

Incident ID	NRM2009455956
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>~104</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

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

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

Form C-141

Page 4

State of New Mexico
Oil Conservation Division

Incident ID	NRM2009455956
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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 EricsonTitle: Sr. Environmental SpecialistSignature: Date: 7/20/20email: Dean.Ericson@energytransfer.comTelephone: (817) 302-9573**OCD Only**

Received by: _____

Date: _____

Incident ID	NRM2009455956
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Remediation Plan


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

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

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

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

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

Printed Name: Dean Ericson Title: Sr. Environmental Specialist
 Signature:  Date: 7/20/20
 email: Dean.Ericson@energytransfer.com Telephone: (817) 302-9573

OCD Only

Received by: _____ Date: _____

- ☐ Approved
 ☐ Approved with Attached Conditions of Approval
 ☐ Denied
 ☐ Deferral Approved

Signature: _____ Date: _____

Incident ID	NRM2009455956
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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 Ericson

Title: Sr. Environmental Specialist

Signature: 

Date: 7/20/20

email: Dean.Ericson@energytransfer.com

Telephone: (817) 302-9573

OCD Only

Received by: _____

Date: _____

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: _____

Printed Name: _____

Title: _____

Remediation Summary and Deferral Request

ETC Texas Pipeline, Ltd. Jal 4 Compressor Station

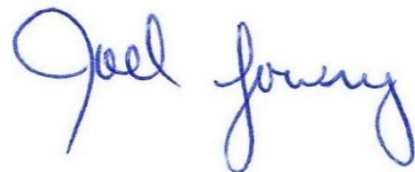
Lea County, New Mexico
Unit Letter P, Section 31, Township 23 South, Range 37 East
Latitude 32.25672 North, Longitude 103.1942 West
NMOCD Reference No. nRM2009455956

Prepared By:

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



Matthew Grieco



Joel W. Lowry



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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 Jal 4 Compressor Station. Details of the release are summarized below:

Location of Release Source

Latitude: 32.25672 Longitude: -103.1942
Provided GPS are in WGS84 format.

Site Name: <u>Jal 4 Compressor Station</u>	Site Type: <u>Pipeline</u>
Date Release Discovered: <u>3/21/2020</u>	API # (if applicable): <u>N/A</u>

Unit Letter	Section	Township	Range	County
P	31	23S	37E	Lea

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (Name ETC Texas Pipeline, Ltd.)

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 checked="" type="checkbox"/> Condensate	Volume Released (bbls) <u>28.05</u>	Volume Recovered (bbls) <u>3</u>
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released	Volume/Weight Recovered

Cause of Release:

The release was attributed to a blowdown from the on-site compressors. It was discovered that the blowdown liquids went to the blowdown scrubber stack and not the condensate tank due to the scrubber not being piped-in correctly. A vacuum truck was dispatched to pick up free-standing liquids.

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.

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?	~104 Ft	
Did the release impact groundwater or surface water?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of any occupied permanent residence, school, hospital, institution or church?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within the incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production or storage site?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> 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
~104 Ft	Chloride	EPA 300.0 or SM4500 Cl B	20000 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 March 30, 2020, Etech conducted an initial site assessment. During the initial site assessment, a series of hand-augered soil bores and/or test trenches were advanced within the release margins in an effort to determine the vertical extent of soil impacts. In addition, hand-augered soil bores and/or test trenches were advanced at the inferred edges of the affected area in an effort to determine the horizontal extent of soil impacts. During the advancement of the hand-augered soil bores, field soil samples were collected and field-screened for the presence of Volatile Organic Compounds utilizing a Photoionization Detector (PID) and/or concentrations of chloride utilizing a Hach Quantab® chloride test kit.

Based on field observations and field test data, twenty-six (26) delineation soil samples (NH 1 @ Surf, NH 1 @ 1', NH 2 @ Surf, NH 2 @ 1', EH 1 @ Surf, EH 1 @ 1', EH 2 @ Surf, EH 2 @ 1', SH 1 @ Surf, SH 1 @ 1', SH 2 @ Surf, SH 2 @ 1', WH 1 @ Surf, WH 1 @ 1', WH 2 @ Surf, WH 2 @ 1', SP 1 @ Surf, SP 1 @ 1', SP 2 @ Surf, SP 2 @ 1', SP 3 @ Surf, SP 3 @ 1', SP 4 @ Surf, SP 4 @ 1', SP 5 @ Surf, and SP 5 @ 1') were submitted to the laboratory for analysis of BTEX, TPH and/or Chloride. Based on laboratory analytical results, soil was not affected above the NMOCD Closure Criteria beyond 1 Ft. bgs with the exception of sample SP1 @ 1', which had a TPH concentration of 5,310 mg/kg. The horizontal extent of affected soil impacted above the NMOCD Closure Criteria was adequately defined with the exception of sample NH 1 @ 1', which had a TPH concentration of 220 mg/kg. Sample locations for soil samples collected during the initial investigation are depicted on Figure 3a – Site & Sample Location Map (Initial Investigation).

On April 2, 2020, Etech revisited the Site. During the site visit, three (3) additional delineation soil samples (NH 1 @ 2', NH 1b @ 1', and SP 1 @ 2' – R) were collected and submitted to the laboratory for analysis of BTEX, TPH and/or chloride. Based on laboratory analytical results, soil was not affected above the NMOCD Closure Criteria beyond 2 Ft. bgs in the area characterized by sample point SP 1 and the horizontal extent of affected soil impacted above the NMOCD Closure Criteria was adequately defined.

Based on the initial site assessment and the delineation soil samples, Etech elected to proceed with the soil remediation at-risk.

On June 25, 2020, remediation activities commenced at the Site. In accordance with the NMOCD, impacted soil affected above the NMOCD Closure Criteria 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.

On June 29, 2020, Etech collected ten (10) excavation confirmation soil samples (FL 1 @ 1', FL 2 @ 2', FL 3 @ 3', FL 4 @ 2', FL 5 @ 2', FL 6 @ 2', EW 1, WW 1, NW 1, and NW 2) from the floor and sidewalls of the excavated area. 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 were below the applicable NMOCD Closure Criteria in each of the submitted soil samples with the exception of WW 1, which had a TPH concentration of 3,140 mg/kg. Impacted soil in the area characterized by soil sample WW 1 was excavated.

On June 30, 2020, Etech collected eight (8) excavation confirmation soil samples (FL 7 @ 2', FL 8 @ 2', FL 9 @ 2', FL 10 @ 2', FL 11 @ 2', FL 12 @ 2', FL 13 @ 2' and FL 14 @ 2') from the floor and sidewalls of the excavated area. 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.

On July 1, 2020, Etech collected eighteen (18) excavation confirmation soil samples (SW 1, SW 2, EW 2, WW 2, FL 15 @ 1', FL 16 @ 1', FL 17 @ 3', FL 18 @ 3', FL 19 @ 3', FL 20 @ 3', FL 21 @ 1', FL 22 @ 1', FL 23 @ 1', FL 24 @ 1', FL 25 @ 1', FL 26 @ 1', FL 27 @ 1' and FL 28 @ 1') from the floor and sidewalls of the excavated area. 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 in each of the submitted soil samples.

On July 7, 2020, excavation activities resumed at the Site. Impacted soil in the area characterized by sample point WW 1 was excavated and transported to an NMOCD-approved surface waste facility for disposal. Upon excavating impacted soil remaining in-situ, Etech collected one (1) additional excavation confirmation soil sample (WW-1b) from the sidewall of the excavated area and submitted it to the laboratory for analysis of TPH concentrations, which were determined to be less than the NMOCD Closure Criteria.

Sample locations for excavation confirmation soil samples are depicted on Figure 3b – Site & Sample Location Map

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 Jal 4 Compressor Station Site.

7.0 DEFERRAL REQUEST

Impacted soil affected above the NMOCD Closure Criteria present underneath and adjacent to permanent foundations and equipment will be remediated in accordance with NMAC 19.15.29.12 and 19.15.29.13 once the location is no longer being used for oil and gas operations.

8.0 LIMITATIONS

Etech Environmental & Safety Solutions, Inc., has prepared this Remediation Summary and Deferral 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..

9.0 DISTRIBUTION

ETC Texas Pipeline, Ltd.

600 N. Marienfeld. St.

Suite 700

Midland, TX 79701

New Mexico Energy, Minerals and Natural Resources Department

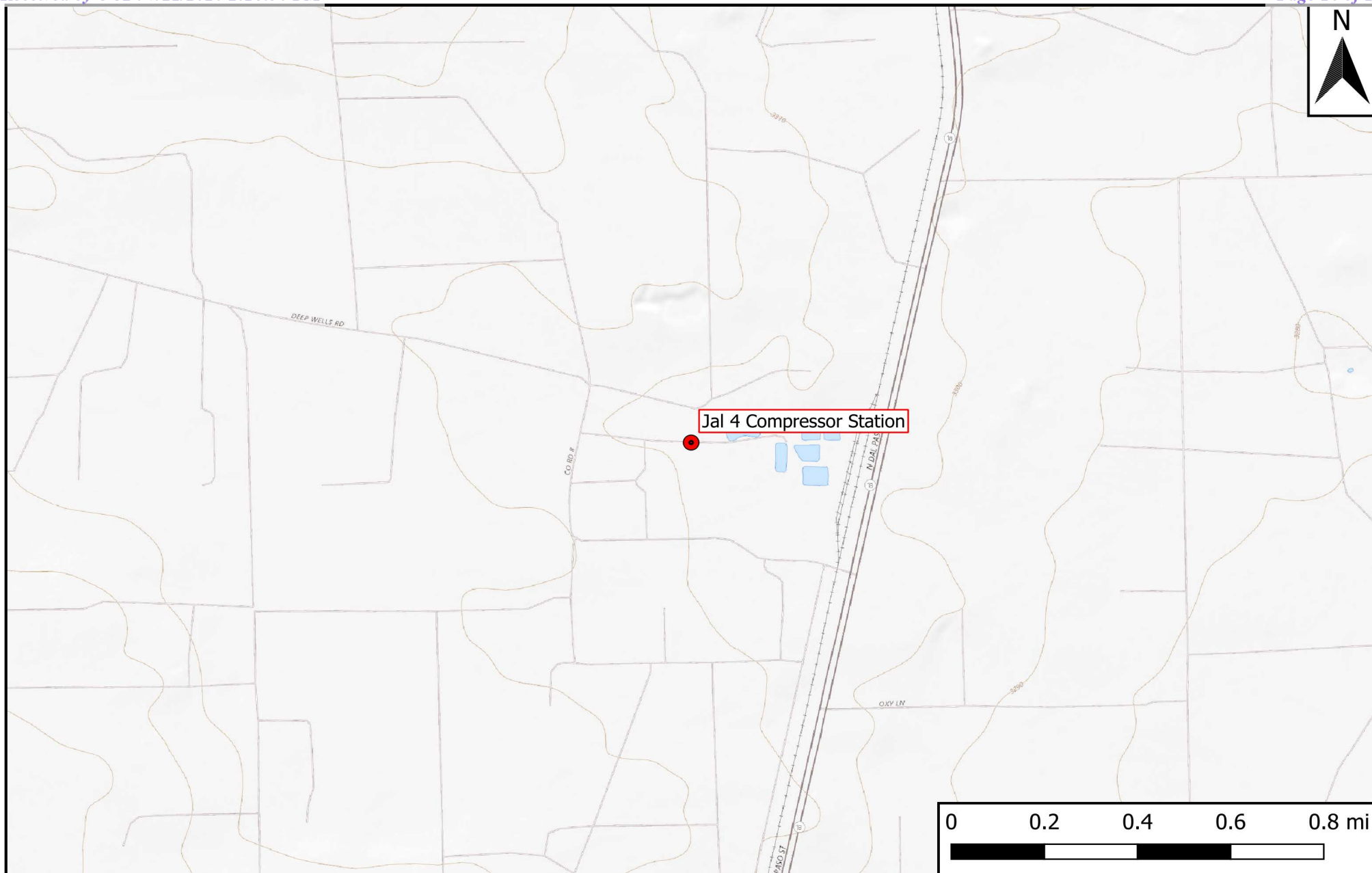
Oil Conservation Division, District 1

1220 South St. Francis Drive

Santa Fe, NM 87505

Figure 1

Topographic Map

**Legend**

- Site Location

Figure 1

Topographic Map
ETC Texas Pipeline, Ltd.
Jal 4 Compressor Station
GPS: 32.25672, -103.1942
Lea County



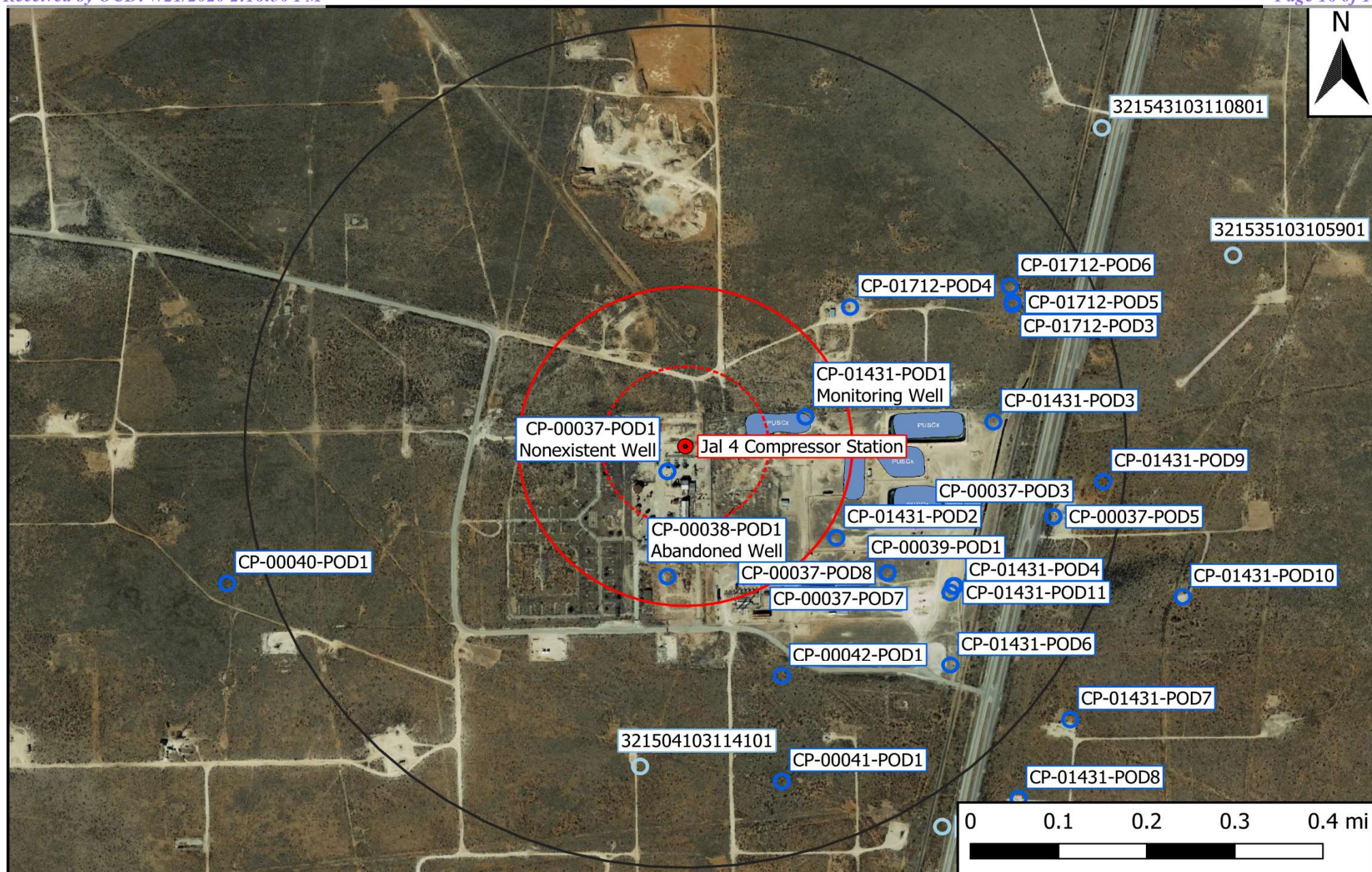
Drafted: mag

Checked: jwl

Date: 4/9/20

Figure 2

Aerial Proximity Map



Legend

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

Figure 2

Aerial Map
ETC Texas Pipeline, Ltd.
Jal 4 Compressor Station
GPS: 32.25672, -103.1942
Lea County



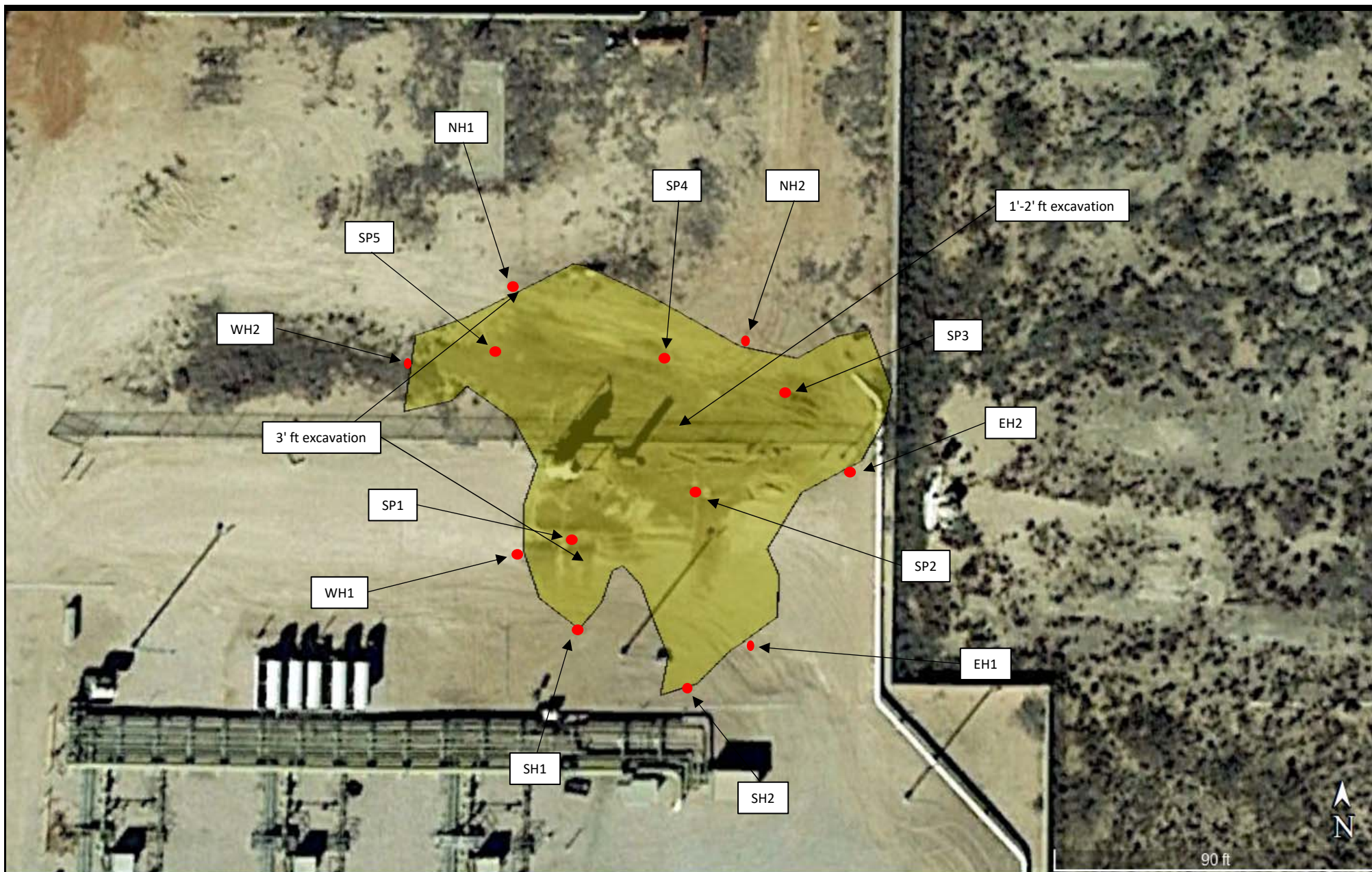
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Date: 7/10/20

