



September 23, 2019

Dylan Rose-Coss  
 New Mexico Energy, Minerals and Natural Resources Department  
 Oil Conservation Division, District 1  
 1625 French Drive  
 Hobbs, NM 88240

Incident ID	pending
District RP	1RP-5410
Facility ID	fAB1908835112
Application ID	pAB1908835332

**Re: Remediation Summary and Closure Report**  
**Site Name: 2C-3-4**  
**GPS: Latitude: 32.1748 Longitude: -103.0959**  
**Legals: UL "G", Sec. 31, T24S, R38E**  
**Lea County, New Mexico**  
**NMOCD Ref. No. 1RP-5410**

Lowry Environmental & Associates, LLC (LEA), on behalf of ETC Texas Pipeline, Ltd., has prepared this Remediation Summary and Closure Report for the Release Site known as the 2C-3-4. Details of the release are summarized on the table below:

Nature and Volume of Release	
<b>Date Release Discovered</b>	3/6/2019
<b>Type of Release</b>	Natural Gas Liquids
<b>Source of Release</b>	Pipeline
<b>Volume Released (bbls)</b>	9.4
<b>Volume Recovered (bbls)</b>	None
<b>Cause of Release</b> The release was attributed to the failure of a segment of buried natural gas pipeline as a result of corrosion.	
<b>Affected Area</b> The release saturated an area within a pipeline right-of-way and adjacent pasture land totaling approximately 2,490 sq. ft; a light mist affected an additional area measuring approximately 9,300 sq. ft.	
<b>Was this a major release?</b>	<b>If YES, for what reasons (s) is this considered a major release?</b>
No	N/A
<b>If Yes, was immediate notice given to the OCD? By whom? To whom? When and by what means?</b>	
N/A	

A copy of the Release Notification (NMOCD Form C-141) is provided as Attachment #8.

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Site Assessment/Characterization	
What is the shallowest depth to groundwater beneath the area affected by the release?	50-100 Ft.
Did this release impact groundwater or surface water?	No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	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)?	No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	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?	No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	No
Are the lateral extents of the release within 300 feet of a wetland?	No
Are the lateral extents of the release overlying a subsurface mine?	No
Are the lateral extents of the release overlying an unstable area such as karst geology?	No
Are the lateral extents of the release within a 100-year floodplain?	No
Did the release impact areas <b>not</b> on an exploration, development, production or storage site?	Yes

A search of groundwater databases maintained by the New Mexico Office of the State Engineer (NMOSE) and United States Geological Survey was conducted in an effort to determine the depth to groundwater within a 1 Mile radius of the Site and identify any registered water wells within a 1/2 Mile radius of the Site. A search of the NMOSE and USGS databases suggested the presence of 1 water well (321017103060401) 0.42 Mi of the Site.

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	
Benzene	10 mg/kg
Benzene, Toluene, Ethylbenzene and Total Xylenes (BTEX)	50 mg/kg
Total Petroleum Hydrocarbons	2500 mg/kg
Combined GRO and DRO	1000 mg/kg
Chloride	10000 mg/kg

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. Depth to groundwater information is provided as Attachment #4. A Photographic Log is provided as Attachment #7.

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## INITIAL SITE ASSESSMENT

On **March 27, 2019**, LEA conducted an initial site assessment. During the initial site assessment, fourteen (14) representative soil samples (V-1 @ 0-6", V-1 @ 4', V-1 @ 6'-R V-2 @ 0-6", V-2 @ 2', NH-1 @ 0-6", NH-1 @ 20", NH-1b @ 0-6", NH-1b @ 12", EH-1 @ 0-6", EH-1 @ 24", SH-1 @ 0-6", SH-1 @ 24", WH-1 @ 0-6", WH-1 @ 24") were collected from the affected area in an effort to determine the vertical and horizontal extent of soil impacts. The collected soil samples were submitted to the laboratory for analysis of BTEX, TPH and chloride. Laboratory analytical results indicated BTEX, TPH and chloride concentrations were below the NMOCD Closure Criteria in each of the submitted soil samples with the exception of the TPH concentrations in soil samples V-1 @ 0-6", V-1 @ 4', V-2 @ 0-6" .

A table summarizing laboratory analytical results from soil samples collected during the initial site assessment is provided below:

Concentrations of BTEX, TPH and/or Chloride in Soil - Initial Assessment											
Sample ID	Date	Depth	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C <sub>6</sub> -C <sub>10</sub> (mg/kg)	DRO C <sub>10</sub> -C <sub>28</sub> (mg/kg)	GRO + DRO C <sub>6</sub> -C <sub>28</sub> (mg/kg)	ORO C <sub>28</sub> -C <sub>36</sub> (mg/kg)	TPH C <sub>6</sub> -C <sub>36</sub> (mg/kg)	Chloride (mg/kg)
V-1 @ 0-6"	3/27/19	0-6"	Excavated	Excavated	<0.300	<50.0	5,380	<b>5,380</b>	1,240	<b>6,620</b>	80.0
V-1 @ 4'	3/27/19	4'	Excavated	Excavated	11.2	651	29,600	<b>30,251</b>	7,660	<b>37,911</b>	480
V-1 @ 6'-R	3/27/19	6'	Excavated	Excavated	<0.300	<10.0	334	334	88	422	16.0
V-2 @ 0-6"	3/27/19	0-6"	Excavated	Excavated	<0.300	<50.0	5,860	<b>5,860</b>	1,640	<b>7,500</b>	80.0
V-2 @ 2'	3/27/19	2'	In-Situ	<0.050	<0.300	<10.0	29.7	29.7	<10.0	29.7	16.0
NH-1 @ 0-6"	3/27/19	0-6"	Excavated	Excavated	<0.300	<10.0	819	819	170	989	16.0
NH-1 @ 20"	3/27/19	20"	In-Situ	<0.050	<0.300	<10.0	26.5	26.5	<10.0	26.5	16.0
NH-1b @ 0-6"	3/27/19	0-6"	In-Situ	<0.050	<0.300	<10.0	18.1	<10.0	18.1	18.1	16.0
NH-1b @ 12"	3/27/19	12"	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
EH-1 @ 0-6"	3/27/19	0-6"	In-Situ	<0.050	<0.300	<10.0	16.2	16.2	<10.0	16.2	16.0
EH-1 @ 24"	3/27/19	24"	In-Situ	<0.050	0.405	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SH-1 @ 0-6"	3/27/19	0-6"	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SH-1 @ 24"	3/27/19	24"	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
WH-1 @ 0-6"	3/27/19	0-6"	In-Situ	<0.050	<0.300	<10.0	19.9	19.9	<10.0	19.9	16.0
WH-1 @ 24"	3/27/19	24"	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
<b>Closure Criteria</b>				<b>10</b>	<b>50</b>	<b>-</b>	<b>-</b>	<b>1,000</b>	<b>-</b>	<b>2,500</b>	<b>10,000</b>

A "Site & Sample Location Map" is provided as Attachment #3. Field Data, if applicable, is provided as Attachment #9. Soil profile observations are provided on Attachment #5. Laboratory analytical reports are provided as Attachment #6.

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## PROPOSED REMEDIATION PLAN

Based on laboratory analytical results, site characteristics and field observations made during the initial site assessment, ETC Texas Pipeline, Ltd. proposed the following remediation activities designed to advance the Site toward an approved closure:

- Utilizing mechanical equipment, excavate impacted soil in the area characterized by sample point V-1 to a depth beyond 4 Ft. bgs, the area characterized by sample point V-2 to a depth of approximately 2 ft. bgs and the area characterized by sample point NH-1 to a depth of approximately 20 inches (in.).
- The floor and sidewalls of the excavation will be advanced until laboratory analytical results from confirmation soil samples indicate concentrations of BTEX, TPH and chloride are below the NMOCD Closure Criteria
- Vegetation within the "lightly misted area" will be monitored for "die off". In the event vegetation is lost, affected areas will be excavated and/or in accordance with the landowner. ETC maintains scraping the affected pasture poses a risk to the existing grass stand.
- Excavated soil will be temporarily stockpiled on-site, atop an impermeable liner, pending transportation under manifest to an NMOCD-approved disposal facility.
- Upon excavating impacted soil affected above the NMOCD Closure Criteria and receiving laboratory analytical results from confirmation soil samples, the excavated area will be backfilled with locally sourced, non-impacted "like" material. Excavation backfill will be placed at or near original relative positions. The affected area will be contoured and/or compacted to achieve erosion control, stability and preservation of surface water flow to the extent practicable.

## SAMPLING PLAN

Upon completion of excavation activities, representative five-point composite excavation confirmation soil samples will be collected from the excavation sidewalls in each cardinal direction, representing no more than **50 linear ft.** A minimum of **one (1)** representative five-point composite excavation confirmation soil sample will be collected from the base of the excavated area representing every **500 square feet.** Additional, "discrete" confirmation soil samples will be collected from wet or visibly stained areas inferred to have been affected by the release, as necessary.

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## NMOCD APPROVALS/STIPULATIONS

The Site Assessment Report and Proposed Remediation Plan was subsequently approved with the condition that the Site be delineated vertically to 100 mg/kg TPH.

Please reference the associated Site Assessment Report and Proposed Remediation Plan that was submitted for 1RP-5410 additional details.

## REMEDIATION ACTIVITIES SUMMARY

On **August 8, 2019**, remediation activities commenced at the release site. Impacted soil affected above the NMOCD Closure Criteria was excavated and temporarily stockpiled on-site, pending final disposition. Impacted soil affected above the NMOCD Reclamation Standard present within the top 4 Ft. was excavated and temporarily stockpiled on-site, pending final disposition.

On **August 9, 2019**, LEA collected twelve (13) excavation confirmation soil samples (E. Floor @ 2', Floor @ 7', W. Floor @ 2', N. Floor @ 2' #1, N. Floor @ 2' #2, NSWa, ESWa, SSWa, WSWa, NSWb, ESWb, SSWa-b and WSWb) from the floor and sidewalls of the excavated area. The collected soil samples were submitted to the laboratory for analysis of BTEX, TPH and chloride concentrations. Laboratory analytical results indicated BTEX, TPH and chloride concentrations were below the NMOCD Closure Criteria in each of the submitted soil samples. TPH and chloride concentrations were below the NMOCD Reclamation Standard in each of the submitted soil samples with the exception of soil sample N. Floor @ 2' #2 (168 mg/kg), ESWa (206 mg/kg) and NSWb (259.1 mg/kg).

In addition, in accordance with the NMOCD, one (1) test trench (TT-1) was advanced adjacent to the inferred release point. During the advancement of the test trench, one (1) soil sample (TT-1 @ 11') was collected and submitted to the laboratory for analysis of TPH and chloride concentrations. Laboratory analytical results indicated TPH and chloride concentrations were below the NMOCD Reclamation Standard.

Upon receiving laboratory analytical results from the initial soil samples, remediation activities resumed at the release site. Impacted soil in the areas characterized by soil samples N. Floor @ 2' #2, ESWa and NSWb was excavated and transported to and NMOCD-approved disposal facility.

On **August 14, 2019**, two (2) excavation confirmation soil samples (N. Floor #2 8-14 and ESWa 8-14) were collected from the floor and sidewalls of the excavated area and submitted to an NMOCD-approved laboratory for analysis of BTEX, TPH and chloride concentrations, which were determined to be below the NMOCD Reclamation Standard.

On **September 18, 2019**, three (3) additional confirmation soil samples (NW FL-1 @ 3", NW FL-2 @ 3" and EH-1C @ Surf.) were collected from the affected area and submitted to an NMOCD-approved laboratory for analysis of TPH concentrations, which were determined to be less than the laboratory sample detection limit.

A table summarizing laboratory analytical results from confirmation soil samples is provided on the following page:

Incident ID	pending
District RP	1RP-5410
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Concentrations of BTEX, TPH and/or Chloride in Soil - Confirmation Samples											
Sample ID	Date	Depth	Soil Status	SW 846 8021B		SW 846 8015M Ext.					E300/4500Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C <sub>6</sub> -C <sub>10</sub> (mg/kg)	DRO C <sub>10</sub> -C <sub>28</sub> (mg/kg)	GRO + DRO C <sub>6</sub> -C <sub>28</sub> (mg/kg)	ORO C <sub>28</sub> -C <sub>36</sub> (mg/kg)	TPH C <sub>6</sub> -C <sub>36</sub> (mg/kg)	Chloride (mg/kg)
E. Floor @ 2'	8/9/19	2'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
Floor @ 7'	8/9/19	7'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
W. Floor @ 2'	8/9/19	2'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
N. Floor @ 2' #1	8/9/19	2'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
N. Floor @ 2' #2	8/9/19	2'	Excavated	<0.050	<0.300	<10.0	121	121	47.3	<b>168</b>	<16.0
NSWa	8/9/19	NA	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
ESWa	8/9/19	NA	Excavated	<0.050	<0.300	<10.0	135	135	71.3	<b>206</b>	16.0
SSWa	8/9/19	NA	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
WSWa	8/9/19	NA	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
NSWb	8/9/19	NA	Excavated	<0.050	<0.300	<10.0	172	172	87.1	259.1	16.0
ESWb	8/9/19	NA	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SSWa-b	8/9/19	NA	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
WSWb	8/9/19	NA	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
TT-1 @ 11'	8/9/19	0-2'	In-Situ	-	-	<10.0	16.0	16.0	<10.0	16.0	32.0
N. Floor #2 8-14	8/14/19	4'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
ESWa 8-14	8/14/19	NA	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
NW FL-1 @ 3"	9/18/19	3"	In-Situ	-	-	<10.0	<10.0	<10.0	<10.0	<10.0	-
NW FL-2 @ 3"	9/18/19	3"	In-Situ	-	-	<10.0	<10.0	<10.0	<10.0	<10.0	-
EH-1C @ Surf.	9/18/19	Surf.	In-Situ	-	-	<10.0	<10.0	<10.0	<10.0	<10.0	-
<b>Closure Criteria</b>				<b>10</b>	<b>50</b>	<b>-</b>	<b>-</b>	<b>1,000</b>	<b>-</b>	<b>2,500</b>	<b>10,000</b>

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## CLOSURE REQUEST

Remediation activities were conducted in accordance with an NMOCD-approved Workplan. 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 indicated BTEX, TPH and chloride concentrations were below the NMOCD Closure Criteria/NMOCD Reclamation Standard in each of the submitted soil samples. Between August 8 and August 14, 2019, approximately 120 cubic yards of impacted soil was excavated and transported to an NMOCD-approved disposal facility. The final dimensions of the excavated area were approximately

## RESTORATION AND RE-VEGETATION PLAN

Upon receiving laboratory analytical results from confirmation soil samples, the excavated area was backfilled with locally sourced, non-impacted "like" material placed at or near original relative positions. Excavation backfill was contoured and/or compacted to achieve erosion control, stability and preservation of surface water flow to the extent practicable. Areas affected by remediation activities will be reseeded with an agency and/or landowner-approved seed mixture during the first favorable growing season following closure of the site.

