133

Surrogate: 1-Chlorooctadecane 106 % 38.9-142

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Analytical Results For:

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

Received: 09/07/2021
 Reported: 09/13/2021
 Project Name: F - 16 - 4 (8/12/21)
 Project Number: 14770
 Project Location: ETC

Sampling Date: 09/03/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: F 14 (H212426-14)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/07/2021	ND	2.04	102	2.00	6.39	
Toluene*	<0.050	0.050	09/07/2021	ND	2.26	113	2.00	6.38	
Ethylbenzene*	<0.050	0.050	09/07/2021	ND	2.19	110	2.00	6.34	
Total Xylenes*	<0.150	0.150	09/07/2021	ND	6.60	110	6.00	5.81	
Total BTX	<0.300	0.300	09/07/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/08/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/08/2021	ND	224	112	200	2.58	
DRO >C10-C28*	<10.0	10.0	09/08/2021	ND	222	111	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	09/08/2021	ND					

Surrogate: 1-Chlorooctane 93.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 95.9 % 38.9-142

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Analytical Results For:

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

Received: 09/07/2021
 Reported: 09/13/2021
 Project Name: F - 16 - 4 (8/12/21)
 Project Number: 14770
 Project Location: ETC

Sampling Date: 09/03/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: F 15 (H212426-15)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/07/2021	ND	2.04	102	2.00	6.39	
Toluene*	<0.050	0.050	09/07/2021	ND	2.26	113	2.00	6.38	
Ethylbenzene*	<0.050	0.050	09/07/2021	ND	2.19	110	2.00	6.34	
Total Xylenes*	<0.150	0.150	09/07/2021	ND	6.60	110	6.00	5.81	
Total BTX	<0.300	0.300	09/07/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/08/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/08/2021	ND	224	112	200	2.58	
DRO >C10-C28*	<10.0	10.0	09/08/2021	ND	222	111	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	09/08/2021	ND					

Surrogate: 1-Chlorooctane 102 % 44.3-133

Surrogate: 1-Chlorooctadecane 104 % 38.9-142

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Analytical Results For:

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

Received: 09/07/2021
 Reported: 09/13/2021
 Project Name: F - 16 - 4 (8/12/21)
 Project Number: 14770
 Project Location: ETC

Sampling Date: 09/03/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: F 16 (H212426-16)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/08/2021	ND	1.83	91.7	2.00	3.60	
Toluene*	<0.050	0.050	09/08/2021	ND	2.03	101	2.00	3.02	
Ethylbenzene*	<0.050	0.050	09/08/2021	ND	2.00	100	2.00	2.75	
Total Xylenes*	<0.150	0.150	09/08/2021	ND	6.07	101	6.00	2.01	
Total BTEx	<0.300	0.300	09/08/2021	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/08/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/08/2021	ND	224	112	200	2.58	
DRO >C10-C28*	<10.0	10.0	09/08/2021	ND	222	111	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	09/08/2021	ND					

Surrogate: 1-Chlorooctane 78.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 80.3 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 09/07/2021
 Reported: 09/13/2021
 Project Name: F - 16 - 4 (8/12/21)
 Project Number: 14770
 Project Location: ETC

Sampling Date: 09/03/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: F 17 (H212426-17)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/07/2021	ND	2.12	106	2.00	0.271	
Toluene*	<0.050	0.050	09/07/2021	ND	2.14	107	2.00	0.989	
Ethylbenzene*	<0.050	0.050	09/07/2021	ND	2.11	106	2.00	0.198	
Total Xylenes*	<0.150	0.150	09/07/2021	ND	6.45	108	6.00	0.369	
Total BTEx	<0.300	0.300	09/07/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/08/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/08/2021	ND	224	112	200	2.58	
DRO >C10-C28*	<10.0	10.0	09/08/2021	ND	222	111	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	09/08/2021	ND					

Surrogate: 1-Chlorooctane 104 % 44.3-133

Surrogate: 1-Chlorooctadecane 107 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/07/2021
 Reported: 09/13/2021
 Project Name: F - 16 - 4 (8/12/21)
 Project Number: 14770
 Project Location: ETC

Sampling Date: 09/03/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: F 18 (H212426-18)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/07/2021	ND	2.12	106	2.00	0.271	
Toluene*	<0.050	0.050	09/07/2021	ND	2.14	107	2.00	0.989	
Ethylbenzene*	<0.050	0.050	09/07/2021	ND	2.11	106	2.00	0.198	
Total Xylenes*	<0.150	0.150	09/07/2021	ND	6.45	108	6.00	0.369	
Total BTEx	<0.300	0.300	09/07/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/08/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/08/2021	ND	224	112	200	2.58	
DRO >C10-C28*	<10.0	10.0	09/08/2021	ND	222	111	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	09/08/2021	ND					