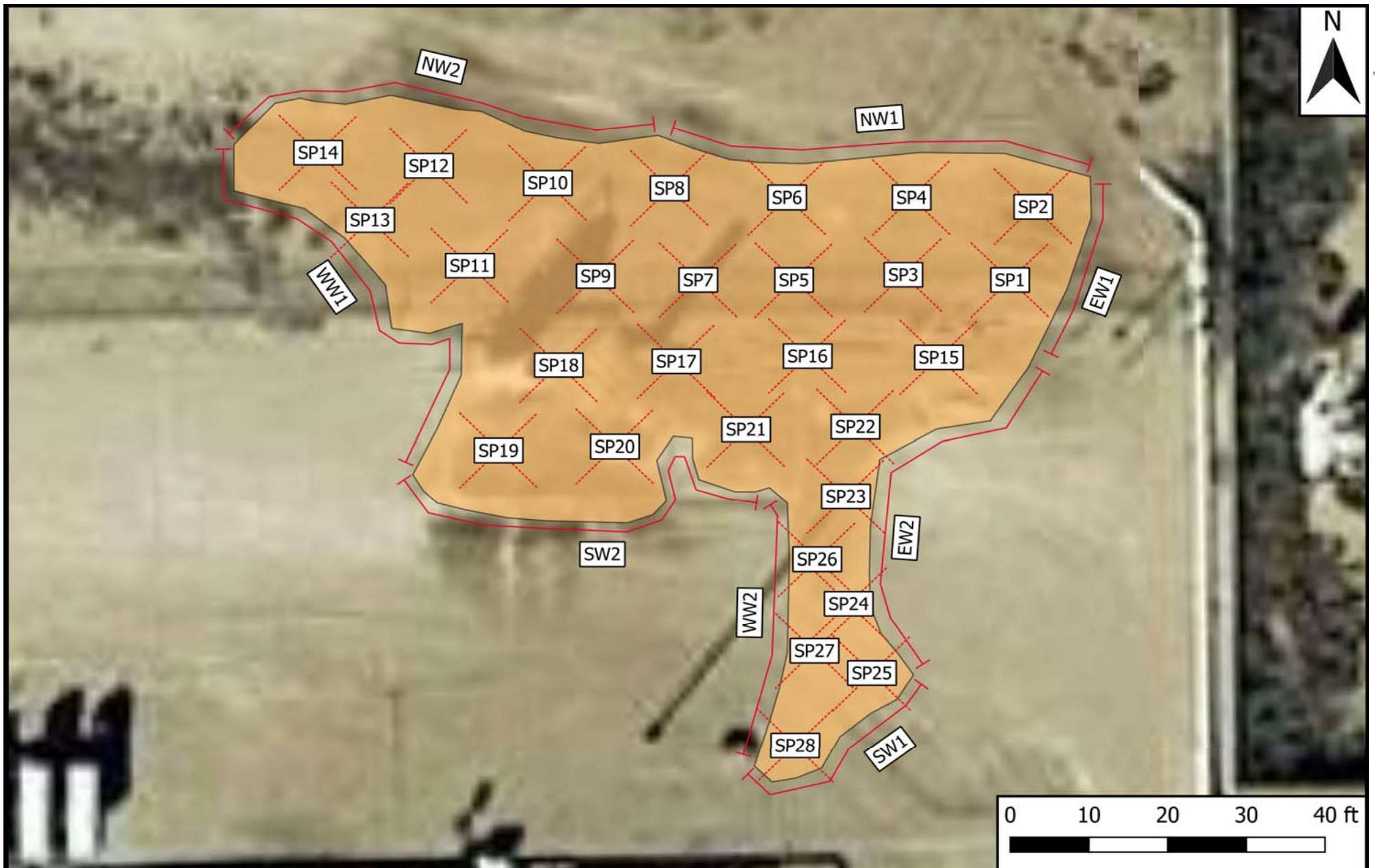
Figure 3

Site and Sample Location Map

**Legend:**

- Pipeline
- Sample Point
- Inferred Release Margins

Figure 3a
Site and Sample Location Map
(Initial Investigation)
Jal 4 Compressor Station
ETC Texas Pipeline, Ltd.
GPS: 32.25672, -103.1942



Legend

- Wall Sample
- X Floor Sample
- Excavation

Figure 3b

Site and Sample Location Map
(Excavation Confirmation)
Jal 4 Compressor Station
GPS: 32.25672, -103.1942
Lea County



Drafted: mag

Checked: jwl

Date: 7/15/20

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.
Jal 4 Compressor Station
NMOCD Ref. #: nRM2009455956

NMOCD Closure Criteria				10	50	-	-	1000	-	2500	20000
Sample ID	Date	Depth	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)
NH 1 @ Surf	3/30/2020	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
NH 1 @ 1'	3/30/2020	1'	In-Situ	<0.050	<0.300	<10.0	99.1	99.1	121	220	32.0
NH 2 @ Surf	3/30/2020	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
NH 2 @ 1'	3/30/2020	1'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
EH 1 @ Surf	3/30/2020	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
EH 1 @ 1'	3/30/2020	1'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
EH 2 @ Surf	3/30/2020	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
EH 2 @ 1'	3/30/2020	1'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SH 1 @ Surf	3/30/2020	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SH 1 @ 1'	3/30/2020	1'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SH 2 @ Surf	3/30/2020	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SH 2 @ 1'	3/30/2020	1'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
WH 1 @ Surf	3/30/2020	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
WH 1 @ 1'	3/30/2020	1'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
WH 2 @ Surf	3/30/2020	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
WH 2 @ 1'	3/30/2020	1'	In-Situ	<0.050	<0.300	<10.0	45.2	45.2	26.9	72.1	<16.0
SP 1 @ Surf	3/30/2020	Surf	Excavated	32.8	327	4,210	2,070	6,280	7,970	14,300	<16.0
SP 1 @ 1'	3/30/2020	1'	Excavated	0.612	9.32	103	1,170	1,270	4,040	5,310	48.0
SP 2 @ Surf	3/30/2020	Surf	Excavated	26.3	467	6,790	1,850	8,640	5,640	14,300	32.0
SP 2 @ 1'	3/30/2020	1'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
SP 3 @ Surf	3/30/2020	Surf	Excavated	<0.050	0.585	<50.0	6,200	6,200	4,780	11,000	80.0
SP 3 @ 1'	3/30/2020	1'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
SP 4 @ Surf	3/30/2020	Surf	Excavated	<0.050	1.00	<50.0	1,450	1,450	4,610	6,060	48.0
SP 4 @ 1'	3/30/2020	1'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
SP 5 @ Surf	3/30/2020	Surf	Excavated	<0.050	<0.300	<10.0	686	686	2,040	2,730	16.0
SP 5 @ 1'	3/30/2020	1'	In-Situ	<0.050	<0.300	<10.0	50.5	50.5	45.4	95.9	<16.0
NH 1 @ 2'	4/2/2020	2'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
NH 1b @ 1'	4/2/2020	1'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SP 1 @ 2' - R	4/2/2020	2' - R	In-Situ	<0.050	1.87	26.6	183	210	579	789	96.0
FL 1 @ 1'	6/29/2020	1'	In-Situ	<0.050	<0.300	<10.0	62.2	62.2	27.2	89.4	48.0
FL 2 @ 2'	6/29/2020	2'	In-Situ	<0.050	<0.300	<10.0	22.7	22.7	111	134	32.0
FL 3 @ 3'	6/29/2020	3'	In-Situ	<0.050	<0.300	<10.0	39.4	39.4	46.8	86.2	16.0
FL 4 @ 2'	6/29/2020	2'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL 5 @ 2'	6/29/2020	2'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 6 @ 2'	6/29/2020	2'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
EW 1	6/29/2020		In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	25.4	25.4	<16.0
WW 1	6/29/2020		Excavated	<0.050	<0.300	12.2	743	755	2,380	3,140	<16.0
NW 1	6/29/2020		In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
NW 2	6/29/2020		In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 7 @ 2'	6/30/2020	2'	In-Situ	<0.050	<0.300	<10.0	303	303	509	812	32.0
FL 8 @ 2'	6/30/2020	2'	In-Situ	<0.050	<0.300	<10.0	383	383	534	917	16.0
FL 9 @ 2'	6/30/2020	2'	In-Situ	<0.050	<0.300	<10.0	658	658	886	1,540	32.0

NOTES:

- = Sample not analyzed for that constituent.

Bold text denotes a concentration that exceeds the NMOCD Closure Criteria

TABLE 1
CONCENTRATIONS OF BENZENE, BTEX, TPH AND CHLORIDE IN SOIL
ETC Texas Pipeline, Ltd.
Jal 4 Compressor Station
NMOCD Ref. #: nRM2009455956

NMOCD Closure Criteria				10	50	-	-	1000	-	2500	20000
Sample ID	Date	Depth	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
FL 10 @ 2'	6/30/2020	2'	In-Situ	<0.050	<0.300	<10.0	705	705	973	1,680	32.0
FL 11 @ 2'	6/30/2020	2'	In-Situ	<0.050	<0.300	<10.0	659	659	867	1,530	32.0
FL 12 @ 2'	6/30/2020	2'	In-Situ	<0.050	<0.300	<10.0	621	621	823	1,440	16.0
FL 13 @ 2'	6/30/2020	2'	In-Situ	<0.050	<0.300	<10.0	506	506	739	1,250	16.0
FL 14 @ 2'	6/30/2020	2'	In-Situ	<0.050	<0.300	<10.0	561	561	798	1,360	48.0
SW 1	7/1/2020		In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SW 2	7/1/2020		In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
EW 2	7/1/2020		In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
WW 2	7/1/2020		In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL 15 @ 1'	7/1/2020	1'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL 16 @ 1'	7/1/2020	1'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL 17 @ 3'	7/1/2020	3'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL 18 @ 3'	7/1/2020	3'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 19 @ 3'	7/1/2020	3'	In-Situ	<0.050	<0.300	<10.0	73.3	73.3	373	446	16.0
FL 20 @ 3'	7/1/2020	3'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	25.0	25.0	16.0
FL 21 @ 1'	7/1/2020	1'	In-Situ	<0.050	<0.300	<10.0	12.6	12.6	47.1	59.7	<16.0
FL 22 @ 1'	7/1/2020	1'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL 23 @ 1'	7/1/2020	1'	In-Situ	<0.050	<0.300	<10.0	100	100	506	606	80.0
FL 24 @ 1'	7/1/2020	1'	In-Situ	<0.050	<0.300	<10.0	86.4	86.4	413	499	80.0
FL 25 @ 1'	7/1/2020	1'	In-Situ	<0.050	<0.300	<10.0	48.7	48.7	288	337	80.0
FL 26 @ 1'	7/1/2020	1'	In-Situ	<0.050	<0.300	<10.0	85.9	85.9	409	495	96.0
FL 27 @ 1'	7/1/2020	1'	In-Situ	<0.050	<0.300	<10.0	50.4	50.4	256	306	80.0
FL 28 @ 1'	7/1/2020	1'	In-Situ	<0.050	<0.300	<10.0	82.8	82.8	395	478	80.0
WW - 1B	7/7/2020		In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	-

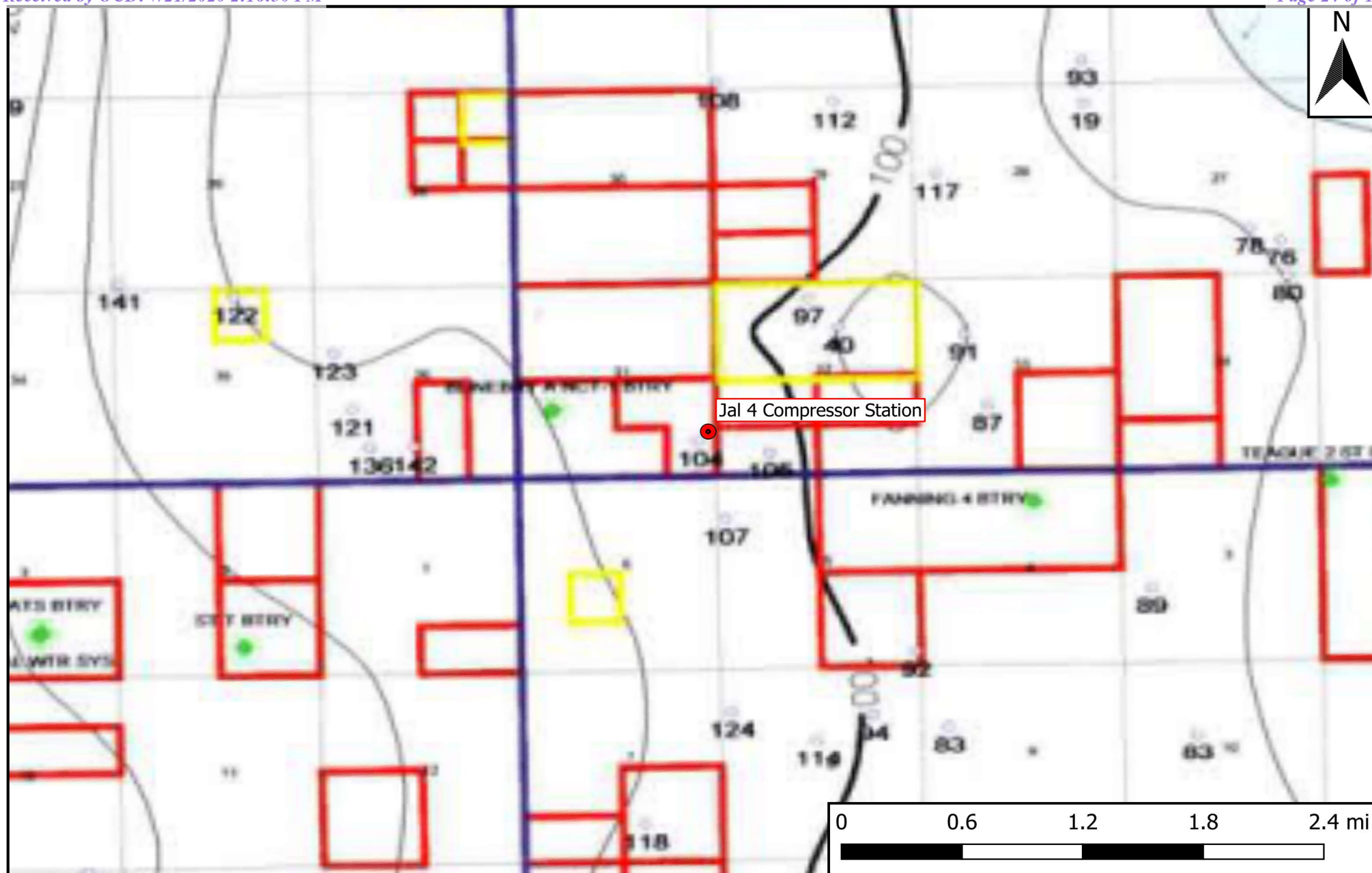
NOTES:

- = Sample not analyzed for that constituent.

Bold text denotes a concentration that exceeds the NMOCD Closure Criteria

Appendix A

Depth to Groundwater Information



Legend

● Site Location

Figure 5

Inferred Depth to Groundwater Trend Map
ETC Texas Pipeline, Ltd.
Jal 4 Compressor Station
GPS: 32.25672, -103.1942
Lea County

eTECH
Environmental & Safety Solutions, Inc.

Drafted: mag

Checked: jwl

Date: 7/10/20



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	Tw	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
CP 00037 POD1		CP	LE	2	4	4	31	23S	37E	670070	3570275*	57	173	118	55
CP 01431 POD1		CP	LE	3	1	3	32	23S	37E	670322	3570379	226	179	110	69
CP 00038 POD1		CP	LE	4	4	4	31	23S	37E	670070	3570075*	249	180	124	56
Average Depth to Water:														117 feet	
Minimum Depth:														110 feet	
Maximum Depth:														124 feet	

Record Count: 3

UTMNAD83 Radius Search (in meters):

Easting (X): 670102.71

Northing (Y): 3570322.7

Radius: 304.8

*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.

4/9/20 1:29 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER



New Mexico Office of the State Engineer

Transaction Summary

DCL Declaration of a Water Right

Transaction Number: 592571

Transaction Desc: CP 00037

File Date: 11/17/1953

Primary Status: DCL Declared

Secondary Status: LOG Well Log Received

Person Assigned: *****

Applicant: EL PASO NATURAL GAS COMPANY

Events

	Date	Type	Description	Comment	Processed By
	11/17/1953	APP	Application Received	*	*****
	11/17/1953	FTN	Finalize non-published Trans.		*****
	11/17/1953	LOG	Well Log Received	*	*****
	09/21/2016	TEC	Technical Report	*FILE JACKETS	*****
	11/08/2016	CAP	Change Abstract to In-process		*****
	12/27/2016	QAT	Quality Assurance Completed	DATA/SQ2	*****
	03/28/2017	QAT	Quality Assurance Completed	IMAGE	*****
	12/08/2017	QAT	Quality Assurance Completed	IMAGES	*****

Water Right Information

WR File Nbr	Acres	Diversion	Consumptive	Purpose of Use
CP 00037	0	0		PPP PETROLEUM PROCESSING PLANT

**Point of Diversion

CP 00037 POD1 670070 3570275*

An () after northing value indicates UTM location was derived from PLSS - see Help

**Place of Use

Q	Q	Q	Q	Sec	Tws	Rng	Acres	Diversion	Consumptive	Use	Priority	Status	Other	Loc	Desc
256	64	16	4				0	0		PPP	09/05/1951	DCL		NO PLACE OF	USE GIVEN

Remarks

MISCELLANEOUS FILE #13-18 HAS BEEN RENUMBERED TO OSE FILE # CP-00037.

ABSTRACTOR'S NOTE: THE DECLARATION IS IN GPM AND HAS NOT BEEN VALIDATED.

ABSTRACTOR NOTE: WELL WAS ABANDONED IN 1968.

Conditions

- 5B A totalizing meter shall be installed before the first branch of the discharge line from the well and the installation shall be acceptable to the State Engineer; the Engineer shall be advised of the make, model, serial number, date of installation, and initial reading of the meter prior to appropriation of water; pumping records shall be submitted to the District Supervisor on or before the 10th of Jan., April, July, and Oct. of each year for the 3 preceding calendar months.



