Form C-141
Page 3

State of New Mexico
Oil Conservation Division

Incident ID	NRM2006247168
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?	90 Ft. (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☑ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☑ 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)?	☐ Yes ☑ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☑ 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?	☐ Yes ☑ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☑ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☑ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☑ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☑ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☑ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☑ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☐ Yes ☑ No

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

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

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

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

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Page 4

State of New Mexico
Oil Conservation Division

Incident ID	NRM2006247168
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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: Dean D. Ericson Title: Sr. Environmental Specialist

Signature: Dean D. Ericson Date: 4/30/2020

email: Dean.Ericson@energytransfer.com Telephone: (817) 302-9573

OCD Only

Received by: Cristina Eads Date: 05/04/2020

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Page 6

State of New Mexico
Oil Conservation Division

Incident ID	NRM2006247168
District RP	
Facility ID	
Application ID	

Closure

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

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

☑ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☑ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☑ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☑ Description of remediation activities

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

Printed Name: Dean D. Ericson Title: Sr. Environmental Specialist

Signature: Dean D Ericson III Date: 4/30/2020

email: Dean.Ericson@energytransfer.com Telephone: (817) 302-9573

OCD Only

Received by: Cristina Eads Date: 05/04/2020

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: Cristina Eads Date: 07/06/2020

Printed Name: Cristina Eads Title: Environmental Specialist

Remediation Summary and Soil Closure Request

ETC Texas Pipeline, Ltd.
F-16 Pipeline (2-18-2020)
Lea County, New Mexico
Unit Letter D, Section 6, Township 22 South, Range 37 East
Latitude 32.426647 North, Longitude 103.207744 West
NMOCD Reference No. 1RP-pending

Prepared By:

Etech Environmental & Safety Solutions, Inc.
3100 Plains Highway
Lovington, New Mexico 88260

Joel Lowry

Daniel Dominguez

TABLE OF CONTENTS

1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of ETC Texas Pipeline, Ltd., has prepared this Remediation Summary and Soil Closure Request for the Release Site known as the F-16 Pipeline (2-18-2020). Details of the release are summarized below:

Location of Release Source

Latitude: 32.426647 Longitude: -103.207744

Provided GPS are in WGS84 format.

Site Name:	F-16 Pipeline (2-18-2020)	Site Type:	Pipeline
Date Release Discovered:	2/18/2020	API # (if applicable):	N/A

Unit Letter	Section	Township	Range	County
D	6	22S	37E	Lea

Surface Owner: [ ] State [ ] Federal [ ] Tribal [X] Private (Name Nymeyer Property)

Nature and Volume of Release

[ ] Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
[ ] Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of total dissolved solids (TDS) in the produced water > 10,000 mg/L?	[ ] Yes [ ] No [ ] N/A
[ ] Condensate	Volume Released (bbls)	Volume Recovered (bbls)
[X] Natural Gas	Volume Released (Mcf) 2138.07	Volume Recovered (Mcf) 0
[X] Other (describe) Pipeline Liquids	Volume/Weight Released (bbls) 20.06	Volume/Weight Recovered (bbls) 0

Cause of Release:
The release was attributed to corrosion of the pipeline segment. 3-10-inch clamps were installed on the segment.

Initial Response

- [X] The source of the release has been stopped.
- [X] The impacted area has been secured to protect human health and the environment.
- [X] Release materials have been contained via the use of berms or dikes, absorbent pad, or other containment devices
- [X] 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 Release Site. Probable groundwater depth was determined using data generated by numeric models based on available water well data and published information. Depth to groundwater information is provided as Appendix A.

What is the shallowest depth to groundwater beneath the area affected by the release?	~90
Did the release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ 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?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of any occupied permanent residence, school, hospital, institution or church?	☐ Yes ☒ 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?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within the incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas not on an exploration, development, production or storage site?	☒ Yes ☐ No

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

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 for the Site is as follows:

Closure Criteria for Soil Impacted by a Release			
Probable Depth to Groundwater	**Constituent**	**Method**	**Limit**
~90	Chloride	EPA 300.0 or SM4500 Cl B	10000 mg/kg
	TPH (GRO + DRO + MRO)	EPA SW-846 Method 8015M Ext	2500 mg/kg
	DRO + GRO	EPA SW-846 Method 8015M	1000 mg/kg
	BTEX	EPA SW-846 Methods 8021b or 8260b	50 mg/kg
	Benzene	EPA SW-846 Methods 8021b or 8260b	10 mg/kg

4.0 REMEDIATION ACTIVITIES SUMMARY

On February 21, 2020, remediation activities commenced at the Site. In accordance with the NMOCD, impacted soil affected above the NMOCD Closure Criteria and/or NMOCD Reclamation Standard was excavated and stockpiled on-site, pending final disposition at an NMOCD-approved surface waste facility for disposal. The floor and sidewalls of the excavation were advanced until field observations and test results suggested BTEX, TPH and chloride concentrations were below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standard.

On February 24, 2020, ETC collected five (5) initial soil samples (SA 1 through SA 5). The collected soil samples were submitted to a certified commercial laboratory for analysis of BTEX, TPH and/or chloride. Laboratory analytical results indicated BTEX, TPH and chloride concentrations below the applicable NMOCD Closure Criteria and/or the NMOCD Reclamation Standard in each of the submitted soil samples, with the exception of sample locations SA 2, SA 3, and SA 5 which exhibited TPH concentrations of 121.2 mg/Kg, 197 mg/Kg, and 589 mg/kg, respectively.

On March 27, 2020, excavation activities resumed at the Site. Impacted soil in the areas characterized by sample points SA 2, SA 3, and SA 5 was excavated and transported to an NMOCD-approved surface waste facility for disposal. Upon excavating impacted soil remaining in-situ, on April 6, 2020, Etech collected fifteen (15) additional excavation and sidewall confirmation soil samples (SP1 through SP8, NM1, WW1, WW2, WW3, SW1, EW1, and EW2) and submitted them to the laboratory for analysis of BTEX, TPH and chloride. Laboratory analytical results indicated BTEX, TPH and chloride concentrations were below the applicable NMOCD Closure Criteria and/or the NMOCD Reclamation Standard in each of the submitted soil samples, with the exception of sidewall soil samples WW 1 and WW 3, which exhibited TPH concentrations of 359.1 mg/Kg, and 455.9 mg/Kg, respectively. Impacted soil in the areas characterized by sample points WW1 and WW3 was excavated.

On April 14, 2020, two (2) soil samples (WW1b and WW3b) were collected and submitted to the laboratory for analysis of BTEX, TPH and chloride. Laboratory analytical results indicated BTEX, TPH and chloride concentrations which were determined to be below the NMOCD Closure Criteria and/or the NMOCD Reclamation Standard in each of the submitted soil samples with the exception of soil sample WW1b, which exhibited a TPH concentration of 304.9 mg/Kg. Impacted soil in the areas characterized by sample point WW1b was excavated.

On April 17, 2020, one (1) soil sample (WW1c) was collected and submitted to the laboratory for analysis of BTEX, TPH and chloride concentrations, which were determined to be below the NMOCD Closure Criteria and/or the NMOCD Reclamation

A "Site & Sample Location Map" is provided as Figure 3. A "Soil Chemistry Table" is provided as Table 1. Laboratory Analytical Reports are provided in Appendix C. Field data and soil profile logs, if applicable, are provided as Appendix B.

The final dimensions of the excavated area were approximately 150 ft. in length, 24 to 80 ft in width and ranged from 2 to 8 ft. in depth. During the course or remediation activities approximately 864 cubic yards of impacted soil were transported to an NMOCD-approved surface waste facility for disposal.

5.0 RESTORATION, RECLAMATION AND RE-VEGETATION PLAN

Upon receiving laboratory analytical results from confirmation soil samples, excavated areas were backfilled with 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 applicable NMOCD Regulations. Impacted soil affected above the NMOCD Closure Criteria and/or NMOCD Reclamation Standard was excavated and transported to an NMOCD-approved disposal facility. Laboratory analytical results from confirmation soil samples indicate concentrations of BTEX, TPH and chloride are below the NMOCD Closure Criteria and/or 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 and Soil Closure Request to the appropriate agencies and request closure be granted to the F-16 Pipeline (2-18-2020) Site.

7.0 LIMITATIONS

Etech Environmental & Safety Solutions, Inc., has prepared this Remediation Summary and Soil Closure Request to the best of its ability. No other warranty, expressed or implied, is made or intended. Etech has examined and relied upon documents 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..

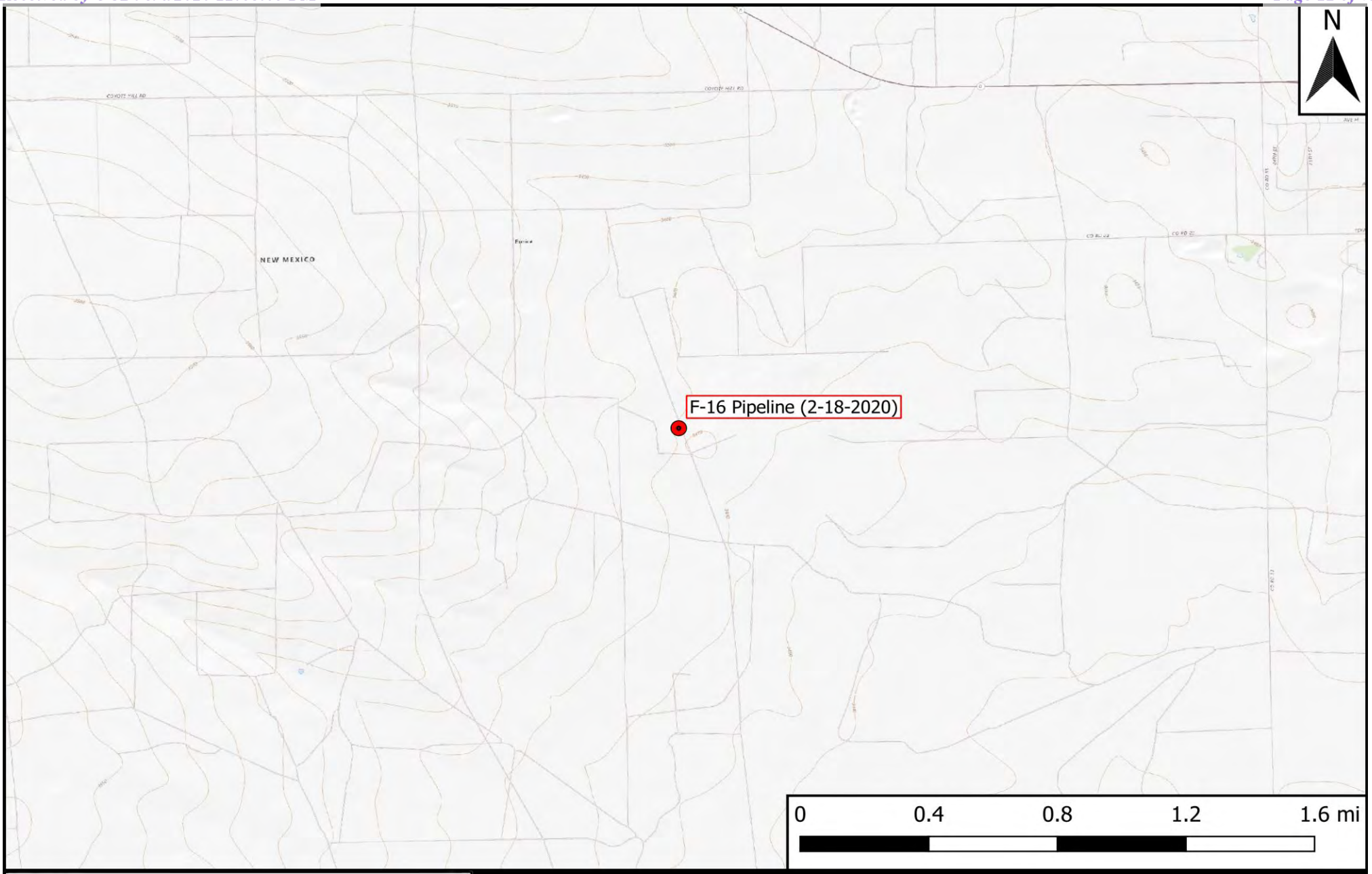
8.0 DISTRIBUTION

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 2
811 S. First Street
Artesia, NM 88210

(Electronic Submission)

Figure 1
Topographic Map



Legend

Site Location

Figure 1

Topographic Map

ETC Texas Pipeline, Ltd.