Based on laboratory analytical results, field activities conducted to date and conditions at the site, LEA recommends ETC Texas Pipeline, Ltd. provide a copy of this Remediation Summary and Closure Report to the NMOCD and request closure be granted to the 2C-3-4 Site.

Respectfully,



Joel W. Lowry  
Environmental Professional  
Lowry Environmental & Associates, LLC

- Attachments:**
- Attachment #1- Figure 1 - Topographic Map
  - Attachment #2- Figure 2 - Aerial Map
  - Attachment #3- Figure 3 - Site & Sample Location Map
  - Attachment #4- Depth to Groundwater Information
  - Attachment #5- Soil Profile
  - Attachment #6- Laboratory Analytical Reports
  - Attachment #7- Photographic Log
  - Attachment #8- Release Notification (FORM C-141)
  - Attachment #9- Field Data

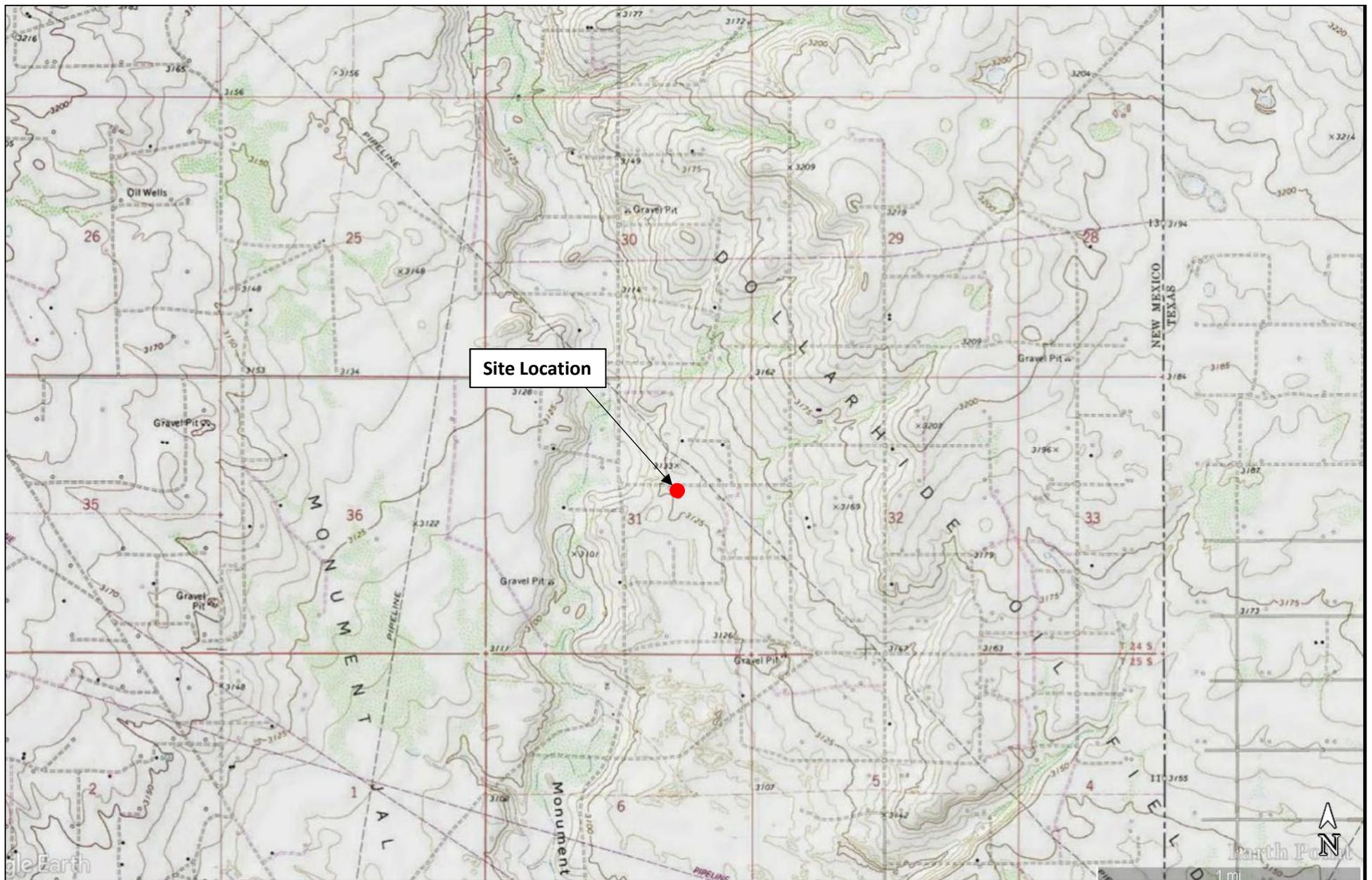
## **LIMITATIONS**

This document has been prepared on behalf of ETC Texas Pipeline, Ltd.. Use of information contained in this report, including exhibits and attachments, by any other party without the consent of LEA and/or ETC Texas Pipeline, Ltd. is prohibited.

This document has been prepared in a professional manner, using the degree of skill and care exercised by similar environmental professionals. LEA notes that the facts and conditions referenced in this document may change over time and that the conclusions and recommendations are only applicable to the facts and conditions as described at the time this document was prepared.

LEA has prepared this report to the best of its ability. No other warranty, expressed or implied, is made or intended.

**ATTACHMENT #1**  
**Figure 1 - Topographic Map**



**LEGEND:**

<span style="color: red;">●</span>	Site Location
------------------------------------	---------------

**Figure 1**  
 Topographic Map  
 ETC Texas Pipeline, Ltd.  
 2C-3-4  
 GPS: 32.1748, -103.0959  
 Lea County, New Mexico

  
**LOWRY**  
 environmental

Drafted by: jwl    Checked by: client    Date: 4/6/2019

**ATTACHMENT #2**  
**Figure 2 - Aerial Map**



**LEGEND:**

	Site Location		Non-Industrial Building
	Fresh Water Well		Subsurface Mine
	100-Year Floodplain		Playa Lake
	High/Critical Karst		1/2 Mi Radius

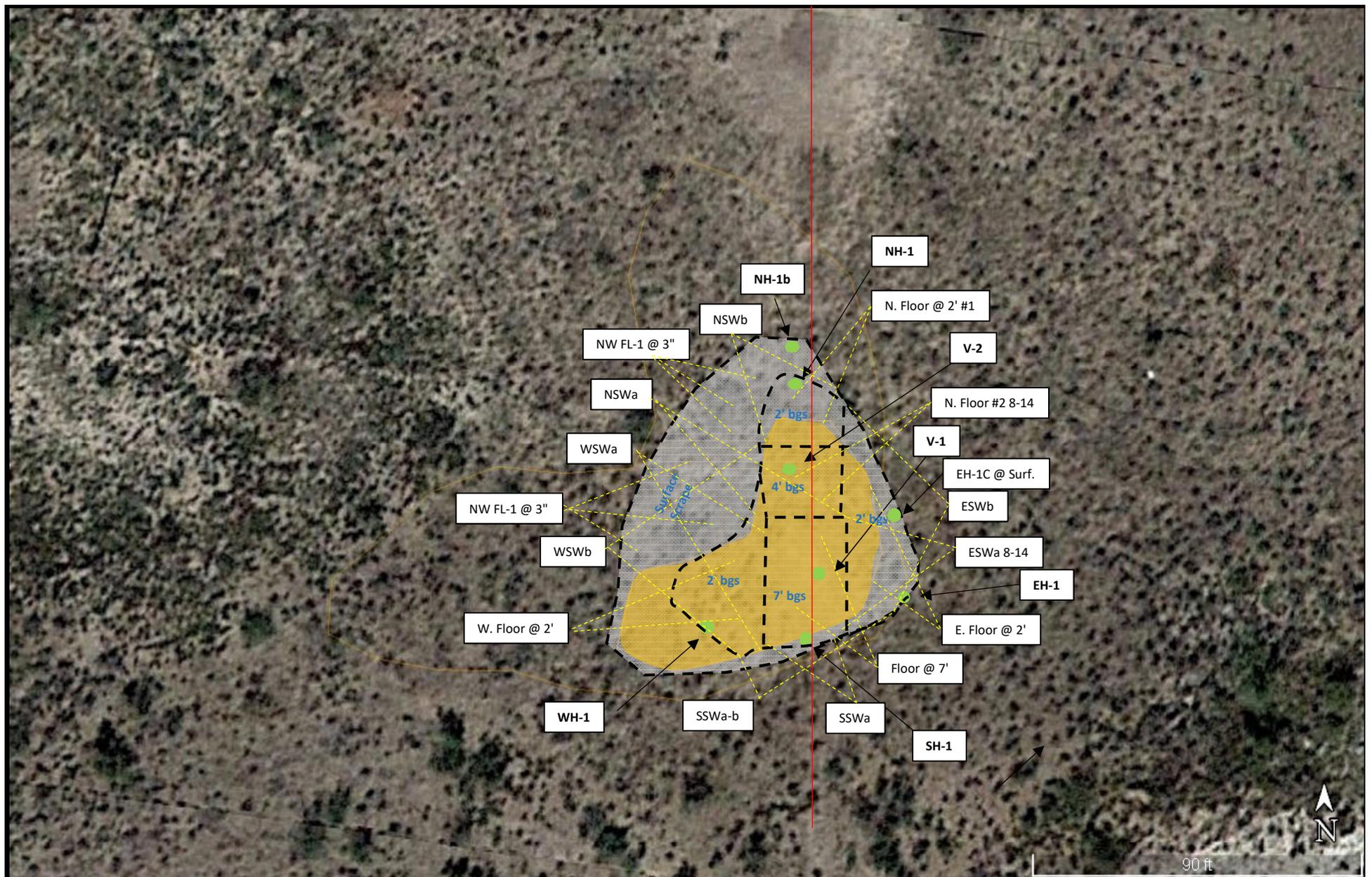
**Figure 2**  
 Aerial Map  
 ETC Texas Pipeline, Ltd.  
 2C-3-4  
 GPS: 32.1748, -103.0959  
 Lea County, New Mexico

**LOWRY**  
 environmental



Drafted by: jwl    Checked by: client    Date: 4/6/2019

**ATTACHMENT #3**  
**Figure 3 - Site & Sample Location Map**



**LEGEND:**

<span style="color: green;">●</span>	Delineation Sample Point
<span style="background-color: yellow; border: 1px solid black; border-radius: 50%; display: inline-block; width: 15px; height: 10px;"></span>	Affected Area
<span style="border-bottom: 1px solid red; width: 20px; display: inline-block;"></span>	Buried Pipeline
<span style="border: 1px dashed black; width: 20px; height: 10px; display: inline-block;"></span>	Excavated Area