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 00037	POD1	2 4 4 31 23S 37E	670070	3570275*



x

Driller License: **Driller Company:**

Driller Name: ROBERTS DRILLING COMPANY

Drill Start Date: 08/25/1951

Drill Finish Date: 01/15/1952

Plug Date:

Log File Date: 11/17/1953

PCW Rcv Date:

Source: Shallow

Pump Type:

Pipe Discharge Size:

Estimated Yield:

Casing Size: 12.50

Depth Well: 173 feet

Depth Water: 118 feet

x

Water Bearing Stratifications:

Top Bottom Description

115 171 Sandstone/Gravel/Conglomerate

x

Casing Perforations:

Top Bottom

120 160

x

*UTM location was derived from PLSS - see Help

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7/13/20 10:20 AM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
CP 01431	POD1	3	1	3	32	23S	37E	670322	3570379

x

Driller License: 1456 **Driller Company:** WHITE DRILLING COMPANY

Driller Name: JOHN W WHITE

Drill Start Date: 10/13/2014

Drill Finish Date: 10/13/2014

Plug Date:

Log File Date: 11/07/2014

PCW Rcv Date:

Source: Shallow

Pump Type:

Pipe Discharge Size:

Estimated Yield:

Casing Size: 4.00

Depth Well: 179 feet

Depth Water: 110 feet

x

Water Bearing Stratifications:

Top Bottom Description

171 173 Sandstone/Gravel/Conglomerate

173 175 Sandstone/Gravel/Conglomerate

175 179 Shale/Mudstone/Siltstone

x

Casing Perforations:

Top Bottom

156 176

x

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7/13/20 10:21 AM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag	POD Number	Q64 Q16 Q4 Sec Tws Rng	X	Y
CP 00038	POD1	4 4 4 31 23S 37E	670070	3570075*



x

Driller License:**Driller Company:****Driller Name:** ROBERTS DRILLING CO.**Drill Start Date:** 10/24/1951**Drill Finish Date:** 12/01/1951**Plug Date:****Log File Date:** 11/17/1953**PCW Rcv Date:****Source:** Shallow**Pump Type:****Pipe Discharge Size:****Estimated Yield:****Casing Size:** 12.50**Depth Well:** 180 feet**Depth Water:** 124 feet

x

Water Bearing Stratifications:**Top Bottom Description**

133 172 Sandstone/Gravel/Conglomerate

x

Casing Perforations:**Top Bottom**

133 172

x

*UTM location was derived from PLSS - see Help

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7/13/20 10:21 AM

POINT OF DIVERSION SUMMARY



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 00037 POD1		CP	LE	2	4	4	31	23S	37E	670070	3570275*	57	173	118	55
CP 01431 POD1		CP	LE	3	1	3	32	23S	37E	670322	3570379	226	179	110	69
CP 00038 POD1		CP	LE	4	4	4	31	23S	37E	670070	3570075*	249	180	124	56
CP 01431 POD2		CP	LE	3	3	3	32	23S	37E	670378	3570148	325	176	109	67
CP 01712 POD4		CP	LE	4	1	3	32	23S	37E	670404	3570587	400	174	108	66
CP 00037 POD7		CP	LE	4	3	3	32	23S	37E	670472	3570082*	440	161		
CP 00037 POD8		CP	LE	4	3	3	32	23S	37E	670472	3570082*	440	138		
CP 00039 POD1		CP	LE	4	3	3	32	23S	37E	670472	3570082*	440	175	110	65
CP 00042 POD1		CP	LE	1	1	1	05	24S	37E	670279	3569885*	471	173	111	62
CP 01431 POD5		CP	LE	3	4	3	32	23S	37E	670592	3570057	556	174	109	65
CP 01431 POD11		CP	LE	3	4	3	32	23S	37E	670587	3570044	558	173	108	65
CP 01431 POD4		CP	LE	3	4	3	32	23S	37E	670595	3570057	559	120	107	13
CP 01431 POD3		CP	LE	1	4	3	32	23S	37E	670665	3570369	564	180	108	72
CP 01431 POD6		CP	LE	1	2	1	05	24S	37E	670587	3569906	638	118	106	12
CP 01712 POD3		CP	LE	4	1	3	32	23S	37E	670700	3570592	655	128	108	20
CP 01712 POD5		CP	LE	1	2	3	32	23S	37E	670700	3570597	657	125	106	19
CP 00041 POD1		CP	LE	3	1	1	05	24S	37E	670279	3569685*	661	182	114	68
CP 01712 POD6		CP	LE	1	4	3	32	23S	37E	670695	3570627	666	173	106	67
CP 00037 POD3		CP	LE		4	3	32	23S	37E	670775	3570189*	685	179	106	73
CP 00037 POD5	R	CP	LE		4	3	32	23S	37E	670775	3570189*	685	153		
CP 01431 POD9		CP	LE	2	4	3	32	23S	37E	670866	3570255	766	189	111	78

Average Depth to Water: **109 feet**

Minimum Depth: **106 feet**

Maximum Depth: **124 feet**

Record Count: 21

UTM NAD83 Radius Search (in meters):

Easting (X): 670102.71

Northing (Y): 3570322.7

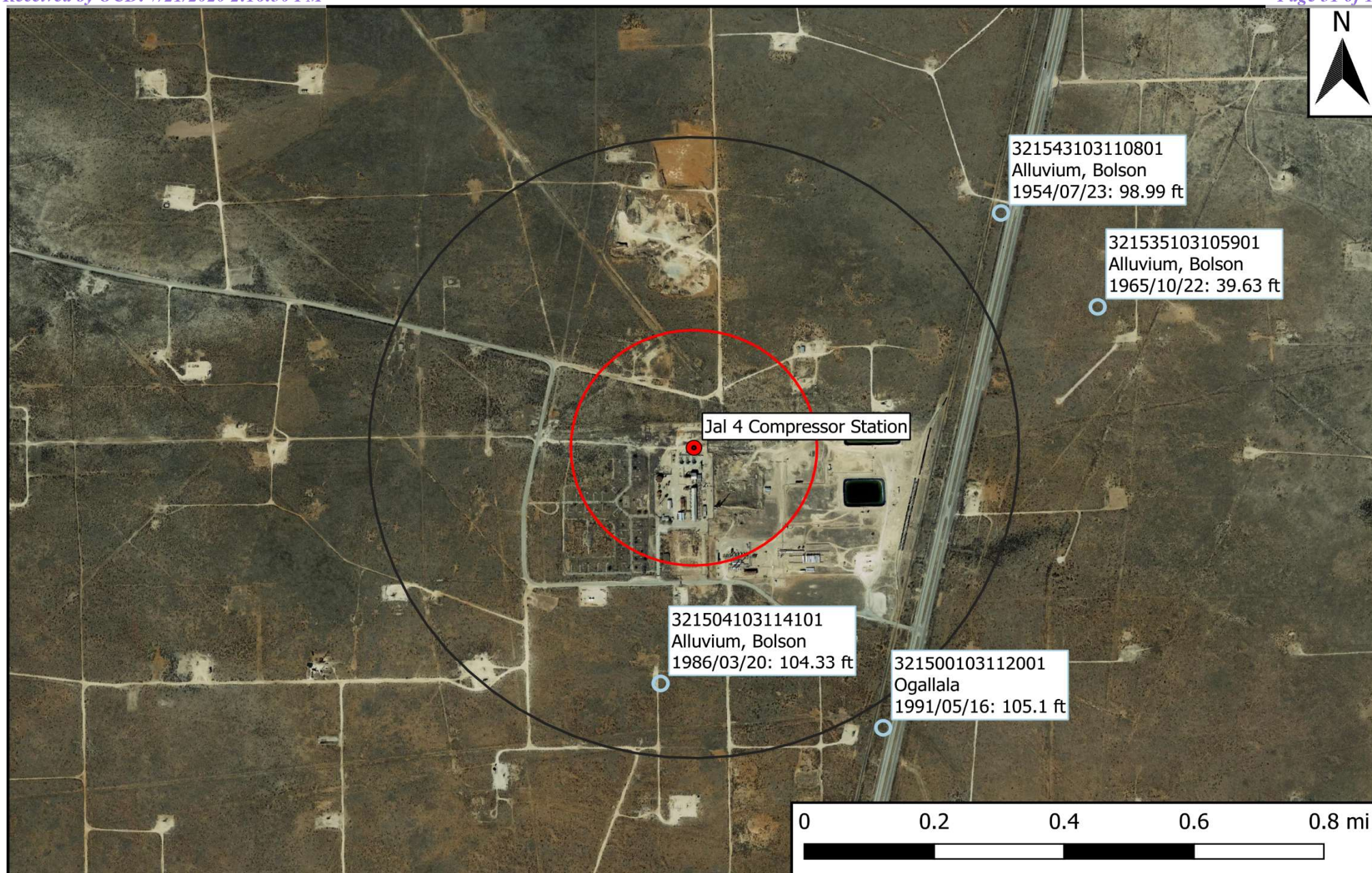
Radius: 804.67

*UTM location was derived from PLSS - see Help

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4/9/20 1:28 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER



Legend

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

Figure 6

USGS Well Proximity Map
ETC Texas Pipeline, Ltd.
Jal 4 Compressor Station
GPS: 32.25672, -103.1942
Lea County



Drafted: amg

Checked: jwl

Date: 7/10/20



National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater

Geographic Area:

United States

GO

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- **Notice** - The USGS Water Resources Mission Area's priority is to maintain the safety and well-being of our communities, including providing critical situational awareness in times of flooding in all 50 U.S. states and additional territories. Our hydrologic monitoring stations continue to send data in near real-time to NWISWeb, and we are continuing critical water monitoring activities to protect life and property on a case-by-case basis. The health and safety of the public and our employees are our highest priorities, and we continue to follow guidance from the White House, the CDC, and state and local authorities.

• [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 =

• 321543103110801

Minimum number of levels = 1
[Save file of selected sites](#) to local disk for future upload

USGS 321543103110801 23S.37E.32.12240

Lea County, New Mexico
Latitude 32°15'43", Longitude 103°11'08" NAD27
Land-surface elevation 3,303 feet above NAVD88
The depth of the well is 125 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

Date	Time	? Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water-level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>
1954-07-23		D	98.99			2		U		U	A

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status		The reported water-level measurement represents a static level
Method of measurement	U	Unknown method.
Measuring agency		Not determined
Source of measurement	U	Source is unknown.
Water-level approval status	A	Approved for publication -- Processing and review completed.





National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater

Geographic Area:

United States

GO

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- [Full News](#)

Groundwater levels for the Nation

Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 321535103105901

Minimum number of levels = 1
[Save file of selected sites](#) to local disk for future upload

USGS 321535103105901 23S.37E.32.213444

Lea County, New Mexico
Latitude 32°15'35", Longitude 103°10'59" NAD27
Land-surface elevation 3,299 feet above NAVD88
The depth of the well is 100 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

Date	Time	? Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water-level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1965-10-22		D	39.63			2		U		U	A

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status		The reported water-level measurement represents a static level
Method of measurement	U	Unknown method.
Measuring agency		Not determined
Source of measurement	U	Source is unknown.
Water-level approval status	A	Approved for publication -- Processing and review completed.





National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater

Geographic Area:

United States

GO

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- Notice** - The USGS Water Resources Mission Area's priority is to maintain the safety and well-being of our communities, including providing critical situational awareness in times of flooding in all 50 U.S. states and additional territories. Our hydrologic monitoring stations continue to send data in near real-time to NWISWeb, and we are continuing critical water monitoring activities to protect life and property on a case-by-case basis. The health and safety of the public and our employees are our highest priorities, and we continue to follow guidance from the White House, the CDC, and state and local authorities.
- [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 =

- 321504103114101

Minimum number of levels = 1
[Save file of selected sites](#) to local disk for future upload

USGS 321504103114101 23S.37E.31.442321

Lea County, New Mexico
Latitude 32°15'04", Longitude 103°11'41" NAD27
Land-surface elevation 3,312 feet above NAVD88
The depth of the well is 173 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

Date	Time	? Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water-level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1965-10-20		D	103.56			2		U		U	A
1968-02-29		D	102.70			2		U		U	A
1970-12-15		D	100.97			2		U		U	A
1976-01-20		D	101.90			2		U		U	A
1981-03-25		D	101.50			2		U		U	A
1986-03-20		D	104.33			2		U		U	A

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status		The reported water-level measurement represents a static level
Method of measurement	U	Unknown method.
Measuring agency		Not determined
Source of measurement	U	Source is unknown.
Water-level approval status	A	Approved for publication -- Processing and review completed.

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[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)

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: 2020-04-09 15:22:17 EDT

0.28 0.26 nadww02



National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater

Geographic Area:

United States

GO

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- **Notice** - The USGS Water Resources Mission Area's priority is to maintain the safety and well-being of our communities, including providing critical situational awareness in times of flooding in all 50 U.S. states and additional territories. Our hydrologic monitoring stations continue to send data in near real-time to NWISWeb, and we are continuing critical water monitoring activities to protect life and property on a case-by-case basis. The health and safety of the public and our employees are our highest priorities, and we continue to follow guidance from the White House, the CDC, and state and local authorities.
- [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 =

- 321500103112001

Minimum number of levels = 1
[Save file of selected sites](#) to local disk for future upload

USGS 321500103112001 23S.37E.32.343110

Lea County, New Mexico
Latitude 32°15'00", Longitude 103°11'20" NAD27
Land-surface elevation 3,306 feet above NAVD88
The depth of the well is 175 feet below land surface.
This well is completed in the Ogallala Formation (121OGLL) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water-level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1976-01-20		D	90.87			2		U		U	A
1991-05-16		D	105.10			2		U		U	A

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status		The reported water-level measurement represents a static level
Method of measurement	U	Unknown method.
Measuring agency		Not determined
Source of measurement	U	Source is unknown.
Water-level approval status	A	Approved for publication -- Processing and review completed.

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Title: Groundwater for USA: Water Levels

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



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

Page Last Modified: 2020-04-09 15:22:15 EDT

0.26 0.24 nadww02

Appendix B

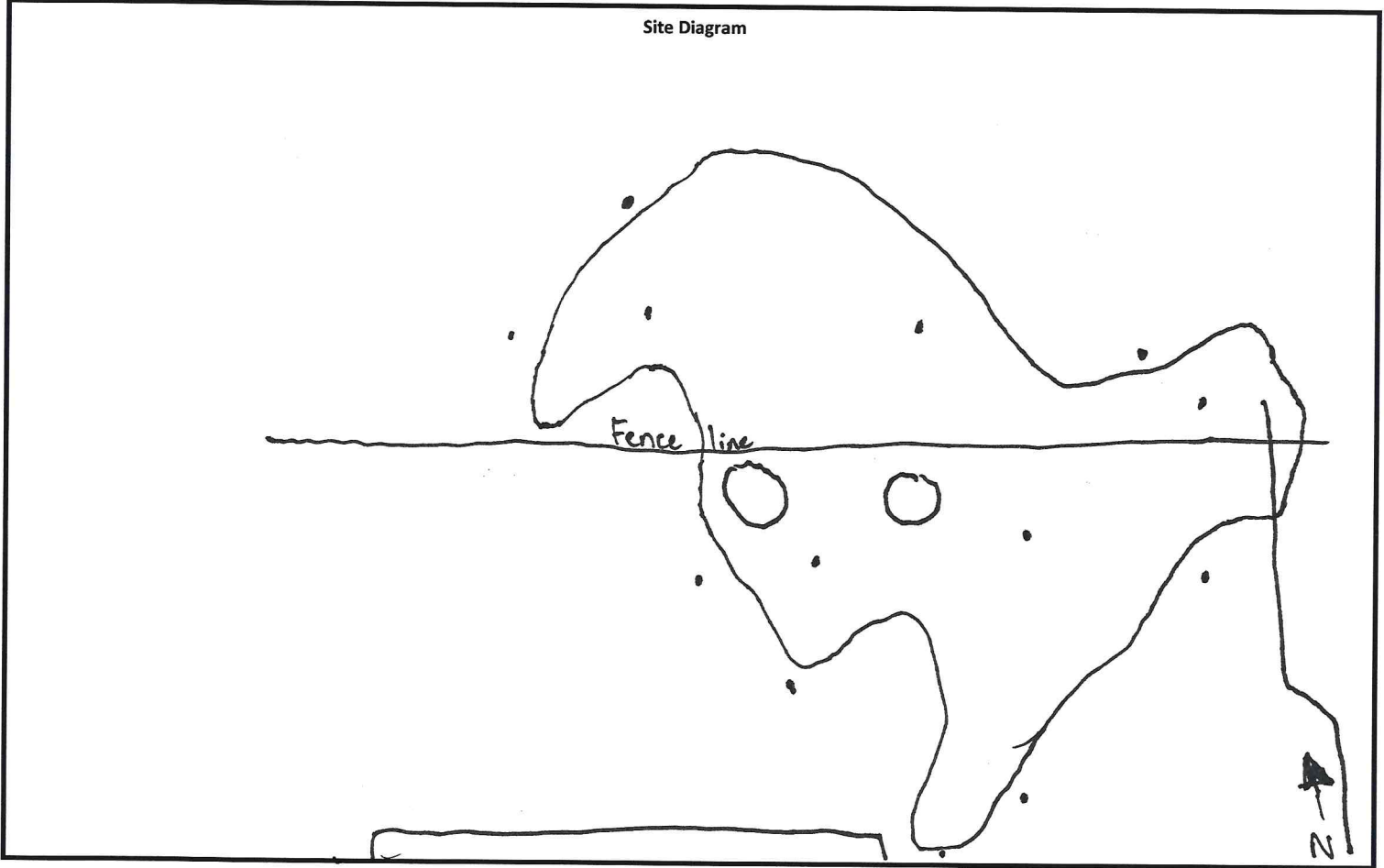
Field Data and Soil Profile Logs



Initial Release Assessment Form

Project: Jal 4 Compressor Station Date: 3.30.20
 Project Number: 12242 Clean Up Level: 0
 Latitude: 32.25672 Longitude: -103.1942

Site Diagram



Notes:

Top stained dark

~Length: 25' ~Width: 20' ~Area: ~Depth: 1'

3-4 Representative Pictures of the Affected Area including sample locations?

Yes No

Necessary Samples Field Screened and on Ice?



Sample and Field Screen Data Entered on Sample Log?



Was horizontal and vertical delineation achieved?



Refused



Sample Log

Project: Tal 4 compressor Date: 3.30.20
 Project Number: 72242 Latitude: 37.25672 Longitude: -103.1947

Sample ID	PID/Odor	Chloride Conc.	GPS
NH1@surface	none	7124	
NH1@1'	none	124	
NH2@surface	none	7124	
NH2@1'	none	196	
EH1@surface	none	168	
EH1@1'	none	168	
EH2@surface	none	312	
EH2@1'	none	124	
SH1@surface	none	124	
SH1@1'	none	124	
SH2@surface	none	7124	
SH2@1'	none	168	
WH1@surface	none	312	
WH1@1'	none	196	
WH2@surface	none	196	
WH2@1'	none	7124	
SP1@surface	Strong	7124	
SP1@1'	none	7124	
SP2@surface	light	96	
SP2@1'	none	7124	
SP3@surface	none	7124	
SP3@1'	none	348	
SP4@surface	none	7124	
SP4@1'	none	7124	
SP5@surface	none	7124	
SP5@1'	none	7124	
4.2.20		4.2.20	4.2.20
NH1@2'	none	7124	
NH1b@1'	none	168	
SP1@2'-R	Slight	196	
SP1@2'			

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



Soil Profile

Date: 3.30.20

Project: Jal 4 Compressor Station

Project Number: 12242 Latitude: 32.25672 Longitude: -103.1942

Depth (ft. bgs)

Description

1	Caliche Pav
2	Red soil
3	
4	
5	
6	
7	
8	
9	
10	
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37	
38	
39	
40	

Remediation Log

Haul

Project: Jal 4 Compressor StationProject Number: 12242Latitude: 32.25672Longitude: -103.1942

Confirmation of Active One Call? One Call No. _____

Yes

No

☐☐

Confirmation of On-Site JSA?