F-16 Pipeline (2-18-2020)

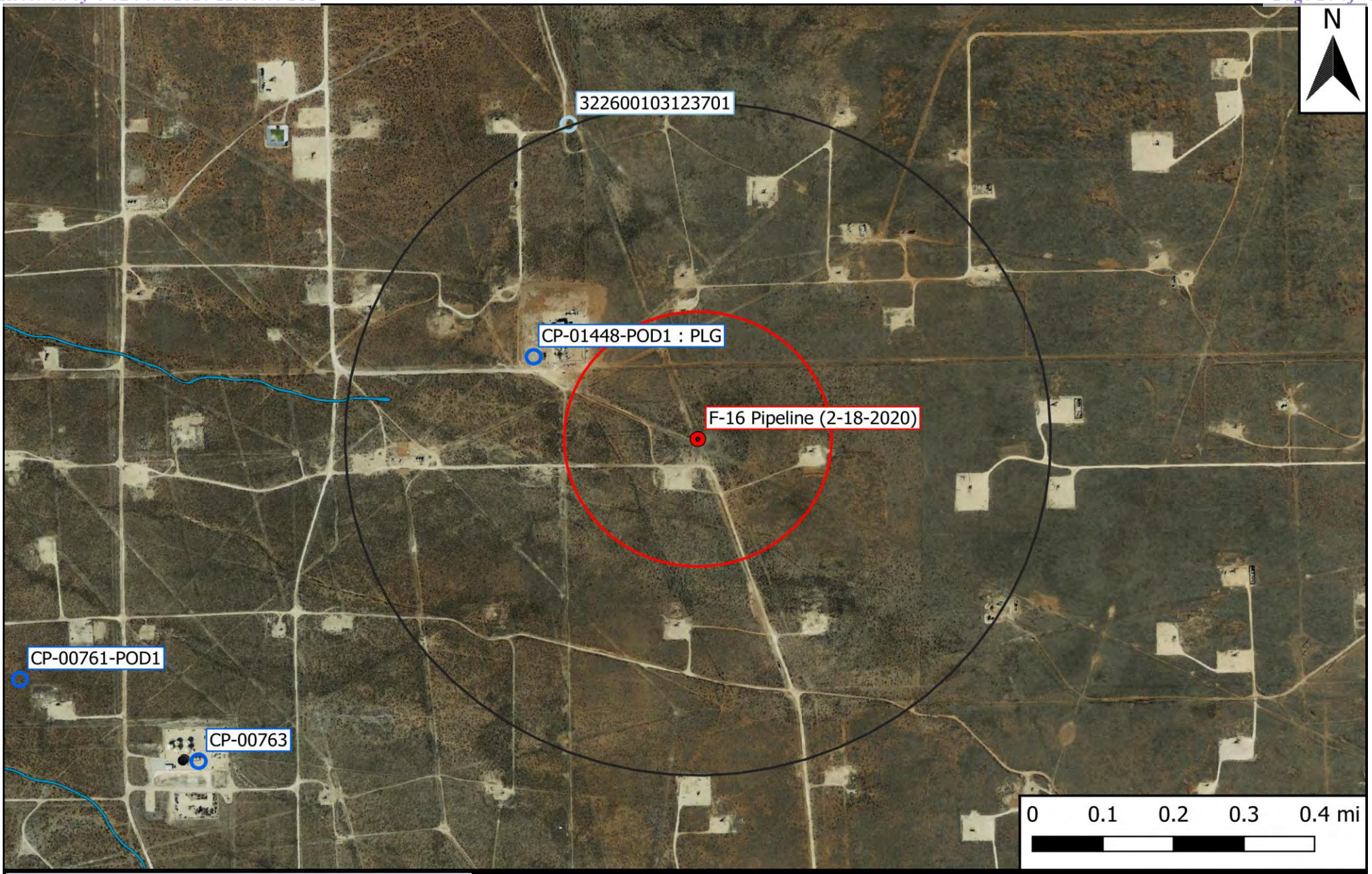
GPS: 32.426647, -103.207744

Lea County

ETECH Environmental & Safety Solutions, Inc.

Drafted: mag Checked: jwl Date: 3/12/20

Figure 2
Aerial Proximity Map



Legend

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

Figure 2

Aerial Map

ETC Texas Pipeline, Ltd.

F-16 Pipeline (2-18-2020)

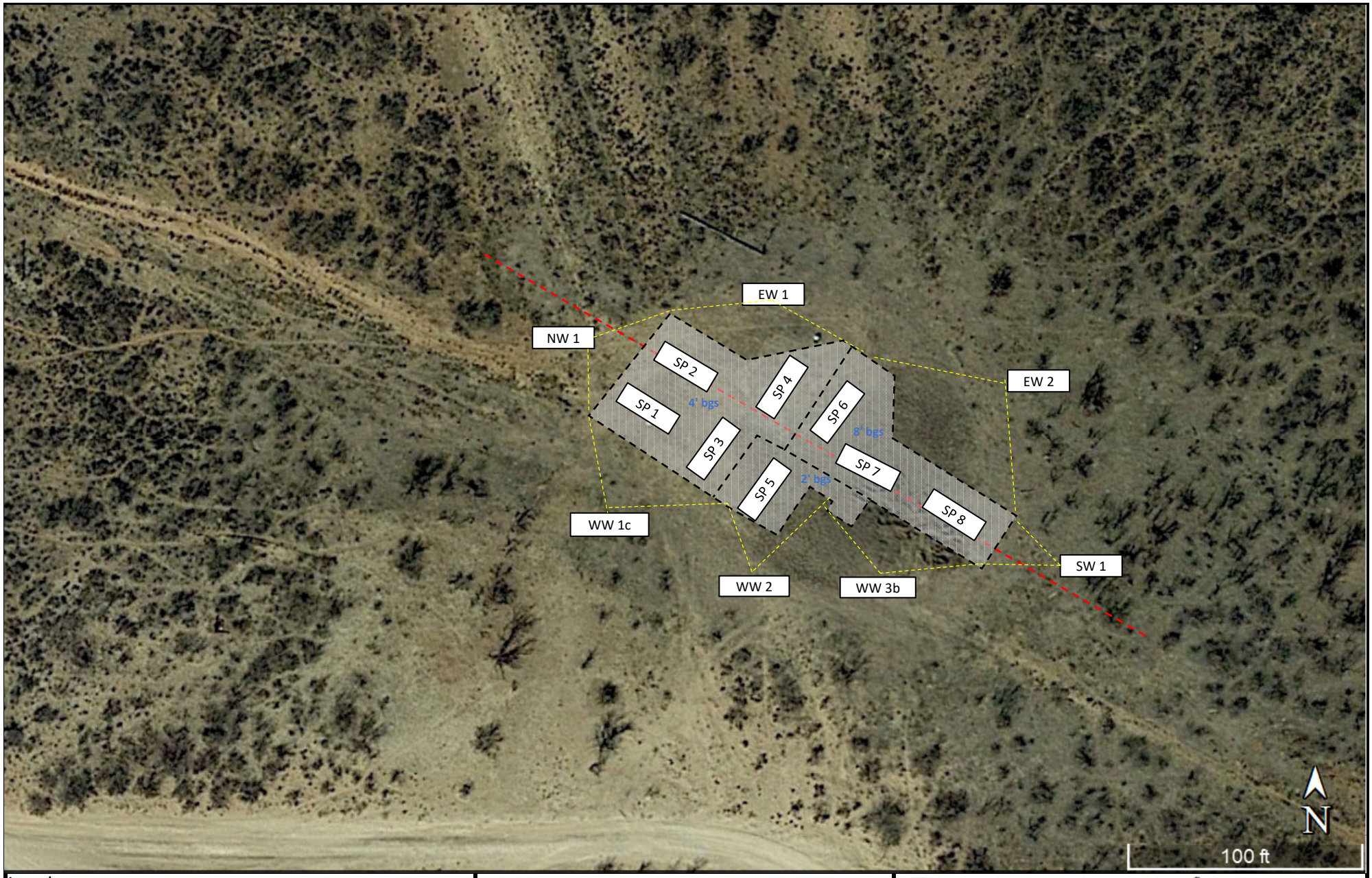
GPS: 32.426647, -103.207744

Lea County

ETECH Environmental & Safety Solutions, Inc.

Drafted: mag Checked: jwl Date: 3/12/20

Figure 3
Site and Sample Location Map



Legend:

NW 1 Composite Sample Location

Excavated Area

Buried Pipeline

Figure 3

Site and Sample Location Map

ETC Texas Pipeline, Ltd.

F-16 Pipeline (2-18-2020)

GPS: 32.426647, -103.207744

Lea County

eTECH Environmental & Safety Solutions, Inc.