Surrogate: 1-Chlorooctane 106 % 44.3-133

Surrogate: 1-Chlorooctadecane 108 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 09/07/2021
 Reported: 09/13/2021
 Project Name: F - 16 - 4 (8/12/21)
 Project Number: 14770
 Project Location: ETC

Sampling Date: 09/03/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: F 19 (H212426-19)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/08/2021	ND	1.83	91.7	2.00	3.60	
Toluene*	<0.050	0.050	09/08/2021	ND	2.03	101	2.00	3.02	
Ethylbenzene*	<0.050	0.050	09/08/2021	ND	2.00	100	2.00	2.75	
Total Xylenes*	<0.150	0.150	09/08/2021	ND	6.07	101	6.00	2.01	
Total BTEX	<0.300	0.300	09/08/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/08/2021	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/08/2021	ND	224	112	200	2.58	
DRO >C10-C28*	<10.0	10.0	09/08/2021	ND	222	111	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	09/08/2021	ND					

Surrogate: 1-Chlorooctane 103 % 44.3-133

Surrogate: 1-Chlorooctadecane 106 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/07/2021
 Reported: 09/13/2021
 Project Name: F - 16 - 4 (8/12/21)
 Project Number: 14770
 Project Location: ETC

Sampling Date: 09/03/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: F 20 (H212426-20)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/08/2021	ND	1.83	91.7	2.00	3.60	
Toluene*	<0.050	0.050	09/08/2021	ND	2.03	101	2.00	3.02	
Ethylbenzene*	<0.050	0.050	09/08/2021	ND	2.00	100	2.00	2.75	
Total Xylenes*	<0.150	0.150	09/08/2021	ND	6.07	101	6.00	2.01	
Total BTX	<0.300	0.300	09/08/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/08/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/08/2021	ND	224	112	200	2.58	
DRO >C10-C28*	<10.0	10.0	09/08/2021	ND	222	111	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	09/08/2021	ND					

Surrogate: 1-Chlorooctane 103 % 44.3-133

Surrogate: 1-Chlorooctadecane 104 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 09/07/2021
 Reported: 09/13/2021
 Project Name: F - 16 - 4 (8/12/21)
 Project Number: 14770
 Project Location: ETC

Sampling Date: 09/03/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: F 21 (H212426-21)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/08/2021	ND	1.83	91.7	2.00	3.60	
Toluene*	<0.050	0.050	09/08/2021	ND	2.03	101	2.00	3.02	
Ethylbenzene*	<0.050	0.050	09/08/2021	ND	2.00	100	2.00	2.75	
Total Xylenes*	<0.150	0.150	09/08/2021	ND	6.07	101	6.00	2.01	
Total BTX	<0.300	0.300	09/08/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/08/2021	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/08/2021	ND	224	112	200	2.58	
DRO >C10-C28*	<10.0	10.0	09/08/2021	ND	222	111	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	09/08/2021	ND					

Surrogate: 1-Chlorooctane 98.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 101 % 38.9-142

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Analytical Results For:

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

Received: 09/07/2021
 Reported: 09/13/2021
 Project Name: F - 16 - 4 (8/12/21)
 Project Number: 14770
 Project Location: ETC

Sampling Date: 09/03/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NWW 1 (H212426-22)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/08/2021	ND	1.83	91.7	2.00	3.60	
Toluene*	<0.050	0.050	09/08/2021	ND	2.03	101	2.00	3.02	
Ethylbenzene*	<0.050	0.050	09/08/2021	ND	2.00	100	2.00	2.75	
Total Xylenes*	<0.150	0.150	09/08/2021	ND	6.07	101	6.00	2.01	
Total BTEx	<0.300	0.300	09/08/2021	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	09/08/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/08/2021	ND	224	112	200	2.58	
DRO >C10-C28*	128	10.0	09/08/2021	ND	222	111	200	1.25	
EXT DRO >C28-C36	27.9	10.0	09/08/2021	ND					

Surrogate: 1-Chlorooctane 102 % 44.3-133

Surrogate: 1-Chlorooctadecane 108 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/07/2021
 Reported: 09/13/2021
 Project Name: F - 16 - 4 (8/12/21)
 Project Number: 14770
 Project Location: ETC