☐☐

Date:

Notes

Yds

****Begin Remediation Activities****

Out

In

6-24-20

Excavated & Stockpiled 70 Yards - Samples

6-26-20

Hydro Vac - Stockpiled 50 Yards - Samples

6-29-20

Continue Excavating on Northside - Spot dig - Stockpile

6-30-20

Continue Excavating on Stockpile

7-1-20

Finish Excavating & Stockpile - Begin Haul out

200

7-2-20

Haul out - ~~Backfill~~

170

7-6-20

~~Backfill~~ haul out - Backfill

60

7/7/20

haul out and stockpile

200

7/8/20

haul out and Backfill

100

7/9/20

Backfill

****Begin Backfill Activities****

****Complete Remediation Activities****

Total Yds

Out

In

Yes

No

☐☐

Pictures of Open Excavation Prior to Backfill

Relevant Information in Project Tracker?

☐☐

Sample Log

Date: 6.29.20

Project: Jul 4 compressor station

Project Number: 12242

Latitude: 32.25672

Longitude: -103.1942

Sample ID	PID/Odor	Chloride Conc.	GPS
FL1 @ 1'	None	-	
FL2 @ 2'	None	-	
FL3 @ 3'	None	-	
FL4 @ 2'	None	-	
FL5 @ 2'	None	-	
FL6 @ 2'	None	-	
NW1	None	-	
NW2	None	-	
EW1	None	-	
WW1	None	-	
FL7 @ 2'	None	-	
FL8 @ 2'	None	-	
FL9 @ 2'	None	-	
FL10 @ 2'	None	-	
FL11 @ 2'	None	-	
FL12 @ 2'	None	-	
FL13 @ 2'	None	-	
FL14 @ 2'	None	-	
FL15 @ 1'	None	-	
FL16 @ 1'	None	-	
FL17 @ 3'	None	-	
FL18 @ 3'	None	-	
FL19 @ 3'	None	-	
FL20 @ 3'	None	-	
FL21 @ 1'	None	-	
FL22 @ 1'	None	-	
FL23 @ 1'	None	-	
FL24 @ 1'	None	-	
FL25 @ 1'	None	-	
FL26 @ 1'	None	-	
FL27 @ 1'	None	-	
FL28 @ 1'	None	-	
SW1	None	-	
SW2	None	-	
WW2	None	-	
EW2	None	-	

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

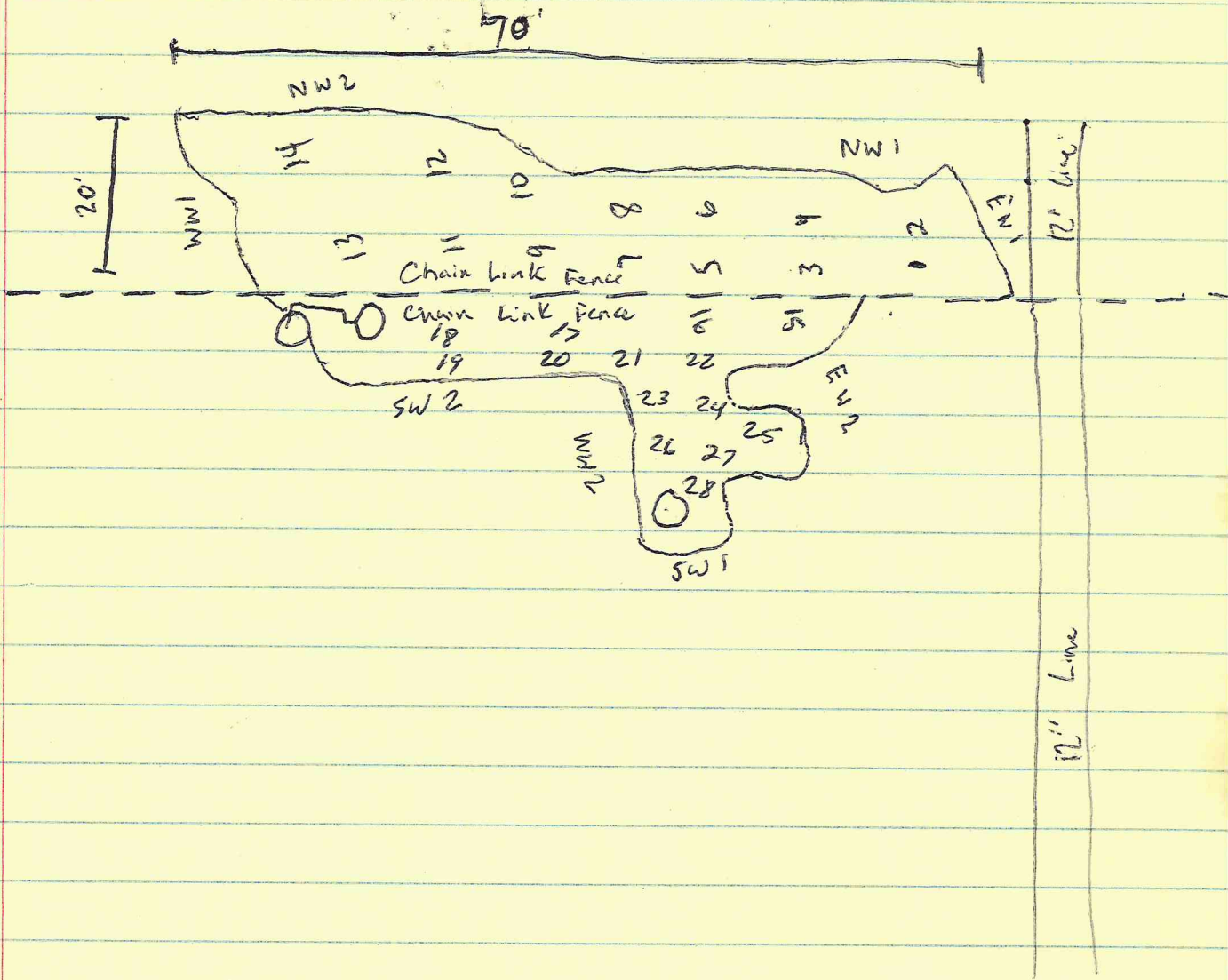
Resamples = SP #1 @ 5b or SW #1b

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas



Jal 4 Compressor Station



Appendix C

Laboratory Analytical Reports



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

April 01, 2020

JOEL LOWRY

Etech Environmental & Safety Solutions

P.O. Box 301

Lovington, NM 88260

RE: JAL 4 COMPRESSOR STATION

Enclosed are the results of analyses for samples received by the laboratory on 03/30/20 13:35.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/30/2020	Sampling Date:	03/30/2020
Reported:	04/01/2020	Sampling Type:	Soil
Project Name:	JAL 4 COMPRESSOR STATION	Sampling Condition:	Cool & Intact
Project Number:	12242	Sample Received By:	Kelly Jacobson
Project Location:	ETC - LEA CO NM		

Sample ID: SH 2 @ SURFACE (H000948-01)

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	03/31/2020	ND	1.88	94.1	2.00	9.77	
Toluene*	<0.050	0.050	03/31/2020	ND	1.89	94.4	2.00	9.89	
Ethylbenzene*	<0.050	0.050	03/31/2020	ND	1.88	93.9	2.00	10.8	
Total Xylenes*	<0.150	0.150	03/31/2020	ND	5.41	90.2	6.00	11.0	
Total BTX	<0.300	0.300	03/31/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	03/31/2020	ND	432	108	400	7.14	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/31/2020	ND	210	105	200	0.315	
DRO >C10-C28*	<10.0	10.0	03/31/2020	ND	208	104	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	03/31/2020	ND					

Surrogate: 1-Chlorooctane 86.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 93.7 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/30/2020	Sampling Date:	03/30/2020
Reported:	04/01/2020	Sampling Type:	Soil
Project Name:	JAL 4 COMPRESSOR STATION	Sampling Condition:	Cool & Intact
Project Number:	12242	Sample Received By:	Kelly Jacobson
Project Location:	ETC - LEA CO NM		

Sample ID: SH 2 @ 1' (H000948-02)

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	03/31/2020	ND	1.88	94.1	2.00	9.77		
Toluene*	<0.050	0.050	03/31/2020	ND	1.89	94.4	2.00	9.89		
Ethylbenzene*	<0.050	0.050	03/31/2020	ND	1.88	93.9	2.00	10.8		
Total Xylenes*	<0.150	0.150	03/31/2020	ND	5.41	90.2	6.00	11.0		
Total BTEX	<0.300	0.300	03/31/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	03/31/2020	ND	432	108	400	7.14		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/31/2020	ND	210	105	200	0.315	
DRO >C10-C28*	<10.0	10.0	03/31/2020	ND	208	104	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	03/31/2020	ND					

Surrogate: 1-Chlorooctane 97.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 104 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/30/2020	Sampling Date:	03/30/2020
Reported:	04/01/2020	Sampling Type:	Soil
Project Name:	JAL 4 COMPRESSOR STATION	Sampling Condition:	Cool & Intact
Project Number:	12242	Sample Received By:	Kelly Jacobson
Project Location:	ETC - LEA CO NM		

Sample ID: WH 1 @ SURFACE (H000948-03)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/31/2020	ND	1.88	94.1	2.00	9.77		
Toluene*	<0.050	0.050	03/31/2020	ND	1.89	94.4	2.00	9.89		
Ethylbenzene*	<0.050	0.050	03/31/2020	ND	1.88	93.9	2.00	10.8		
Total Xylenes*	<0.150	0.150	03/31/2020	ND	5.41	90.2	6.00	11.0		
Total BTX	<0.300	0.300	03/31/2020	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	03/31/2020	ND	432	108	400	7.14	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/31/2020	ND	210	105	200	0.315	
DRO >C10-C28*	<10.0	10.0	03/31/2020	ND	208	104	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	03/31/2020	ND					

Surrogate: 1-Chlorooctane 105 % 44.3-144

Surrogate: 1-Chlorooctadecane 112 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/30/2020	Sampling Date:	03/30/2020
Reported:	04/01/2020	Sampling Type:	Soil
Project Name:	JAL 4 COMPRESSOR STATION	Sampling Condition:	Cool & Intact
Project Number:	12242	Sample Received By:	Kelly Jacobson
Project Location:	ETC - LEA CO NM		

Sample ID: WH 1 @ 1' (H000948-04)

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	03/31/2020	ND	1.88	94.1	2.00	9.77		
Toluene*	<0.050	0.050	03/31/2020	ND	1.89	94.4	2.00	9.89		
Ethylbenzene*	<0.050	0.050	03/31/2020	ND	1.88	93.9	2.00	10.8		
Total Xylenes*	<0.150	0.150	03/31/2020	ND	5.41	90.2	6.00	11.0		
Total BTX	<0.300	0.300	03/31/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	03/31/2020	ND	432	108	400	7.14	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/31/2020	ND	210	105	200	0.315	
DRO >C10-C28*	<10.0	10.0	03/31/2020	ND	208	104	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	03/31/2020	ND					

Surrogate: 1-Chlorooctane 102 % 44.3-144

Surrogate: 1-Chlorooctadecane 108 % 42.2-156

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Analytical Results For:

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

Received:	03/30/2020	Sampling Date:	03/30/2020
Reported:	04/01/2020	Sampling Type:	Soil
Project Name:	JAL 4 COMPRESSOR STATION	Sampling Condition:	Cool & Intact
Project Number:	12242	Sample Received By:	Kelly Jacobson
Project Location:	ETC - LEA CO NM		

Sample ID: WH 2 @ SURFACE (H000948-05)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/31/2020	ND	1.88	94.1	2.00	9.77	
Toluene*	<0.050	0.050	03/31/2020	ND	1.89	94.4	2.00	9.89	
Ethylbenzene*	<0.050	0.050	03/31/2020	ND	1.88	93.9	2.00	10.8	
Total Xylenes*	<0.150	0.150	03/31/2020	ND	5.41	90.2	6.00	11.0	
Total BTX	<0.300	0.300	03/31/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	03/31/2020	ND	432	108	400	7.14		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/31/2020	ND	210	105	200	0.315	
DRO >C10-C28*	<10.0	10.0	03/31/2020	ND	208	104	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	03/31/2020	ND					

Surrogate: 1-Chlorooctane 93.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 99.0 % 42.2-156

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

Received:	03/30/2020	Sampling Date:	03/30/2020
Reported:	04/01/2020	Sampling Type:	Soil
Project Name:	JAL 4 COMPRESSOR STATION	Sampling Condition:	Cool & Intact
Project Number:	12242	Sample Received By:	Kelly Jacobson
Project Location:	ETC - LEA CO NM		

Sample ID: WH 2 @ 1' (H000948-06)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/31/2020	ND	1.88	94.1	2.00	9.77		
Toluene*	<0.050	0.050	03/31/2020	ND	1.89	94.4	2.00	9.89		
Ethylbenzene*	<0.050	0.050	03/31/2020	ND	1.88	93.9	2.00	10.8		
Total Xylenes*	<0.150	0.150	03/31/2020	ND	5.41	90.2	6.00	11.0		
Total BTX	<0.300	0.300	03/31/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	03/31/2020	ND	432	108	400	7.14		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/31/2020	ND	210	105	200	0.315	
DRO >C10-C28*	45.2	10.0	03/31/2020	ND	208	104	200	1.25	
EXT DRO >C28-C36	26.9	10.0	03/31/2020	ND					

Surrogate: 1-Chlorooctane 97.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 107 % 42.2-156

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Analytical Results For:

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

Received:	03/30/2020	Sampling Date:	03/30/2020
Reported:	04/01/2020	Sampling Type:	Soil
Project Name:	JAL 4 COMPRESSOR STATION	Sampling Condition:	Cool & Intact
Project Number:	12242	Sample Received By:	Kelly Jacobson
Project Location:	ETC - LEA CO NM		

Sample ID: SP 1 @ SURFACE (H000948-07)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	32.8	1.00	04/01/2020	ND	1.88	94.1	2.00	9.77	
Toluene*	137	1.00	04/01/2020	ND	1.89	94.4	2.00	9.89	
Ethylbenzene*	53.0	1.00	04/01/2020	ND	1.88	93.9	2.00	10.8	
Total Xylenes*	104	3.00	04/01/2020	ND	5.41	90.2	6.00	11.0	
Total BTEX	327	6.00	04/01/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	03/31/2020	ND	432	108	400	7.14		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	4210	50.0	03/31/2020	ND	210	105	200	0.315	
DRO >C10-C28*	2070	50.0	03/31/2020	ND	208	104	200	1.25	
EXT DRO >C28-C36	7970	50.0	03/31/2020	ND					

Surrogate: 1-Chlorooctane 130 % 44.3-144

Surrogate: 1-Chlorooctadecane 105 % 42.2-156

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Analytical Results For:

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Received:	03/30/2020	Sampling Date:	03/30/2020
Reported:	04/01/2020	Sampling Type:	Soil
Project Name:	JAL 4 COMPRESSOR STATION	Sampling Condition:	Cool & Intact
Project Number:	12242	Sample Received By:	Kelly Jacobson
Project Location:	ETC - LEA CO NM		

Sample ID: SP 1 @ 1' (H000948-08)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.612	0.050	04/01/2020	ND	1.88	94.1	2.00	9.77	
Toluene*	3.21	0.050	04/01/2020	ND	1.89	94.4	2.00	9.89	
Ethylbenzene*	1.75	0.050	04/01/2020	ND	1.88	93.9	2.00	10.8	
Total Xylenes*	3.74	0.150	04/01/2020	ND	5.41	90.2	6.00	11.0	
Total BTX	9.32	0.300	04/01/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	48.0	16.0	03/31/2020	ND	432	108	400	7.14	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	103	50.0	03/31/2020	ND	210	105	200	0.315	
DRO >C10-C28*	1170	50.0	03/31/2020	ND	208	104	200	1.25	
EXT DRO >C28-C36	4040	50.0	03/31/2020	ND					

Surrogate: 1-Chlorooctane 107 % 44.3-144

Surrogate: 1-Chlorooctadecane 137 % 42.2-156

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Received:	03/30/2020	Sampling Date:	03/30/2020
Reported:	04/01/2020	Sampling Type:	Soil
Project Name:	JAL 4 COMPRESSOR STATION	Sampling Condition:	Cool & Intact
Project Number:	12242	Sample Received By:	Kelly Jacobson
Project Location:	ETC - LEA CO NM		

Sample ID: SP 2 @ SURFACE (H000948-09)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	26.3	1.00	04/01/2020	ND	1.88	94.1	2.00	9.77	
Toluene*	166	1.00	04/01/2020	ND	1.89	94.4	2.00	9.89	
Ethylbenzene*	90.2	1.00	04/01/2020	ND	1.88	93.9	2.00	10.8	
Total Xylenes*	184	3.00	04/01/2020	ND	5.41	90.2	6.00	11.0	
Total BTEX	467	6.00	04/01/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/31/2020	ND	432	108	400	7.14		

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	6790	50.0	03/31/2020	ND	210	105	200	0.315	
DRO >C10-C28*	1850	50.0	03/31/2020	ND	208	104	200	1.25	
EXT DRO >C28-C36	5640	50.0	03/31/2020	ND					

Surrogate: 1-Chlorooctane 159 % 44.3-144

Surrogate: 1-Chlorooctadecane 109 % 42.2-156

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Analytical Results For:

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 Fax To: (575) 396-1429

Received:	03/30/2020	Sampling Date:	03/30/2020
Reported:	04/01/2020	Sampling Type:	Soil
Project Name:	JAL 4 COMPRESSOR STATION	Sampling Condition:	Cool & Intact
Project Number:	12242	Sample Received By:	Kelly Jacobson
Project Location:	ETC - LEA CO NM		

Sample ID: SP 2 @ 1' (H000948-10)

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	04/01/2020	ND	1.88	94.1	2.00	9.77		
Toluene*	<0.050	0.050	04/01/2020	ND	1.89	94.4	2.00	9.89		
Ethylbenzene*	<0.050	0.050	04/01/2020	ND	1.88	93.9	2.00	10.8		
Total Xylenes*	<0.150	0.150	04/01/2020	ND	5.41	90.2	6.00	11.0		
Total BTEx	<0.300	0.300	04/01/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 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	64.0	16.0	03/31/2020	ND	432	108	400	7.14		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/31/2020	ND	206	103	200	0.0555	
DRO >C10-C28*	<10.0	10.0	03/31/2020	ND	203	101	200	0.772	QR-03
EXT DRO >C28-C36	<10.0	10.0	03/31/2020	ND					

Surrogate: 1-Chlorooctane 97.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 99.6 % 42.2-156

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Analytical Results For:

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 JOEL LOWRY
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 Fax To: (575) 396-1429

Received:	03/30/2020	Sampling Date:	03/30/2020
Reported:	04/01/2020	Sampling Type:	Soil
Project Name:	JAL 4 COMPRESSOR STATION	Sampling Condition:	Cool & Intact
Project Number:	12242	Sample Received By:	Kelly Jacobson
Project Location:	ETC - LEA CO NM		

Sample ID: SP 3 @ SURFACE (H000948-11)

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	04/01/2020	ND	1.88	94.1	2.00	9.77	
Toluene*	0.148	0.050	04/01/2020	ND	1.89	94.4	2.00	9.89	
Ethylbenzene*	0.080	0.050	04/01/2020	ND	1.88	93.9	2.00	10.8	
Total Xylenes*	0.356	0.150	04/01/2020	ND	5.41	90.2	6.00	11.0	
Total BTX	0.585	0.300	04/01/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	03/31/2020	ND	432	108	400	7.14		

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	04/01/2020	ND	206	103	200	0.0555	
DRO >C10-C28*	6200	50.0	04/01/2020	ND	203	101	200	0.772	
EXT DRO >C28-C36	4780	50.0	04/01/2020	ND					

Surrogate: 1-Chlorooctane 104 % 44.3-144

Surrogate: 1-Chlorooctadecane 234 % 42.2-156

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Received:	03/30/2020	Sampling Date:	03/30/2020
Reported:	04/01/2020	Sampling Type:	Soil
Project Name:	JAL 4 COMPRESSOR STATION	Sampling Condition:	Cool & Intact
Project Number:	12242	Sample Received By:	Kelly Jacobson
Project Location:	ETC - LEA CO NM		