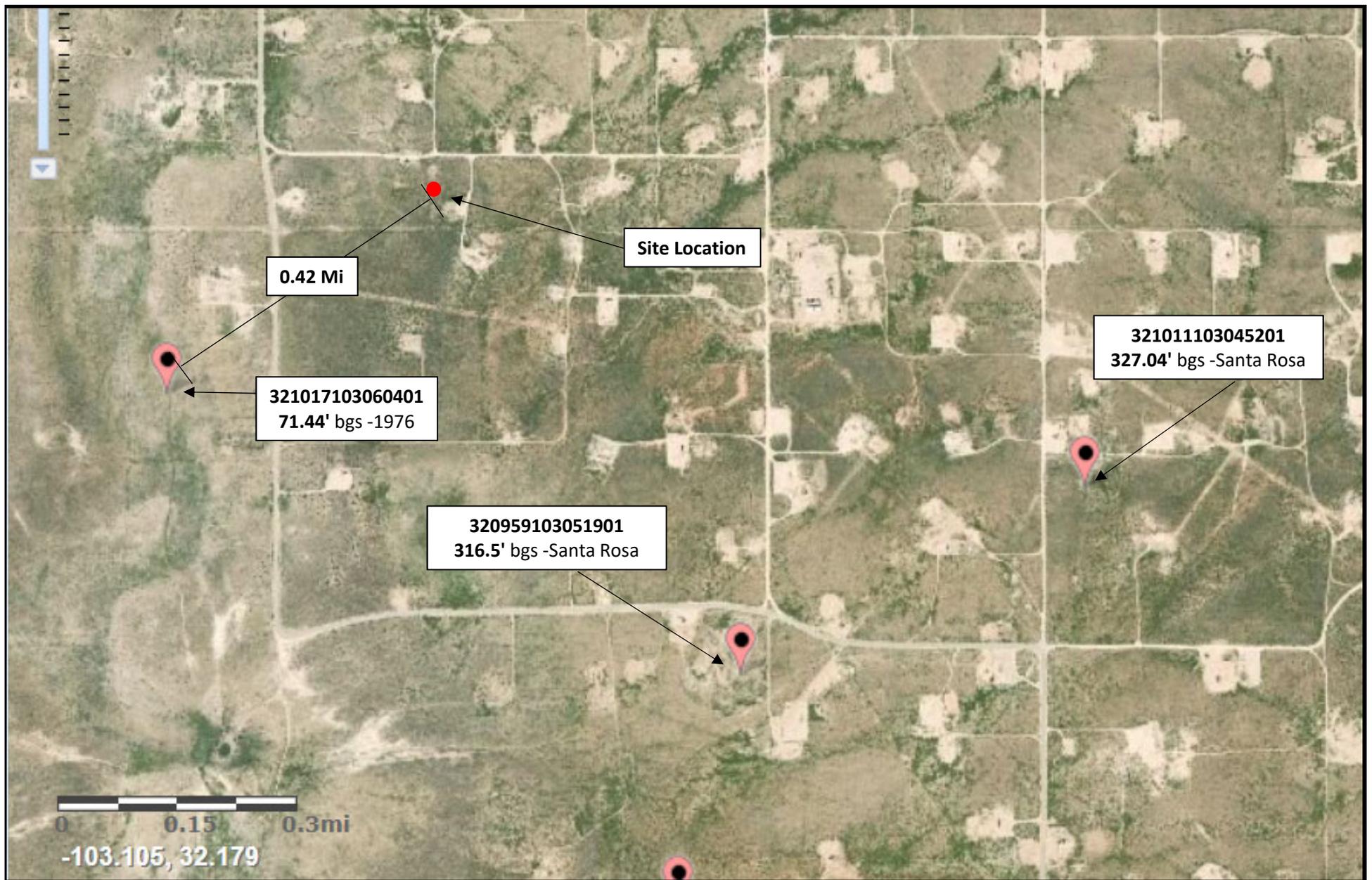
**Figure 3**  
 Site & Sample Location Map  
 ETC Texas Pipeline, Ltd.  
 2C-3-4  
 GPS: 32.1748, -103.0959  
 Lea County, New Mexico

**LOWRY**  
 environmental



Drafted by: jwl    Checked by: client    Date: 11/21/2019

**ATTACHMENT #4**  
**Depth to Groundwater Information**



**LEGEND:**

● Site Location

**Figure 4**  
 USGS Well Proximity Map  
 ETC Texas Pipeline, Ltd.  
 2C-3-4  
 GPS: 32.1748, -103.0959  
 Lea County, New Mexico

**LOWRY**  
 environmental



Drafted by: jwl    Checked by: client    Date: 8/24/2019



# 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 6	Q 4	Q 2	Q 3	Sec	Tw	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
<a href="#">CP 00085 POD1</a>		CP	LE	4	2	2	36	24S	37E	678261	3561768*		1322	109	82	27
<a href="#">CP 00084 POD1</a>		CP	LE	2	2	2	36	24S	37E	678261	3561968*		1391	98	77	21
<a href="#">CP 00084 POD2</a>		CP	LE	2	4	36	24S	37E	678176	3561065*		1395	180	92	88	
Average Depth to Water:															<b>83 feet</b>	
Minimum Depth:															<b>77 feet</b>	
Maximum Depth:															<b>92 feet</b>	

**Record Count:** 3

**UTMNAD83 Radius Search (in meters):**

**Easting (X):** 679531.1

**Northing (Y):** 3561400.3

**Radius:** 1610

\*UTM location was derived from PLSS - see Help

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

4/3/19 3:04 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER



National Water Information System Web Interface  
 USGS Water Resources

?	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	?	USGS Home Contact Search USGS Method of measurement	?	Meas agency
Data Category:					Geographic Area:							
Groundwater					United States							
												GO

Click to hide News Bulletins

- [Introducing The Next Generation of USGS Water Data for the Nation](#)
- [Full News](#)

Groundwater levels for the Nation

**Search Results -- 1 sites found**

Agency code = usgs  
 site\_no list = 

- 321017103060401

Minimum number of levels = 1

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

**USGS 321017103060401 24S.38E.31.142114**

Lea County, New Mexico

Latitude 32°10'17", Longitude 103°06'04" NAD27

Land-surface elevation 3,102 feet above NAVD88

The depth of the well is 90 feet below land surface.

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

**Output formats**

<a href="#">Table of data</a>
<a href="#">Tab-separated data</a>
<a href="#">Graph of data</a>
<a href="#">Reselect period</a>

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
1968-02-22		D	63.96				2		U	
1970-12-04		D	66.95				2		U	
1976-01-14		D	71.44				2		U	

**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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Date

Time

Water-level  
date-time  
access

Water level,  
feet below  
land surface

Water level,  
feet above  
specific  
vertical  
datum

Referenced  
vertical  
datum

?  
Water-level  
accuracy

?  
Status

?  
Method of  
measurement

?  
Meas  
agen

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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: 2019-04-03 17:21:56 EDT

0.64 0.61 nadww02





National Water Information System: Web Interface

[USGS Water Resources](#)

Data Category:  Geographic Area:

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- [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 = 

- 320959103051901

Minimum number of levels = 1

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

**USGS 320959103051901 24S.38E.32.312331**

Lea County, New Mexico  
Latitude 32°09'59", Longitude 103°05'19" NAD27  
Land-surface elevation 3,123 feet above NAVD88  
The depth of the well is 824 feet below land surface.  
This well is completed in the Santa Rosa Sandstone (231SNRS) local aquifer.

**Output formats**

<a href="#">Table of data</a>
<a href="#">Tab-separated data</a>
<a href="#">Graph of data</a>
<a href="#">Reselect period</a>

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
1976-01-14		D	316.50			2		U		

**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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- [Automated retrievals](#)
- [Help](#)
- [Data Tips](#)
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National Water Information System: Web Interface

[USGS Water Resources](#)

Data Category:  Geographic Area:

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- [Full News](#)

Groundwater levels for the Nation

**Search Results -- 1 sites found**

Agency code = usgs  
site\_no list = 

- 321011103045201

Minimum number of levels = 1

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

**USGS 321011103045201 24S.38E.32.233411**

Lea County, New Mexico  
Latitude 32°10'11", Longitude 103°04'52" NAD27  
Land-surface elevation 3,177 feet above NAVD88  
The depth of the well is 845 feet below land surface.  
This well is completed in the Santa Rosa Sandstone (231SNRS) local aquifer.

**Output formats**

<a href="#">Table of data</a>
<a href="#">Tab-separated data</a>
<a href="#">Graph of data</a>
<a href="#">Reselect period</a>

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
1976-01-14		D	354.74				2		U	
1981-03-18		D	327.04				2		U	

**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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- [Feedback on this web site](#)
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**ATTACHMENT #5**  
**Soil Profile**

# SOIL PROFILE

Site Name: 2C-3-4

Date: 3/27/2019

Description	Depth (ft. bgs)
Brownish / Red Topsoil	1
Reddish sand	2
	3
	4
	5
	6
Rock Refusal	7
	8
	9
	0
	1
	2
	3
	4
	5
	6
	7
	8
	9
	0
	1
	2
	3
	4
	5
	6
	7
	8
	9
	0
	1
	2
	3
	4
	5
	6
	7
	8
	9
	0

**ATTACHMENT #6**  
**Laboratory Analytical Reports**

April 03, 2019

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

RE: 2C - 3-4

Enclosed are the results of analyses for samples received by the laboratory on 03/28/19 14:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/ga/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/ga/lab_accred_certif.html).

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

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

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

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

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

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

Sincerely,



Celey D. Keene  
Lab Director/Quality Manager

**Analytical Results For:**

 ENERGY TRANSFER  
 P. O. BOX 1226  
 JAL NM, 88252

 Project: 2C - 3-4  
 Project Number: NONE GIVEN  
 Project Manager: JOEL LOWRY  
 Fax To:

 Reported:  
 03-Apr-19 13:51

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
V - 1 @ 0-6"	H901173-01	Soil	27-Mar-19 11:05	28-Mar-19 14:30
V - 1 @ 4'	H901173-02	Soil	27-Mar-19 11:07	28-Mar-19 14:30
V - 1 @ 6'R	H901173-03	Soil	27-Mar-19 11:10	28-Mar-19 14:30
V - 2 @ 0-6"	H901173-04	Soil	27-Mar-19 11:15	28-Mar-19 14:30
V - 2 @ 2'	H901173-05	Soil	27-Mar-19 11:18	28-Mar-19 14:30
NH - 1 @ 0-6"	H901173-07	Soil	27-Mar-19 11:25	28-Mar-19 14:30
NH - 1 @ 20"	H901173-08	Soil	27-Mar-19 11:28	28-Mar-19 14:30
NH - 1B @ 0-6"	H901173-09	Soil	27-Mar-19 11:30	28-Mar-19 14:30
NH - 1B @ 12"	H901173-10	Soil	27-Mar-19 11:34	28-Mar-19 14:30
EH - 1 @ 0-6"	H901173-11	Soil	27-Mar-19 11:36	28-Mar-19 14:30
EH - 1 @ 24"	H901173-12	Soil	27-Mar-19 11:39	28-Mar-19 14:30
SH - 1 @ 0-6"	H901173-13	Soil	27-Mar-19 11:42	28-Mar-19 14:30
SH - 1 @ 24"	H901173-14	Soil	27-Mar-19 11:45	28-Mar-19 14:30
WH - 1 @ 0-6"	H901173-15	Soil	27-Mar-19 11:48	28-Mar-19 14:30
WH - 1 @ 24"	H901173-16	Soil	27-Mar-19 11:51	28-Mar-19 14:30

Client added BTEX/TPH/CI to samples -03, -09 and -10 on 04/02/19. This is the revised report reflecting that addition. This report will replace the original sent on 04/02/19.

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 ENERGY TRANSFER  
 P. O. BOX 1226  
 JAL NM, 88252

 Project: 2C - 3-4  
 Project Number: NONE GIVEN  
 Project Manager: JOEL LOWRY  
 Fax To:

 Reported:  
 03-Apr-19 13:51

**V - 1 @ 0-6"**  
**H901173-01 (Soil)**

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

<b>Chloride</b>	<b>80.0</b>		16.0	mg/kg	4	9032910	JH	01-Apr-19	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	9032906	ms	01-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9032906	ms	01-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9032906	ms	01-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9032906	ms	01-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9032906	ms	01-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			94.9 %		73.3-129	9032906	ms	01-Apr-19	8021B	
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**Petroleum Hydrocarbons by GC FID**
**S-06**

GRO C6-C10*	<50.0		50.0	mg/kg	5	9032905	MS	29-Mar-19	8015B	
DRO >C10-C28*	<b>5380</b>		50.0	mg/kg	5	9032905	MS	29-Mar-19	8015B	
EXT DRO >C28-C36	<b>1240</b>		50.0	mg/kg	5	9032905	MS	29-Mar-19	8015B	

Surrogate: 1-Chlorooctane			90.7 %		41-142	9032905	MS	29-Mar-19	8015B	
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Surrogate: 1-Chlorooctadecane			269 %		37.6-147	9032905	MS	29-Mar-19	8015B	
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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 ENERGY TRANSFER  
 P. O. BOX 1226  
 JAL NM, 88252

 Project: 2C - 3-4  
 Project Number: NONE GIVEN  
 Project Manager: JOEL LOWRY  
 Fax To:

 Reported:  
 03-Apr-19 13:51

**V - 1 @ 4'**  
**H901173-02 (Soil)**

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

<b>Chloride</b>	<b>480</b>		16.0	mg/kg	4	9032910	JH	01-Apr-19	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.500		0.500	mg/kg	500	9032906	ms	30-Mar-19	8021B	
Toluene*	<0.500		0.500	mg/kg	500	9032906	ms	30-Mar-19	8021B	
Ethylbenzene*	<b>2.09</b>		0.500	mg/kg	500	9032906	ms	30-Mar-19	8021B	
<b>Total Xylenes*</b>	<b>9.07</b>		1.50	mg/kg	500	9032906	ms	30-Mar-19	8021B	
<b>Total BTEX</b>	<b>11.2</b>		3.00	mg/kg	500	9032906	ms	30-Mar-19	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			101 %	73.3-129		9032906	ms	30-Mar-19	8021B	
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**Petroleum Hydrocarbons by GC FID**
**S-06**

<b>GRO C6-C10*</b>	<b>651</b>		100	mg/kg	10	9032905	MS	29-Mar-19	8015B	
<b>DRO &gt;C10-C28*</b>	<b>29600</b>		100	mg/kg	10	9032905	MS	29-Mar-19	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>7660</b>		100	mg/kg	10	9032905	MS	29-Mar-19	8015B	