Drafted: dd Checked: jwl Date: 4/30/20

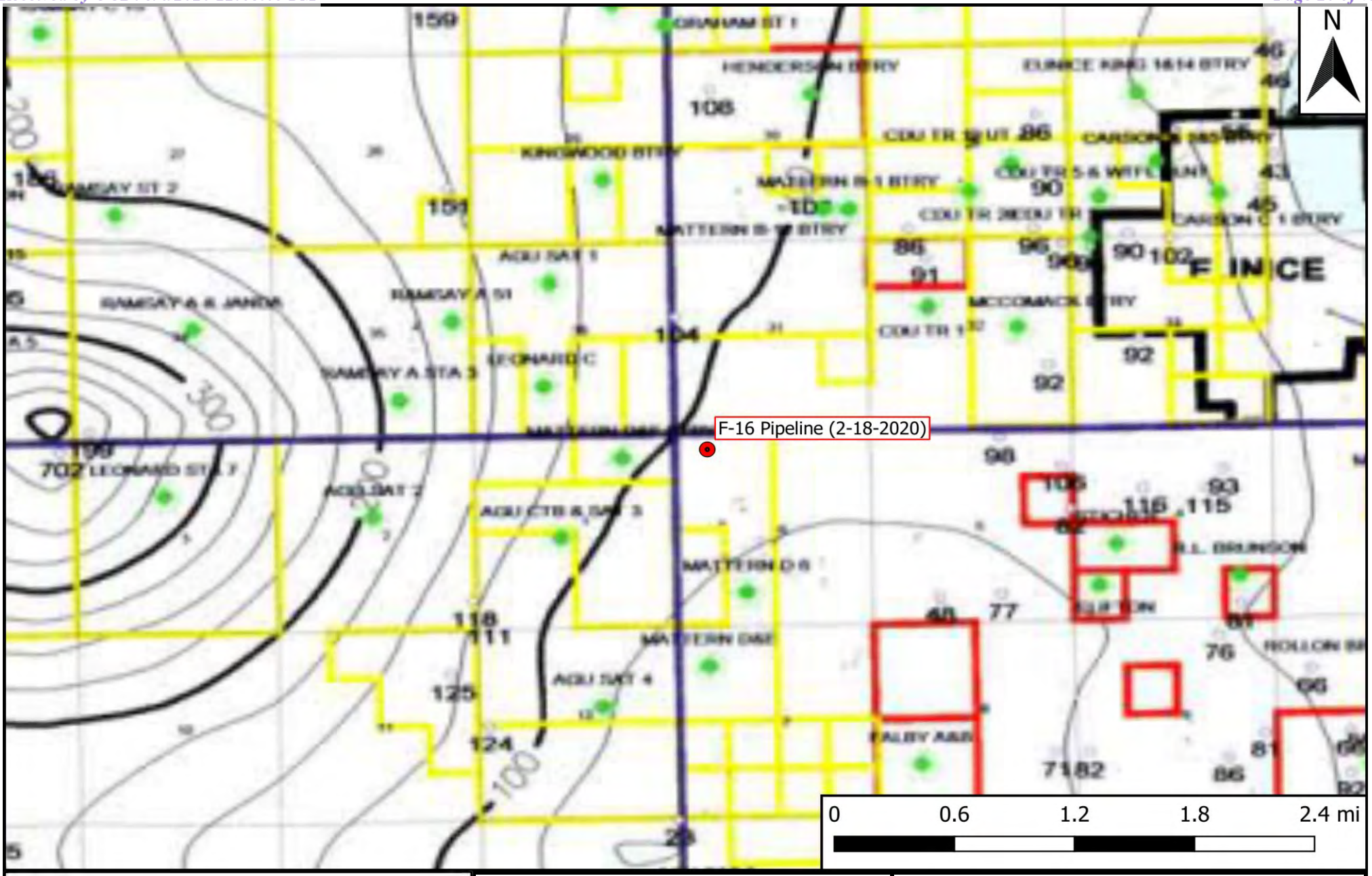
Table 1
Concentrations of BTEX, TPH, and/or Chloride in Soil

TABLE 1
CONCENTRATIONS OF BENZENE, BTEX, TPH, AND CHLORIDE IN SOIL
ETC Texas Pipeline, Ltd.
F-16 Pipeline (2-18-2020)
NMOCD Ref. #: 1RP-pending

NMOCD Closure Criteria				10	50	-	-	1000	-	2500	10000
				SW 846 8021B		SW 846 8015M Ext.					4500 Cl
Sample ID	Date	Depth	Soil Status	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)
SA 1	2/24/2020	3'	Excavated	<0.050	<0.300	<10	29.1	29.1	12	41.1	144
SA 2	2/24/2020	2'	Excavated	<0.050	<0.300	<10	106	106	15.2	121.2	240
SA 3	2/24/2020	2'	Excavated	<0.050	<0.300	11.7	167	178.7	18.3	197	112
SA 4	2/24/2020	2'	Excavated	<0.050	<0.300	<10	26.2	26.2	<10.0	26	16
SA 5	2/24/2020	2'	Excavated	1.84	41.2	293	296	589	<50.0	589	<16
SP 1	4/6/2020	4'	In-Situ	<0.050	<0.300	<10	382	382	78.6	460.6	<16
SP 2	4/6/2020	4'	In-Situ	<0.050	<0.300	<10	577	577	117	694	160
SP 3	4/6/2020	4'	In-Situ	<0.050	<0.300	<10	259	259	160	678	<16
SP 4	4/6/2020	4'	In-Situ	<0.050	<0.300	<10	834	834	307	1,141	<16
SP 5	4/6/2020	2'	In-Situ	<0.050	<0.300	<10	<10	<10	<10	<10	<16
SP 6	4/6/2020	8'	In-Situ	<0.050	<0.300	<10	29	29	<10	29	16
SP 7	4/6/2020	8'	In-Situ	<0.050	<0.300	<10	10.5	10.5	<10	10.5	48
SP 8	4/6/2020	8'	In-Situ	<0.050	<0.300	<10	<10	<10	<10	<10	48
NW 1	4/6/2020	NA	In-Situ	<0.050	<0.300	<10	<10	<10	<10	<10	16
WW 1	4/6/2020	NA	Excavated	<0.050	<0.300	<10	293	293	66.1	359.1	16
WW 2	4/6/2020	NA	In-Situ	<0.050	<0.300	<10.0	<10	<10	<10	<10	480
WW 3	4/6/2020	NA	Excavated	<0.050	1.53	24.3	370	394.3	61.6	455.9	32
SW 1	4/6/2020	NA	In-Situ	<0.050	<0.300	<10	<10	<10	<10	<10	16
EW 1	4/6/2020	NA	In-Situ	<0.050	<0.300	<10	<10	<10	<10	<10	<16
EW 2	4/6/2020	NA	In-Situ	<0.050	<0.300	<10	<10	<10	<10	<10	64
WW 1b	4/14/2020	NA	Excavated	<0.050	<0.300	<10	232	232	72.9	304.9	16
WW 3b	4/14/2020	NA	In-Situ	<0.050	<0.300	<10	<10	<10	<10	<10	224
WW 1c	4/17/2020	NA	In-Situ	<0.050	<0.300	<10	<10	<10	<10	<10	66

NOTES:

Appendix A
Depth to Groundwater Information



Legend

- Site Location

Figure 4

Inferred Depth to Groundwater Trend Map

ETC Texas Pipeline, Ltd.

F-16 Pipeline (2-18-2020)

GPS: 32.426647, -103.207744

Lea County

ETECH Environmental & Safety Solutions, Inc.

Drafted: mag Checked: jwl Date: 3/12/20

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	Twn	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
CP 01448 POD1		CP	LE	4	4	4	36	21S	36E	668136	3589337	423	40		

Average Depth to Water: --

Minimum Depth: --

Maximum Depth: --

Record Count: 1

UTMNAD83 Radius Search (in meters):

Easting (X): 668511.33 **Northing (Y):** 3589141.42 **Radius:** 804.67

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	Twn	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
CP 01448 POD1		CP	LE	4	4	4	36	21S	36E	668136	3589337	423	40		
CP 00763		CP	LE	2	2	3	01	22S	36E	667372	3588374*	1373	265	137	128
L 09966		L	LE	1	2	2	02	17S	37E	667627	3588089	1374	150	70	80

Average Depth to Water: **103 feet**

Minimum Depth: **70 feet**

Maximum Depth: **137 feet**

Record Count: 3

UTMNAD83 Radius Search (in meters):

Easting (X): 668511.33 **Northing (Y):** 3589141.42 **Radius:** 1610

***UTM location was derived from PLSS - see Help**

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 00763	2	2	3	01	22S	36E	667372	3588374*

Driller License: 1188 **Driller Company:** SCARBOROUGH DRILLING INC.

Driller Name: SCARBOROUGH, LANE (LD)

Drill Start Date:	10/07/1991	**Drill Finish Date:**	10/11/1991	**Plug Date:**	
Log File Date:	11/25/1991	**PCW Rcv Date:**		**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	1 GPM
Casing Size:	6.00	**Depth Well:**	265 feet	**Depth Water:**	137 feet

Water Bearing Stratifications:	Top	Bottom	Description
	126	150	Sandstone/Gravel/Conglomerate
	190	260	Shale/Mudstone/Siltstone

Casing Perforations:	Top	Bottom
	185	265

***UTM location was derived from PLSS - see Help**

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 01448 POD1	4	4	4	36	21S	36E	668136	3589337

Driller License:	1456	**Driller Company:**	WHITE DRILLING COMPANY		
Driller Name:	WHITE, JOHN W				
Drill Start Date:	01/05/2015	**Drill Finish Date:**	01/05/2015	**Plug Date:**	01/05/2015
Log File Date:	01/28/2015	**PCW Rcv Date:**		**Source:**	
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	
Casing Size:		**Depth Well:**	40 feet	**Depth 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
	L 09966	1	2	2	02	17S	37E	667627	3588089