Sample ID: SP 3 @ 1' (H000948-12)

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	04/01/2020	ND	1.88	94.1	2.00	9.77	
Toluene*	<0.050	0.050	04/01/2020	ND	1.89	94.4	2.00	9.89	
Ethylbenzene*	<0.050	0.050	04/01/2020	ND	1.88	93.9	2.00	10.8	
Total Xylenes*	<0.150	0.150	04/01/2020	ND	5.41	90.2	6.00	11.0	
Total BTX	<0.300	0.300	04/01/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	144	16.0	03/31/2020	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/31/2020	ND	206	103	200	0.0555	
DRO >C10-C28*	<10.0	10.0	03/31/2020	ND	203	101	200	0.772	
EXT DRO >C28-C36	<10.0	10.0	03/31/2020	ND					

Surrogate: 1-Chlorooctane 94.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 97.0 % 42.2-156

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Analytical Results For:

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Received:	03/30/2020	Sampling Date:	03/30/2020
Reported:	04/01/2020	Sampling Type:	Soil
Project Name:	JAL 4 COMPRESSOR STATION	Sampling Condition:	Cool & Intact
Project Number:	12242	Sample Received By:	Kelly Jacobson
Project Location:	ETC - LEA CO NM		

Sample ID: SP 4 @ SURFACE (H000948-13)

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	04/01/2020	ND	1.88	94.1	2.00	9.77	
Toluene*	0.213	0.050	04/01/2020	ND	1.89	94.4	2.00	9.89	
Ethylbenzene*	0.199	0.050	04/01/2020	ND	1.88	93.9	2.00	10.8	
Total Xylenes*	0.589	0.150	04/01/2020	ND	5.41	90.2	6.00	11.0	
Total BTX	1.00	0.300	04/01/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	48.0	16.0	03/31/2020	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	04/01/2020	ND	206	103	200	0.0555	
DRO >C10-C28*	1450	50.0	04/01/2020	ND	203	101	200	0.772	
EXT DRO >C28-C36	4610	50.0	04/01/2020	ND					

Surrogate: 1-Chlorooctane 99.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 102 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/30/2020	Sampling Date:	03/30/2020
Reported:	04/01/2020	Sampling Type:	Soil
Project Name:	JAL 4 COMPRESSOR STATION	Sampling Condition:	Cool & Intact
Project Number:	12242	Sample Received By:	Kelly Jacobson
Project Location:	ETC - LEA CO NM		

Sample ID: SP 4 @ 1' (H000948-14)

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	03/31/2020	ND	1.88	94.1	2.00	9.77		
Toluene*	<0.050	0.050	03/31/2020	ND	1.89	94.4	2.00	9.89		
Ethylbenzene*	<0.050	0.050	03/31/2020	ND	1.88	93.9	2.00	10.8		
Total Xylenes*	<0.150	0.150	03/31/2020	ND	5.41	90.2	6.00	11.0		
Total BTX	<0.300	0.300	03/31/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	03/31/2020	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/31/2020	ND	206	103	200	0.0555	
DRO >C10-C28*	<10.0	10.0	03/31/2020	ND	203	101	200	0.772	
EXT DRO >C28-C36	<10.0	10.0	03/31/2020	ND					

Surrogate: 1-Chlorooctane 92.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 94.9 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/30/2020	Sampling Date:	03/30/2020
Reported:	04/01/2020	Sampling Type:	Soil
Project Name:	JAL 4 COMPRESSOR STATION	Sampling Condition:	Cool & Intact
Project Number:	12242	Sample Received By:	Kelly Jacobson
Project Location:	ETC - LEA CO NM		

Sample ID: SP 5 @ SURFACE (H000948-15)

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	03/31/2020	ND	1.88	94.1	2.00	9.77	
Toluene*	<0.050	0.050	03/31/2020	ND	1.89	94.4	2.00	9.89	
Ethylbenzene*	<0.050	0.050	03/31/2020	ND	1.88	93.9	2.00	10.8	
Total Xylenes*	<0.150	0.150	03/31/2020	ND	5.41	90.2	6.00	11.0	
Total BTX	<0.300	0.300	03/31/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 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	03/31/2020	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/31/2020	ND	206	103	200	0.0555	
DRO >C10-C28*	686	10.0	03/31/2020	ND	203	101	200	0.772	
EXT DRO >C28-C36	2040	10.0	03/31/2020	ND					

Surrogate: 1-Chlorooctane 98.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 88.0 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/30/2020	Sampling Date:	03/30/2020
Reported:	04/01/2020	Sampling Type:	Soil
Project Name:	JAL 4 COMPRESSOR STATION	Sampling Condition:	Cool & Intact
Project Number:	12242	Sample Received By:	Kelly Jacobson
Project Location:	ETC - LEA CO NM		

Sample ID: SP 5 @ 1' (H000948-16)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/31/2020	ND	1.88	94.1	2.00	9.77	
Toluene*	<0.050	0.050	03/31/2020	ND	1.89	94.4	2.00	9.89	
Ethylbenzene*	<0.050	0.050	03/31/2020	ND	1.88	93.9	2.00	10.8	
Total Xylenes*	<0.150	0.150	03/31/2020	ND	5.41	90.2	6.00	11.0	
Total BTX	<0.300	0.300	03/31/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	03/31/2020	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/31/2020	ND	206	103	200	0.0555	
DRO >C10-C28*	50.5	10.0	03/31/2020	ND	203	101	200	0.772	
EXT DRO >C28-C36	45.4	10.0	03/31/2020	ND					

Surrogate: 1-Chlorooctane 97.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 102 % 42.2-156

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Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager

02 jo 16 ead



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Eteck EnvironmentalProject Manager: Joel LowryAddress: 3160 Plains HwyCity: Levinston State: NM Zip: 88240Phone #: 505-446-4457 Fax #:Project #: 12242 Project Owner: ETC Texas PipelineProject Name: 3414 compressor stationProject Location: Rea Co, New MexicoSampler Name: Miguel Ramirez

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

ANALYSIS REQUEST

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	Chloride	TPH	BTEX 8021	
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :						ACID/BASE:
4000448	SH2 @ surface	G	1												
1	SH2 @ 1'	G	1												
2	WH1 @ surface	G	1												
3	WH1 @ 1'	G	1												
4	WH2 @ surface	G	1												
5	WH2 @ 1'	G	1												
6	SP1 @ surface	G	1												
7	SP1 @ 1'	G	1												
8	SP2 @ surface	G	1												
9	SP2 @ 1'	G	1												
10	SP2 @ surface	G	1												

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Relinquished By: [Signature] Date: 3-30-20
Time: 1:30:35
Received By: [Signature]
Date: 3-30-20
Time:

Relinquished By: [Signature] Date: 3-30-20
Time: 1:30:35
Received By: [Signature]
Date: 3-30-20
Time:

Delivered By: (Circle One) 3.4c
Sampler - UPS - Bus - Other: #113
Sample Condition: Intact
Cool: Yes Intact: Yes
Checked By: [Signature] (Initials)
REMARKS: email results to joel@eteckenv.com
Joel@eteckenv.com

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476
FDPM-005 R 2.0

1 of 2



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

April 01, 2020

JOEL LOWRY

Etech Environmental & Safety Solutions

P.O. Box 301

Lovington, NM 88260

RE: JAL 4 COMPRESSOR STATION

Enclosed are the results of analyses for samples received by the laboratory on 03/30/20 13:35.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/30/2020	Sampling Date:	03/30/2020
Reported:	04/01/2020	Sampling Type:	Soil
Project Name:	JAL 4 COMPRESSOR STATION	Sampling Condition:	Cool & Intact
Project Number:	12242	Sample Received By:	Kelly Jacobson
Project Location:	ETC - LEA CO NM		

Sample ID: NH 1 @ SURFACE (H000947-01)

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	03/30/2020	ND	1.77	88.3	2.00	14.7	
Toluene*	<0.050	0.050	03/30/2020	ND	1.77	88.4	2.00	14.9	
Ethylbenzene*	<0.050	0.050	03/30/2020	ND	1.79	89.4	2.00	15.2	
Total Xylenes*	<0.150	0.150	03/30/2020	ND	5.22	86.9	6.00	15.3	
Total BTX	<0.300	0.300	03/30/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	48.0	16.0	03/31/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/30/2020	ND	210	105	200	0.315	
DRO >C10-C28*	<10.0	10.0	03/30/2020	ND	208	104	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	03/30/2020	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



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Analytical Results For:

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

Received:	03/30/2020	Sampling Date:	03/30/2020
Reported:	04/01/2020	Sampling Type:	Soil
Project Name:	JAL 4 COMPRESSOR STATION	Sampling Condition:	Cool & Intact
Project Number:	12242	Sample Received By:	Kelly Jacobson
Project Location:	ETC - LEA CO NM		

Sample ID: NH 1 @ 1' (H000947-02)

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	03/30/2020	ND	1.77	88.3	2.00	14.7		
Toluene*	<0.050	0.050	03/30/2020	ND	1.77	88.4	2.00	14.9		
Ethylbenzene*	<0.050	0.050	03/30/2020	ND	1.79	89.4	2.00	15.2		
Total Xylenes*	<0.150	0.150	03/30/2020	ND	5.22	86.9	6.00	15.3		
Total BTEx	<0.300	0.300	03/30/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	32.0	16.0	03/31/2020	ND	432	108	400	7.14		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/31/2020	ND	210	105	200	0.315	
DRO >C10-C28*	99.1	10.0	03/31/2020	ND	208	104	200	1.25	
EXT DRO >C28-C36	121	10.0	03/31/2020	ND					

Surrogate: 1-Chlorooctane 95.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 105 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/30/2020	Sampling Date:	03/30/2020
Reported:	04/01/2020	Sampling Type:	Soil
Project Name:	JAL 4 COMPRESSOR STATION	Sampling Condition:	Cool & Intact
Project Number:	12242	Sample Received By:	Kelly Jacobson
Project Location:	ETC - LEA CO NM		

Sample ID: NH 2 @ SURFACE (H000947-03)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/30/2020	ND	1.77	88.3	2.00	14.7		
Toluene*	<0.050	0.050	03/30/2020	ND	1.77	88.4	2.00	14.9		
Ethylbenzene*	<0.050	0.050	03/30/2020	ND	1.79	89.4	2.00	15.2		
Total Xylenes*	<0.150	0.150	03/30/2020	ND	5.22	86.9	6.00	15.3		
Total BTX	<0.300	0.300	03/30/2020	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	03/31/2020	ND	432	108	400	7.14		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/30/2020	ND	210	105	200	0.315	
DRO >C10-C28*	<10.0	10.0	03/30/2020	ND	208	104	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	03/30/2020	ND					

Surrogate: 1-Chlorooctane 97.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 103 % 42.2-156

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Analytical Results For:

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

Received:	03/30/2020	Sampling Date:	03/30/2020
Reported:	04/01/2020	Sampling Type:	Soil
Project Name:	JAL 4 COMPRESSOR STATION	Sampling Condition:	Cool & Intact
Project Number:	12242	Sample Received By:	Kelly Jacobson
Project Location:	ETC - LEA CO NM		

Sample ID: NH 2 @ 1' (H000947-04)

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	03/30/2020	ND	1.77	88.3	2.00	14.7		
Toluene*	<0.050	0.050	03/30/2020	ND	1.77	88.4	2.00	14.9		
Ethylbenzene*	<0.050	0.050	03/30/2020	ND	1.79	89.4	2.00	15.2		
Total Xylenes*	<0.150	0.150	03/30/2020	ND	5.22	86.9	6.00	15.3		
Total BTEX	<0.300	0.300	03/30/2020	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	03/31/2020	ND	432	108	400	7.14		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/31/2020	ND	210	105	200	0.315	
DRO >C10-C28*	<10.0	10.0	03/31/2020	ND	208	104	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	03/31/2020	ND					

Surrogate: 1-Chlorooctane 95.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 100 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/30/2020	Sampling Date:	03/30/2020
Reported:	04/01/2020	Sampling Type:	Soil
Project Name:	JAL 4 COMPRESSOR STATION	Sampling Condition:	Cool & Intact
Project Number:	12242	Sample Received By:	Kelly Jacobson
Project Location:	ETC - LEA CO NM		

Sample ID: EH 1 @ SURFACE (H000947-05)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/30/2020	ND	1.77	88.3	2.00	14.7		
Toluene*	<0.050	0.050	03/30/2020	ND	1.77	88.4	2.00	14.9		
Ethylbenzene*	<0.050	0.050	03/30/2020	ND	1.79	89.4	2.00	15.2		
Total Xylenes*	<0.150	0.150	03/30/2020	ND	5.22	86.9	6.00	15.3		
Total BTX	<0.300	0.300	03/30/2020	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	03/31/2020	ND	432	108	400	7.14	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/31/2020	ND	210	105	200	0.315	
DRO >C10-C28*	<10.0	10.0	03/31/2020	ND	208	104	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	03/31/2020	ND					

Surrogate: 1-Chlorooctane 97.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 102 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/30/2020	Sampling Date:	03/30/2020
Reported:	04/01/2020	Sampling Type:	Soil
Project Name:	JAL 4 COMPRESSOR STATION	Sampling Condition:	Cool & Intact
Project Number:	12242	Sample Received By:	Kelly Jacobson
Project Location:	ETC - LEA CO NM		

Sample ID: EH 1 @ 1' (H000947-06)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/30/2020	ND	1.77	88.3	2.00	14.7		
Toluene*	<0.050	0.050	03/30/2020	ND	1.77	88.4	2.00	14.9		
Ethylbenzene*	<0.050	0.050	03/30/2020	ND	1.79	89.4	2.00	15.2		
Total Xylenes*	<0.150	0.150	03/30/2020	ND	5.22	86.9	6.00	15.3		
Total BTX	<0.300	0.300	03/30/2020	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	03/31/2020	ND	432	108	400	7.14		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/31/2020	ND	210	105	200	0.315	
DRO >C10-C28*	<10.0	10.0	03/31/2020	ND	208	104	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	03/31/2020	ND					

Surrogate: 1-Chlorooctane 102 % 44.3-144

Surrogate: 1-Chlorooctadecane 107 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/30/2020	Sampling Date:	03/30/2020
Reported:	04/01/2020	Sampling Type:	Soil
Project Name:	JAL 4 COMPRESSOR STATION	Sampling Condition:	Cool & Intact
Project Number:	12242	Sample Received By:	Kelly Jacobson
Project Location:	ETC - LEA CO NM		

Sample ID: EH 2 @ SURFACE (H000947-07)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/31/2020	ND	1.77	88.3	2.00	14.7	
Toluene*	<0.050	0.050	03/31/2020	ND	1.77	88.4	2.00	14.9	
Ethylbenzene*	<0.050	0.050	03/31/2020	ND	1.79	89.4	2.00	15.2	
Total Xylenes*	<0.150	0.150	03/31/2020	ND	5.22	86.9	6.00	15.3	
Total BTX	<0.300	0.300	03/31/2020	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	03/31/2020	ND	432	108	400	7.14		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/31/2020	ND	210	105	200	0.315	
DRO >C10-C28*	<10.0	10.0	03/31/2020	ND	208	104	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	03/31/2020	ND					

Surrogate: 1-Chlorooctane 83.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 89.3 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/30/2020	Sampling Date:	03/30/2020
Reported:	04/01/2020	Sampling Type:	Soil
Project Name:	JAL 4 COMPRESSOR STATION	Sampling Condition:	Cool & Intact
Project Number:	12242	Sample Received By:	Kelly Jacobson
Project Location:	ETC - LEA CO NM		

Sample ID: EH 2 @ 1' (H000947-08)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/31/2020	ND	1.88	94.1	2.00	9.77	
Toluene*	<0.050	0.050	03/31/2020	ND	1.89	94.4	2.00	9.89	
Ethylbenzene*	<0.050	0.050	03/31/2020	ND	1.88	93.9	2.00	10.8	
Total Xylenes*	<0.150	0.150	03/31/2020	ND	5.41	90.2	6.00	11.0	
Total BTX	<0.300	0.300	03/31/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/31/2020	ND	432	108	400	7.14	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/31/2020	ND	210	105	200	0.315	
DRO >C10-C28*	<10.0	10.0	03/31/2020	ND	208	104	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	03/31/2020	ND					

Surrogate: 1-Chlorooctane 100 % 44.3-144

Surrogate: 1-Chlorooctadecane 105 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/30/2020	Sampling Date:	03/30/2020
Reported:	04/01/2020	Sampling Type:	Soil
Project Name:	JAL 4 COMPRESSOR STATION	Sampling Condition:	Cool & Intact
Project Number:	12242	Sample Received By:	Kelly Jacobson
Project Location:	ETC - LEA CO NM		

Sample ID: SH 1 @ SURFACE (H000947-09)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/31/2020	ND	1.88	94.1	2.00	9.77		
Toluene*	<0.050	0.050	03/31/2020	ND	1.89	94.4	2.00	9.89		
Ethylbenzene*	<0.050	0.050	03/31/2020	ND	1.88	93.9	2.00	10.8		
Total Xylenes*	<0.150	0.150	03/31/2020	ND	5.41	90.2	6.00	11.0		
Total BTX	<0.300	0.300	03/31/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	03/31/2020	ND	432	108	400	7.14		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/31/2020	ND	210	105	200	0.315	
DRO >C10-C28*	<10.0	10.0	03/31/2020	ND	208	104	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	03/31/2020	ND					

Surrogate: 1-Chlorooctane 99.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 103 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/30/2020	Sampling Date:	03/30/2020
Reported:	04/01/2020	Sampling Type:	Soil
Project Name:	JAL 4 COMPRESSOR STATION	Sampling Condition:	Cool & Intact
Project Number:	12242	Sample Received By:	Kelly Jacobson
Project Location:	ETC - LEA CO NM		

Sample ID: SH 1 @ 1' (H000947-10)

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	03/31/2020	ND	1.88	94.1	2.00	9.77		
Toluene*	<0.050	0.050	03/31/2020	ND	1.89	94.4	2.00	9.89		
Ethylbenzene*	<0.050	0.050	03/31/2020	ND	1.88	93.9	2.00	10.8		
Total Xylenes*	<0.150	0.150	03/31/2020	ND	5.41	90.2	6.00	11.0		
Total BTX	<0.300	0.300	03/31/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	03/31/2020	ND	432	108	400	7.14		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/31/2020	ND	210	105	200	0.315	
DRO >C10-C28*	<10.0	10.0	03/31/2020	ND	208	104	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	03/31/2020	ND					

Surrogate: 1-Chlorooctane 99.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 105 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

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A handwritten signature in cursive script, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO				P.O. #:						
Company Name: Eteck Environmental Project Manager: Joel Lowry				Company: ETC						
Address: 3100 Plains Hwy City: Livingston State: TX Zip: 75420				Attn:						
Phone #: 432-466-4452 Fax #:				Address:						
Project #: 12242 Project Owner: ETC Texas Pipeline				State: Zip:						
Project Location: Lea Co., New Mexico				Phone #:						
Sampler Name: Mayel Ramirez				Fax #:						
<small>FOR LAB USE ONLY</small>										
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING	DATE TIME	Chloride	TPH	BTEX 8021
		GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE				
H000947	NH1 @ surface	X	1				3-30-20	X	X	X
	NH1 @'	X	1				3-30-20	X	X	X
	NH2 @ surface	X	1				3-30-20	X	X	X
	NH2 @'	X	1				3-30-20	X	X	X
	ECH @ surface	X	1				3-30-20	X	X	X
	ECH @'	X	1				3-30-20	X	X	X
	ECH2 @ surface	X	1				3-30-20	X	X	X
	ECH2 @'	X	1				3-30-20	X	X	X
	ECH2 @ surface	X	1				3-30-20	X	X	X
	ECH2 @'	X	1				3-30-20	X	X	X
	ECH2 @ surface	X	1				3-30-20	X	X	X
	ECH2 @'	X	1				3-30-20	X	X	X
	ECH2 @ surface	X	1				3-30-20	X	X	X
	ECH2 @'	X	1				3-30-20	X	X	X