<i>Surrogate: 1-Chlorooctane</i>			141 %	41-142		9032905	MS	29-Mar-19	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			992 %	37.6-147		9032905	MS	29-Mar-19	8015B	
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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 ENERGY TRANSFER  
 P. O. BOX 1226  
 JAL NM, 88252

 Project: 2C - 3-4  
 Project Number: NONE GIVEN  
 Project Manager: JOEL LOWRY  
 Fax To:

 Reported:  
 03-Apr-19 13:51

**V - 1 @ 6'R**  
**H901173-03 (Soil)**

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

<b>Chloride</b>	<b>16.0</b>		16.0	mg/kg	4	9040209	AC	03-Apr-19	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	9040202	ms	02-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9040202	ms	02-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9040202	ms	02-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9040202	ms	02-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9040202	ms	02-Apr-19	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			96.5 %		73.3-129	9040202	ms	02-Apr-19	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	9040206	MS	03-Apr-19	8015B	
<b>DRO &gt;C10-C28*</b>	<b>334</b>		10.0	mg/kg	1	9040206	MS	03-Apr-19	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>87.9</b>		10.0	mg/kg	1	9040206	MS	03-Apr-19	8015B	

<i>Surrogate: 1-Chlorooctane</i>			82.8 %		41-142	9040206	MS	03-Apr-19	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			101 %		37.6-147	9040206	MS	03-Apr-19	8015B	
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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 ENERGY TRANSFER  
 P. O. BOX 1226  
 JAL NM, 88252

 Project: 2C - 3-4  
 Project Number: NONE GIVEN  
 Project Manager: JOEL LOWRY  
 Fax To:

 Reported:  
 03-Apr-19 13:51

**V - 2 @ 0-6"**  
**H901173-04 (Soil)**

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

<b>Chloride</b>	<b>80.0</b>		16.0	mg/kg	4	9032910	JH	01-Apr-19	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	9040102	ms	01-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9040102	ms	01-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9040102	ms	01-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9040102	ms	01-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9040102	ms	01-Apr-19	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			94.7 %		73.3-129	9040102	ms	01-Apr-19	8021B	
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**Petroleum Hydrocarbons by GC FID**
**S-06**

GRO C6-C10*	<50.0		50.0	mg/kg	5	9032905	MS	29-Mar-19	8015B	
<b>DRO &gt;C10-C28*</b>	<b>5860</b>		50.0	mg/kg	5	9032905	MS	29-Mar-19	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>1640</b>		50.0	mg/kg	5	9032905	MS	29-Mar-19	8015B	

<i>Surrogate: 1-Chlorooctane</i>			87.7 %		41-142	9032905	MS	29-Mar-19	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			283 %		37.6-147	9032905	MS	29-Mar-19	8015B	
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Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 ENERGY TRANSFER  
 P. O. BOX 1226  
 JAL NM, 88252

 Project: 2C - 3-4  
 Project Number: NONE GIVEN  
 Project Manager: JOEL LOWRY  
 Fax To:

 Reported:  
 03-Apr-19 13:51

**V - 2 @ 2'**  
**H901173-05 (Soil)**

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

<b>Chloride</b>	<b>16.0</b>		16.0	mg/kg	4	9032910	JH	01-Apr-19	4500-Cl-B	
-----------------	-------------	--	------	-------	---	---------	----	-----------	-----------	--

**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	9040102	ms	01-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9040102	ms	01-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9040102	ms	01-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9040102	ms	01-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9040102	ms	01-Apr-19	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			96.4 %	73.3-129		9040102	ms	01-Apr-19	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	9032905	MS	29-Mar-19	8015B	
<b>DRO &gt;C10-C28*</b>	<b>29.7</b>		10.0	mg/kg	1	9032905	MS	29-Mar-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9032905	MS	29-Mar-19	8015B	

<i>Surrogate: 1-Chlorooctane</i>			81.6 %	41-142		9032905	MS	29-Mar-19	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			81.7 %	37.6-147		9032905	MS	29-Mar-19	8015B	
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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 ENERGY TRANSFER  
 P. O. BOX 1226  
 JAL NM, 88252

 Project: 2C - 3-4  
 Project Number: NONE GIVEN  
 Project Manager: JOEL LOWRY  
 Fax To:

 Reported:  
 03-Apr-19 13:51

**NH - 1 @ 0-6"**
**H901173-07 (Soil)**

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

<b>Chloride</b>	<b>16.0</b>		16.0	mg/kg	4	9032910	JH	01-Apr-19	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	9040102	ms	01-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9040102	ms	01-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9040102	ms	01-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9040102	ms	01-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9040102	ms	01-Apr-19	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			94.9 %	73.3-129		9040102	ms	01-Apr-19	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	9032905	MS	29-Mar-19	8015B	
<b>DRO &gt;C10-C28*</b>	<b>816</b>		10.0	mg/kg	1	9032905	MS	29-Mar-19	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>170</b>		10.0	mg/kg	1	9032905	MS	29-Mar-19	8015B	

<i>Surrogate: 1-Chlorooctane</i>			85.2 %	41-142		9032905	MS	29-Mar-19	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			112 %	37.6-147		9032905	MS	29-Mar-19	8015B	
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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 ENERGY TRANSFER  
 P. O. BOX 1226  
 JAL NM, 88252

 Project: 2C - 3-4  
 Project Number: NONE GIVEN  
 Project Manager: JOEL LOWRY  
 Fax To:

 Reported:  
 03-Apr-19 13:51

**NH - 1 @ 20"**  
**H901173-08 (Soil)**

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

<b>Chloride</b>	<b>16.0</b>		16.0	mg/kg	4	9032910	JH	01-Apr-19	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	9040102	ms	01-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9040102	ms	01-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9040102	ms	01-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9040102	ms	01-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9040102	ms	01-Apr-19	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			96.4 %		73.3-129	9040102	ms	01-Apr-19	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	9032905	MS	29-Mar-19	8015B	
<b>DRO &gt;C10-C28*</b>	<b>26.5</b>		10.0	mg/kg	1	9032905	MS	29-Mar-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9032905	MS	29-Mar-19	8015B	

<i>Surrogate: 1-Chlorooctane</i>			81.0 %		41-142	9032905	MS	29-Mar-19	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			81.9 %		37.6-147	9032905	MS	29-Mar-19	8015B	
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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 ENERGY TRANSFER  
 P. O. BOX 1226  
 JAL NM, 88252

 Project: 2C - 3-4  
 Project Number: NONE GIVEN  
 Project Manager: JOEL LOWRY  
 Fax To:

 Reported:  
 03-Apr-19 13:51

**NH - 1B @ 0-6"**  
**H901173-09 (Soil)**

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

Chloride	<16.0		16.0	mg/kg	4	9040209	AC	03-Apr-19	4500-CI-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	9040202	ms	02-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9040202	ms	02-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9040202	ms	02-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9040202	ms	02-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9040202	ms	02-Apr-19	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			97.3 %		73.3-129	9040202	ms	02-Apr-19	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	9040206	MS	03-Apr-19	8015B	
<b>DRO &gt;C10-C28*</b>	<b>18.1</b>		10.0	mg/kg	1	9040206	MS	03-Apr-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9040206	MS	03-Apr-19	8015B	

<i>Surrogate: 1-Chlorooctane</i>			85.2 %		41-142	9040206	MS	03-Apr-19	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			84.9 %		37.6-147	9040206	MS	03-Apr-19	8015B	
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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 ENERGY TRANSFER  
 P. O. BOX 1226  
 JAL NM, 88252

 Project: 2C - 3-4  
 Project Number: NONE GIVEN  
 Project Manager: JOEL LOWRY  
 Fax To:

 Reported:  
 03-Apr-19 13:51

**NH - 1B @ 12"**
**H901173-10 (Soil)**

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

Chloride	<16.0		16.0	mg/kg	4	9040209	AC	03-Apr-19	4500-CI-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	9040202	ms	02-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9040202	ms	02-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9040202	ms	02-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9040202	ms	02-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9040202	ms	02-Apr-19	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			95.7 %		73.3-129	9040202	ms	02-Apr-19	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	9040206	MS	03-Apr-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9040206	MS	03-Apr-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9040206	MS	03-Apr-19	8015B	

<i>Surrogate: 1-Chlorooctane</i>			83.8 %		41-142	9040206	MS	03-Apr-19	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			84.2 %		37.6-147	9040206	MS	03-Apr-19	8015B	
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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 ENERGY TRANSFER  
 P. O. BOX 1226  
 JAL NM, 88252

 Project: 2C - 3-4  
 Project Number: NONE GIVEN  
 Project Manager: JOEL LOWRY  
 Fax To:

 Reported:  
 03-Apr-19 13:51

**EH - 1 @ 0-6"**  
**H901173-11 (Soil)**

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

<b>Chloride</b>	<b>16.0</b>		16.0	mg/kg	4	9032913	JH	01-Apr-19	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	9040102	ms	01-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9040102	ms	01-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9040102	ms	01-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9040102	ms	01-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9040102	ms	01-Apr-19	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			95.9 %		73.3-129	9040102	ms	01-Apr-19	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	9032905	MS	29-Mar-19	8015B	
<b>DRO &gt;C10-C28*</b>	<b>13.2</b>		10.0	mg/kg	1	9032905	MS	29-Mar-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9032905	MS	29-Mar-19	8015B	

<i>Surrogate: 1-Chlorooctane</i>			80.4 %		41-142	9032905	MS	29-Mar-19	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			83.1 %		37.6-147	9032905	MS	29-Mar-19	8015B	
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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 ENERGY TRANSFER  
 P. O. BOX 1226  
 JAL NM, 88252

 Project: 2C - 3-4  
 Project Number: NONE GIVEN  
 Project Manager: JOEL LOWRY  
 Fax To:

 Reported:  
 03-Apr-19 13:51

**EH - 1 @ 24"**  
**H901173-12 (Soil)**

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

Chloride	16.0		16.0	mg/kg	4	9032913	JH	01-Apr-19	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	9040102	ms	01-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9040102	ms	01-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9040102	ms	01-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9040102	ms	01-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9040102	ms	01-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			96.6 %	73.3-129		9040102	ms	01-Apr-19	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	9032905	MS	29-Mar-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9032905	MS	29-Mar-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9032905	MS	29-Mar-19	8015B	

Surrogate: 1-Chlorooctane			76.0 %	41-142		9032905	MS	29-Mar-19	8015B	
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Surrogate: 1-Chlorooctadecane			77.3 %	37.6-147		9032905	MS	29-Mar-19	8015B	
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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 ENERGY TRANSFER  
 P. O. BOX 1226  
 JAL NM, 88252

 Project: 2C - 3-4  
 Project Number: NONE GIVEN  
 Project Manager: JOEL LOWRY  
 Fax To:

 Reported:  
 03-Apr-19 13:51

**SH - 1 @ 0-6"**  
**H901173-13 (Soil)**

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

Chloride	16.0		16.0	mg/kg	4	9032913	JH	01-Apr-19	4500-CI-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	9040102	ms	01-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9040102	ms	01-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9040102	ms	01-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9040102	ms	01-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9040102	ms	01-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			95.6 %	73.3-129		9040102	ms	01-Apr-19	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	9032905	MS	29-Mar-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9032905	MS	29-Mar-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9032905	MS	29-Mar-19	8015B	

Surrogate: 1-Chlorooctane			81.2 %	41-142		9032905	MS	29-Mar-19	8015B	
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Surrogate: 1-Chlorooctadecane			82.1 %	37.6-147		9032905	MS	29-Mar-19	8015B	
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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 ENERGY TRANSFER  
 P. O. BOX 1226  
 JAL NM, 88252

 Project: 2C - 3-4  
 Project Number: NONE GIVEN  
 Project Manager: JOEL LOWRY  
 Fax To:

 Reported:  
 03-Apr-19 13:51

**SH - 1 @ 24"**  
**H901173-14 (Soil)**

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

Chloride	16.0		16.0	mg/kg	4	9032913	JH	01-Apr-19	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	9040102	ms	01-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9040102	ms	01-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9040102	ms	01-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9040102	ms	01-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9040102	ms	01-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			95.6 %	73.3-129		9040102	ms	01-Apr-19	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	9032912	MS	29-Mar-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9032912	MS	29-Mar-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9032912	MS	29-Mar-19	8015B	

Surrogate: 1-Chlorooctane			75.4 %	41-142		9032912	MS	29-Mar-19	8015B	
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Surrogate: 1-Chlorooctadecane			75.8 %	37.6-147		9032912	MS	29-Mar-19	8015B	
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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 ENERGY TRANSFER  
 P. O. BOX 1226  
 JAL NM, 88252

 Project: 2C - 3-4  
 Project Number: NONE GIVEN  
 Project Manager: JOEL LOWRY  
 Fax To:

 Reported:  
 03-Apr-19 13:51

**WH - 1 @ 0-6"**  
**H901173-15 (Soil)**

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

<b>Chloride</b>	<b>16.0</b>		16.0	mg/kg	4	9032913	JH	01-Apr-19	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	9040102	ms	01-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9040102	ms	01-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9040102	ms	01-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9040102	ms	01-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9040102	ms	01-Apr-19	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			96.8 %	73.3-129		9040102	ms	01-Apr-19	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	9032912	MS	29-Mar-19	8015B	
<b>DRO &gt;C10-C28*</b>	<b>19.9</b>		10.0	mg/kg	1	9032912	MS	29-Mar-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9032912	MS	29-Mar-19	8015B	