Sampling Date: 09/03/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NWW 2 (H212426-23)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/08/2021	ND	1.83	91.7	2.00	3.60	
Toluene*	<0.050	0.050	09/08/2021	ND	2.03	101	2.00	3.02	
Ethylbenzene*	<0.050	0.050	09/08/2021	ND	2.00	100	2.00	2.75	
Total Xylenes*	<0.150	0.150	09/08/2021	ND	6.07	101	6.00	2.01	
Total BTEx	<0.300	0.300	09/08/2021	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	09/08/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/08/2021	ND	224	112	200	2.58	
DRO >C10-C28*	57.6	10.0	09/08/2021	ND	222	111	200	1.25	
EXT DRO >C28-C36	37.1	10.0	09/08/2021	ND					

Surrogate: 1-Chlorooctane 102 % 44.3-133

Surrogate: 1-Chlorooctadecane 109 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 09/07/2021
 Reported: 09/13/2021
 Project Name: F - 16 - 4 (8/12/21)
 Project Number: 14770
 Project Location: ETC

Sampling Date: 09/03/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NWW 3 (H212426-24)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/08/2021	ND	1.83	91.7	2.00	3.60	
Toluene*	<0.050	0.050	09/08/2021	ND	2.03	101	2.00	3.02	
Ethylbenzene*	<0.050	0.050	09/08/2021	ND	2.00	100	2.00	2.75	
Total Xylenes*	<0.150	0.150	09/08/2021	ND	6.07	101	6.00	2.01	
Total BTEx	<0.300	0.300	09/08/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/08/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/08/2021	ND	202	101	200	0.482	
DRO >C10-C28*	<10.0	10.0	09/08/2021	ND	220	110	200	2.28	
EXT DRO >C28-C36	<10.0	10.0	09/08/2021	ND					

Surrogate: 1-Chlorooctane 102 % 44.3-133

Surrogate: 1-Chlorooctadecane 95.8 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 09/07/2021
 Reported: 09/13/2021
 Project Name: F - 16 - 4 (8/12/21)
 Project Number: 14770
 Project Location: ETC

Sampling Date: 09/03/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NW 1 (H212426-25)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/08/2021	ND	1.83	91.7	2.00	3.60	
Toluene*	<0.050	0.050	09/08/2021	ND	2.03	101	2.00	3.02	
Ethylbenzene*	<0.050	0.050	09/08/2021	ND	2.00	100	2.00	2.75	
Total Xylenes*	<0.150	0.150	09/08/2021	ND	6.07	101	6.00	2.01	
Total BTEx	<0.300	0.300	09/08/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/08/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/08/2021	ND	202	101	200	0.482	
DRO >C10-C28*	<10.0	10.0	09/08/2021	ND	220	110	200	2.28	
EXT DRO >C28-C36	<10.0	10.0	09/08/2021	ND					

Surrogate: 1-Chlorooctane 108 % 44.3-133

Surrogate: 1-Chlorooctadecane 99.8 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 09/07/2021
 Reported: 09/13/2021
 Project Name: F - 16 - 4 (8/12/21)
 Project Number: 14770
 Project Location: ETC

Sampling Date: 09/03/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW 1 (H212426-26)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/08/2021	ND	1.83	91.7	2.00	3.60	
Toluene*	<0.050	0.050	09/08/2021	ND	2.03	101	2.00	3.02	
Ethylbenzene*	<0.050	0.050	09/08/2021	ND	2.00	100	2.00	2.75	
Total Xylenes*	<0.150	0.150	09/08/2021	ND	6.07	101	6.00	2.01	
Total BTEx	<0.300	0.300	09/08/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/08/2021	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/08/2021	ND	202	101	200	0.482	
DRO >C10-C28*	<10.0	10.0	09/08/2021	ND	220	110	200	2.28	
EXT DRO >C28-C36	<10.0	10.0	09/08/2021	ND					

Surrogate: 1-Chlorooctane 107 % 44.3-133

Surrogate: 1-Chlorooctadecane 98.1 % 38.9-142

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/07/2021
 Reported: 09/13/2021
 Project Name: F - 16 - 4 (8/12/21)
 Project Number: 14770
 Project Location: ETC

Sampling Date: 09/03/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: EW 1 (H212426-27)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/08/2021	ND	1.83	91.7	2.00	3.60	
Toluene*	<0.050	0.050	09/08/2021	ND	2.03	101	2.00	3.02	
Ethylbenzene*	<0.050	0.050	09/08/2021	ND	2.00	100	2.00	2.75	
Total Xylenes*	<0.150	0.150	09/08/2021	ND	6.07	101	6.00	2.01	
Total BTX	<0.300	0.300	09/08/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	09/08/2021	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/08/2021	ND	202	101	200	0.482	
DRO >C10-C28*	<10.0	10.0	09/08/2021	ND	220	110	200	2.28	
EXT DRO >C28-C36	<10.0	10.0	09/08/2021	ND					