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Relinquished By: [Signature] Date: 3-30-20 Time: 1335
Received By: [Signature]
Date: 3-30-20 **Time:** 1335

Relinquished By: [Signature] Date: 3-30-20 Time: 1335
Received By: [Signature]
Date: 3-30-20 **Time:** 1335

Delivered By: (Circle One)
 Sampler - UPS - Bus - Other:
 Sample Condition Cool Intact Yes No
 Checked BY: [Initials]

REMARKS: email results to joel@eteckenv.com
 laws@eteckenv.com



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

April 06, 2020

JOEL LOWRY

Etech Environmental & Safety Solutions

P.O. Box 301

Lovington, NM 88260

RE: JAL 4 COMPRESSOR STATION

Enclosed are the results of analyses for samples received by the laboratory on 04/02/20 14:25.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	04/02/2020	Sampling Date:	04/02/2020
Reported:	04/06/2020	Sampling Type:	Soil
Project Name:	JAL 4 COMPRESSOR STATION	Sampling Condition:	Cool & Intact
Project Number:	12242	Sample Received By:	Kelly Jacobson
Project Location:	ETC - LEA CO NM		

Sample ID: NH 1 @ 2' (H000988-01)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/03/2020	ND	2.18	109	2.00	5.62	
Toluene*	<0.050	0.050	04/03/2020	ND	2.18	109	2.00	5.70	
Ethylbenzene*	<0.050	0.050	04/03/2020	ND	2.19	109	2.00	5.74	
Total Xylenes*	<0.150	0.150	04/03/2020	ND	6.32	105	6.00	6.02	
Total BTX	<0.300	0.300	04/03/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 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	04/03/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/03/2020	ND	187	93.5	200	1.49	
DRO >C10-C28*	<10.0	10.0	04/03/2020	ND	182	90.8	200	0.355	
EXT DRO >C28-C36	<10.0	10.0	04/03/2020	ND					

Surrogate: 1-Chlorooctane 99.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 104 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	04/02/2020	Sampling Date:	04/02/2020
Reported:	04/06/2020	Sampling Type:	Soil
Project Name:	JAL 4 COMPRESSOR STATION	Sampling Condition:	Cool & Intact
Project Number:	12242	Sample Received By:	Kelly Jacobson
Project Location:	ETC - LEA CO NM		

Sample ID: NH 1b @ 1' (H000988-02)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/03/2020	ND	2.18	109	2.00	5.62	
Toluene*	<0.050	0.050	04/03/2020	ND	2.18	109	2.00	5.70	
Ethylbenzene*	<0.050	0.050	04/03/2020	ND	2.19	109	2.00	5.74	
Total Xylenes*	<0.150	0.150	04/03/2020	ND	6.32	105	6.00	6.02	
Total BTX	<0.300	0.300	04/03/2020	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	04/03/2020	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/03/2020	ND	187	93.5	200	1.49	
DRO >C10-C28*	<10.0	10.0	04/03/2020	ND	182	90.8	200	0.355	
EXT DRO >C28-C36	<10.0	10.0	04/03/2020	ND					

Surrogate: 1-Chlorooctane 97.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 101 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	04/02/2020	Sampling Date:	04/02/2020
Reported:	04/06/2020	Sampling Type:	Soil
Project Name:	JAL 4 COMPRESSOR STATION	Sampling Condition:	Cool & Intact
Project Number:	12242	Sample Received By:	Kelly Jacobson
Project Location:	ETC - LEA CO NM		

Sample ID: SP 1 @ 2' - R (H000988-03)

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	04/03/2020	ND	2.18	109	2.00	5.62	
Toluene*	0.295	0.050	04/03/2020	ND	2.18	109	2.00	5.70	
Ethylbenzene*	0.392	0.050	04/03/2020	ND	2.19	109	2.00	5.74	
Total Xylenes*	1.18	0.150	04/03/2020	ND	6.32	105	6.00	6.02	
Total BTEX	1.87	0.300	04/03/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	96.0	16.0	04/03/2020	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	26.6	10.0	04/03/2020	ND	187	93.5	200	1.49	
DRO >C10-C28*	183	10.0	04/03/2020	ND	182	90.8	200	0.355	
EXT DRO >C28-C36	579	10.0	04/03/2020	ND					

Surrogate: 1-Chlorooctane 95.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 86.4 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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A handwritten signature in cursive script, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

CARDINAL
Laboratories

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476
OPEN-005 R 2.0



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

July 02, 2020

JOEL LOWRY

Etech Environmental & Safety Solutions

P.O. Box 301

Lovington, NM 88260

RE: JAL 4 COMPRESSOR STATION

Enclosed are the results of analyses for samples received by the laboratory on 06/30/20 16:50.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/30/2020	Sampling Date:	06/29/2020
Reported:	07/02/2020	Sampling Type:	Soil
Project Name:	JAL 4 COMPRESSOR STATION	Sampling Condition:	Cool & Intact
Project Number:	12242	Sample Received By:	Tamara Oldaker
Project Location:	ETC - LEA CO NM		

Sample ID: FL 1 @ 1' (H001711-01)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/01/2020	ND	1.89	94.3	2.00	4.59	
Toluene*	<0.050	0.050	07/01/2020	ND	1.89	94.5	2.00	4.60	
Ethylbenzene*	<0.050	0.050	07/01/2020	ND	1.92	95.8	2.00	4.86	
Total Xylenes*	<0.150	0.150	07/01/2020	ND	5.57	92.8	6.00	4.80	
Total BTX	<0.300	0.300	07/01/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.4 % 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	07/01/2020	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/01/2020	ND	181	90.7	200	1.02	
DRO >C10-C28*	62.2	10.0	07/01/2020	ND	187	93.3	200	3.10	
EXT DRO >C28-C36	27.2	10.0	07/01/2020	ND					

Surrogate: 1-Chlorooctane 70.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 78.2 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/30/2020	Sampling Date:	06/29/2020
Reported:	07/02/2020	Sampling Type:	Soil
Project Name:	JAL 4 COMPRESSOR STATION	Sampling Condition:	Cool & Intact
Project Number:	12242	Sample Received By:	Tamara Oldaker
Project Location:	ETC - LEA CO NM		

Sample ID: FL 2 @ 2' (H001711-02)

BTX 8021B			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/01/2020	ND	1.89	94.3	2.00	4.59		
Toluene*	<0.050	0.050	07/01/2020	ND	1.89	94.5	2.00	4.60		
Ethylbenzene*	<0.050	0.050	07/01/2020	ND	1.92	95.8	2.00	4.86		
Total Xylenes*	<0.150	0.150	07/01/2020	ND	5.57	92.8	6.00	4.80		
Total BTX	<0.300	0.300	07/01/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.3 % 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	07/01/2020	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/01/2020	ND	181	90.7	200	1.02	
DRO >C10-C28*	22.7	10.0	07/01/2020	ND	187	93.3	200	3.10	
EXT DRO >C28-C36	111	10.0	07/01/2020	ND					

Surrogate: 1-Chlorooctane 63.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 66.9 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/30/2020	Sampling Date:	06/29/2020
Reported:	07/02/2020	Sampling Type:	Soil
Project Name:	JAL 4 COMPRESSOR STATION	Sampling Condition:	Cool & Intact
Project Number:	12242	Sample Received By:	Tamara Oldaker
Project Location:	ETC - LEA CO NM		

Sample ID: FL 3 @ 3' (H001711-03)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/01/2020	ND	1.89	94.3	2.00	4.59	
Toluene*	<0.050	0.050	07/01/2020	ND	1.89	94.5	2.00	4.60	
Ethylbenzene*	<0.050	0.050	07/01/2020	ND	1.92	95.8	2.00	4.86	
Total Xylenes*	<0.150	0.150	07/01/2020	ND	5.57	92.8	6.00	4.80	
Total BTX	<0.300	0.300	07/01/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.1 % 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	07/01/2020	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/01/2020	ND	181	90.7	200	1.02	
DRO >C10-C28*	39.4	10.0	07/01/2020	ND	187	93.3	200	3.10	
EXT DRO >C28-C36	46.8	10.0	07/01/2020	ND					

Surrogate: 1-Chlorooctane 69.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 75.4 % 42.2-156

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 Fax To: (575) 396-1429

Received:	06/30/2020	Sampling Date:	06/29/2020
Reported:	07/02/2020	Sampling Type:	Soil
Project Name:	JAL 4 COMPRESSOR STATION	Sampling Condition:	Cool & Intact
Project Number:	12242	Sample Received By:	Tamara Oldaker
Project Location:	ETC - LEA CO NM		

Sample ID: FL 4 @ 2' (H001711-04)

BTX 8021B			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/01/2020	ND	1.89	94.3	2.00	4.59		
Toluene*	<0.050	0.050	07/01/2020	ND	1.89	94.5	2.00	4.60		
Ethylbenzene*	<0.050	0.050	07/01/2020	ND	1.92	95.8	2.00	4.86		
Total Xylenes*	<0.150	0.150	07/01/2020	ND	5.57	92.8	6.00	4.80		
Total BTX	<0.300	0.300	07/01/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.4 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	07/01/2020	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/01/2020	ND	181	90.7	200	1.02	
DRO >C10-C28*	<10.0	10.0	07/01/2020	ND	187	93.3	200	3.10	
EXT DRO >C28-C36	<10.0	10.0	07/01/2020	ND					

Surrogate: 1-Chlorooctane 78.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 82.6 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/30/2020	Sampling Date:	06/29/2020
Reported:	07/02/2020	Sampling Type:	Soil
Project Name:	JAL 4 COMPRESSOR STATION	Sampling Condition:	Cool & Intact
Project Number:	12242	Sample Received By:	Tamara Oldaker
Project Location:	ETC - LEA CO NM		

Sample ID: FL 5 @ 2' (H001711-05)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/01/2020	ND	1.89	94.3	2.00	4.59		
Toluene*	<0.050	0.050	07/01/2020	ND	1.89	94.5	2.00	4.60		
Ethylbenzene*	<0.050	0.050	07/01/2020	ND	1.92	95.8	2.00	4.86		
Total Xylenes*	<0.150	0.150	07/01/2020	ND	5.57	92.8	6.00	4.80		
Total BTX	<0.300	0.300	07/01/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.3 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/01/2020	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/01/2020	ND	181	90.7	200	1.02	
DRO >C10-C28*	<10.0	10.0	07/01/2020	ND	187	93.3	200	3.10	
EXT DRO >C28-C36	<10.0	10.0	07/01/2020	ND					

Surrogate: 1-Chlorooctane 78.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 83.5 % 42.2-156

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Analytical Results For:

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

Received:	06/30/2020	Sampling Date:	06/29/2020
Reported:	07/02/2020	Sampling Type:	Soil
Project Name:	JAL 4 COMPRESSOR STATION	Sampling Condition:	Cool & Intact
Project Number:	12242	Sample Received By:	Tamara Oldaker
Project Location:	ETC - LEA CO NM		

Sample ID: FL 6 @ 2' (H001711-06)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/01/2020	ND	1.89	94.3	2.00	4.59		
Toluene*	<0.050	0.050	07/01/2020	ND	1.89	94.5	2.00	4.60		
Ethylbenzene*	<0.050	0.050	07/01/2020	ND	1.92	95.8	2.00	4.86		
Total Xylenes*	<0.150	0.150	07/01/2020	ND	5.57	92.8	6.00	4.80		
Total BTX	<0.300	0.300	07/01/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.7 % 73.3-129

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	07/01/2020	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/01/2020	ND	181	90.7	200	1.02	
DRO >C10-C28*	<10.0	10.0	07/01/2020	ND	187	93.3	200	3.10	
EXT DRO >C28-C36	<10.0	10.0	07/01/2020	ND					

Surrogate: 1-Chlorooctane 77.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 81.0 % 42.2-156

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Analytical Results For:

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

Received:	06/30/2020	Sampling Date:	06/29/2020
Reported:	07/02/2020	Sampling Type:	Soil
Project Name:	JAL 4 COMPRESSOR STATION	Sampling Condition:	Cool & Intact
Project Number:	12242	Sample Received By:	Tamara Oldaker
Project Location:	ETC - LEA CO NM		

Sample ID: EW 1 (H001711-07)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/01/2020	ND	1.89	94.3	2.00	4.59		
Toluene*	<0.050	0.050	07/01/2020	ND	1.89	94.5	2.00	4.60		
Ethylbenzene*	<0.050	0.050	07/01/2020	ND	1.92	95.8	2.00	4.86		
Total Xylenes*	<0.150	0.150	07/01/2020	ND	5.57	92.8	6.00	4.80		
Total BTX	<0.300	0.300	07/01/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 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	07/01/2020	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/01/2020	ND	181	90.7	200	1.02	
DRO >C10-C28*	<10.0	10.0	07/01/2020	ND	187	93.3	200	3.10	
EXT DRO >C28-C36	25.4	10.0	07/01/2020	ND					

Surrogate: 1-Chlorooctane 81.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 85.7 % 42.2-156

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Analytical Results For:

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

Received:	06/30/2020	Sampling Date:	06/29/2020
Reported:	07/02/2020	Sampling Type:	Soil
Project Name:	JAL 4 COMPRESSOR STATION	Sampling Condition:	Cool & Intact
Project Number:	12242	Sample Received By:	Tamara Oldaker
Project Location:	ETC - LEA CO NM		

Sample ID: WW 1 (H001711-08)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/01/2020	ND	1.89	94.3	2.00	4.59		
Toluene*	<0.050	0.050	07/01/2020	ND	1.89	94.5	2.00	4.60		
Ethylbenzene*	<0.050	0.050	07/01/2020	ND	1.92	95.8	2.00	4.86		
Total Xylenes*	<0.150	0.150	07/01/2020	ND	5.57	92.8	6.00	4.80		
Total BTX	<0.300	0.300	07/01/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.3 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/01/2020	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	12.2	10.0	07/01/2020	ND	181	90.7	200	1.02	
DRO >C10-C28*	743	10.0	07/01/2020	ND	187	93.3	200	3.10	
EXT DRO >C28-C36	2380	10.0	07/01/2020	ND					

Surrogate: 1-Chlorooctane 82.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 73.0 % 42.2-156

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Analytical Results For:

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

Received:	06/30/2020	Sampling Date:	06/29/2020
Reported:	07/02/2020	Sampling Type:	Soil
Project Name:	JAL 4 COMPRESSOR STATION	Sampling Condition:	Cool & Intact
Project Number:	12242	Sample Received By:	Tamara Oldaker
Project Location:	ETC - LEA CO NM		

Sample ID: NW 1 (H001711-09)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/01/2020	ND	2.02	101	2.00	2.02	
Toluene*	<0.050	0.050	07/01/2020	ND	2.16	108	2.00	1.56	
Ethylbenzene*	<0.050	0.050	07/01/2020	ND	2.03	101	2.00	1.61	
Total Xylenes*	<0.150	0.150	07/01/2020	ND	6.37	106	6.00	1.24	
Total BTX	<0.300	0.300	07/01/2020	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/01/2020	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/01/2020	ND	171	85.5	200	22.9	
DRO >C10-C28*	<10.0	10.0	07/01/2020	ND	166	83.0	200	22.1	
EXT DRO >C28-C36	<10.0	10.0	07/01/2020	ND					

Surrogate: 1-Chlorooctane 81.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 81.6 % 42.2-156

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Analytical Results For:

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 Fax To: (575) 396-1429

Received: 06/30/2020
 Reported: 07/02/2020
 Project Name: JAL 4 COMPRESSOR STATION
 Project Number: 12242
 Project Location: ETC - LEA CO NM

Sampling Date: 06/29/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NW 2 (H001711-10)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/01/2020	ND	2.02	101	2.00	2.02	
Toluene*	<0.050	0.050	07/01/2020	ND	2.16	108	2.00	1.56	
Ethylbenzene*	<0.050	0.050	07/01/2020	ND	2.03	101	2.00	1.61	
Total Xylenes*	<0.150	0.150	07/01/2020	ND	6.37	106	6.00	1.24	
Total BTX	<0.300	0.300	07/01/2020	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/01/2020	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/01/2020	ND	171	85.5	200	22.9	
DRO >C10-C28*	<10.0	10.0	07/01/2020	ND	166	83.0	200	22.1	
EXT DRO >C28-C36	<10.0	10.0	07/01/2020	ND					

Surrogate: 1-Chlorooctane 78.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 78.3 % 42.2-156

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Analytical Results For:

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

Received:	06/30/2020	Sampling Date:	06/30/2020
Reported:	07/02/2020	Sampling Type:	Soil
Project Name:	JAL 4 COMPRESSOR STATION	Sampling Condition:	Cool & Intact
Project Number:	12242	Sample Received By:	Tamara Oldaker
Project Location:	ETC - LEA CO NM		

Sample ID: FL 7 @ 2' (H001711-11)

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/01/2020	ND	2.02	101	2.00	2.02	
Toluene*	<0.050	0.050	07/01/2020	ND	2.16	108	2.00	1.56	
Ethylbenzene*	<0.050	0.050	07/01/2020	ND	2.03	101	2.00	1.61	
Total Xylenes*	<0.150	0.150	07/01/2020	ND	6.37	106	6.00	1.24	
Total BTEx	<0.300	0.300	07/01/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	07/01/2020	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/01/2020	ND	171	85.5	200	22.9	
DRO >C10-C28*	303	10.0	07/01/2020	ND	166	83.0	200	22.1	
EXT DRO >C28-C36	509	10.0	07/01/2020	ND					

Surrogate: 1-Chlorooctane 81.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 89.0 % 42.2-156

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Analytical Results For:

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 Fax To: (575) 396-1429

Received:	06/30/2020	Sampling Date:	06/30/2020
Reported:	07/02/2020	Sampling Type:	Soil
Project Name:	JAL 4 COMPRESSOR STATION	Sampling Condition:	Cool & Intact
Project Number:	12242	Sample Received By:	Tamara Oldaker
Project Location:	ETC - LEA CO NM		

Sample ID: FL 8 @ 2' (H001711-12)

BTX 8021B			mg/kg		Analyzed By: ms				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/01/2020	ND	2.02	101	2.00	2.02	
Toluene*	<0.050	0.050	07/01/2020	ND	2.16	108	2.00	1.56	
Ethylbenzene*	<0.050	0.050	07/01/2020	ND	2.03	101	2.00	1.61	
Total Xylenes*	<0.150	0.150	07/01/2020	ND	6.37	106	6.00	1.24	
Total BTX	<0.300	0.300	07/01/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	07/01/2020	ND	416	104	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/01/2020	ND	171	85.5	200	22.9	
DRO >C10-C28*	383	10.0	07/01/2020	ND	166	83.0	200	22.1	
EXT DRO >C28-C36	534	10.0	07/01/2020	ND					

Surrogate: 1-Chlorooctane 84.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 99.0 % 42.2-156

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Analytical Results For:

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 Fax To: (575) 396-1429

Received:	06/30/2020	Sampling Date:	06/30/2020
Reported:	07/02/2020	Sampling Type:	Soil
Project Name:	JAL 4 COMPRESSOR STATION	Sampling Condition:	Cool & Intact
Project Number:	12242	Sample Received By:	Tamara Oldaker
Project Location:	ETC - LEA CO NM		