<i>Surrogate: 1-Chlorooctane</i>			78.0 %	41-142		9032912	MS	29-Mar-19	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			79.4 %	37.6-147		9032912	MS	29-Mar-19	8015B	
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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 ENERGY TRANSFER  
 P. O. BOX 1226  
 JAL NM, 88252

 Project: 2C - 3-4  
 Project Number: NONE GIVEN  
 Project Manager: JOEL LOWRY  
 Fax To:

 Reported:  
 03-Apr-19 13:51

**WH - 1 @ 24"**  
**H901173-16 (Soil)**

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

Chloride	16.0		16.0	mg/kg	4	9032913	JH	01-Apr-19	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	9040102	ms	01-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9040102	ms	01-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9040102	ms	01-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9040102	ms	01-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9040102	ms	01-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			95.8 %	73.3-129		9040102	ms	01-Apr-19	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	9032912	MS	29-Mar-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9032912	MS	29-Mar-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9032912	MS	29-Mar-19	8015B	

Surrogate: 1-Chlorooctane			84.4 %	41-142		9032912	MS	29-Mar-19	8015B	
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Surrogate: 1-Chlorooctadecane			84.3 %	37.6-147		9032912	MS	29-Mar-19	8015B	
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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 ENERGY TRANSFER  
 P. O. BOX 1226  
 JAL NM, 88252

 Project: 2C - 3-4  
 Project Number: NONE GIVEN  
 Project Manager: JOEL LOWRY  
 Fax To:

 Reported:  
 03-Apr-19 13:51

**Inorganic Compounds - Quality Control**
**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 9032910 - General Prep - Wet Chem**
**Blank (9032910-BLK1)**

Prepared &amp; Analyzed: 29-Mar-19

Chloride ND 16.0 mg/kg

**LCS (9032910-BS1)**

Prepared &amp; Analyzed: 29-Mar-19

Chloride 416 16.0 mg/kg 400 104 80-120

**LCS Dup (9032910-BSD1)**

Prepared &amp; Analyzed: 29-Mar-19

Chloride 416 16.0 mg/kg 400 104 80-120 0.00 20

**Batch 9032913 - General Prep - Wet Chem**
**Blank (9032913-BLK1)**

Prepared &amp; Analyzed: 29-Mar-19

Chloride ND 16.0 mg/kg

**LCS (9032913-BS1)**

Prepared &amp; Analyzed: 29-Mar-19

Chloride 432 16.0 mg/kg 400 108 80-120

**LCS Dup (9032913-BSD1)**

Prepared &amp; Analyzed: 29-Mar-19

Chloride 432 16.0 mg/kg 400 108 80-120 0.00 20

**Batch 9040209 - General Prep - Wet Chem**
**Blank (9040209-BLK1)**

Prepared &amp; Analyzed: 02-Apr-19

Chloride ND 16.0 mg/kg

**LCS (9040209-BS1)**

Prepared &amp; Analyzed: 02-Apr-19

Chloride 416 16.0 mg/kg 400 104 80-120

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 ENERGY TRANSFER  
 P. O. BOX 1226  
 JAL NM, 88252

 Project: 2C - 3-4  
 Project Number: NONE GIVEN  
 Project Manager: JOEL LOWRY  
 Fax To:

 Reported:  
 03-Apr-19 13:51

**Inorganic Compounds - Quality Control**
**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 9040209 - General Prep - Wet Chem**
**LCS Dup (9040209-BSD1)**

Prepared &amp; Analyzed: 02-Apr-19

Chloride	416	16.0	mg/kg	400		104	80-120	0.00	20	
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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 ENERGY TRANSFER  
 P. O. BOX 1226  
 JAL NM, 88252

 Project: 2C - 3-4  
 Project Number: NONE GIVEN  
 Project Manager: JOEL LOWRY  
 Fax To:

 Reported:  
 03-Apr-19 13:51

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 9032906 - Volatiles**
**Blank (9032906-BLK1)**

Prepared &amp; Analyzed: 29-Mar-19

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>	<i>0.0923</i>		<i>mg/kg</i>	<i>0.100</i>		<i>92.3</i>	<i>73.3-129</i>			

**LCS (9032906-BS1)**

Prepared &amp; Analyzed: 29-Mar-19

Benzene	2.13	0.050	mg/kg	2.00		107	72.2-131			
Toluene	2.01	0.050	mg/kg	2.00		100	71.7-126			
Ethylbenzene	2.09	0.050	mg/kg	2.00		104	68.9-126			
Total Xylenes	6.34	0.150	mg/kg	6.00		106	71.4-125			
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>	<i>0.0911</i>		<i>mg/kg</i>	<i>0.100</i>		<i>91.1</i>	<i>73.3-129</i>			

**LCS Dup (9032906-BSD1)**

Prepared &amp; Analyzed: 29-Mar-19

Benzene	2.06	0.050	mg/kg	2.00		103	72.2-131	3.15	6.91	
Toluene	1.95	0.050	mg/kg	2.00		97.6	71.7-126	2.84	7.12	
Ethylbenzene	2.04	0.050	mg/kg	2.00		102	68.9-126	1.99	7.88	
Total Xylenes	6.19	0.150	mg/kg	6.00		103	71.4-125	2.45	7.46	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>	<i>0.0902</i>		<i>mg/kg</i>	<i>0.100</i>		<i>90.2</i>	<i>73.3-129</i>			

**Batch 9040102 - Volatiles**
**Blank (9040102-BLK1)**

Prepared &amp; Analyzed: 01-Apr-19

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>	<i>0.0954</i>		<i>mg/kg</i>	<i>0.100</i>		<i>95.4</i>	<i>73.3-129</i>			

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 ENERGY TRANSFER  
 P. O. BOX 1226  
 JAL NM, 88252

 Project: 2C - 3-4  
 Project Number: NONE GIVEN  
 Project Manager: JOEL LOWRY  
 Fax To:

 Reported:  
 03-Apr-19 13:51

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 9040102 - Volatiles**
**LCS (9040102-BS1)**

Prepared &amp; Analyzed: 01-Apr-19

Benzene	1.93	0.050	mg/kg	2.00		96.4	72.2-131			
Toluene	1.86	0.050	mg/kg	2.00		92.9	71.7-126			
Ethylbenzene	2.00	0.050	mg/kg	2.00		100	68.9-126			
Total Xylenes	6.14	0.150	mg/kg	6.00		102	71.4-125			
Surrogate: 4-Bromofluorobenzene (PID)	0.0956		mg/kg	0.100		95.6	73.3-129			

**LCS Dup (9040102-BSD1)**

Prepared &amp; Analyzed: 01-Apr-19

Benzene	1.87	0.050	mg/kg	2.00		93.5	72.2-131	2.98	6.91	
Toluene	1.80	0.050	mg/kg	2.00		89.9	71.7-126	3.33	7.12	
Ethylbenzene	1.92	0.050	mg/kg	2.00		95.8	68.9-126	4.55	7.88	
Total Xylenes	5.85	0.150	mg/kg	6.00		97.4	71.4-125	4.85	7.46	
Surrogate: 4-Bromofluorobenzene (PID)	0.0929		mg/kg	0.100		92.9	73.3-129			

**Batch 9040202 - Volatiles**
**Blank (9040202-BLK1)**

Prepared &amp; Analyzed: 02-Apr-19

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0955		mg/kg	0.100		95.5	73.3-129			

**LCS (9040202-BS1)**

Prepared &amp; Analyzed: 02-Apr-19

Benzene	1.93	0.050	mg/kg	2.00		96.4	72.2-131			
Toluene	1.85	0.050	mg/kg	2.00		92.4	71.7-126			
Ethylbenzene	1.99	0.050	mg/kg	2.00		99.7	68.9-126			
Total Xylenes	6.16	0.150	mg/kg	6.00		103	71.4-125			
Surrogate: 4-Bromofluorobenzene (PID)	0.0946		mg/kg	0.100		94.6	73.3-129			

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 ENERGY TRANSFER  
 P. O. BOX 1226  
 JAL NM, 88252

 Project: 2C - 3-4  
 Project Number: NONE GIVEN  
 Project Manager: JOEL LOWRY  
 Fax To:

 Reported:  
 03-Apr-19 13:51

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 9040202 - Volatiles**
**LCS Dup (9040202-BSD1)**

Prepared &amp; Analyzed: 02-Apr-19

Benzene	1.73	0.050	mg/kg	2.00		86.3	72.2-131	11.0	6.91	QR-02
Toluene	1.67	0.050	mg/kg	2.00		83.7	71.7-126	9.88	7.12	QR-02
Ethylbenzene	1.81	0.050	mg/kg	2.00		90.3	68.9-126	9.83	7.88	QR-02
Total Xylenes	5.62	0.150	mg/kg	6.00		93.6	71.4-125	9.30	7.46	QR-02
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>	<i>0.0949</i>		mg/kg	<i>0.100</i>		<i>94.9</i>	<i>73.3-129</i>			

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 ENERGY TRANSFER  
 P. O. BOX 1226  
 JAL NM, 88252

 Project: 2C - 3-4  
 Project Number: NONE GIVEN  
 Project Manager: JOEL LOWRY  
 Fax To:

 Reported:  
 03-Apr-19 13:51

**Petroleum Hydrocarbons by GC FID - Quality Control**
**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 9032905 - General Prep - Organics**
**Blank (9032905-BLK1)**

Prepared &amp; Analyzed: 29-Mar-19

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
<i>Surrogate: 1-Chlorooctane</i>	52.2		mg/kg	50.0		104	41-142			
<i>Surrogate: 1-Chlorooctadecane</i>	53.0		mg/kg	50.0		106	37.6-147			

**LCS (9032905-BS1)**

Prepared &amp; Analyzed: 29-Mar-19

GRO C6-C10	180	10.0	mg/kg	200		90.2	76.5-133			
DRO >C10-C28	201	10.0	mg/kg	200		101	72.9-138			
Total TPH C6-C28	382	10.0	mg/kg	400		95.5	78-132			
<i>Surrogate: 1-Chlorooctane</i>	54.6		mg/kg	50.0		109	41-142			
<i>Surrogate: 1-Chlorooctadecane</i>	54.5		mg/kg	50.0		109	37.6-147			

**LCS Dup (9032905-BSD1)**

Prepared &amp; Analyzed: 29-Mar-19

GRO C6-C10	180	10.0	mg/kg	200		90.2	76.5-133	0.0144	20.6	
DRO >C10-C28	194	10.0	mg/kg	200		97.2	72.9-138	3.58	20.6	
Total TPH C6-C28	375	10.0	mg/kg	400		93.7	78-132	1.87	18	
<i>Surrogate: 1-Chlorooctane</i>	52.5		mg/kg	50.0		105	41-142			
<i>Surrogate: 1-Chlorooctadecane</i>	49.9		mg/kg	50.0		99.9	37.6-147			

**Batch 9032912 - General Prep - Organics**
**Blank (9032912-BLK1)**

Prepared &amp; Analyzed: 29-Mar-19

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
<i>Surrogate: 1-Chlorooctane</i>	51.4		mg/kg	50.0		103	41-142			
<i>Surrogate: 1-Chlorooctadecane</i>	53.6		mg/kg	50.0		107	37.6-147			

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 ENERGY TRANSFER  
 P. O. BOX 1226  
 JAL NM, 88252

 Project: 2C - 3-4  
 Project Number: NONE GIVEN  
 Project Manager: JOEL LOWRY  
 Fax To:

 Reported:  
 03-Apr-19 13:51

**Petroleum Hydrocarbons by GC FID - Quality Control**
**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 9032912 - General Prep - Organics**
**LCS (9032912-BS1)**

Prepared &amp; Analyzed: 29-Mar-19

GRO C6-C10	205	10.0	mg/kg	200		102	76.5-133			
DRO >C10-C28	190	10.0	mg/kg	200		95.1	72.9-138			
Total TPH C6-C28	395	10.0	mg/kg	400		98.7	78-132			
Surrogate: 1-Chlorooctane	54.2		mg/kg	50.0		108	41-142			
Surrogate: 1-Chlorooctadecane	52.6		mg/kg	50.0		105	37.6-147			

**LCS Dup (9032912-BS1)**

Prepared &amp; Analyzed: 29-Mar-19

GRO C6-C10	213	10.0	mg/kg	200		107	76.5-133	4.05	20.6	
DRO >C10-C28	200	10.0	mg/kg	200		99.9	72.9-138	4.92	20.6	
Total TPH C6-C28	413	10.0	mg/kg	400		103	78-132	4.47	18	
Surrogate: 1-Chlorooctane	55.0		mg/kg	50.0		110	41-142			
Surrogate: 1-Chlorooctadecane	53.8		mg/kg	50.0		108	37.6-147			

**Batch 9040206 - General Prep - Organics**
**Blank (9040206-BLK1)**

Prepared &amp; Analyzed: 02-Apr-19

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	43.2		mg/kg	50.0		86.4	41-142			
Surrogate: 1-Chlorooctadecane	42.0		mg/kg	50.0		84.1	37.6-147			

**LCS (9040206-BS1)**

Prepared: 02-Apr-19 Analyzed: 03-Apr-19

GRO C6-C10	166	10.0	mg/kg	200		83.2	76.5-133			
DRO >C10-C28	212	10.0	mg/kg	200		106	72.9-138			
Total TPH C6-C28	378	10.0	mg/kg	400		94.5	78-132			
Surrogate: 1-Chlorooctane	47.0		mg/kg	50.0		94.1	41-142			
Surrogate: 1-Chlorooctadecane	46.0		mg/kg	50.0		92.0	37.6-147			