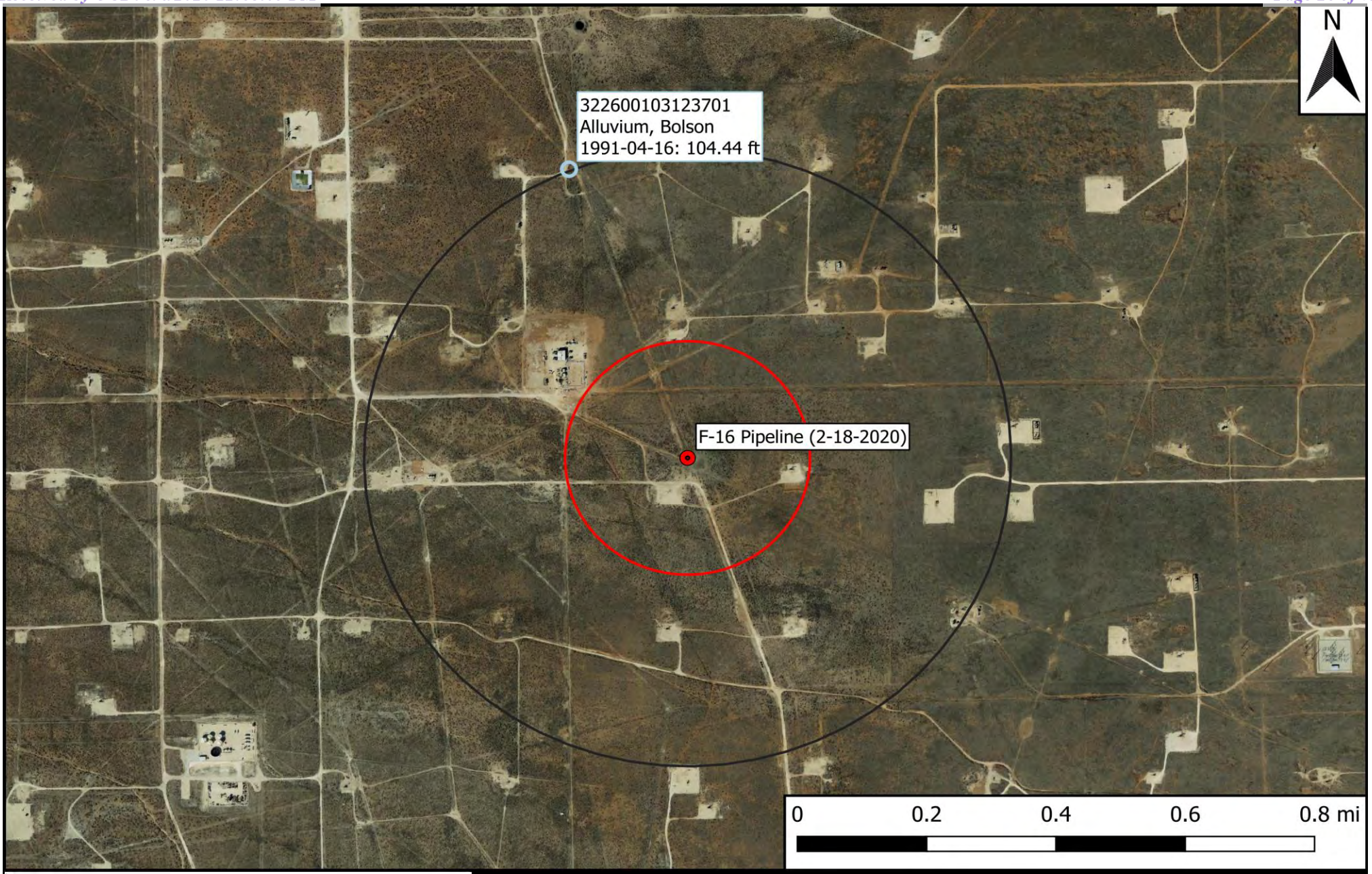
Driller License: 421 **Driller Company:** GLENN'S WATER WELL SERVICE

Driller Name: GLENN, CLARK A."CORKY" (LD)

Drill Start Date:	11/25/1987	**Drill Finish Date:**	11/25/1987	**Plug Date:**	
Log File Date:	12/09/1987	**PCW Rcv Date:**		**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	100 GPM
Casing Size:	6.63	**Depth Well:**	150 feet	**Depth Water:**	70 feet

Water Bearing Stratifications:	Top	Bottom	Description
	70	150	Other/Unknown

Casing Perforations:	Top	Bottom
	80	150



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

Figure 5
USGS Well Proximity Map
ETC Texas Pipeline, Ltd.
F-16 Pipeline (2-18-2020)
GPS: 32.426647, -103.207744
Lea County

ETECH Environmental & Safety Solutions, Inc.

Drafted: mag Checked: jwl Date: 3/12/20

National Water Information System: Web Interface

USGS Water Resources

Data Category: Groundwater | Geographic Area: United States | GO

Click to hideNews Bulletins

- Introducing The Next Generation of USGS Water Data for the Nation
- Full News

Groundwater levels for the Nation

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 322600103123701

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

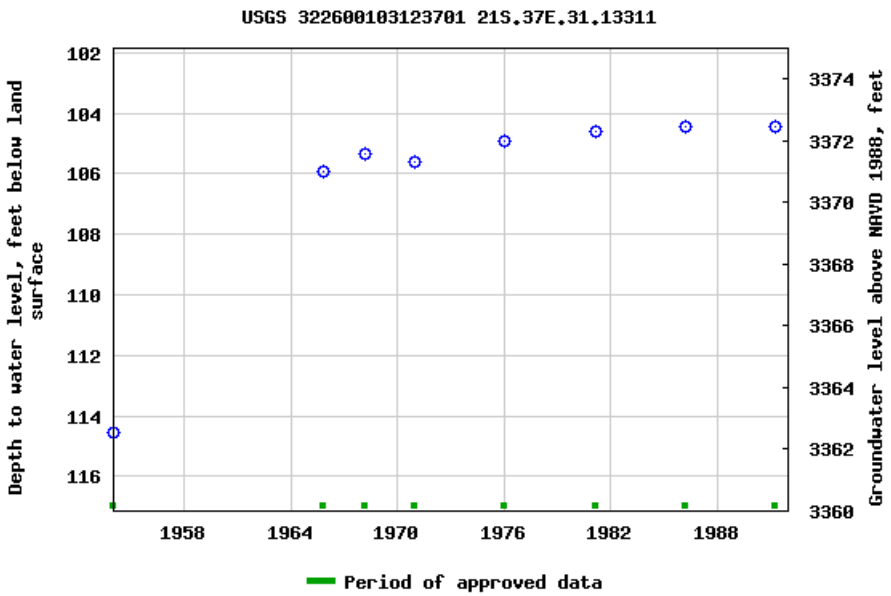
USGS 322600103123701 21S.37E.31.13311

Available data for this site | Groundwater: Field measurements | GO

Lea County, New Mexico
Hydrologic Unit Code 13070007
Latitude 32°26'00", Longitude 103°12'37" NAD27
Land-surface elevation 3,477 feet above NAVD88
The depth of the well is 115 feet below land surface.
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



Breaks in the plot represent a gap of at least one year between field measurements.
Download a presentation-quality graph

Questions about sites/data?
Feedback on this web site
Automated retrievals
Help
Data Tips
Explanation of terms
Subscribe for system changes
News

Title: Groundwater for USA: Water Levels
URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: USGS Water Data Support Team
Page Last Modified: 2020-03-12 10:41:19 EDT
0.64 0.57 nadww01

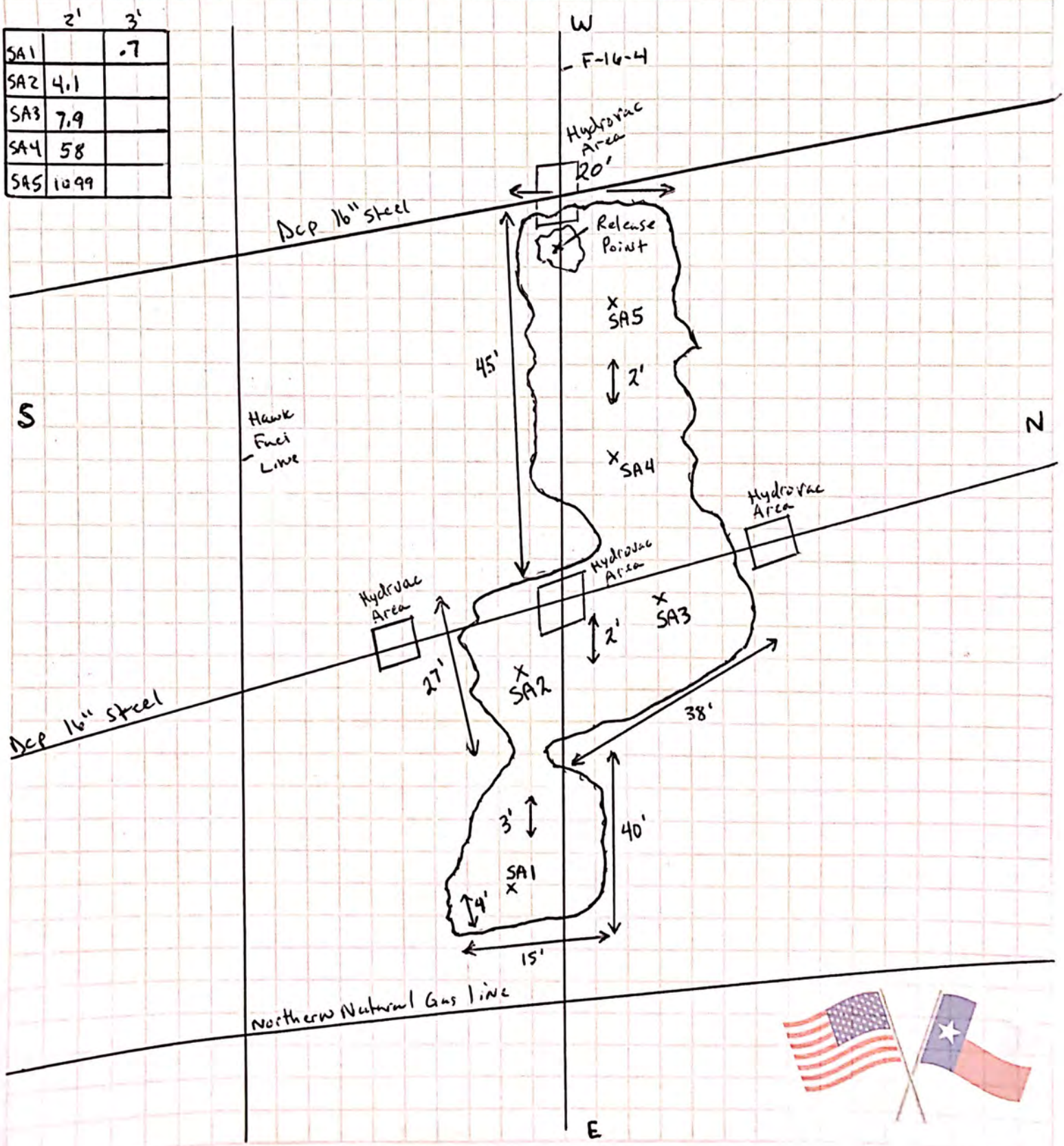
Appendix B
Field Data and Soil Profile Logs