Surrogate: 1-Chlorooctane 107 % 44.3-133

Surrogate: 1-Chlorooctadecane 97.7 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/07/2021
 Reported: 09/13/2021
 Project Name: F - 16 - 4 (8/12/21)
 Project Number: 14770
 Project Location: ETC

Sampling Date: 09/03/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SEW 1 (H212426-28)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/08/2021	ND	1.83	91.7	2.00	3.60	
Toluene*	<0.050	0.050	09/08/2021	ND	2.03	101	2.00	3.02	
Ethylbenzene*	<0.050	0.050	09/08/2021	ND	2.00	100	2.00	2.75	
Total Xylenes*	<0.150	0.150	09/08/2021	ND	6.07	101	6.00	2.01	
Total BTEx	<0.300	0.300	09/08/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/08/2021	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/08/2021	ND	202	101	200	0.482	
DRO >C10-C28*	<10.0	10.0	09/08/2021	ND	220	110	200	2.28	
EXT DRO >C28-C36	<10.0	10.0	09/08/2021	ND					

Surrogate: 1-Chlorooctane 100 % 44.3-133

Surrogate: 1-Chlorooctadecane 92.2 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager

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

Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 31 of 33

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST											
Project Manager: Kathy Purvis				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>											
Address: P.O. Box 301 2617 W. Marland				Company: ETC															
City: Lovington Hobbs State: NM Zip: 88240				Attn: Dean Erickson															
Phone #: (575) 396-2378 Fax #: (575) 396-1429				Address:															
Project #: 14770 Project Owner:				City:															
Project Name: F-16-4 8-12-21				State: Zip:															
Project Location:				Phone #:															
Sampler Name: Joel Lowry				Fax #:															

FOR LAB USE ONLY		Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.		SAMPLING		DATE	TIME	Chloride	TPH (8015M)	BTEX (8021B)
						GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER					
1	F1			C	1			✓				✓		9/3/21		X	X	X	
2	F2							✓				✓							
3	F3							✓				✓							
4	F4							✓				✓							
5	F5							✓				✓							
6	F6							✓				✓							
7	F7							✓				✓							
8	F8							✓				✓							
9	F9							✓				✓							
10	F10							✓				✓							

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Relinquished By: Joel Lowry Date: 9/3/21 Time:	Received By: [Signature] Date: 9-7-21 Time: 0850	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No REMARKS:	Add'l Phone #: Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other: -7.9c #113		Sample Condition: Cool <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Delivered By: (Circle One) Sampler - UPS - Bus - Other: -7.9c #113		CHECKED BY: (Initials) [Signature]	

Please email results to pm@etechenv.com.

 FORM-006
 Revision 1.0

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2 of

Page 32 of 33

Company Name: Etech Environmental & Safety Solutions, Inc.		BILL TO		ANALYSIS REQUEST	
Project Manager: Kathy Purvis		P.O. #:			
Address: P.O. Box 907 2417 W. Marland		Company: ETC			
City: Lovington Hobbs State: NM Zip: 88240		Attn: Brian Ericson			
Phone #: (575) 396-2378 Fax #: (575) 396-1429		Address:			
Project #: 14770 Project Owner:		City:			
Project Name: F-16-4 8-12-21		State: Zip:			
Project Location:		Phone #:			
Sampler Name: Joel Lowry		Fax #:			

FOR LAB USE ONLY	Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRESERV.	SAMPLING	DATE	TIME	Chloride	TPH (801EM)	BTX (8021B)
	H212426																
	11	F11	C	1			✓				✓		9/3/21		X	X	X
	12	F12					✓				✓						
	13	F13					✓				✓						
	14	F14					✓				✓						
	15	F15					✓				✓						
	16	F16					✓				✓						
	17	F17					✓				✓						
	18	F18					✓				✓						
	19	F19					✓				✓						
	20	F20					✓				✓						

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Relinquished By: Joel Lowry	Date: 9/3/21	Received By: [Signature]	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By: [Signature]	Date: 9-7-21	Received By: [Signature]	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One)	Time: 0850	Sample Condition: Cool <input checked="" type="checkbox"/> Direct <input type="checkbox"/>	REMARKS:	
Sampler - UPS - Bus - Other:	-7.9°C #113	Checked By: [Signature]	Please email results to pm@etechenv.com.	