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 ENERGY TRANSFER  
 P. O. BOX 1226  
 JAL NM, 88252

 Project: 2C - 3-4  
 Project Number: NONE GIVEN  
 Project Manager: JOEL LOWRY  
 Fax To:

 Reported:  
 03-Apr-19 13:51

**Petroleum Hydrocarbons by GC FID - Quality Control**
**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 9040206 - General Prep - Organics**
**LCS Dup (9040206-BSD1)**

Prepared &amp; Analyzed: 02-Apr-19

GRO C6-C10	165	10.0	mg/kg	200		82.3	76.5-133	1.04	20.6	
DRO >C10-C28	205	10.0	mg/kg	200		102	72.9-138	3.29	20.6	
Total TPH C6-C28	369	10.0	mg/kg	400		92.3	78-132	2.29	18	
<i>Surrogate: 1-Chlorooctane</i>	<i>46.7</i>		<i>mg/kg</i>	<i>50.0</i>		<i>93.5</i>	<i>41-142</i>			
<i>Surrogate: 1-Chlorooctadecane</i>	<i>45.1</i>		<i>mg/kg</i>	<i>50.0</i>		<i>90.1</i>	<i>37.6-147</i>			

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Celey D. Keene, Lab Director/Quality Manager

**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-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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Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

<b>Company Name:</b> ETC Texas Pipeline, Ltd. <b>Project Manager:</b> Joel Lowry <b>Address:</b> 600 N. Marland, St., Suite 700, Midland, TX 79701 <b>Phone #:</b> _____ <b>Fax #:</b> _____ <b>Project Owner:</b> ETC Texas Pipeline, Ltd. <b>Project Name:</b> 2C-3-4 <b>Project Location:</b> Lea <b>Sampler Name:</b> Jordyne Taylor <small>FOR LAB USE ONLY</small>		<b>BILL TO</b> <b>P.O. #:</b> _____ <b>Company:</b> _____ <b>Owner:</b> _____ <b>Attn:</b> _____ <b>Dean Ericson</b>		<b>ANALYSIS REQUEST</b>	
<b>Lab I.D.</b> H90178 <b>Sample I.D.</b>		(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER MATRIX SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER : PRESERV. SAMPLING		TPH 8015 M. Ext (New Mexico) Chloride 4500 Cl-B BTEX 8021 TPH TX 1005 HOLD RUSH	
1 V-1 at 0-6" 2 V-1 at 4' 3 V-1 at 6'R 4 V-2 at 0-6" 5 V-2 at 2' 6 V-2 at 4' 7 NH-1 at 0-6" 8 NH-1 at 20" 9 NH-1b at 0-6" 10 NH-1b at 12"		G 1 G 1 G 1 G 1 G 1 G 1 G 1 G 1 G 1 G 1		3/27/19 11:05 3/27/19 11:07 3/27/19 11:10 3/27/19 11:15 3/27/19 11:18 3/27/19 11:20 3/27/19 11:25 3/27/19 11:28 3/27/19 11:30 3/27/19 11:34	
Relinquished By: <i>Jordyne Taylor</i> Date: 3/28/19 Time: 1430 Received By: <i>Juanara Alatorre</i>		Sample Condition Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Checked By: <i>TL</i>		REMARKS: * Samples on hold pending further analysis. collected 4/2 added 4/2	
Delivered By: (Circle One) Sampler - UPS - Bus - Other: -1.3c FORM 0664-2-0		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: _____ Add'l Fax #: _____		ioel@lowrenvironmental.com	

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



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

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

<b>Company Name:</b> ETC Texas Pipeline, Ltd. <b>Project Manager:</b> Joel Lowry <b>Address:</b> 600 N. Marlenfeld, St., Suite 700, Midland, TX 79701 <b>Phone #:</b> _____ <b>Fax #:</b> _____ <b>Project Owner:</b> ETC Texas Pipeline, Ltd. <b>Project Name:</b> 2C-3-4 <b>Project Location:</b> Lea <b>Sampler Name:</b> Jordyne Taylor <small>FOR LAB USE ONLY</small>		<b>P.O. #:</b> _____ <b>Company:</b> _____ <b>Owner:</b> _____ <b>Attn:</b> _____ <b>Dean Ericson</b>		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>											
<b>Lab I.D.</b> H901178 <b>Sample I.D.</b>		(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :		MATRIX PRESERV. SAMPLING		TPH 8015 M. Ext (New Mexico) Chloride 4500 Cl-B BTEX 8021 TPH TX 1005 HOLD RUSH											
11	EH-1 at 0-6"	G	1	X		3/27/19	11:36	X	X	X							
12	EH-1 at 24"	G	1	X		3/27/19	11:39	X	X	X							
13	SH-1 at 0-6"	G	1	X		3/27/19	11:42	X	X	X							
14	SH-1 at 24"	G	1	X		3/27/19	11:45	X	X	X							
15	WH-1 at 0-6"	G	1	X		3/27/19	11:48	X	X	X							
16	WH-1 at 24"	G	1	X		3/27/19	11:51	X	X	X							
17	WH-1b at 0-6"	G	1	X		3/27/19	11:55	X	X	X							
18	WH-1b at 24"	G	1	X		3/27/19	11:59	X	X	X							

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**Relinquished By:** *Joyne Taylor* **Date:** 3/28/19 **Time:** 1430  
**Received By:** *Juanita Chelakovic*

**Delivered By:** (Circle One)  UPS - Bus - Other: -1.3c #97  Cool  Intact  Yes  No  Yes  No

**Checked By:** *JS*

**REMARKS:**

ioel@lowryenvironmental.com

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August 13, 2019

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

RE: 2C - 3-4

Enclosed are the results of analyses for samples received by the laboratory on 08/09/19 16:18.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Mike Snyder".

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

**Analytical Results For:**

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

 Received: 08/09/2019  
 Reported: 08/13/2019  
 Project Name: 2C - 3-4  
 Project Number: NONE GIVEN  
 Project Location: LEA CO NM

 Sampling Date: 08/09/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: E. FLOOR @ 2' (H902756-01)**

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/13/2019	ND	2.15	107	2.00	6.45		
Toluene*	<0.050	0.050	08/13/2019	ND	2.29	115	2.00	6.86		
Ethylbenzene*	<0.050	0.050	08/13/2019	ND	2.17	108	2.00	5.60		
Total Xylenes*	<0.150	0.150	08/13/2019	ND	6.69	112	6.00	5.14		
Total BTEX	<0.300	0.300	08/13/2019	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	
<b>Chloride</b>	<b>16.0</b>	16.0	08/13/2019	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/13/2019	ND	198	99.0	200	3.23		
DRO >C10-C28*	<10.0	10.0	08/13/2019	ND	190	94.8	200	5.83		
EXT DRO >C28-C36	<10.0	10.0	08/13/2019	ND						

Surrogate: 1-Chlorooctane 95.8 % 41-142

Surrogate: 1-Chlorooctadecane 101 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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

**Analytical Results For:**

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

 Received: 08/09/2019  
 Reported: 08/13/2019  
 Project Name: 2C - 3-4  
 Project Number: NONE GIVEN  
 Project Location: LEA CO NM

 Sampling Date: 08/09/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: FLOOR @ 7' (H902756-02)**

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2019	ND	2.15	107	2.00	6.45	
Toluene*	<0.050	0.050	08/13/2019	ND	2.29	115	2.00	6.86	
Ethylbenzene*	<0.050	0.050	08/13/2019	ND	2.17	108	2.00	5.60	
Total Xylenes*	<0.150	0.150	08/13/2019	ND	6.69	112	6.00	5.14	
Total BTEX	<0.300	0.300	08/13/2019	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
<b>Chloride</b>	<b>32.0</b>	16.0	08/13/2019	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2019	ND	198	99.0	200	3.23	
DRO >C10-C28*	<10.0	10.0	08/13/2019	ND	190	94.8	200	5.83	
EXT DRO >C28-C36	<10.0	10.0	08/13/2019	ND					

Surrogate: 1-Chlorooctane 96.6 % 41-142

Surrogate: 1-Chlorooctadecane 102 % 37.6-147

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\*=Accredited Analyte

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

**Analytical Results For:**

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

 Received: 08/09/2019  
 Reported: 08/13/2019  
 Project Name: 2C - 3-4  
 Project Number: NONE GIVEN  
 Project Location: LEA CO NM

 Sampling Date: 08/09/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: W. FLOOR @ 2' (H902756-03)**

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/13/2019	ND	2.15	107	2.00	6.45		
Toluene*	<0.050	0.050	08/13/2019	ND	2.29	115	2.00	6.86		
Ethylbenzene*	<0.050	0.050	08/13/2019	ND	2.17	108	2.00	5.60		
Total Xylenes*	<0.150	0.150	08/13/2019	ND	6.69	112	6.00	5.14		
Total BTEX	<0.300	0.300	08/13/2019	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	<16.0	16.0	08/13/2019	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/13/2019	ND	198	99.0	200	3.23		
DRO >C10-C28*	<10.0	10.0	08/13/2019	ND	190	94.8	200	5.83		
EXT DRO >C28-C36	<10.0	10.0	08/13/2019	ND						

Surrogate: 1-Chlorooctane 102 % 41-142

Surrogate: 1-Chlorooctadecane 109 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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

**Analytical Results For:**

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

 Received: 08/09/2019  
 Reported: 08/13/2019  
 Project Name: 2C - 3-4  
 Project Number: NONE GIVEN  
 Project Location: LEA CO NM

 Sampling Date: 08/09/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: N. FLOOR @ 2' #1 (H902756-04)**

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2019	ND	2.15	107	2.00	6.45	
Toluene*	<0.050	0.050	08/13/2019	ND	2.29	115	2.00	6.86	
Ethylbenzene*	<0.050	0.050	08/13/2019	ND	2.17	108	2.00	5.60	
Total Xylenes*	<0.150	0.150	08/13/2019	ND	6.69	112	6.00	5.14	
Total BTEX	<0.300	0.300	08/13/2019	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	08/13/2019	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2019	ND	198	99.0	200	3.23	
DRO >C10-C28*	<10.0	10.0	08/13/2019	ND	190	94.8	200	5.83	
EXT DRO >C28-C36	<10.0	10.0	08/13/2019	ND					

Surrogate: 1-Chlorooctane 97.0 % 41-142

Surrogate: 1-Chlorooctadecane 102 % 37.6-147

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

**Analytical Results For:**

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

 Received: 08/09/2019  
 Reported: 08/13/2019  
 Project Name: 2C - 3-4  
 Project Number: NONE GIVEN  
 Project Location: LEA CO NM

 Sampling Date: 08/09/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: N. FLOOR @ 2' #2 (H902756-05)**

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2019	ND	2.15	107	2.00	6.45	
Toluene*	<0.050	0.050	08/13/2019	ND	2.29	115	2.00	6.86	
Ethylbenzene*	<0.050	0.050	08/13/2019	ND	2.17	108	2.00	5.60	
Total Xylenes*	<0.150	0.150	08/13/2019	ND	6.69	112	6.00	5.14	
Total BTEX	<0.300	0.300	08/13/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 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	08/13/2019	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2019	ND	198	99.0	200	3.23	
<b>DRO &gt;C10-C28*</b>	<b>121</b>	10.0	08/13/2019	ND	190	94.8	200	5.83	
<b>EXT DRO &gt;C28-C36</b>	<b>47.3</b>	10.0	08/13/2019	ND					

Surrogate: 1-Chlorooctane 96.7 % 41-142

Surrogate: 1-Chlorooctadecane 108 % 37.6-147

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**Analytical Results For:**

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

 Received: 08/09/2019  
 Reported: 08/13/2019  
 Project Name: 2C - 3-4  
 Project Number: NONE GIVEN  
 Project Location: LEA CO NM

 Sampling Date: 08/09/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: NSWa (H902756-06)**

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2019	ND	2.15	107	2.00	6.45	
Toluene*	<0.050	0.050	08/13/2019	ND	2.29	115	2.00	6.86	
Ethylbenzene*	<0.050	0.050	08/13/2019	ND	2.17	108	2.00	5.60	
Total Xylenes*	<0.150	0.150	08/13/2019	ND	6.69	112	6.00	5.14	
Total BTEX	<0.300	0.300	08/13/2019	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	16.0	16.0	08/13/2019	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2019	ND	198	99.0	200	3.23	
DRO >C10-C28*	<10.0	10.0	08/13/2019	ND	190	94.8	200	5.83	
EXT DRO >C28-C36	<10.0	10.0	08/13/2019	ND					

Surrogate: 1-Chlorooctane 104 % 41-142

Surrogate: 1-Chlorooctadecane 109 % 37.6-147

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**Analytical Results For:**

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

 Received: 08/09/2019  
 Reported: 08/13/2019  
 Project Name: 2C - 3-4  
 Project Number: NONE GIVEN  
 Project Location: LEA CO NM

 Sampling Date: 08/09/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: ESWa (H902756-07)**

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2019	ND	2.15	107	2.00	6.45	
Toluene*	<0.050	0.050	08/13/2019	ND	2.29	115	2.00	6.86	
Ethylbenzene*	<0.050	0.050	08/13/2019	ND	2.17	108	2.00	5.60	
Total Xylenes*	<0.150	0.150	08/13/2019	ND	6.69	112	6.00	5.14	
Total BTEX	<0.300	0.300	08/13/2019	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
<b>Chloride</b>	<b>16.0</b>	16.0	08/13/2019	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2019	ND	198	99.0	200	3.23	
<b>DRO &gt;C10-C28*</b>	<b>135</b>	10.0	08/13/2019	ND	190	94.8	200	5.83	
<b>EXT DRO &gt;C28-C36</b>	<b>71.3</b>	10.0	08/13/2019	ND					