DKM ENTERPRISES, LLC

P.O. Box 48 Uvalde, TX 78801 - (830) 278-7157 - sales@dkmusedpipe.com

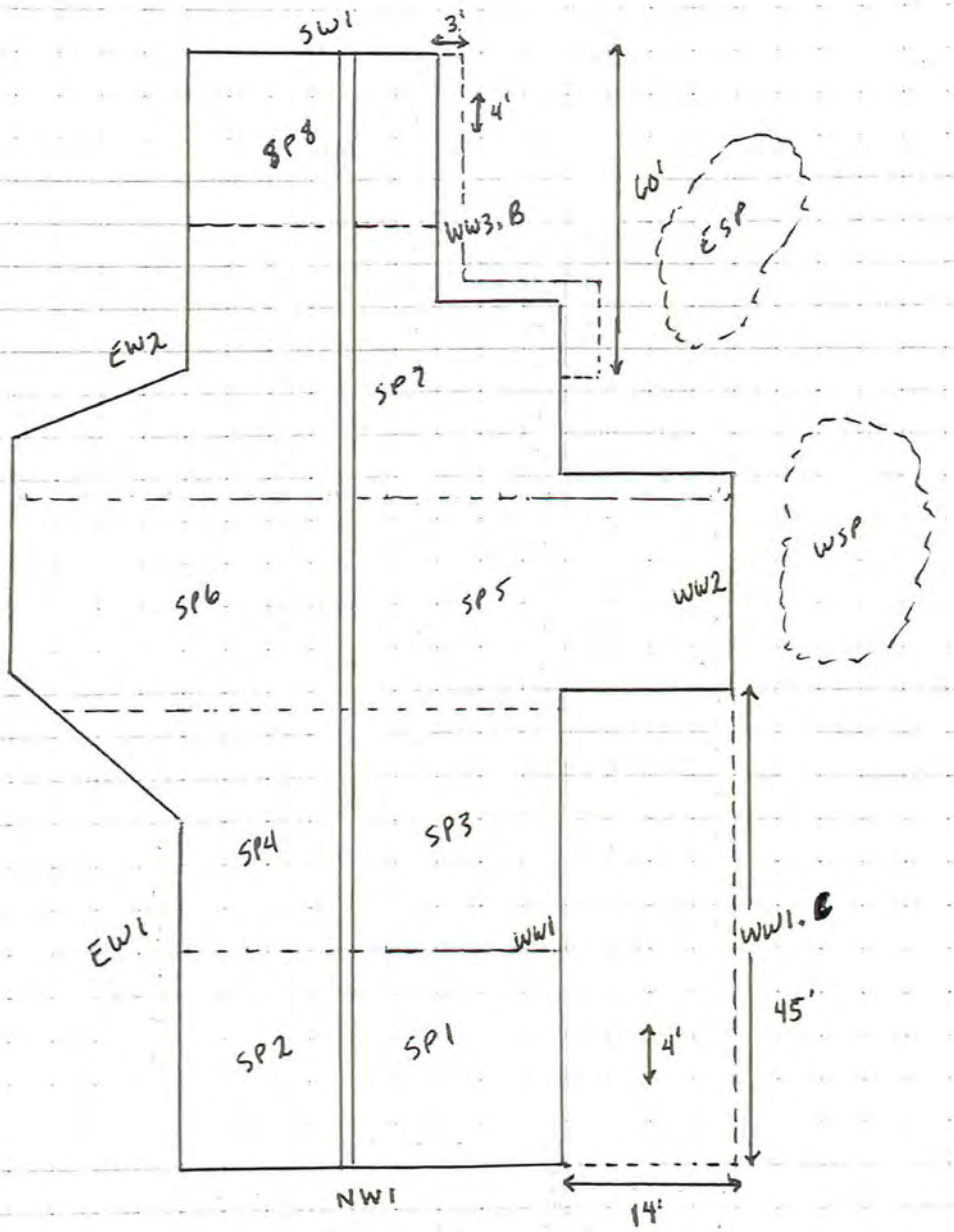
Date: 2/18/2020
Client: ETC
Location: F-16-4
GPS: 32.926647 -103.207744
Prepared By: Tyler B.

	2'	3'
SA1		.7
SA2	4.1	
SA3	7.9	
SA4	58	
SA5	1099	



APS INC.
PO Box 2978
Hobbs, NM 88241
575-393-1417
Midland, TX
432-245-1164

Date: 4/17/2020
Client: ETC
Location: F-16-4
GPS: 32.426647 -103.207744
Prepared By: Tyler B.



OMG #3667

eTECH Environmental & Safety Solutions, Inc.

Initial Release Assessment Form

Date: 4-6-2020

Project: F-16 Pipeline (2-18-2020)

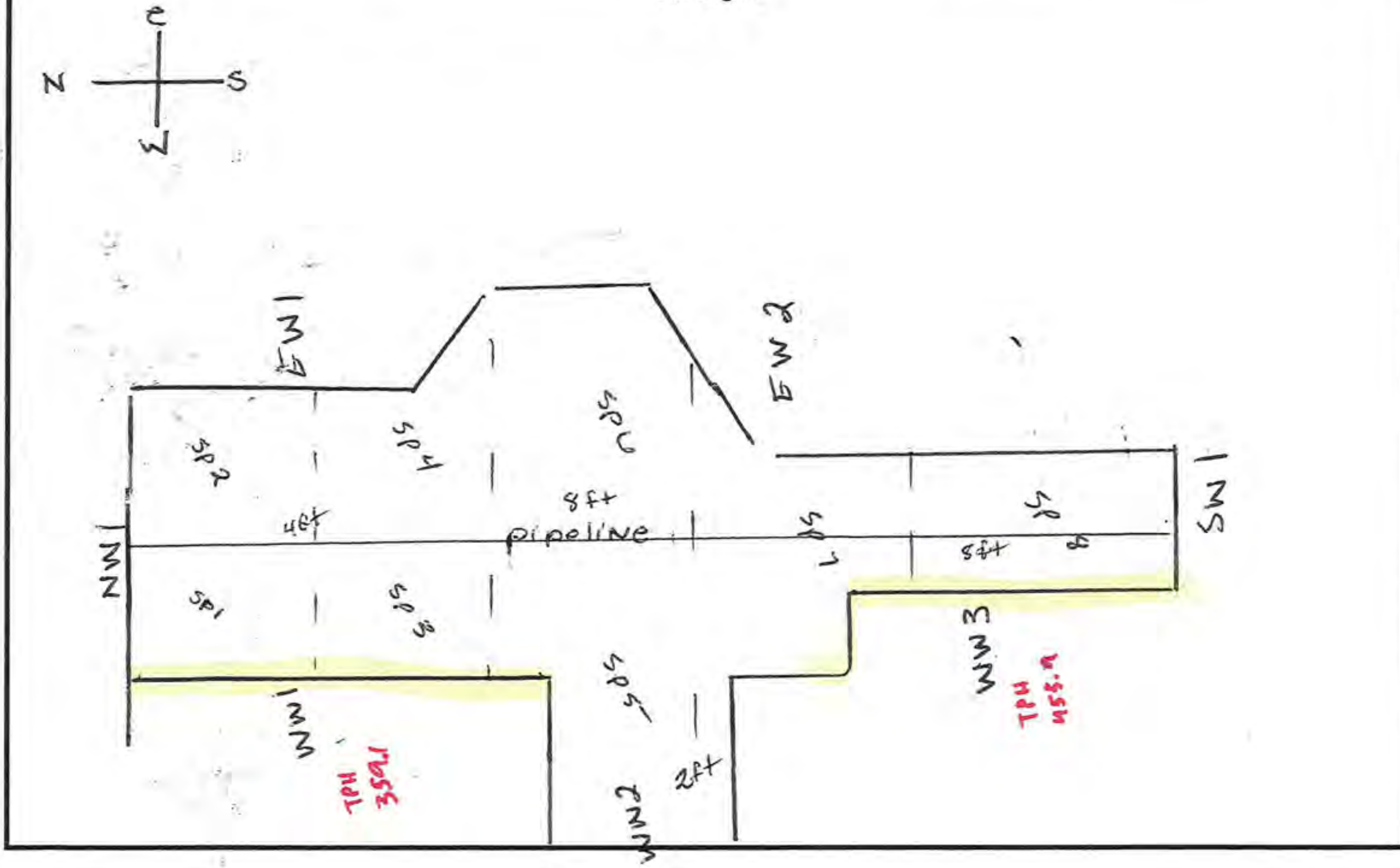
Clean Up Level: 0

Project Number: 12194

Latitude: 32.426647

Longitude: -103.207744

Site Diagram



Notes:

took BH samples ? from
excavation from 2'-8'
about 1500 sqft - estimated

~Length: ~Width: ~Area: ~Depth:

	Yes	No
3-4 Representative Pictures of the Affected Area including sample locations?	☐	☐
Necessary Samples Field Screened and on Ice?	☐	☐
Sample and Field Screen Data Entered on Sample Log?	☐	☐
Was horizontal and vertical delineation achieved?	☐	☐

ETECH Environmental & Safety Solutions, Inc.

Sample Log

Date:

Project: F-16 Pipeline (2-18-2020)

Project Number: 12194 Latitude: 32.426647 Longitude: -103.207744

Sample ID	PID/Odor	Chloride Conc.	GPS
Sp1 10:00	0		
Sp2 10:07	0		
Sp3 10:11	0		
Sp4 10:15	0		
Sp5 10:21			
Sp6 10:30	0		
Sp7 10:40			
Sp8 10:57	0		
NW1 11:07			
WW1 11:13			
WW2 11:15			
WW3 11:20			
SW1 11:00			
EW1 11:31			
EW2 11:21			

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

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

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

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas

eTECH Environmental & Safety Solutions, Inc.

Remediation Log

Project: F-16 Pipeline (2-18-2020)
Project Number: 12194 Latitude: 32.426647 Longitude: -103.207744

	Yes	No
Confirmation of Active One Call? One Call No. _____	☑	☐
Confirmation of On-Site JSA?	☑	☐

Date:	Notes	Yds Out	Yds In
2-21-20	****Begin Remediation Activities****		
2-24-20	Excavate soil & collect soil samples		
2-25-20	Excavate soil stockpile		
3-27-20	Excavating contam soil & stockpile soil		
4/6/20	collect soil samples		
4-14-20	Excavate soil & stockpile & sample		
4-17-20	Excavate & sample		
4-20-20	****Begin Backfill Activies****		
4-22-20	****Complete Remediation Activities****		

Total Yds Out	Total Yds In
864	864

	Yes	No
Pictures of Open Excavation Prior to Backfill	☑	☐
Relevant Information in Project Tracker?	☑	☐

eTECH Environmental & Safety Solutions, Inc.