Sample ID: FL 9 @ 2' (H001711-13)

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	07/01/2020	ND	2.02	101	2.00	2.02		
Toluene*	<0.050	0.050	07/01/2020	ND	2.16	108	2.00	1.56		
Ethylbenzene*	<0.050	0.050	07/01/2020	ND	2.03	101	2.00	1.61		
Total Xylenes*	<0.150	0.150	07/01/2020	ND	6.37	106	6.00	1.24		
Total BTEx	<0.300	0.300	07/01/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	07/01/2020	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/01/2020	ND	171	85.5	200	22.9	
DRO >C10-C28*	658	10.0	07/01/2020	ND	166	83.0	200	22.1	
EXT DRO >C28-C36	886	10.0	07/01/2020	ND					

Surrogate: 1-Chlorooctane 90.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 104 % 42.2-156

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Analytical Results For:

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 Fax To: (575) 396-1429

Received:	06/30/2020	Sampling Date:	06/30/2020
Reported:	07/02/2020	Sampling Type:	Soil
Project Name:	JAL 4 COMPRESSOR STATION	Sampling Condition:	Cool & Intact
Project Number:	12242	Sample Received By:	Tamara Oldaker
Project Location:	ETC - LEA CO NM		

Sample ID: FL 10 @ 2' (H001711-14)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/01/2020	ND	2.02	101	2.00	2.02	
Toluene*	<0.050	0.050	07/01/2020	ND	2.16	108	2.00	1.56	
Ethylbenzene*	<0.050	0.050	07/01/2020	ND	2.03	101	2.00	1.61	
Total Xylenes*	<0.150	0.150	07/01/2020	ND	6.37	106	6.00	1.24	
Total BTX	<0.300	0.300	07/01/2020	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	07/01/2020	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/01/2020	ND	171	85.5	200	22.9	
DRO >C10-C28*	705	10.0	07/01/2020	ND	166	83.0	200	22.1	
EXT DRO >C28-C36	973	10.0	07/01/2020	ND					

Surrogate: 1-Chlorooctane 95.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 118 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/30/2020	Sampling Date:	06/30/2020
Reported:	07/02/2020	Sampling Type:	Soil
Project Name:	JAL 4 COMPRESSOR STATION	Sampling Condition:	Cool & Intact
Project Number:	12242	Sample Received By:	Tamara Oldaker
Project Location:	ETC - LEA CO NM		

Sample ID: FL 11 @ 2' (H001711-15)

BTX 8021B			mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/01/2020	ND	2.02	101	2.00	2.02		
Toluene*	<0.050	0.050	07/01/2020	ND	2.16	108	2.00	1.56		
Ethylbenzene*	<0.050	0.050	07/01/2020	ND	2.03	101	2.00	1.61		
Total Xylenes*	<0.150	0.150	07/01/2020	ND	6.37	106	6.00	1.24		
Total BTX	<0.300	0.300	07/01/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/01/2020	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/01/2020	ND	171	85.5	200	22.9	
DRO >C10-C28*	659	10.0	07/01/2020	ND	166	83.0	200	22.1	
EXT DRO >C28-C36	867	10.0	07/01/2020	ND					

Surrogate: 1-Chlorooctane 94.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 120 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/30/2020	Sampling Date:	06/30/2020
Reported:	07/02/2020	Sampling Type:	Soil
Project Name:	JAL 4 COMPRESSOR STATION	Sampling Condition:	Cool & Intact
Project Number:	12242	Sample Received By:	Tamara Oldaker
Project Location:	ETC - LEA CO NM		

Sample ID: FL 12 @ 2' (H001711-16)

BTEX 8021B			mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/01/2020	ND	2.02	101	2.00	2.02		
Toluene*	<0.050	0.050	07/01/2020	ND	2.16	108	2.00	1.56		
Ethylbenzene*	<0.050	0.050	07/01/2020	ND	2.03	101	2.00	1.61		
Total Xylenes*	<0.150	0.150	07/01/2020	ND	6.37	106	6.00	1.24		
Total BTEX	<0.300	0.300	07/01/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	07/01/2020	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/01/2020	ND	171	85.5	200	22.9	
DRO >C10-C28*	621	10.0	07/01/2020	ND	166	83.0	200	22.1	
EXT DRO >C28-C36	823	10.0	07/01/2020	ND					

Surrogate: 1-Chlorooctane 93.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 104 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/30/2020	Sampling Date:	06/30/2020
Reported:	07/02/2020	Sampling Type:	Soil
Project Name:	JAL 4 COMPRESSOR STATION	Sampling Condition:	Cool & Intact
Project Number:	12242	Sample Received By:	Tamara Oldaker
Project Location:	ETC - LEA CO NM		

Sample ID: FL 13 @ 2' (H001711-17)

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	07/01/2020	ND	2.02	101	2.00	2.02	
Toluene*	<0.050	0.050	07/01/2020	ND	2.16	108	2.00	1.56	
Ethylbenzene*	<0.050	0.050	07/01/2020	ND	2.03	101	2.00	1.61	
Total Xylenes*	<0.150	0.150	07/01/2020	ND	6.37	106	6.00	1.24	
Total BTEx	<0.300	0.300	07/01/2020	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	16.0	16.0	07/01/2020	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/01/2020	ND	171	85.5	200	22.9	
DRO >C10-C28*	506	10.0	07/01/2020	ND	166	83.0	200	22.1	
EXT DRO >C28-C36	739	10.0	07/01/2020	ND					

Surrogate: 1-Chlorooctane 92.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 104 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/30/2020	Sampling Date:	06/30/2020
Reported:	07/02/2020	Sampling Type:	Soil
Project Name:	JAL 4 COMPRESSOR STATION	Sampling Condition:	Cool & Intact
Project Number:	12242	Sample Received By:	Tamara Oldaker
Project Location:	ETC - LEA CO NM		

Sample ID: FL 14 @ 2' (H001711-18)

BTX 8021B			mg/kg		Analyzed By: ms				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/01/2020	ND	2.02	101	2.00	2.02	
Toluene*	<0.050	0.050	07/01/2020	ND	2.16	108	2.00	1.56	
Ethylbenzene*	<0.050	0.050	07/01/2020	ND	2.03	101	2.00	1.61	
Total Xylenes*	<0.150	0.150	07/01/2020	ND	6.37	106	6.00	1.24	
Total BTX	<0.300	0.300	07/01/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 73.3-129

Chloride, SM4500CI-B			mg/kg		Analyzed By: GM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/01/2020	ND	416	104	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/01/2020	ND	171	85.5	200	22.9	
DRO >C10-C28*	561	10.0	07/01/2020	ND	166	83.0	200	22.1	
EXT DRO >C28-C36	798	10.0	07/01/2020	ND					

Surrogate: 1-Chlorooctane 89.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 110 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
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

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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

BILL TO

ANALYSIS REQUEST

[illegible][illegible][illegible]

Relinquished By:

Received By:

Phone Result:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Add'l Phone #:
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Fax Result
REMARKS:

Yes	<input type="checkbox"/> No	Add'l Phone #:
Yes	<input type="checkbox"/> No	Add'l Fax #:

Relinquished By:

Date:

Received By:

Please email results to pm@etechenv.com

Bush! added 7/1 @ 1405
 70.

Delivered By: (Circle One)

Sample Condition

CHECKED BY:

Sampler - UPS - Bus - Other:

2.1c #113

☐ No ☐ No

一

FORM-006
Revision 1.0

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

22 jo 22 ebgd

**CARDINAL LABORATORIES**
 101 East Marland, Hobbs, NM 88240
 (575) 393-2326 FAX (575) 393-2476
CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ettech Environmental & Safety Solutions, Inc.		BILL TO		ANALYSIS REQUEST																				
Project Manager: Joel Leary		P.O. #:																						
Address: P.O. Box 301		Company: ETC																						
City: Lovington		Attn:																						
State: NM Zip: 88260		Address:																						
Phone #: (575) 396-2378 Fax #: (575) 396-1429		City:																						
Project #: 12242 Project Owner: ETC		State:																						
Project Name: Jul 4 compressor station		Zip:																						
Project Location: Lea County, NM		Phone #:																						
Sample Name: Miguel Ramirez		Fax #:																						
IR LAB USE ONLY																								
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.	SAMPLING														
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME										
4001711	FL7021	C	1			X							6-30-20		X	X	X							
	FL8021	C	1			X							6-30-20		X	X	X							
	FL9021	C	1			X							6-30-20		X	X	X							
	FL10021	C	1			X							6-30-20		X	X	X							
	FL11021	C	1			X							6-30-20		X	X	X							
	FL12021	C	1			X							6-30-20		X	X	X							
	FL13021	C	1			X							6-30-20		X	X	X							
	FL14021	C	1			X							6-30-20		X	X	X							
	FL15021	C	1			X							6-30-20		X	X	X							
	FL16021	C	1			X							6-30-20		X	X	X							
	FL17021	C	1			X							6-30-20		X	X	X							
	FL18021	C	1			X							6-30-20		X	X	X							
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Relinquished By: [Signature]	Date: 6-30-20	Time: 11:50	Received By: [Signature]																					
Relinquished By: [Signature]	Date: 7-16-20	Time: 14:05	Received By: [Signature]																					
Delivered By: (Circle One) Sampler - UPS - Bus - Other: 2.1c #113				Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				CHECKED BY: [Signature] (Initials)				REMARKS: Busch! added 7/16/20 7:00 PM												
FORM-006				Please email results to pm@etechnv.com.																				
Revision 1.0				† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476																				



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July 02, 2020

JOEL LOWRY

Etech Environmental & Safety Solutions

P.O. Box 301

Lovington, NM 88260

RE: JAL 4 COMPRESSOR STATION

Enclosed are the results of analyses for samples received by the laboratory on 07/01/20 14:05.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/01/2020	Sampling Date:	07/01/2020
Reported:	07/02/2020	Sampling Type:	Soil
Project Name:	JAL 4 COMPRESSOR STATION	Sampling Condition:	Cool & Intact
Project Number:	12242	Sample Received By:	Tamara Oldaker
Project Location:	ETC - LEA CO NM		

Sample ID: SW 1 (H001730-01)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/01/2020	ND	2.02	101	2.00	2.02	
Toluene*	<0.050	0.050	07/01/2020	ND	2.16	108	2.00	1.56	
Ethylbenzene*	<0.050	0.050	07/01/2020	ND	2.03	101	2.00	1.61	
Total Xylenes*	<0.150	0.150	07/01/2020	ND	6.37	106	6.00	1.24	
Total BTX	<0.300	0.300	07/01/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	07/02/2020	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/01/2020	ND	216	108	200	5.69	
DRO >C10-C28*	<10.0	10.0	07/01/2020	ND	236	118	200	6.04	
EXT DRO >C28-C36	<10.0	10.0	07/01/2020	ND					

Surrogate: 1-Chlorooctane 75.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 79.2 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 07/01/2020
 Reported: 07/02/2020
 Project Name: JAL 4 COMPRESSOR STATION
 Project Number: 12242
 Project Location: ETC - LEA CO NM

Sampling Date: 07/01/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW 2 (H001730-02)

BTX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/01/2020	ND	2.02	101	2.00	2.02		
Toluene*	<0.050	0.050	07/01/2020	ND	2.16	108	2.00	1.56		
Ethylbenzene*	<0.050	0.050	07/01/2020	ND	2.03	101	2.00	1.61		
Total Xylenes*	<0.150	0.150	07/01/2020	ND	6.37	106	6.00	1.24		
Total BTX	<0.300	0.300	07/01/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	07/02/2020	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/02/2020	ND	216	108	200	5.69	
DRO >C10-C28*	<10.0	10.0	07/02/2020	ND	236	118	200	6.04	
EXT DRO >C28-C36	<10.0	10.0	07/02/2020	ND					

Surrogate: 1-Chlorooctane 84.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 92.2 % 42.2-156

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Analytical Results For:

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

Received:	07/01/2020	Sampling Date:	07/01/2020
Reported:	07/02/2020	Sampling Type:	Soil
Project Name:	JAL 4 COMPRESSOR STATION	Sampling Condition:	Cool & Intact
Project Number:	12242	Sample Received By:	Tamara Oldaker
Project Location:	ETC - LEA CO NM		

Sample ID: EW 2 (H001730-03)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/01/2020	ND	2.02	101	2.00	2.02	
Toluene*	<0.050	0.050	07/01/2020	ND	2.16	108	2.00	1.56	
Ethylbenzene*	<0.050	0.050	07/01/2020	ND	2.03	101	2.00	1.61	
Total Xylenes*	<0.150	0.150	07/01/2020	ND	6.37	106	6.00	1.24	
Total BTX	<0.300	0.300	07/01/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/02/2020	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/02/2020	ND	216	108	200	5.69	
DRO >C10-C28*	<10.0	10.0	07/02/2020	ND	236	118	200	6.04	
EXT DRO >C28-C36	<10.0	10.0	07/02/2020	ND					

Surrogate: 1-Chlorooctane 85.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 90.2 % 42.2-156

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Analytical Results For:

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

Received:	07/01/2020	Sampling Date:	07/01/2020
Reported:	07/02/2020	Sampling Type:	Soil
Project Name:	JAL 4 COMPRESSOR STATION	Sampling Condition:	Cool & Intact
Project Number:	12242	Sample Received By:	Tamara Oldaker
Project Location:	ETC - LEA CO NM		

Sample ID: WW 2 (H001730-04)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/01/2020	ND	2.02	101	2.00	2.02	
Toluene*	<0.050	0.050	07/01/2020	ND	2.16	108	2.00	1.56	
Ethylbenzene*	<0.050	0.050	07/01/2020	ND	2.03	101	2.00	1.61	
Total Xylenes*	<0.150	0.150	07/01/2020	ND	6.37	106	6.00	1.24	
Total BTEX	<0.300	0.300	07/01/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/02/2020	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/02/2020	ND	216	108	200	5.69	
DRO >C10-C28*	<10.0	10.0	07/02/2020	ND	236	118	200	6.04	
EXT DRO >C28-C36	<10.0	10.0	07/02/2020	ND					

Surrogate: 1-Chlorooctane 109 % 44.3-144

Surrogate: 1-Chlorooctadecane 115 % 42.2-156

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Analytical Results For:

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 JOEL LOWRY
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 Fax To: (575) 396-1429

Received:	07/01/2020	Sampling Date:	07/01/2020
Reported:	07/02/2020	Sampling Type:	Soil
Project Name:	JAL 4 COMPRESSOR STATION	Sampling Condition:	Cool & Intact
Project Number:	12242	Sample Received By:	Tamara Oldaker
Project Location:	ETC - LEA CO NM		

Sample ID: FL 15 @ 1' (H001730-05)

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/01/2020	ND	2.02	101	2.00	2.02	
Toluene*	<0.050	0.050	07/01/2020	ND	2.16	108	2.00	1.56	
Ethylbenzene*	<0.050	0.050	07/01/2020	ND	2.03	101	2.00	1.61	
Total Xylenes*	<0.150	0.150	07/01/2020	ND	6.37	106	6.00	1.24	
Total BTEx	<0.300	0.300	07/01/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/02/2020	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/02/2020	ND	216	108	200	5.69	
DRO >C10-C28*	<10.0	10.0	07/02/2020	ND	236	118	200	6.04	
EXT DRO >C28-C36	<10.0	10.0	07/02/2020	ND					

Surrogate: 1-Chlorooctane 86.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 91.4 % 42.2-156

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Analytical Results For:

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Received:	07/01/2020	Sampling Date:	07/01/2020
Reported:	07/02/2020	Sampling Type:	Soil
Project Name:	JAL 4 COMPRESSOR STATION	Sampling Condition:	Cool & Intact
Project Number:	12242	Sample Received By:	Tamara Oldaker
Project Location:	ETC - LEA CO NM		

Sample ID: FL 16 @ 1' (H001730-06)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/01/2020	ND	1.89	94.3	2.00	3.58		
Toluene*	<0.050	0.050	07/01/2020	ND	1.89	94.6	2.00	3.90		
Ethylbenzene*	<0.050	0.050	07/01/2020	ND	1.92	96.1	2.00	3.95		
Total Xylenes*	<0.150	0.150	07/01/2020	ND	5.58	93.0	6.00	4.09		
Total BTEX	<0.300	0.300	07/01/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.1 % 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	07/02/2020	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/02/2020	ND	216	108	200	5.69	
DRO >C10-C28*	<10.0	10.0	07/02/2020	ND	236	118	200	6.04	
EXT DRO >C28-C36	<10.0	10.0	07/02/2020	ND					

Surrogate: 1-Chlorooctane 86.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 90.7 % 42.2-156

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Analytical Results For:

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

Received:	07/01/2020	Sampling Date:	07/01/2020
Reported:	07/02/2020	Sampling Type:	Soil
Project Name:	JAL 4 COMPRESSOR STATION	Sampling Condition:	Cool & Intact
Project Number:	12242	Sample Received By:	Tamara Oldaker
Project Location:	ETC - LEA CO NM		

Sample ID: FL 17 @ 3' (H001730-07)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/02/2020	ND	1.89	94.3	2.00	3.58		
Toluene*	<0.050	0.050	07/02/2020	ND	1.89	94.6	2.00	3.90		
Ethylbenzene*	<0.050	0.050	07/02/2020	ND	1.92	96.1	2.00	3.95		
Total Xylenes*	<0.150	0.150	07/02/2020	ND	5.58	93.0	6.00	4.09		
Total BTX	<0.300	0.300	07/02/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.6 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/02/2020	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/02/2020	ND	216	108	200	5.69	
DRO >C10-C28*	<10.0	10.0	07/02/2020	ND	236	118	200	6.04	
EXT DRO >C28-C36	<10.0	10.0	07/02/2020	ND					

Surrogate: 1-Chlorooctane 86.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 89.6 % 42.2-156

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Analytical Results For:

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

Received:	07/01/2020	Sampling Date:	07/01/2020
Reported:	07/02/2020	Sampling Type:	Soil
Project Name:	JAL 4 COMPRESSOR STATION	Sampling Condition:	Cool & Intact
Project Number:	12242	Sample Received By:	Tamara Oldaker
Project Location:	ETC - LEA CO NM		

Sample ID: FL 18 @ 3' (H001730-08)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/02/2020	ND	1.89	94.3	2.00	3.58	
Toluene*	<0.050	0.050	07/02/2020	ND	1.89	94.6	2.00	3.90	
Ethylbenzene*	<0.050	0.050	07/02/2020	ND	1.92	96.1	2.00	3.95	
Total Xylenes*	<0.150	0.150	07/02/2020	ND	5.58	93.0	6.00	4.09	
Total BTX	<0.300	0.300	07/02/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.3 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	07/02/2020	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/02/2020	ND	216	108	200	5.69	
DRO >C10-C28*	<10.0	10.0	07/02/2020	ND	236	118	200	6.04	
EXT DRO >C28-C36	<10.0	10.0	07/02/2020	ND					

Surrogate: 1-Chlorooctane 83.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 87.5 % 42.2-156

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Analytical Results For:

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

Received:	07/01/2020	Sampling Date:	07/01/2020
Reported:	07/02/2020	Sampling Type:	Soil
Project Name:	JAL 4 COMPRESSOR STATION	Sampling Condition:	Cool & Intact
Project Number:	12242	Sample Received By:	Tamara Oldaker
Project Location:	ETC - LEA CO NM		