Surrogate: 1-Chlorooctane 102 % 41-142

Surrogate: 1-Chlorooctadecane 115 % 37.6-147

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**Analytical Results For:**

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

 Received: 08/09/2019  
 Reported: 08/13/2019  
 Project Name: 2C - 3-4  
 Project Number: NONE GIVEN  
 Project Location: LEA CO NM

 Sampling Date: 08/09/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SSWa (H902756-08)**

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2019	ND	2.15	107	2.00	6.45	
Toluene*	<0.050	0.050	08/13/2019	ND	2.29	115	2.00	6.86	
Ethylbenzene*	<0.050	0.050	08/13/2019	ND	2.17	108	2.00	5.60	
Total Xylenes*	<0.150	0.150	08/13/2019	ND	6.69	112	6.00	5.14	
Total BTEX	<0.300	0.300	08/13/2019	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	32.0	16.0	08/13/2019	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2019	ND	198	99.0	200	3.23	
DRO >C10-C28*	<10.0	10.0	08/13/2019	ND	190	94.8	200	5.83	
EXT DRO >C28-C36	<10.0	10.0	08/13/2019	ND					

Surrogate: 1-Chlorooctane 94.0 % 41-142

Surrogate: 1-Chlorooctadecane 100 % 37.6-147

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 P. O. BOX 1226  
 JAL NM, 88252  
 Fax To:

 Received: 08/09/2019  
 Reported: 08/13/2019  
 Project Name: 2C - 3-4  
 Project Number: NONE GIVEN  
 Project Location: LEA CO NM

 Sampling Date: 08/09/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: WSWa (H902756-09)**

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2019	ND	2.15	107	2.00	6.45	
Toluene*	<0.050	0.050	08/13/2019	ND	2.29	115	2.00	6.86	
Ethylbenzene*	<0.050	0.050	08/13/2019	ND	2.17	108	2.00	5.60	
Total Xylenes*	<0.150	0.150	08/13/2019	ND	6.69	112	6.00	5.14	
Total BTEX	<0.300	0.300	08/13/2019	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	16.0	16.0	08/13/2019	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2019	ND	198	99.0	200	3.23	
DRO >C10-C28*	<10.0	10.0	08/13/2019	ND	190	94.8	200	5.83	
EXT DRO >C28-C36	<10.0	10.0	08/13/2019	ND					

Surrogate: 1-Chlorooctane 97.3 % 41-142

Surrogate: 1-Chlorooctadecane 104 % 37.6-147

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**Analytical Results For:**

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

 Received: 08/09/2019  
 Reported: 08/13/2019  
 Project Name: 2C - 3-4  
 Project Number: NONE GIVEN  
 Project Location: LEA CO NM

 Sampling Date: 08/09/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: NSWb (H902756-10)**

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2019	ND	2.15	107	2.00	6.45	
Toluene*	<0.050	0.050	08/13/2019	ND	2.29	115	2.00	6.86	
Ethylbenzene*	<0.050	0.050	08/13/2019	ND	2.17	108	2.00	5.60	
Total Xylenes*	<0.150	0.150	08/13/2019	ND	6.69	112	6.00	5.14	
Total BTEX	<0.300	0.300	08/13/2019	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
<b>Chloride</b>	<b>16.0</b>	16.0	08/13/2019	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2019	ND	198	99.0	200	3.23	
<b>DRO &gt;C10-C28*</b>	<b>172</b>	10.0	08/13/2019	ND	190	94.8	200	5.83	
<b>EXT DRO &gt;C28-C36</b>	<b>87.1</b>	10.0	08/13/2019	ND					

Surrogate: 1-Chlorooctane 98.5 % 41-142

Surrogate: 1-Chlorooctadecane 114 % 37.6-147

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**Analytical Results For:**

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

 Received: 08/09/2019  
 Reported: 08/13/2019  
 Project Name: 2C - 3-4  
 Project Number: NONE GIVEN  
 Project Location: LEA CO NM

 Sampling Date: 08/09/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: ESWb (H902756-11)**

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2019	ND	2.15	107	2.00	6.45	
Toluene*	<0.050	0.050	08/13/2019	ND	2.29	115	2.00	6.86	
Ethylbenzene*	<0.050	0.050	08/13/2019	ND	2.17	108	2.00	5.60	
Total Xylenes*	<0.150	0.150	08/13/2019	ND	6.69	112	6.00	5.14	
Total BTEX	<0.300	0.300	08/13/2019	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	08/13/2019	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2019	ND	198	99.0	200	3.23	
DRO >C10-C28*	<10.0	10.0	08/13/2019	ND	190	94.8	200	5.83	
EXT DRO >C28-C36	<10.0	10.0	08/13/2019	ND					

Surrogate: 1-Chlorooctane 97.9 % 41-142

Surrogate: 1-Chlorooctadecane 104 % 37.6-147

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**Analytical Results For:**

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

 Received: 08/09/2019  
 Reported: 08/13/2019  
 Project Name: 2C - 3-4  
 Project Number: NONE GIVEN  
 Project Location: LEA CO NM

 Sampling Date: 08/09/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SSWa-b (H902756-12)**

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/13/2019	ND	2.15	107	2.00	6.45		
Toluene*	<0.050	0.050	08/13/2019	ND	2.29	115	2.00	6.86		
Ethylbenzene*	<0.050	0.050	08/13/2019	ND	2.17	108	2.00	5.60		
Total Xylenes*	<0.150	0.150	08/13/2019	ND	6.69	112	6.00	5.14		
Total BTEX	<0.300	0.300	08/13/2019	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	08/13/2019	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/13/2019	ND	198	99.0	200	3.23		
DRO >C10-C28*	<10.0	10.0	08/13/2019	ND	190	94.8	200	5.83		
EXT DRO >C28-C36	<10.0	10.0	08/13/2019	ND						

Surrogate: 1-Chlorooctane 96.2 % 41-142

Surrogate: 1-Chlorooctadecane 103 % 37.6-147

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**Analytical Results For:**

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

 Received: 08/09/2019  
 Reported: 08/13/2019  
 Project Name: 2C - 3-4  
 Project Number: NONE GIVEN  
 Project Location: LEA CO NM

 Sampling Date: 08/09/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: WSWb (H902756-13)**

<b>BTEX 8021B</b>		<b>mg/kg</b>		<b>Analyzed By: ms</b>					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2019	ND	2.15	107	2.00	6.45	
Toluene*	<0.050	0.050	08/13/2019	ND	2.29	115	2.00	6.86	
Ethylbenzene*	<0.050	0.050	08/13/2019	ND	2.17	108	2.00	5.60	
Total Xylenes*	<0.150	0.150	08/13/2019	ND	6.69	112	6.00	5.14	
Total BTEX	<0.300	0.300	08/13/2019	ND					

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

<b>Chloride, SM4500CI-B</b>		<b>mg/kg</b>		<b>Analyzed By: AC</b>					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>16.0</b>	16.0	08/13/2019	ND	432	108	400	3.77	

<b>TPH 8015M</b>		<b>mg/kg</b>		<b>Analyzed By: MS</b>					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2019	ND	198	99.0	200	3.23	
DRO >C10-C28*	<10.0	10.0	08/13/2019	ND	190	94.8	200	5.83	
EXT DRO >C28-C36	<10.0	10.0	08/13/2019	ND					

Surrogate: 1-Chlorooctane 98.4 % 41-142

Surrogate: 1-Chlorooctadecane 105 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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

**Notes and Definitions**

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

---

Cardinal Laboratories

\*=Accredited Analyte

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---

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



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

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

Company Name: ETC Texas Pipeline, Ltd.

Project Manager: Joel Lowry

Address: 600 N. Marland St, Suite 700, Midland, TX 79701

City: State: Zip:

Phone #: 432-466-4450 Fax #:

Project #: Project Owner:

Project Name: 2C-3-4

Project Location: Lea County, New Mexico

Sampler Name:

**BILL TO**

P.O. #: Company: ETC Texas Pipeline, Ltd.

Attn: Dean Ericson

Address:

City: State: Zip:

Phone #:

Fax #:

**ANALYSIS REQUEST**

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	OTHER:							
H902756	E. Floor @ 2'	C	1	X							8/9/19	11:05	X	X	X	
	Floor @ 7'	C	1	X							8/9/19	11:10	X	X	X	
	W. Floor @ 2'	C	1	X							8/9/19	11:12	X	X	X	
	N. Floor @ 2' #1	C	1	X							8/9/19	11:21	X	X	X	
	N. Floor @ 2' #2	C	1	X							8/9/19	11:23	X	X	X	
	NSWa	C	1	X							8/9/19	11:40	X	X	X	
	ESWa	C	1	X							8/9/19	11:35	X	X	X	
	SSWa	C	1	X							8/9/19	11:42	X	X	X	
	WSWa	C	1	X							8/9/19	11:37	X	X	X	
	NSWB	C	1	X							8/9/19	11:51	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: *Joel Lowry*

Date: 8/14/19

Time: 4:19

Date: Time:

Time:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other: 1.02 corrected

1.02 corrected 142 #97

Sample Condition Cool/Intact

Yes/No

Checked By: (Initials)

Phone Result: Fax Result: Add'l Phone #: Add'l Fax #:

REMARKS: joel@lowryenvironmental.com

dean.ericson@energytransfer.com

RUSTHI: Added 8/13/19 by



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

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

Company Name: ETC Texas Pipeline, Ltd.

Project Manager: Joel Lowry

Address: 600 N. Marientfeld St, Suite 700, Midland, TX 79701

City: State: Zip:

Phone #: 432-466-4450 Fax #: Project Owner:

Project #: Project Name: 2C-3-4

Project Location: Lea County, New Mexico

Sampler Name:

FOR LAB USE ONLY

**BILL TO**

P.O. #:

Company: ETC Texas Pipeline, Ltd.

Attn: Dean Ericson

Address:

City:

State:

Phone #:

Fax #:

**ANALYSIS REQUEST**

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	OTHER :							
11	ESWB	C	1			X				X	8/9/19	11:55	X	X	X	
12	SSW-a-b	C	1			X				X	8/9/19	11:57	X	X	X	
13	WSWb	C	1			X				X	8/9/19	11:59	X	X	X	

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

Relinquished By:

*Joel Lowry*

Date: 8/9/19

Time: 4:13

Date:

Time:

Received By:

*Joel Ericson*

Received By:

Delivered By: (Circle One)

1.02 + 4 Containers

Sample Condition

Cool  Intact

CHECKED BY: (Initials)

*JE*

Sampler - UPS - Bus - Other:

1.42 #97

Yes  No

Yes  No

Phone Result:  Yes  No  Add'l Phone #:

Fax Result:  Yes  No  Add'l Fax #:

REMARKS:

joel@lowryenvironmental.com

dean.ericson@energytransfer.com



August 14, 2019

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

RE: 2C - 3-4

Enclosed are the results of analyses for samples received by the laboratory on 08/09/19 16:18.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Mike Snyder". The signature is fluid and cursive.

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

**Analytical Results For:**

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

 Received: 08/09/2019  
 Reported: 08/14/2019  
 Project Name: 2C - 3-4  
 Project Number: NONE GIVEN  
 Project Location: LEA CO NM

 Sampling Date: 08/09/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: TT - 1 @ 11' (H902757-01)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>32.0</b>	16.0	08/13/2019	ND	432	108	400	3.77	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2019	ND	198	99.0	200	3.23	
<b>DRO &gt;C10-C28*</b>	<b>16.0</b>	10.0	08/13/2019	ND	190	94.8	200	5.83	
EXT DRO >C28-C36	<10.0	10.0	08/13/2019	ND					
<i>Surrogate: 1-Chlorooctane</i>	92.5 %	41-142							
<i>Surrogate: 1-Chlorooctadecane</i>	98.4 %	37.6-147							

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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

**Notes and Definitions**

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

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Cardinal Laboratories

\*=Accredited Analyte

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



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

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

Company Name: ETC Texas Pipeline, Ltd.

Project Manager: Joel Lowry

Address: 600 N. Marientfield, St. Suite 700, Midland, TX 79701

City: State: Zip:

Phone #: 432-466-4450 Fax #: Project Owner:

Project #: Project Name: 2C-3-4

Project Location: Lea County, New Mexico

Sampler Name:

FOR LAB USE ONLY

**BILL TO**  
 P.O. #: Company: ETC Texas Pipeline, Ltd.  
 Attn: Dean Ericson  
 Address: City: State: Zip:  
 Phone #: Fax #:

**ANALYSIS REQUEST**

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	MATRIX					PRESERV.		DATE	TIME	Chloride	TPH	BTEX 8021					
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:										
H962757	TT-1 @ 11'	C	1			X														

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

Relinquished By: Date: 8/14/19 Time: 4:19  
 Received By: [Signature] Date: Time:

Relinquished By: [Signature]  
 Received By: [Signature]

Delivered By: (Circle One) 1.0<sup>c</sup> + 1.4<sup>c</sup> Containers  
 Sampler - UPS - Bus - Other: 1.4<sup>c</sup> #97

Sample Condition: Cool  Intact   
 Checked By: [Signature]

Phone Result:  Yes  No Add'l Phone #:  
 Fax Result:  Yes  No Add'l Fax #:

REMARKS: ioel@lowryenvironmental.com  
 dean.ericson@energytransfer.com

8/13/19 Joel added RUSH!!