Soil Profile

Date: 4-6-2020

Project: F-16 Pipeline (2-18-2020)

Project Number: 12194 Latitude: 32.426647 Longitude: -103.207744

Depth (ft. bgs)	Description
1	Topsoil
8	Rocky topsoil

Appendix C
Laboratory Analytical Reports

CARDINAL Laboratories

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

April 07, 2020

JOEL LOWRY

Etech Environmental & Safety Solutions

P.O. Box 301

Lovington, NM 88260

RE: ENERGY TRANSFER

Enclosed are the results of analyses for samples received by the laboratory on 04/06/20 16:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. 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 accreditated 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,

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	04/06/2020	Sampling Date:	04/06/2020
Reported:	04/07/2020	Sampling Type:	Soil
Project Name:	ENERGY TRANSFER	Sampling Condition:	Cool & Intact
Project Number:	12194	Sample Received By:	Kelly Jacobson
Project Location:	ETC - F-16 PIPELINE		

Sample ID: SP 1 (H001017-01)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/06/2020	ND	2.08	104	2.00	3.75	
Toluene*	<0.050	0.050	04/06/2020	ND	2.09	104	2.00	3.93	
Ethylbenzene*	<0.050	0.050	04/06/2020	ND	2.11	106	2.00	4.53	
Total Xylenes*	<0.150	0.150	04/06/2020	ND	6.17	103	6.00	4.62	
Total BTEX	<0.300	0.300	04/06/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID *102 %* *73.3-129*

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	04/07/2020	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/07/2020	ND	189	94.6	200	0.132	
DRO >C10-C28*	**382**	10.0	04/07/2020	ND	184	92.0	200	0.414	
EXT DRO >C28-C36	**78.6**	10.0	04/07/2020	ND					

Surrogate: 1-Chlorooctane *93.4 %* *44.3-144*

Surrogate: 1-Chlorooctadecane *96.0 %* *42.2-156*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	04/06/2020	Sampling Date:	04/06/2020
Reported:	04/07/2020	Sampling Type:	Soil
Project Name:	ENERGY TRANSFER	Sampling Condition:	Cool & Intact
Project Number:	12194	Sample Received By:	Kelly Jacobson
Project Location:	ETC - F-16 PIPELINE		

Sample ID: SP 2 (H001017-02)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/06/2020	ND	2.08	104	2.00	3.75	
Toluene*	**0.075**	0.050	04/06/2020	ND	2.09	104	2.00	3.93	
Ethylbenzene*	**0.052**	0.050	04/06/2020	ND	2.11	106	2.00	4.53	
Total Xylenes*	**0.396**	0.150	04/06/2020	ND	6.17	103	6.00	4.62	
Total BTEX	**0.523**	0.300	04/06/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID *115 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**160**	16.0	04/07/2020	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/07/2020	ND	189	94.6	200	0.132	
DRO >C10-C28*	**577**	10.0	04/07/2020	ND	184	92.0	200	0.414	
EXT DRO >C28-C36	**117**	10.0	04/07/2020	ND					

Surrogate: 1-Chlorooctane *101 %* *44.3-144*

Surrogate: 1-Chlorooctadecane *103 %* *42.2-156*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	04/06/2020	Sampling Date:	04/06/2020
Reported:	04/07/2020	Sampling Type:	Soil
Project Name:	ENERGY TRANSFER	Sampling Condition:	Cool & Intact
Project Number:	12194	Sample Received By:	Kelly Jacobson
Project Location:	ETC - F-16 PIPELINE		

Sample ID: SP 3 (H001017-03)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/07/2020	ND	2.08	104	2.00	3.75	
Toluene*	<0.050	0.050	04/07/2020	ND	2.09	104	2.00	3.93	
Ethylbenzene*	<0.050	0.050	04/07/2020	ND	2.11	106	2.00	4.53	
Total Xylenes*	<0.150	0.150	04/07/2020	ND	6.17	103	6.00	4.62	
Total BTEX	<0.300	0.300	04/07/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID *101 %* *73.3-129*

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	04/07/2020	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/07/2020	ND	189	94.6	200	0.132	
DRO >C10-C28*	**259**	10.0	04/07/2020	ND	184	92.0	200	0.414	
EXT DRO >C28-C36	**160**	10.0	04/07/2020	ND					

Surrogate: 1-Chlorooctane *93.5 %* *44.3-144*

Surrogate: 1-Chlorooctadecane *96.3 %* *42.2-156*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	04/06/2020	Sampling Date:	04/06/2020
Reported:	04/07/2020	Sampling Type:	Soil
Project Name:	ENERGY TRANSFER	Sampling Condition:	Cool & Intact
Project Number:	12194	Sample Received By:	Kelly Jacobson
Project Location:	ETC - F-16 PIPELINE		

Sample ID: SP 4 (H001017-04)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/07/2020	ND	2.08	104	2.00	3.75	
Toluene*	<0.050	0.050	04/07/2020	ND	2.09	104	2.00	3.93	
Ethylbenzene*	<0.050	0.050	04/07/2020	ND	2.11	106	2.00	4.53	
Total Xylenes*	<0.150	0.150	04/07/2020	ND	6.17	103	6.00	4.62	
Total BTEX	<0.300	0.300	04/07/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID *105 %* *73.3-129*

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	04/07/2020	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/07/2020	ND	189	94.6	200	0.132	
DRO >C10-C28*	**834**	10.0	04/07/2020	ND	184	92.0	200	0.414	
EXT DRO >C28-C36	**307**	10.0	04/07/2020	ND					

Surrogate: 1-Chlorooctane *98.6 %* *44.3-144*

Surrogate: 1-Chlorooctadecane *103 %* *42.2-156*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	04/06/2020	Sampling Date:	04/06/2020
Reported:	04/07/2020	Sampling Type:	Soil
Project Name:	ENERGY TRANSFER	Sampling Condition:	Cool & Intact
Project Number:	12194	Sample Received By:	Kelly Jacobson
Project Location:	ETC - F-16 PIPELINE		

Sample ID: SP 5 (H001017-05)

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	04/07/2020	ND	2.08	104	2.00	3.75	
Toluene*	<0.050	0.050	04/07/2020	ND	2.09	104	2.00	3.93	
Ethylbenzene*	<0.050	0.050	04/07/2020	ND	2.11	106	2.00	4.53	
Total Xylenes*	<0.150	0.150	04/07/2020	ND	6.17	103	6.00	4.62	
Total BTEX	<0.300	0.300	04/07/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID *101 %* *73.3-129*

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	04/07/2020	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/06/2020	ND	189	94.6	200	0.132	
DRO >C10-C28*	<10.0	10.0	04/06/2020	ND	184	92.0	200	0.414	
EXT DRO >C28-C36	<10.0	10.0	04/06/2020	ND					

Surrogate: 1-Chlorooctane *87.7 %* *44.3-144*

Surrogate: 1-Chlorooctadecane *90.9 %* *42.2-156*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	04/06/2020	Sampling Date:	04/06/2020
Reported:	04/07/2020	Sampling Type:	Soil
Project Name:	ENERGY TRANSFER	Sampling Condition:	Cool & Intact
Project Number:	12194	Sample Received By:	Kelly Jacobson
Project Location:	ETC - F-16 PIPELINE		

Sample ID: SP 6 (H001017-06)

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	04/07/2020	ND	2.08	104	2.00	3.75	
Toluene*	<0.050	0.050	04/07/2020	ND	2.09	104	2.00	3.93	
Ethylbenzene*	<0.050	0.050	04/07/2020	ND	2.11	106	2.00	4.53	
Total Xylenes*	<0.150	0.150	04/07/2020	ND	6.17	103	6.00	4.62	
Total BTEX	<0.300	0.300	04/07/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID *101 %* *73.3-129*

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	04/07/2020	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/06/2020	ND	189	94.6	200	0.132	
DRO >C10-C28*	**29.0**	10.0	04/06/2020	ND	184	92.0	200	0.414	
EXT DRO >C28-C36	<10.0	10.0	04/06/2020	ND					

Surrogate: 1-Chlorooctane *90.5 %* *44.3-144*

Surrogate: 1-Chlorooctadecane *90.4 %* *42.2-156*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	04/06/2020	Sampling Date:	04/06/2020
Reported:	04/07/2020	Sampling Type:	Soil
Project Name:	ENERGY TRANSFER	Sampling Condition:	Cool & Intact
Project Number:	12194	Sample Received By:	Kelly Jacobson
Project Location:	ETC - F-16 PIPELINE		

Sample ID: SP 7 (H001017-07)

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	04/07/2020	ND	2.08	104	2.00	3.75	
Toluene*	<0.050	0.050	04/07/2020	ND	2.09	104	2.00	3.93	
Ethylbenzene*	<0.050	0.050	04/07/2020	ND	2.11	106	2.00	4.53	
Total Xylenes*	<0.150	0.150	04/07/2020	ND	6.17	103	6.00	4.62	
Total BTEX	<0.300	0.300	04/07/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID *101 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	04/07/2020	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/06/2020	ND	189	94.6	200	0.132	
DRO >C10-C28*	**10.5**	10.0	04/06/2020	ND	184	92.0	200	0.414	
EXT DRO >C28-C36	<10.0	10.0	04/06/2020	ND					

Surrogate: 1-Chlorooctane *93.1 %* *44.3-144*

Surrogate: 1-Chlorooctadecane *99.8 %* *42.2-156*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	04/06/2020	Sampling Date:	04/06/2020
Reported:	04/07/2020	Sampling Type:	Soil
Project Name:	ENERGY TRANSFER	Sampling Condition:	Cool & Intact
Project Number:	12194	Sample Received By:	Kelly Jacobson
Project Location:	ETC - F-16 PIPELINE		

Sample ID: SP 8 (H001017-08)

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	04/07/2020	ND	2.08	104	2.00	3.75	
Toluene*	<0.050	0.050	04/07/2020	ND	2.09	104	2.00	3.93	
Ethylbenzene*	<0.050	0.050	04/07/2020	ND	2.11	106	2.00	4.53	
Total Xylenes*	<0.150	0.150	04/07/2020	ND	6.17	103	6.00	4.62	
Total BTEX	<0.300	0.300	04/07/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID *102 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	04/07/2020	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/06/2020	ND	189	94.6	200	0.132	
DRO >C10-C28*	<10.0	10.0	04/06/2020	ND	184	92.0	200	0.414	
EXT DRO >C28-C36	<10.0	10.0	04/06/2020	ND					

Surrogate: 1-Chlorooctane *94.6 %* *44.3-144*

Surrogate: 1-Chlorooctadecane *101 %* *42.2-156*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	04/06/2020	Sampling Date:	04/06/2020
Reported:	04/07/2020	Sampling Type:	Soil
Project Name:	ENERGY TRANSFER	Sampling Condition:	Cool & Intact
Project Number:	12194	Sample Received By:	Kelly Jacobson
Project Location:	ETC - F-16 PIPELINE		

Sample ID: NW 1 (H001017-09)

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	04/07/2020	ND	2.08	104	2.00	3.75	
Toluene*	<0.050	0.050	04/07/2020	ND	2.09	104	2.00	3.93	
Ethylbenzene*	<0.050	0.050	04/07/2020	ND	2.11	106	2.00	4.53	
Total Xylenes*	<0.150	0.150	04/07/2020	ND	6.17	103	6.00	4.62	
Total BTEX	<0.300	0.300	04/07/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID *102 %* *73.3-129*

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	04/07/2020	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/06/2020	ND	189	94.6	200	0.132	
DRO >C10-C28*	<10.0	10.0	04/06/2020	ND	184	92.0	200	0.414	
EXT DRO >C28-C36	<10.0	10.0	04/06/2020	ND					

Surrogate: 1-Chlorooctane *98.0 %* *44.3-144*

Surrogate: 1-Chlorooctadecane *107 %* *42.2-156*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	04/06/2020	Sampling Date:	04/06/2020
Reported:	04/07/2020	Sampling Type:	Soil
Project Name:	ENERGY TRANSFER	Sampling Condition:	Cool & Intact
Project Number:	12194	Sample Received By:	Kelly Jacobson
Project Location:	ETC - F-16 PIPELINE		