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Revision 1.0

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

3 of 3

Page 33 of 33

Company Name: Etech Environmental & Safety Solutions, Inc.		BILL TO		ANALYSIS REQUEST																							
Project Manager: Kathy Purvis		P.O. #:		<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																							
Address: P.O. Box 501 2617 W. Marland		Company: ETC																									
City: Lovington Hobbs State: NM Zip: 88240		Attn: Dean Erickson																									
Phone #: (575) 396-2378 Fax #: (575) 396-1429		Address:																									
Project #: 14770 Project Owner:		City:																									
Project Name: F-16-4 8-12-21		State: Zip:																									
Project Location:		Phone #:																									
Sampler Name: Joel Lowry		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													
H212426													9/3/21		X	X	X										
21	F21	C	1			✓					✓																
22	NWW1					✓					✓																
23	NWW2					✓					✓																
24	NWW3					✓					✓																
25	NW1					✓					✓																
26	SW1					✓					✓																
27	EW1					✓					✓																
28	SEW1					✓					✓																
<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. No 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. As no intent shall Cardinal be liable for accidental 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 releases or otherwise.</p>																											
Relinquished By: Joel Lowry		Date: 9/3/21		Received By: [Signature]		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:		Add'l Fax #:		REMARKS:													
Relinquished By: [Signature]		Date: 9-7-21		Received By: [Signature]		Time: 0850																					
Delivered By: (Circle One)																											
Sampler - UPS - Bus - Other:		-7.9c #113		Sample Condition		Cool - intact		CHECKED BY: (Initials)		T.O.																	

FORM-006
Revision 1.0

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

September 24, 2021

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: F - 16 - 4 (8/12/21)

Enclosed are the results of analyses for samples received by the laboratory on 09/22/21 14:55.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/22/2021
 Reported: 09/24/2021
 Project Name: F - 16 - 4 (8/12/21)
 Project Number: 14770
 Project Location: ETC - LEA CO., NM

Sampling Date: 09/21/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: V 1 @ 3' (H212636-01)

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/23/2021	ND	211	105	200	14.7	
DRO >C10-C28*	223	10.0	09/23/2021	ND	204	102	200	14.6	
EXT DRO >C28-C36	45.3	10.0	09/23/2021	ND					
<hr/>									
Surrogate: 1-Chlorooctane	88.8 %	44.3-133							
Surrogate: 1-Chlorooctadecane	93.0 %	38.9-142							

Sample ID: V 2 @ 1.5' (H212636-04)

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/23/2021	ND	211	105	200	14.7	
DRO >C10-C28*	<10.0	10.0	09/23/2021	ND	204	102	200	14.6	
EXT DRO >C28-C36	<10.0	10.0	09/23/2021	ND					
<hr/>									
Surrogate: 1-Chlorooctane	82.8 %	44.3-133							
Surrogate: 1-Chlorooctadecane	82.2 %	38.9-142							

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

QR-04	The RPD for the BS/BSD was outside of historical limits.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager

**ARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

October 20, 2021

DEAN ERICSON

ENERGY TRANSFER

P. O. BOX 1226

JAL, NM 88252

RE: F-16-4 BLOW DOWN

Enclosed are the results of analyses for samples received by the laboratory on 10/15/21 15:25.

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, with the first name "Mike" and last name "Snyder" clearly distinguishable.

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENERGY TRANSFER
DEAN ERICSON
P. O. BOX 1226
JAL NM, 88252
Fax To:

Received: 10/15/2021
Reported: 10/20/2021
Project Name: F-16-4 BLOW DOWN
Project Number: 32.3710363-103.1256322
Project Location: NEW MEXICO

Sampling Date: 10/14/2021
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: F2B 3' (H212910-01)

TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/18/2021	ND	226	113	200	4.47	
DRO >C10-C28*	39.7	10.0	10/18/2021	ND	221	111	200	4.29	
EXT DRO >C28-C36	<10.0	10.0	10/18/2021	ND					
Surrogate: 1-Chlorooctane	86.9 %	44.3-133							
Surrogate: 1-Chlorooctadecane	84.4 %	38.9-142							

Sample ID: V1B 6' (H212910-02)

TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/18/2021	ND	226	113	200	4.47	
DRO >C10-C28*	<10.0	10.0	10/18/2021	ND	221	111	200	4.29	
EXT DRO >C28-C36	<10.0	10.0	10/18/2021	ND					
Surrogate: 1-Chlorooctane	84.1 %	44.3-133							
Surrogate: 1-Chlorooctadecane	81.1 %	38.9-142							

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



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

Analytical Results For:

ENERGY TRANSFER
 DEAN ERICSON
 P. O. BOX 1226
 JAL NM, 88252
 Fax To:

Received: 10/15/2021
 Reported: 10/20/2021
 Project Name: F-16-4 BLOW DOWN
 Project Number: 32.3710363-103.1256322
 Project Location: NEW MEXICO

Sampling Date: 10/14/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: F1B 4' (H212910-03)