Sample ID: FL 19 @ 3' (H001730-09)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/02/2020	ND	1.89	94.3	2.00	3.58	
Toluene*	<0.050	0.050	07/02/2020	ND	1.89	94.6	2.00	3.90	
Ethylbenzene*	<0.050	0.050	07/02/2020	ND	1.92	96.1	2.00	3.95	
Total Xylenes*	<0.150	0.150	07/02/2020	ND	5.58	93.0	6.00	4.09	
Total BTX	<0.300	0.300	07/02/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.3 % 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	07/02/2020	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/02/2020	ND	216	108	200	5.69	
DRO >C10-C28*	73.3	10.0	07/02/2020	ND	236	118	200	6.04	
EXT DRO >C28-C36	373	10.0	07/02/2020	ND					

Surrogate: 1-Chlorooctane 91.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 96.1 % 42.2-156

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Analytical Results For:

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 Fax To: (575) 396-1429

Received: 07/01/2020
 Reported: 07/02/2020
 Project Name: JAL 4 COMPRESSOR STATION
 Project Number: 12242
 Project Location: ETC - LEA CO NM

Sampling Date: 07/01/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 20 @ 3' (H001730-10)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/02/2020	ND	1.89	94.3	2.00	3.58	
Toluene*	<0.050	0.050	07/02/2020	ND	1.89	94.6	2.00	3.90	
Ethylbenzene*	<0.050	0.050	07/02/2020	ND	1.92	96.1	2.00	3.95	
Total Xylenes*	<0.150	0.150	07/02/2020	ND	5.58	93.0	6.00	4.09	
Total BTEX	<0.300	0.300	07/02/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.9 % 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	07/02/2020	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/02/2020	ND	216	108	200	5.69	
DRO >C10-C28*	<10.0	10.0	07/02/2020	ND	236	118	200	6.04	
EXT DRO >C28-C36	25.0	10.0	07/02/2020	ND					

Surrogate: 1-Chlorooctane 80.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 83.1 % 42.2-156

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Analytical Results For:

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 JOEL LOWRY
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 Fax To: (575) 396-1429

Received:	07/01/2020	Sampling Date:	07/01/2020
Reported:	07/02/2020	Sampling Type:	Soil
Project Name:	JAL 4 COMPRESSOR STATION	Sampling Condition:	Cool & Intact
Project Number:	12242	Sample Received By:	Tamara Oldaker
Project Location:	ETC - LEA CO NM		

Sample ID: FL 21 @ 1' (H001730-11)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/02/2020	ND	1.89	94.3	2.00	3.58	
Toluene*	<0.050	0.050	07/02/2020	ND	1.89	94.6	2.00	3.90	
Ethylbenzene*	<0.050	0.050	07/02/2020	ND	1.92	96.1	2.00	3.95	
Total Xylenes*	<0.150	0.150	07/02/2020	ND	5.58	93.0	6.00	4.09	
Total BTEX	<0.300	0.300	07/02/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.0 % 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	07/02/2020	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/02/2020	ND	216	108	200	5.69	
DRO >C10-C28*	12.6	10.0	07/02/2020	ND	236	118	200	6.04	
EXT DRO >C28-C36	47.1	10.0	07/02/2020	ND					

Surrogate: 1-Chlorooctane 87.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 90.3 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 07/01/2020
 Reported: 07/02/2020
 Project Name: JAL 4 COMPRESSOR STATION
 Project Number: 12242
 Project Location: ETC - LEA CO NM

Sampling Date: 07/01/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 22 @ 1' (H001730-12)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/02/2020	ND	1.89	94.3	2.00	3.58		
Toluene*	<0.050	0.050	07/02/2020	ND	1.89	94.6	2.00	3.90		
Ethylbenzene*	<0.050	0.050	07/02/2020	ND	1.92	96.1	2.00	3.95		
Total Xylenes*	<0.150	0.150	07/02/2020	ND	5.58	93.0	6.00	4.09		
Total BTEx	<0.300	0.300	07/02/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.1 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/02/2020	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/02/2020	ND	216	108	200	5.69	
DRO >C10-C28*	<10.0	10.0	07/02/2020	ND	236	118	200	6.04	
EXT DRO >C28-C36	<10.0	10.0	07/02/2020	ND					

Surrogate: 1-Chlorooctane 88.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 94.5 % 42.2-156

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Analytical Results For:

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

Received:	07/01/2020	Sampling Date:	07/01/2020
Reported:	07/02/2020	Sampling Type:	Soil
Project Name:	JAL 4 COMPRESSOR STATION	Sampling Condition:	Cool & Intact
Project Number:	12242	Sample Received By:	Tamara Oldaker
Project Location:	ETC - LEA CO NM		

Sample ID: FL 23 @ 1' (H001730-13)

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	07/02/2020	ND	1.89	94.3	2.00	3.58		
Toluene*	<0.050	0.050	07/02/2020	ND	1.89	94.6	2.00	3.90		
Ethylbenzene*	<0.050	0.050	07/02/2020	ND	1.92	96.1	2.00	3.95		
Total Xylenes*	<0.150	0.150	07/02/2020	ND	5.58	93.0	6.00	4.09		
Total BTEx	<0.300	0.300	07/02/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.2 % 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	80.0	16.0	07/02/2020	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/02/2020	ND	216	108	200	5.69	
DRO >C10-C28*	100	10.0	07/02/2020	ND	236	118	200	6.04	
EXT DRO >C28-C36	506	10.0	07/02/2020	ND					

Surrogate: 1-Chlorooctane 82.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 86.3 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/01/2020	Sampling Date:	07/01/2020
Reported:	07/02/2020	Sampling Type:	Soil
Project Name:	JAL 4 COMPRESSOR STATION	Sampling Condition:	Cool & Intact
Project Number:	12242	Sample Received By:	Tamara Oldaker
Project Location:	ETC - LEA CO NM		

Sample ID: FL 24 @ 1' (H001730-14)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/02/2020	ND	1.89	94.3	2.00	3.58	
Toluene*	<0.050	0.050	07/02/2020	ND	1.89	94.6	2.00	3.90	
Ethylbenzene*	<0.050	0.050	07/02/2020	ND	1.92	96.1	2.00	3.95	
Total Xylenes*	<0.150	0.150	07/02/2020	ND	5.58	93.0	6.00	4.09	
Total BTX	<0.300	0.300	07/02/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.3 % 73.3-129

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	07/02/2020	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/02/2020	ND	216	108	200	5.69	
DRO >C10-C28*	86.4	10.0	07/02/2020	ND	236	118	200	6.04	
EXT DRO >C28-C36	413	10.0	07/02/2020	ND					

Surrogate: 1-Chlorooctane 77.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 83.7 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/01/2020	Sampling Date:	07/01/2020
Reported:	07/02/2020	Sampling Type:	Soil
Project Name:	JAL 4 COMPRESSOR STATION	Sampling Condition:	Cool & Intact
Project Number:	12242	Sample Received By:	Tamara Oldaker
Project Location:	ETC - LEA CO NM		

Sample ID: FL 25 @ 1' (H001730-15)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/02/2020	ND	1.89	94.3	2.00	3.58	
Toluene*	<0.050	0.050	07/02/2020	ND	1.89	94.6	2.00	3.90	
Ethylbenzene*	<0.050	0.050	07/02/2020	ND	1.92	96.1	2.00	3.95	
Total Xylenes*	<0.150	0.150	07/02/2020	ND	5.58	93.0	6.00	4.09	
Total BTX	<0.300	0.300	07/02/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.0 % 73.3-129

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	07/02/2020	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/02/2020	ND	216	108	200	5.69	
DRO >C10-C28*	48.7	10.0	07/02/2020	ND	236	118	200	6.04	
EXT DRO >C28-C36	288	10.0	07/02/2020	ND					

Surrogate: 1-Chlorooctane 87.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 96.0 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/01/2020	Sampling Date:	07/01/2020
Reported:	07/02/2020	Sampling Type:	Soil
Project Name:	JAL 4 COMPRESSOR STATION	Sampling Condition:	Cool & Intact
Project Number:	12242	Sample Received By:	Tamara Oldaker
Project Location:	ETC - LEA CO NM		

Sample ID: FL 26 @ 1' (H001730-16)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/02/2020	ND	1.89	94.3	2.00	3.58	
Toluene*	<0.050	0.050	07/02/2020	ND	1.89	94.6	2.00	3.90	
Ethylbenzene*	<0.050	0.050	07/02/2020	ND	1.92	96.1	2.00	3.95	
Total Xylenes*	<0.150	0.150	07/02/2020	ND	5.58	93.0	6.00	4.09	
Total BTX	<0.300	0.300	07/02/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.6 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	07/02/2020	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/02/2020	ND	216	108	200	5.69	
DRO >C10-C28*	85.9	10.0	07/02/2020	ND	236	118	200	6.04	
EXT DRO >C28-C36	409	10.0	07/02/2020	ND					

Surrogate: 1-Chlorooctane 80.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 87.9 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/01/2020	Sampling Date:	07/01/2020
Reported:	07/02/2020	Sampling Type:	Soil
Project Name:	JAL 4 COMPRESSOR STATION	Sampling Condition:	Cool & Intact
Project Number:	12242	Sample Received By:	Tamara Oldaker
Project Location:	ETC - LEA CO NM		

Sample ID: FL 27 @ 1' (H001730-17)

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	07/02/2020	ND	1.89	94.3	2.00	3.58		
Toluene*	<0.050	0.050	07/02/2020	ND	1.89	94.6	2.00	3.90		
Ethylbenzene*	<0.050	0.050	07/02/2020	ND	1.92	96.1	2.00	3.95		
Total Xylenes*	<0.150	0.150	07/02/2020	ND	5.58	93.0	6.00	4.09		
Total BTEX	<0.300	0.300	07/02/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.2 % 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	80.0	16.0	07/02/2020	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/02/2020	ND	216	108	200	5.69	
DRO >C10-C28*	50.4	10.0	07/02/2020	ND	236	118	200	6.04	
EXT DRO >C28-C36	256	10.0	07/02/2020	ND					

Surrogate: 1-Chlorooctane 64.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 68.9 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/01/2020	Sampling Date:	07/01/2020
Reported:	07/02/2020	Sampling Type:	Soil
Project Name:	JAL 4 COMPRESSOR STATION	Sampling Condition:	Cool & Intact
Project Number:	12242	Sample Received By:	Tamara Oldaker
Project Location:	ETC - LEA CO NM		

Sample ID: FL 28 @ 1' (H001730-18)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/02/2020	ND	1.89	94.3	2.00	3.58		
Toluene*	<0.050	0.050	07/02/2020	ND	1.89	94.6	2.00	3.90		
Ethylbenzene*	<0.050	0.050	07/02/2020	ND	1.92	96.1	2.00	3.95		
Total Xylenes*	<0.150	0.150	07/02/2020	ND	5.58	93.0	6.00	4.09		
Total BTEX	<0.300	0.300	07/02/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.4 % 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	80.0	16.0	07/02/2020	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/02/2020	ND	216	108	200	5.69	
DRO >C10-C28*	82.8	10.0	07/02/2020	ND	236	118	200	6.04	
EXT DRO >C28-C36	395	10.0	07/02/2020	ND					

Surrogate: 1-Chlorooctane 88.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 94.9 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in cursive script, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

22 jo 12 ebgd



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.		P.O. #:		BILL TO		ANALYSIS REQUEST	
Project Manager: Joel Lowry		Company: ETC					
Address: P.O. Box 301		Attn:					
City: Lovington		Address:					
Phone #: (575) 396-2378		City:					
Fax #: (575) 396-1429		State:					
Project #: 10249		Zip:					
Project Name: JULY COMPRESSOR STATION		Phone #:					
Project Location: Lea County (Jal, NM)		Fax #:					
Sampler Name: Miguel Ramirez							

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	ANALYSIS REQUEST					
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :			ACID/BASE:	ICE / COOL	OTHER :	Chloride	TPH (8015M)	BTEX (8021B)
HDD1730	SW1	C	1	X						7.1.20			X	X	X		
	SW2	C	1	X						7.1.20			X	X	X		
	EW2	C	1	X						7.1.20			X	X	X		
	WW2	C	1	X						7.1.20			X	X	X		
	FL15Q1	C	1	X						7.1.20			X	X	X		
	FL16Q1	C	1	X						7.1.20			X	X	X		
	FL17Q3	C	1	X						7.1.20			X	X	X		
	FL18Q3	C	1	X						7.1.20			X	X	X		
	FL19Q3	C	1	X						7.1.20			X	X	X		
	FL20Q3	C	1	X						7.1.20			X	X	X		

PLEASE NOTE: Liability and Damages, Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: *[Signature]* Date: 7-1-20 Time: 1405 Received By: *[Signature]* Date: 7-1-20 Time: 1405

Delivered By: (Circle One) *-O.C. #113* Sample Condition: ☒ Cool ☐ Intact ☐ Yes ☒ No ☐ No

FORM-006
Revision 1.0

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

REMARKS: *Bush!*

Please email results to pm@etechenv.com.

22 jo 22 eba



ARDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etch Environmental & Safety Solutions, Inc.

Project Manager: Joe Levy

Address: P.O. Box 301

City: Lovington

Phone #: (575) 396-2378

State: NM Zip: 88260

Project #: 12242

Project Name: Tail 4 compressor station

Project Location: Lea County, NM

Sample Name: Miguel Ramirez

JR LAB USE ONLY

BILL TO

P.O. #:

Company: ETC

Attn:

Address:

City:

State:

Zip:

Phone #:

Fax #:

ANALYSIS REQUEST

Lab I.D.

Sample I.D.

HDD173D

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER:

ACID/BASE:

ICE / COOL

OTHER:

DATE

TIME

Chloride

TPH (8015M)

BTEX (8021B)

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Relinquished By:

Date: 7-1-20

Received By:

Phone Result:

Fax Result:

Add'l Phone #:

Add'l Fax #:

REMARKS:

Relinquished By:

Date: 7-1-20

Received By:

Phone Result:

Fax Result:

Add'l Phone #:

Add'l Fax #:

REMARKS:

Delivered By: (Circle One)

Date: 7-1-20

Received By:

Phone Result:

Fax Result:

Add'l Phone #:

Add'l Fax #:

REMARKS:

Sampler - UPS - Bus - Other:

Date: 7-1-20

Received By:

Phone Result:

Fax Result:

Add'l Phone #:

Add'l Fax #:

REMARKS:

FORM-006
Revision 1.0

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



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

July 07, 2020

JOEL LOWRY

Etech Environmental & Safety Solutions

P.O. Box 301

Lovington, NM 88260

RE: JAL 4 COMPRESSOR STATION

Enclosed are the results of analyses for samples received by the laboratory on 07/06/20 16:00.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/06/2020	Sampling Date:	07/06/2020
Reported:	07/07/2020	Sampling Type:	Soil
Project Name:	JAL 4 COMPRESSOR STATION	Sampling Condition:	Cool & Intact
Project Number:	12242	Sample Received By:	Tamara Oldaker
Project Location:	ETC - LEA CO NM		

Sample ID: WW - 1B (H001762-01)

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	07/06/2020	ND	181	90.6	200	0.0215	
DRO >C10-C28*	<10.0	10.0	07/06/2020	ND	193	96.6	200	0.138	
EXT DRO >C28-C36	<10.0	10.0	07/06/2020	ND					
<hr/>									
Surrogate: 1-Chlorooctane	87.7 %	44.3-144							
Surrogate: 1-Chlorooctadecane	90.0 %	42.2-156							

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

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

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



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

ANALYSIS REQUEST

[illegible]

TP
BT

[illegible][illegible][illegible]

Phone Result:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Add'l Phone #:
Fax Result:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Add'l Fax #:
REMARKS:			

Please email results to lpnnc@atnpharm.com and iscl@atnpharm.com

Push!

Push!

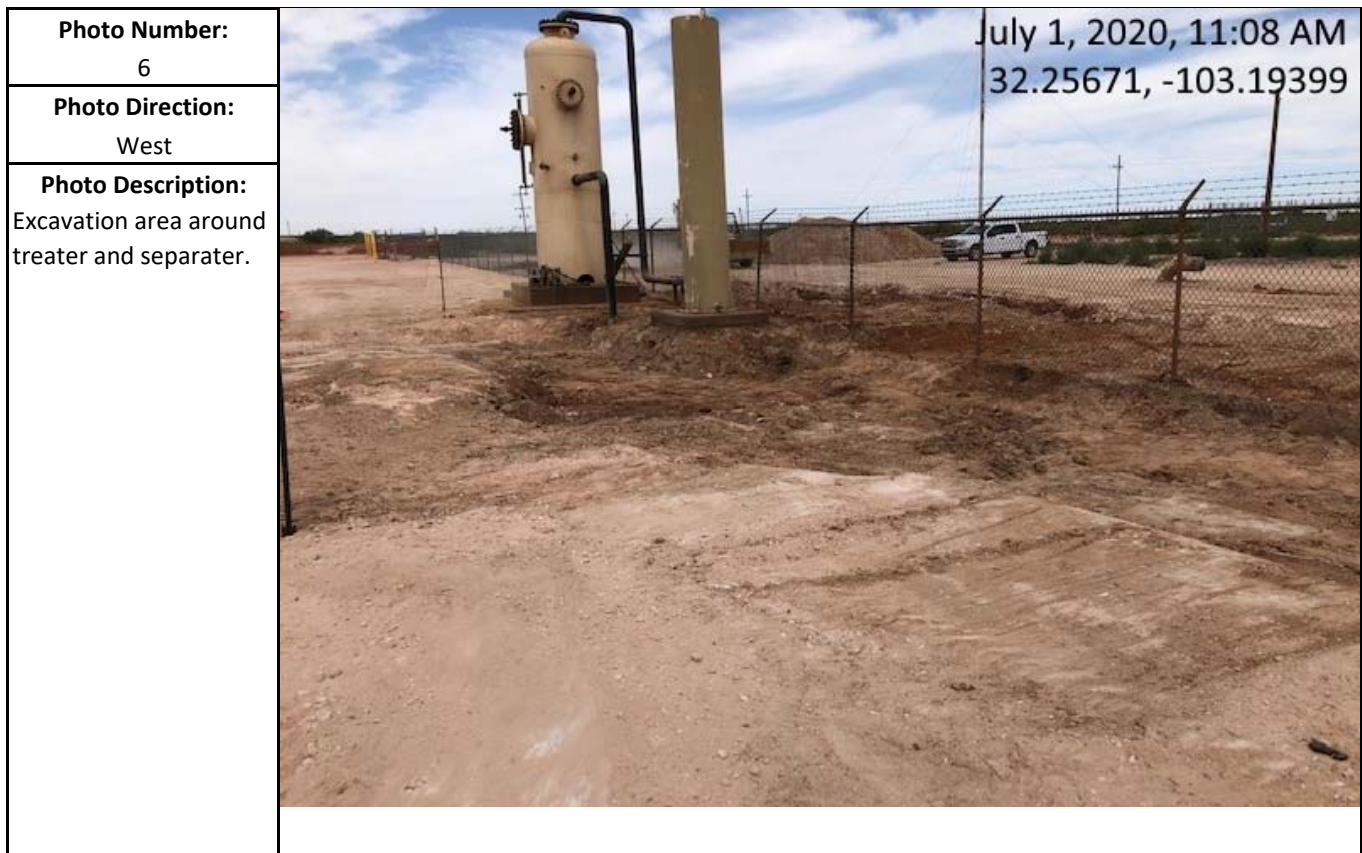
Appendix D

Photographic Log

Photographic Log



Photographic Log



Photographic Log

Photo Number: 5	 <p>July 1, 2020, 11:08 AM 32.25678, -103.19388</p>
Photo Direction: West	
Photo Description: Excavation area north of fence line.	

Photo Number: 6	 <p>7/10/20, 10:29 AM +32.256927, -103.194177 ±5.00m 156° SE</p>
Photo Direction: South	
Photo Description: North fence excavation area after backfill and grading.	

Photographic Log