Sample ID: WW 1 (H001017-10)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/07/2020	ND	2.08	104	2.00	3.75	
Toluene*	<0.050	0.050	04/07/2020	ND	2.09	104	2.00	3.93	
Ethylbenzene*	<0.050	0.050	04/07/2020	ND	2.11	106	2.00	4.53	
Total Xylenes*	<0.150	0.150	04/07/2020	ND	6.17	103	6.00	4.62	
Total BTEX	<0.300	0.300	04/07/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID *101 %* *73.3-129*

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	04/07/2020	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/07/2020	ND	189	94.6	200	0.132	
DRO >C10-C28*	**293**	10.0	04/07/2020	ND	184	92.0	200	0.414	
EXT DRO >C28-C36	**66.1**	10.0	04/07/2020	ND					

Surrogate: 1-Chlorooctane *80.7 %* *44.3-144*

Surrogate: 1-Chlorooctadecane *83.8 %* *42.2-156*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	04/06/2020	Sampling Date:	04/06/2020
Reported:	04/07/2020	Sampling Type:	Soil
Project Name:	ENERGY TRANSFER	Sampling Condition:	Cool & Intact
Project Number:	12194	Sample Received By:	Kelly Jacobson
Project Location:	ETC - F-16 PIPELINE		

Sample ID: WW 2 (H001017-11)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/07/2020	ND	2.08	104	2.00	3.75	
Toluene*	<0.050	0.050	04/07/2020	ND	2.09	104	2.00	3.93	
Ethylbenzene*	<0.050	0.050	04/07/2020	ND	2.11	106	2.00	4.53	
Total Xylenes*	<0.150	0.150	04/07/2020	ND	6.17	103	6.00	4.62	
Total BTEX	<0.300	0.300	04/07/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID *101 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**480**	16.0	04/07/2020	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/06/2020	ND	189	94.6	200	0.132	
DRO >C10-C28*	<10.0	10.0	04/06/2020	ND	184	92.0	200	0.414	
EXT DRO >C28-C36	<10.0	10.0	04/06/2020	ND					

Surrogate: 1-Chlorooctane *90.3 %* *44.3-144*

Surrogate: 1-Chlorooctadecane *93.9 %* *42.2-156*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	04/06/2020	Sampling Date:	04/06/2020
Reported:	04/07/2020	Sampling Type:	Soil
Project Name:	ENERGY TRANSFER	Sampling Condition:	Cool & Intact
Project Number:	12194	Sample Received By:	Kelly Jacobson
Project Location:	ETC - F-16 PIPELINE		

Sample ID: WW 3 (H001017-12)

BTEX 8021B mg/kg Analyzed By: MS S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/07/2020	ND	2.08	104	2.00	3.75	
Toluene*	**0.072**	0.050	04/07/2020	ND	2.09	104	2.00	3.93	GC-NC1
Ethylbenzene*	**0.162**	0.050	04/07/2020	ND	2.11	106	2.00	4.53	GC-NC1
Total Xylenes*	**1.30**	0.150	04/07/2020	ND	6.17	103	6.00	4.62	GC-NC1
Total BTEX	**1.53**	0.300	04/07/2020	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID *181 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	04/07/2020	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**24.3**	10.0	04/07/2020	ND	189	94.6	200	0.132	
DRO >C10-C28*	**370**	10.0	04/07/2020	ND	184	92.0	200	0.414	
EXT DRO >C28-C36	**61.6**	10.0	04/07/2020	ND					

Surrogate: 1-Chlorooctane *93.3 %* *44.3-144*

Surrogate: 1-Chlorooctadecane *89.5 %* *42.2-156*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	04/06/2020	Sampling Date:	04/06/2020
Reported:	04/07/2020	Sampling Type:	Soil
Project Name:	ENERGY TRANSFER	Sampling Condition:	Cool & Intact
Project Number:	12194	Sample Received By:	Kelly Jacobson
Project Location:	ETC - F-16 PIPELINE		

Sample ID: SW 1 (H001017-13)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/07/2020	ND	2.08	104	2.00	3.75	
Toluene*	<0.050	0.050	04/07/2020	ND	2.09	104	2.00	3.93	
Ethylbenzene*	<0.050	0.050	04/07/2020	ND	2.11	106	2.00	4.53	
Total Xylenes*	<0.150	0.150	04/07/2020	ND	6.17	103	6.00	4.62	
Total BTEX	<0.300	0.300	04/07/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID *102 %* *73.3-129*

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	04/07/2020	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/06/2020	ND	189	94.6	200	0.132	
DRO >C10-C28*	<10.0	10.0	04/06/2020	ND	184	92.0	200	0.414	
EXT DRO >C28-C36	<10.0	10.0	04/06/2020	ND					

Surrogate: 1-Chlorooctane *97.0 %* *44.3-144*

Surrogate: 1-Chlorooctadecane *101 %* *42.2-156*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	04/06/2020	Sampling Date:	04/06/2020
Reported:	04/07/2020	Sampling Type:	Soil
Project Name:	ENERGY TRANSFER	Sampling Condition:	Cool & Intact
Project Number:	12194	Sample Received By:	Kelly Jacobson
Project Location:	ETC - F-16 PIPELINE		

Sample ID: EW 1 (H001017-14)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/07/2020	ND	2.08	104	2.00	3.75	
Toluene*	<0.050	0.050	04/07/2020	ND	2.09	104	2.00	3.93	
Ethylbenzene*	<0.050	0.050	04/07/2020	ND	2.11	106	2.00	4.53	
Total Xylenes*	<0.150	0.150	04/07/2020	ND	6.17	103	6.00	4.62	
Total BTEX	<0.300	0.300	04/07/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID *101 %* *73.3-129*

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	04/07/2020	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/06/2020	ND	189	94.6	200	0.132	
DRO >C10-C28*	<10.0	10.0	04/06/2020	ND	184	92.0	200	0.414	
EXT DRO >C28-C36	<10.0	10.0	04/06/2020	ND					

Surrogate: 1-Chlorooctane *92.4 %* *44.3-144*

Surrogate: 1-Chlorooctadecane *102 %* *42.2-156*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	04/06/2020	Sampling Date:	04/06/2020
Reported:	04/07/2020	Sampling Type:	Soil
Project Name:	ENERGY TRANSFER	Sampling Condition:	Cool & Intact
Project Number:	12194	Sample Received By:	Kelly Jacobson
Project Location:	ETC - F-16 PIPELINE		

Sample ID: EW 2 (H001017-15)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/07/2020	ND	2.08	104	2.00	3.75	
Toluene*	<0.050	0.050	04/07/2020	ND	2.09	104	2.00	3.93	
Ethylbenzene*	<0.050	0.050	04/07/2020	ND	2.11	106	2.00	4.53	
Total Xylenes*	<0.150	0.150	04/07/2020	ND	6.17	103	6.00	4.62	
Total BTEX	<0.300	0.300	04/07/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID *101 %* *73.3-129*

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	04/07/2020	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/06/2020	ND	189	94.6	200	0.132	
DRO >C10-C28*	<10.0	10.0	04/06/2020	ND	184	92.0	200	0.414	
EXT DRO >C28-C36	<10.0	10.0	04/06/2020	ND					

Surrogate: 1-Chlorooctane *95.6 %* *44.3-144*

Surrogate: 1-Chlorooctadecane *101 %* *42.2-156*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Notes and Definitions

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

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:	Etech Environmental & Safety Solutions, Inc.	**BILL TO**	
Project Manager:		P.O. #:	
Address:	P.O. Box 301	Company:	ETC
City:	Lovington	State: NM Zip: 88260	Attn: Dean Gritzon
Phone #:	(575) 396-2378	Fax #: (575) 396-1429	Address:
Project #:	12194	Project Owner:	City:
Project Name:	Energy Transfer		State: Zip:
Project Location:	F-16 pipeline		Phone #:
Sampler Name:	Lindsey Salgado		Fax #:

FOR LAB USE ONLY				MATRIX						PRESERV.			SAMPLING		ANALYSIS REQUEST										
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	Chloride	TPH (8015M)	BTEX (8021B)								
H001017																									
1	Sp1		1			X					X		4/6/20	10:00	X	X	X								
2	Sp 2		1			X					X		4/6/20	10:07	X	X	X								
3	Sp 3		1			X					X		4/6/20	10:11	X	X	X								
4	Sp4		1			X					X		4/6/20	10:15	X	X	X								
5	Sp 5		1			X					X		4/6/20	10:21	X	X	X								
6	Sp6		1			X					X		4/6/20	10:30	X	X	X								
7	Sp7		1			X					X		4/6/20	10:40	X	X	X								
8	Sp8		1			X					X		4/6/20	10:57	X	X	X								
9	NW1		1			X					X		4/6/20	11:01	X	X	X								
10	WW1		1			X					X		4/6/20	11:13	X	X	X								

Relinquished By:	Date: 4-6-20	Received By:	Phone Result: ☐ Yes ☐ No Add'l Phone #:
	Time: 1655		Fax Result: ☐ Yes ☐ No Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS: Rush!
	Time:		Please email results to pm@etechenv.com.

Delivered By: (Circle One) 5.7°c	Sample Condition Cool Intact ☑ Yes ☑ Yes ☐ No ☐ No	CHECKED BY: (Initials)
Sampler - UPS - Bus - Other: #113		

FORM-006
Revision 1.0

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

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:	Etech Environmental & Safety Solutions, Inc.	**BILL TO**	
Project Manager:		P.O. #:	
Address:	P.O. Box 301	Company:	ETC
City:	Lovington	State: NM Zip: 88260	Attn: Dean Ericson
Phone #:	(575) 396-2378	Fax #: (575) 396-1429	Address:
Project #:	12194	Project Owner:	City:
Project Name:	F-16 Pipeline		State: Zip:
Project Location:	Energy Transfer		Phone #:
Sampler Name:	Lindsey Salgado		Fax #:

FOR LAB USE ONLY				MATRIX						PRESERV.			SAMPLING		ANALYSIS REQUEST										
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	Chloride	TPH (8015M)	BTEX (8021B)								
H001017																									
11	WW2					X					X		4/6/20	11:15	X	X	X								
12	WW3					X					X		4/6/20	11:20	X	X	X								
13	SW1					X					X		4/6/20	11:00	X	X	X								
14	EW1					X					X		4/6/20	11:31	X	X	X								
15	EW2					X					X		4/6/20	11:21	X	X	X								

Relinquished By:	Date: 4-6-20	Received By:	Phone Result: ☐ Yes ☐ No Add'l Phone #:
	Time: 1655		Fax Result: ☐ Yes ☐ No Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS: Rush!
	Time:		Please email results to pm@etechenv.com.

Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Sample Condition Cool ☑ Yes ☐ No Intact ☑ Yes ☐ No	CHECKED BY: (Initials)
5.7°C #113		LJ

FORM-006
Revision 1.0

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CARDINAL Laboratories

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

April 15, 2020

DEAN ERICSON

ENERGY TRANSFER

P. O. BOX 1226

JAL, NM 88252

RE: F-16-4

Enclosed are the results of analyses for samples received by the laboratory on 04/14/20 13:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. 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 accreditated 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,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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:	04/14/2020	Sampling Date:	04/14/2020
Reported:	04/15/2020	Sampling Type:	Soil
Project Name:	F-16-4	Sampling Condition:	Cool & Intact
Project Number:	32.426647-103.207744	Sample Received By:	Kelly Jacobson
Project Location:	NEW MEXICO		

Sample ID: WW1 B (H001091-01)

BTEX 8021B mg/L Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/14/2020	ND	1.87	93.7	2.00	9.07	
Toluene*	<0.050	0.050	04/14/2020	ND	1.81	90.4	2.00	9.44	
Ethylbenzene*	<0.050	0.050	04/14/2020	ND	1.82	91.0	2.00	9.28	
Total Xylenes*	<0.150	0.150	04/14/2020	ND	5.25	87.4	6.00	9.52	
Total BTEX	<0.300	0.300	04/14/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID *98.5 %* *58.2-133*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	04/15/2020	ND	432	108	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/15/2020	ND	202	101	200	4.43	
DRO >C10-C28*	**232**	10.0	04/15/2020	ND	197	98.3	200	7.99	
EXT DRO >C28-C36	**72.9**	10.0	04/15/2020	ND					

Surrogate: 1-Chlorooctane *95.7 %* *44.3-144*

Surrogate: 1-Chlorooctadecane *89.8 %* *42.2-156*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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:	04/14/2020	Sampling Date:	04/14/2020
Reported:	04/15/2020	Sampling Type:	Soil
Project Name:	F-16-4	Sampling Condition:	Cool & Intact
Project Number:	32.426647-103.207744	Sample Received By:	Kelly Jacobson
Project Location:	NEW MEXICO		

Sample ID: WW3 B (H001091-02)

BTEX 8021B mg/L Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/14/2020	ND	1.87	93.7	2.00	9.07	
Toluene*	<0.050	0.050	04/14/2020	ND	1.81	90.4	2.00	9.44	
Ethylbenzene*	<0.050	0.050	04/14/2020	ND	1.82	91.0	2.00	9.28	
Total Xylenes*	<0.150	0.150	04/14/2020	ND	5.25	87.4	6.00	9.52	
Total BTEX	<0.300	0.300	04/14/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID *98.1 %* *58.2-133*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**224**	16.0	04/15/2020	ND	432	108	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/15/2020	ND	202	101	200	4.43	
DRO >C10-C28*	<10.0	10.0	04/15/2020	ND	197	98.3	200	7.99	
EXT DRO >C28-C36	<10.0	10.0	04/15/2020	ND					

Surrogate: 1-Chlorooctane *94.6 %* *44.3-144*

Surrogate: 1-Chlorooctadecane *99.5 %* *42.2-156*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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:	04/14/2020	Sampling Date:	04/14/2020
Reported:	04/15/2020	Sampling Type:	Soil
Project Name:	F-16-4	Sampling Condition:	Cool & Intact
Project Number:	32.426647-103.207744	Sample Received By:	Kelly Jacobson
Project Location:	NEW MEXICO		

Sample ID: ESP (H001091-03)

BTEX 8021B mg/L Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/14/2020	ND	1.87	93.7	2.00	9.07	
Toluene*	<0.050	0.050	04/14/2020	ND	1.81	90.4	2.00	9.44	
Ethylbenzene*	<0.050	0.050	04/14/2020	ND	1.82	91.0	2.00	9.28	
Total Xylenes*	<0.150	0.150	04/14/2020	ND	5.25	87.4	6.00	9.52	
Total BTEX	<0.300	0.300	04/14/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID *99.3 %* *58.2-133*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	04/15/2020	ND	432	108	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/15/2020	ND	202	101	200	4.43	
DRO >C10-C28*	<10.0	10.0	04/15/2020	ND	197	98.3	200	7.99	
EXT DRO >C28-C36	<10.0	10.0	04/15/2020	ND					

Surrogate: 1-Chlorooctane *93.6 %* *44.3-144*

Surrogate: 1-Chlorooctadecane *102 %* *42.2-156*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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:	04/14/2020	Sampling Date:	04/14/2020
Reported:	04/15/2020	Sampling Type:	Soil
Project Name:	F-16-4	Sampling Condition:	Cool & Intact
Project Number:	32.426647-103.207744	Sample Received By:	Kelly Jacobson
Project Location:	NEW MEXICO		

Sample ID: WSP (H001091-04)

BTEX 8021B mg/L Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/14/2020	ND	1.87	93.7	2.00	9.07	
Toluene*	<0.050	0.050	04/14/2020	ND	1.81	90.4	2.00	9.44	
Ethylbenzene*	<0.050	0.050	04/14/2020	ND	1.82	91.0	2.00	9.28	
Total Xylenes*	<0.150	0.150	04/14/2020	ND	5.25	87.4	6.00	9.52	
Total BTEX	<0.300	0.300	04/14/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID *99.3 %* *58.2-133*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	04/15/2020	ND	432	108	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/15/2020	ND	202	101	200	4.43	
DRO >C10-C28*	**145**	10.0	04/15/2020	ND	197	98.3	200	7.99	
EXT DRO >C28-C36	**24.1**	10.0	04/15/2020	ND					

Surrogate: 1-Chlorooctane *96.5 %* *44.3-144*

Surrogate: 1-Chlorooctadecane *101 %* *42.2-156*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Notes and Definitions

QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
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

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:	ETC	**BILL TO**	
Project Manager:	Dean Ericson	P.O. #:	
Address:		Company:	
City:	State: Zip:	Attn:	
Phone #:	Fax #:	Address:	
Project #:	Project Owner:	City:	
Project Name:	F-16-4 - To 4/14/20	State: Zip:	
Project Location:	32.426647 -103.207744	Phone #:	
Sampler Name:	Tyler B.	Fax #:	

FOR LAB USE ONLY				MATRIX						PRESERV.			SAMPLING		ANALYSIS REQUEST										
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	CL	TPH EXT	BTEX								
H001091																									
1	WW1 B	C	1			X							4/14/20	12:10 pm	X	X	X								
2	WW3 B	C	1			X																			
3	ESP																								
4	WSP																								

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 consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:	Date: 4/14/2020 Time: 1555	Received By:	Phone Result: ☐ Yes ☐ No Add'l Phone #:
Relinquished By:	Date: Time:	Received By:	Fax Result: ☐ Yes ☐ No Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other: #113	Sample Condition Cool: ☒ Yes ☐ No Intact: ☐ Yes ☐ No	CHECKED BY: (Initials)	REMARKS: NM Rush!! cc: Joel Lowrey

+ Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

CARDINAL Laboratories

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

April 20, 2020

DEAN ERICSON

ENERGY TRANSFER

P. O. BOX 1226

JAL, NM 88252

RE: F-16-4

Enclosed are the results of analyses for samples received by the laboratory on 04/17/20 9:34.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. 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.

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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,

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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:	04/17/2020	Sampling Date:	04/17/2020
Reported:	04/20/2020	Sampling Type:	Soil
Project Name:	F-16-4	Sampling Condition:	Cool & Intact
Project Number:	32.426647-103.207744	Sample Received By:	Kelly Jacobson
Project Location:	NEW MEXICO		

Sample ID: WW1.C (H001134-01)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/17/2020	ND	1.97	98.7	2.00	4.44	
Toluene*	<0.050	0.050	04/17/2020	ND	2.00	100	2.00	4.55	
Ethylbenzene*	<0.050	0.050	04/17/2020	ND	2.07	104	2.00	4.55	
Total Xylenes*	<0.150	0.150	04/17/2020	ND	6.11	102	6.00	4.72	
Total BTEX	<0.300	0.300	04/17/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID *102 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/17/2020	ND	400	100	400	7.69	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/17/2020	ND	191	95.3	200	0.168	
DRO >C10-C28*	<10.0	10.0	04/17/2020	ND	178	88.8	200	0.871	
EXT DRO >C28-C36	<10.0	10.0	04/17/2020	ND					

Surrogate: 1-Chlorooctane *87.9 %* *44.3-144*

Surrogate: 1-Chlorooctadecane *92.7 %* *42.2-156*

Cardinal Laboratories *=Accredited Analyte

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

CARDINAL Laboratories

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

Notes and Definitions

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

Cardinal Laboratories *=Accredited Analyte

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

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:	ETC
Project Manager:	Dean Ericson
Address:	
City:	State: Zip:
Phone #:	Fax #:
Project #:	Project Owner:
Project Name:	F-16-4
Project Location:	32.426647 -103.207744
Sampler Name:	Tyler B.

BILL TO

P.O. #:	
Company:	
Attn:	
Address:	
City:	
State: Zip:	
Phone #:	
Fax #:	

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	CL	BTEX	TPH 8015
H051134-1	WW1.C	C	1			X							4/17/20	9:00AM	1	1	1

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 consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:	Date: 4/17/2020 Time: 9:34	Received By:	Verbal Result: ☐ Yes ☐ No Add'l Phone #:
Relinquished By:	Date: Time:	Received By:	All Results are emailed. Please provide Email address:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C 3.9 Corrected Temp. °C	Sample Condition Cool: ☒ Yes ☐ No Intact: ☐ Yes ☐ No	CHECKED BY: (Initials) HS

REMARKS: Nm Rush. CC: Joel Lowry

Turnaround Time: Standard ☐ Rush ☑

Bacteria (only) Sample Condition: Cool ☐ Yes ☐ No Intact ☐ Yes ☐ No Observed Temp. °C Corrected Temp. °C

Thermometer ID #97
Correction Factor + 0.4 °C

FORM-006 R 3.0

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

Appendix D
Photographic Log

Photographic Log

Dates: 02/21/2020 - 02/21/2020

Photo Number: #1 **Photo Direction:** Southeast **Photo Description:** Initial Excavation activities	

Photo Number: #2 **Photo Direction:** Southeast **Photo Description:** Initial excavation activities	

Photographic Log

Dates: 04/6/2020 - 04/06/2020

Photo Number: #3 **Photo Direction:** Southeast **Photo Description:** Additional excavation activities	

Photo Number: #4 **Photo Direction:** Southeast **Photo Description:** Additional excavation activities	

Photographic Log

Dates: 04/06/2020 - 04/06/2020

Photo Number: #5 **Photo Direction:** Southeast **Photo Description:** Additional excavation activities	

Photo Number: #6 **Photo Direction:** Southeast **Photo Description:** Additional excavation activities	

Photographic Log

Dates: 04/14/2020 - 04/17/2020

Photo Number: #7 **Photo Direction:** Northwest **Photo Description:** View from southern end across excavation	

Photo Number: #8 **Photo Direction:** Southeast **Photo Description:** View across northern end of excavation	

Photographic Log

Dates: 04/20/2020 - 04/22/2020

Photo Number: #9 **Photo Direction:** Northwest **Photo Description:** Backfilled	

Photo Number: #10 **Photo Direction:** Southeast **Photo Description:** Backfilled