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/18/2021	ND	193	96.5	200	0.105	
DRO >C10-C28*	<10.0	10.0	10/18/2021	ND	217	109	200	0.149	
EXT DRO >C28-C36	<10.0	10.0	10/18/2021	ND					
Surrogate: 1-Chlorooctane	84.2 %	44.3-133							
Surrogate: 1-Chlorooctadecane	75.5 %	38.9-142							

Sample ID: F5B 3' (H212910-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	800	16.0	10/18/2021	ND	400	100	400	3.92	
TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/18/2021	ND	193	96.5	200	0.105	
DRO >C10-C28*	<10.0	10.0	10/18/2021	ND	217	109	200	0.149	
EXT DRO >C28-C36	<10.0	10.0	10/18/2021	ND					
Surrogate: 1-Chlorooctane	75.9 %	44.3-133							
Surrogate: 1-Chlorooctadecane	66.1 %	38.9-142							

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



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Analytical Results For:

ENERGY TRANSFER
 DEAN ERICSON
 P. O. BOX 1226
 JAL NM, 88252
 Fax To:

Received: 10/15/2021
 Reported: 10/20/2021
 Project Name: F-16-4 BLOW DOWN
 Project Number: 32.3710363-103.1256322
 Project Location: NEW MEXICO

Sampling Date: 10/14/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: F4B 3' (H212910-05)

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/18/2021	ND	193	96.5	200	0.105	
DRO >C10-C28*	<10.0	10.0	10/18/2021	ND	217	109	200	0.149	
EXT DRO >C28-C36	<10.0	10.0	10/18/2021	ND					
Surrogate: 1-Chlorooctane	85.7 %	44.3-133							
Surrogate: 1-Chlorooctadecane	76.4 %	38.9-142							

Sample ID: F7B 2.5' (H212910-06)

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/18/2021	ND	193	96.5	200	0.105	
DRO >C10-C28*	<10.0	10.0	10/18/2021	ND	217	109	200	0.149	
EXT DRO >C28-C36	<10.0	10.0	10/18/2021	ND					
Surrogate: 1-Chlorooctane	83.4 %	44.3-133							
Surrogate: 1-Chlorooctadecane	73.9 %	38.9-142							

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



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Analytical Results For:

ENERGY TRANSFER
 DEAN ERICSON
 P. O. BOX 1226
 JAL NM, 88252
 Fax To:

Received: 10/15/2021
 Reported: 10/20/2021
 Project Name: F-16-4 BLOW DOWN
 Project Number: 32.3710363-103.1256322
 Project Location: NEW MEXICO

Sampling Date: 10/14/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: F8B 3' (H212910-07)

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/18/2021	ND	193	96.5	200	0.105	
DRO >C10-C28*	<10.0	10.0	10/18/2021	ND	217	109	200	0.149	
EXT DRO >C28-C36	<10.0	10.0	10/18/2021	ND					
Surrogate: 1-Chlorooctane	77.8 %	44.3-133							
Surrogate: 1-Chlorooctadecane	70.6 %	38.9-142							

Sample ID: F9B 3' (H212910-08)

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/18/2021	ND	193	96.5	200	0.105	
DRO >C10-C28*	<10.0	10.0	10/18/2021	ND	217	109	200	0.149	
EXT DRO >C28-C36	<10.0	10.0	10/18/2021	ND					
Surrogate: 1-Chlorooctane	76.2 %	44.3-133							
Surrogate: 1-Chlorooctadecane	67.3 %	38.9-142							

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



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Analytical Results For:

ENERGY TRANSFER
 DEAN ERICSON
 P. O. BOX 1226
 JAL NM, 88252
 Fax To:

Received: 10/15/2021
 Reported: 10/20/2021
 Project Name: F-16-4 BLOW DOWN
 Project Number: 32.3710363-103.1256322
 Project Location: NEW MEXICO

Sampling Date: 10/14/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: F10B 3' (H212910-09)

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/18/2021	ND	193	96.5	200	0.105	
DRO >C10-C28*	<10.0	10.0	10/18/2021	ND	217	109	200	0.149	
EXT DRO >C28-C36	<10.0	10.0	10/18/2021	ND					
Surrogate: 1-Chlorooctane	79.9 %	44.3-133							
Surrogate: 1-Chlorooctadecane	72.0 %	38.9-142							

Sample ID: F11B 3' (H212910-10)

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/18/2021	ND	193	96.5	200	0.105	
DRO >C10-C28*	<10.0	10.0	10/18/2021	ND	217	109	200	0.149	
EXT DRO >C28-C36	<10.0	10.0	10/18/2021	ND					
Surrogate: 1-Chlorooctane	66.3 %	44.3-133							
Surrogate: 1-Chlorooctadecane	59.2 %	38.9-142							

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Analytical Results For:

ENERGY TRANSFER
 DEAN ERICSON
 P. O. BOX 1226
 JAL NM, 88252
 Fax To:

Received: 10/15/2021
 Reported: 10/20/2021
 Project Name: F-16-4 BLOW DOWN
 Project Number: 32.3710363-103.1256322
 Project Location: NEW MEXICO

Sampling Date: 10/14/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NWW1 B 1' (H212910-11)

TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/18/2021	ND	210	105	200	3.83	
DRO >C10-C28*	<10.0	10.0	10/18/2021	ND	208	104	200	2.99	
EXT DRO >C28-C36	<10.0	10.0	10/18/2021	ND					
Surrogate: 1-Chlorooctane	85.4 %	44.3-133							
Surrogate: 1-Chlorooctadecane	82.5 %	38.9-142							

Sample ID: NWW2 B 2' (H212910-12)

TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/18/2021	ND	210	105	200	3.83	
DRO >C10-C28*	10.3	10.0	10/18/2021	ND	208	104	200	2.99	
EXT DRO >C28-C36	18.8	10.0	10/18/2021	ND					
Surrogate: 1-Chlorooctane	71.2 %	44.3-133							
Surrogate: 1-Chlorooctadecane	67.8 %	38.9-142							

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



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Notes and Definitions

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

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A handwritten signature in black ink, appearing to read "Mike Snyder", is written over a horizontal line.

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: ETC		BILL TO		ANALYSIS REQUEST																				
Project Manager: JOEL LOWRY		P.O. #:																						
Address:		Company:																						
City: State: Zip:		Attn:																						
Phone #: Fax #:		Address:																						
Project #: Project Owner:		City:																						
Project Name: F-16-4 BLOW DOWN		State: Zip:																						
Project Location: 32-3710363, -103-1256322		Phone #:																						
Sampler Name: JODY WALTERS		Fax #:																						
FOR LAB USE ONLY																								
Lab I.D.	Sample I.D.	(GRAB OR C)OMP.	# CONTAINERS	MATRIX				PRESERV.	SAMPLING		TPH EXT CL													
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:											ICE / COOL	OTHER:	DATE	TIME
H212910																								
1	F2B 3'																						10-14-21	1:08
2	V1B 6'																							1:14
3	F1B 4'																							1:25
4	F5B 3'																							1:33
5	F4B 3'																							1:40
6	F7B 2 1/2'																							1:48
7	F8B 3'																							1:57
8	F9B 3'																							2:02
9	F10B 3'																							2:11
10	F11B 3'													2:19										
<p>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</p>																								
Relinquished By:		Date: 10-15-21		Received By:		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:		REMARKS:														
Relinquished By:		Time: 1525		Received By:		All Results are emailed. Please provide Email address:																		
Delivered By: (Circle One)		Observed Temp. °C 2.0		Sample Condition		CHECKED BY: (Initials)		Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>		Bacteria (only) Sample Condition														
Sampler - UPS - Bus - Other:		Corrected Temp. °C 1.5		Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				Thermometer ID #113		Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Observed Temp. °C												
								Correction Factor: None - 0.52		Corrected Temp. °C														

FORM-006 R 3.1 06/04/20

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: ETC		BILL TO		ANALYSIS REQUEST																				
Project Manager: JOEL LOWRY		P.O. #:																						
Address:		Company:																						
City: State: Zip:		Attn:																						
Phone #: Fax #:		Address:																						
Project #: Project Owner:		City:																						
Project Name: F-16-4 BLOW DOWN		State: Zip:																						
Project Location: 32.3710363, -103.1256322		Phone #:																						
Sampler Name: JODY WALTERS		Fax #:																						
FOR LAB USE ONLY																								
Lab I.D.	Sample I.D.	(GRAB OR (C)OMP.	# CONTAINERS	MATRIX				PRESERV.	SAMPLING		TPH EXT													
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE											ICE / COOL	OTHER:	DATE	TIME
H212910	NWW1 B 1'	1	1			1				1													10-14-21	2:26
11/12	NWW2 B 2'																						1	2:29

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Relinquished By:	Date: 10-15-21	Received By:	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
Relinquished By:	Time: 1525	Received By:	All Results are emailed. Please provide Email address:
	Date:		REMARKS:
	Time:		
Delivered By: (Circle One)	Observed Temp. °C 20	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>
Sampler - UPS - Bus - Other:	Corrected Temp. °C 1.5	CHECKED BY: (Initials) TO	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C
			<input type="checkbox"/> Yes <input type="checkbox"/> No
			Thermometer ID #113 Correction Factor None -0.5
			<input type="checkbox"/> No <input type="checkbox"/> No Corrected Temp. °C