August 15, 2019

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

RE: 2C - 3-4

Enclosed are the results of analyses for samples received by the laboratory on 08/14/19 10:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene  
Lab Director/Quality Manager

**Analytical Results For:**

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

 Received: 08/14/2019  
 Reported: 08/15/2019  
 Project Name: 2C - 3-4  
 Project Number: 32.1748-103.0959  
 Project Location: LEA CO NM

 Sampling Date: 08/14/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: ESWA 8-14 (H902777-01)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/14/2019	ND	1.85	92.4	2.00	1.69	
Toluene*	<0.050	0.050	08/14/2019	ND	1.97	98.6	2.00	4.30	
Ethylbenzene*	<0.050	0.050	08/14/2019	ND	1.97	98.7	2.00	4.93	
Total Xylenes*	<0.150	0.150	08/14/2019	ND	5.99	99.8	6.00	6.80	
Total BTEX	<0.300	0.300	08/14/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	08/14/2019	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/14/2019	ND	207	103	200	1.69	
DRO >C10-C28*	<10.0	10.0	08/14/2019	ND	208	104	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	08/14/2019	ND					

Surrogate: 1-Chlorooctane 91.1 % 41-142

Surrogate: 1-Chlorooctadecane 95.0 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

 Received: 08/14/2019  
 Reported: 08/15/2019  
 Project Name: 2C - 3-4  
 Project Number: 32.1748-103.0959  
 Project Location: LEA CO NM

 Sampling Date: 08/14/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: N. FLOOR #2 8-14 (H902777-02)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/14/2019	ND	1.85	92.4	2.00	1.69		
Toluene*	<0.050	0.050	08/14/2019	ND	1.97	98.6	2.00	4.30		
Ethylbenzene*	<0.050	0.050	08/14/2019	ND	1.97	98.7	2.00	4.93		
Total Xylenes*	<0.150	0.150	08/14/2019	ND	5.99	99.8	6.00	6.80		
Total BTEX	<0.300	0.300	08/14/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	08/14/2019	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/14/2019	ND	207	103	200	1.69		
DRO >C10-C28*	<10.0	10.0	08/14/2019	ND	208	104	200	1.45		
EXT DRO >C28-C36	<10.0	10.0	08/14/2019	ND						

Surrogate: 1-Chlorooctane 99.0 % 41-142

Surrogate: 1-Chlorooctadecane 105 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

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

---

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



---

Celey D. Keene, Lab Director/Quality Manager



September 23, 2019

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

RE: 2C - 3-4

Enclosed are the results of analyses for samples received by the laboratory on 09/19/19 15:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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](http://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,



Celey D. Keene  
Lab Director/Quality Manager

**Analytical Results For:**

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

 Received: 09/19/2019  
 Reported: 09/23/2019  
 Project Name: 2C - 3-4  
 Project Number: NONE GIVEN  
 Project Location: LEA CO NM

 Sampling Date: 09/18/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: NW FL - 1 @ 3" (H903245-01)**

TPH 8015M	mg/kg	Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/20/2019	ND	205	103	200	0.584	
DRO >C10-C28*	<10.0	10.0	09/20/2019	ND	205	103	200	2.08	
EXT DRO >C28-C36	<10.0	10.0	09/20/2019	ND					
<hr/>									
Surrogate: 1-Chlorooctane	94.8 %	41-142							
Surrogate: 1-Chlorooctadecane	96.7 %	37.6-147							

**Sample ID: NW FL - 2 @ 3" (H903245-02)**

TPH 8015M	mg/kg	Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/20/2019	ND	205	103	200	0.584	
DRO >C10-C28*	<10.0	10.0	09/20/2019	ND	205	103	200	2.08	
EXT DRO >C28-C36	<10.0	10.0	09/20/2019	ND					
<hr/>									
Surrogate: 1-Chlorooctane	99.1 %	41-142							
Surrogate: 1-Chlorooctadecane	102 %	37.6-147							

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

 Received: 09/19/2019  
 Reported: 09/23/2019  
 Project Name: 2C - 3-4  
 Project Number: NONE GIVEN  
 Project Location: LEA CO NM

 Sampling Date: 09/18/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: EH - 1 C @ SURFACE (H903245-03)**
**TPH 8015M**
**mg/kg**
**Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/20/2019	ND	205	103	200	0.584	
DRO >C10-C28*	<10.0	10.0	09/20/2019	ND	205	103	200	2.08	
EXT DRO >C28-C36	<10.0	10.0	09/20/2019	ND					

*Surrogate: 1-Chlorooctane*      100 %      41-142

*Surrogate: 1-Chlorooctadecane*      103 %      37.6-147

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

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



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Celey D. Keene, Lab Director/Quality Manager

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

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

Company Name: ETC Texas Pipeline, Ltd.

Project Manager: Joel Lowry

Address: 600 N. Marlenfeld. St., Suite 700, Midland, TX 79701

City: State: Zip:

Phone #: 432-466-4450 Fax #:

Project #: Project Owner:

Project Name: 2C-3-4

Project Location: Lea County, New Mexico

Sampler Name:

FOR LAB USE ONLY

**BILL TO**

P.O. #: Company: ETC Texas Pipeline, Ltd.

Attn: Dean Ericson

Address:

City:

State:

Phone #:

Fax #:

**ANALYSIS REQUEST**

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	OTHER :							
1	NW FL-1 @ 3"	C	1	X							9/18/19	13:15	X			
2	NW FL-2 @ 3"	C	1	X							9/18/19	13:18	X			
3	EH-1C @ Surf.	G	1	X							9/18/19	13:22	X			

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

Relinquished By: *Joel Lowry*  
 Date: 9/18/19  
 Time: 10:05

Received By: *Joanna White*

Date: Time:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Sample Condition

Cool Intact

Yes Yes No No

CHECKED BY: (Initials)

*J.W.*

Phone Result: Yes No Add'l Phone #:

Fax Result: Yes No Add'l Fax #:

REMARKS:

joel@lowryenvironmental.com

dean.ericson@energytransfer.com

**ATTACHMENT #7**  
**Photographic Log**

## PHOTOGRAPHIC LOG



**Figure 1** View of surface staining from the initial release and sample location.

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## PHOTOGRAPHIC LOG



**Figure 2** View of surface staining from the initial release.

## PHOTOGRAPHIC LOG



**Figure 3** View of surface staining from the initial release.

# PHOTOGRAPHIC LOG



**Figure 4** View of portion of the excavated area.

# PHOTOGRAPHIC LOG



Figure 5 View of portion of the excavated area.



Figure 6 View of portion of the excavated area.

## PHOTOGRAPHIC LOG



**Figure 7** View of the affected area after remediation activities.



**Figure 8** View of the affected area after remediation activities.

## PHOTOGRAPHIC LOG



**Figure 9** View of the affected area after remediation activities.

**ATTACHMENT #8**  
**Release Notification (FORM C-141)**

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

State of New Mexico Energy  
Minerals and Natural Resources Department  
Oil Conservation Division

1220 South St. Francis Dr.  
Santa Fe, NM 87505

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

Incident ID	0
District RP	0 1RP-5410
Facility ID	0 fAB1908835112
Application ID	0 pAB1908835332

**Release Notification**  
**Responsible Party**

Responsibly Party	ETC Texas Pipeline, Ltd.	OGRID	371183
Contact Name	Carolyn Blackaller	Contact Telephone	817-302-9766
Contact Email	carolyn.blackaller@energytransfer.com	Incident # (assigned by OCD)	0
Contact Mailing Address	600 N. Marienfeld. St., Suite 700, Midland, TX 79701		

**Location of Release Source**

Latitude 32.1748 Longitude -103.0959  
(Nad 83 in decimal degrees to 5 decimal places)

Site Name	2C-3-4	Site Type	Pipeline
Date Release Discovered	03/06/19	API# (if applicable)	NA

Unit Letter	Section	Township	Range	County
G	31	T24S	38E	Lea

Surface Owner:  State  Federal  Tribal  Private (Name: Willis Family Trust)

**Nature and Volume of Release**

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Liquids **	Volume Released (bbls) <b>** 9.4</b>	Volume Recovered (bbls) <b>None</b>
	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 checked="" type="checkbox"/> N/A
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

**Cause of Release**

The release was attributed to the failure of a segment of buried natural gas pipeline as a result of corrosion.

\*\*What type of liquids release above?  
*AB*

Incident ID	0	NAB1908835620
District RP	0	1RP-5410
Facility ID	0	fAB1908835112
Application ID	0	pAB1908835332

Was this a major release as defined by 19.15.29.7(A) NMAC?  <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means? (phone, email, etc)?	

### Initial Response

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

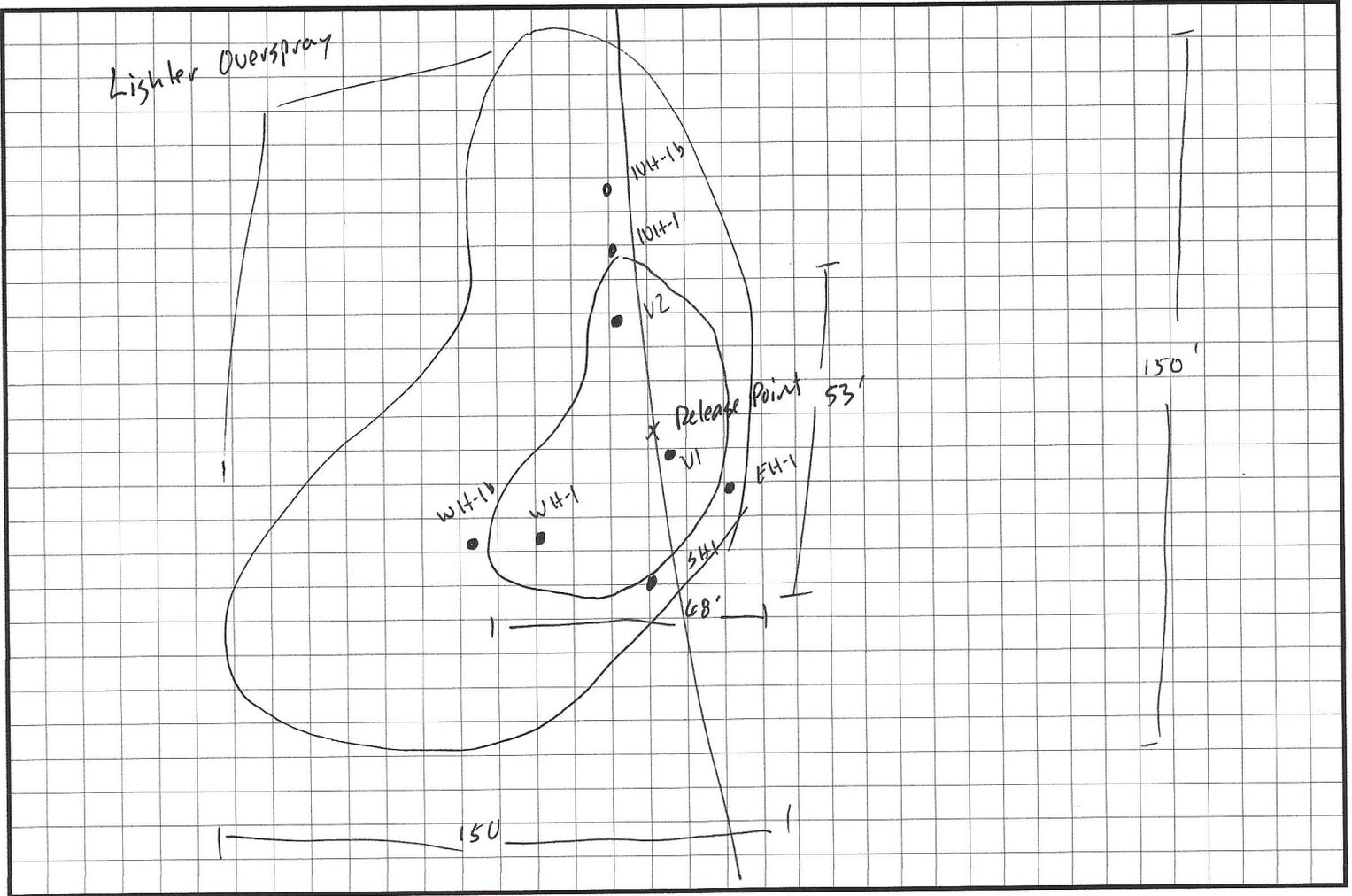
<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Release materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11 (A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Carolyn Blackaller</u>	Title: <u>Sr. Environmental Specialist</u>
Signature: <u></u>	Date: <u>3/20/2019</u>
email: <u>carolyn.blackaller@energytransfer.com</u>	Telephone: <u>817-302-9766</u>
<b>OCD Only</b>	
Received by: <u></u>	Date: <u>3/29/2019</u>

**ATTACHMENT #9**  
**Field Data**

# FIELD NOTES

Site Name: 2C-3-4

Date: 3/27/2019



Map / Measure affected Area  
Delaware Site Hit Rock @ 6'  
Field Screen Samples

Field ID	Odor/PID	Chloride

Field ID	Odor/PID	Chloride

Field ID	Odor/PID	Chloride

Field ID	Odor/PID	Chloride

Field ID	Odor/PID	Chloride

Field ID	Odor/PID	Chloride