FORM-000 R 5.1 06/04/20

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

October 25, 2021

JOEL LOWRY

ENERGY TRANSFER

P. O. BOX 1226

JAL, NM 88252

RE: F-16-4 BLOW DOWN

Enclosed are the results of analyses for samples received by the laboratory on 10/25/21 13:25.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENERGY TRANSFER
 JOEL LOWRY
 P. O. BOX 1226
 JAL NM, 88252
 Fax To:

Received: 10/25/2021
 Reported: 10/25/2021
 Project Name: F-16-4 BLOW DOWN
 Project Number: 32.3710363-103.1256322
 Project Location: NEW MEXICO

Sampling Date: 10/25/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: F5C 4' (H212994-01)**Chloride, SM4500Cl-B****mg/kg****Analyzed By: GM**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	10/25/2021	ND	400	100	400	3.92	

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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

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*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager


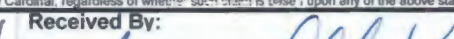


101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: ETC				BILL TO				ANALYSIS REQUEST											
Project Manager: JOEL LOWRY				P.O. #:															
Address:				Company:															
City: State: Zip:				Attn:															
Phone #: Fax #:				Address:															
Project #: Project Owner:				City:															
Project Name: F16-4 BLOW DOWN				State: Zip:															
Project Location: 32.3710363, -103.1256322				Phone #:															
Sampler Name: JODY WALTERS				Fax #:															
FOR LAB USE ONLY																			
Lab I.D.		Sample I.D.		(GRAB OR C)OMP.		# CONTAINERS		MATRIX		PRESERV.		SAMPLING		CL					
								GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:		ACID/BASE: ICE / COOL OTHER:		DATE TIME							
H212994		FSC 4		1		1						10-25-21 12:13		1					

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Relinquished By:  Relinquished By: _____		Date: 10/25/21 Time: 1325 Received By:  Received By: _____		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #: _____ All Results are emailed. Please provide Email address: _____	
Delivered By: (Circle One) Sampler - UPS - Bus - Other: _____		Observed Temp. °C 27.4 Corrected Temp. °C 26.9		REMARKS: <i>Rush added 10/25/21 @ 1355 T.O.</i>	
		Sample Condition Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>		CHECKED BY: (Initials) T.O.	
		Turnaround Time: Standard Rush		<input checked="" type="checkbox"/> Bacteria (only) Sample Condition <input checked="" type="checkbox"/> Cool <input type="checkbox"/> Intact Observed Temp. °C <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No Corrected Temp. °C	
		Thermometer ID #113 Correction Factor None 0.52			

FORM-006-R S.1 06/04/20

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

Appendix D

Photographic Log

Photographic Log



Photo Number: 1	
Photo Direction: East	
Date: 8/12/2021	
Coordinates: 32.370974,-103.1256228	
Photo Description: View of the affected area.	

Photo Number: 2	
Photo Direction: Northeast	
Date: 8/13/2021	
Coordinates: 32.370933,-103.125641	
Photo Description: View of the affected area.	

Photographic Log



Photo Number: 3	
Photo Direction: North-Northeast	
Date: 8/13/2021	
Coordinates: 32.371099,-103.125556	
Photo Description: View of the affected area.	

Photo Number: 4	
Photo Direction: Northwest	
Date: 8/13/2021	
Coordinates: 32.371008,-103.125513	
Photo Description: View of the affected area.	

Photographic Log



Photo Number: 5	
Photo Direction: Northwest	
Date: 10/25/2021	
Coordinates: 32.371027,-103.125535	
Photo Description: View of the excavated area.	

Photo Number: 6	
Photo Direction: Northwest	
Date: 10/25/2021	
Coordinates: 32.371027,-103.125535	
Photo Description: View of the excavated area.	

Photographic Log



Photo Number: 7	
Photo Direction: North-Northwest	
Date: 10/25/2021	
Coordinates: 32.371027,-103.125535	
Photo Description: View of the excavated area.	

Photo Number: 8	
Photo Direction: North-Northeast	
Date: 10/25/2021	
Coordinates: 32.371002,-103.125504	
Photo Description: View of the excavated area.	

Photographic Log



Photo Number: 9	
Photo Direction: North	
Date: 11/15/2021	
Coordinates: 32.370974,-103.1256228	
Photo Description: View of the remediated area following backfill and regrading.	

Photo Number: 10	
Photo Direction: North-Northwest	
Date: 11/15/2021	
Coordinates: 32.370954,-103.125674	
Photo Description: View of the remediated area following backfill and regrading.	

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 64671

CONDITIONS

Operator: ETC Texas Pipeline, Ltd. 8111 Westchester Drive Dallas, TX 75225	OGRID: 371183
	Action Number: 64671
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
chensley	None	12/28/2021