



January 4, 2019

Christina Hernandez
New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division, District 1
1625 French Drive
Hobbs, NM 88240

Incident ID	NCH1831954977
District RP	1RP-5265
Facility ID	fCH1831949029
Application ID	pCH1831956246

Re: Site Assessment Report and Proposed Remediation Plan
Site Name: 2B Pipeline
GPS: Latitude: 32.16947 Longitude: -103.20493
Legals: UL "N", Sec. 31, T24S, R37E
Lea County, New Mexico
NMOCD Ref. No. 1RP-5265

Lowry Environmental & Associates, LLC (LEA), on behalf of ETC Texas Pipeline, Ltd., has prepared this Site Assessment Report and Proposed Remediation Plan for the Release Site known as the 2B Pipeline. Details of the release are summarized on the table below:

Nature and Volume of Release	
Date Release Discovered	10/26/2018
Source of Release	Pipeline
Type of Release	Produced Water, Condensate & Natural Gas
Volume Released	27.54 bbls PW, 3.06 bbls Condensate 187.597 Mcf Gas
Volume Recovered	None
Cause of Release	
The release was attributed to a crack in the 4-inch poly pipeline.	
Affected Area	
Fluid from the release mixed with rainwater and affected an area measuring approximately 7,500 sq. ft. within the pipeline right-of-way. Overspray from the release affected an area within the adjacent pasture measuring approximately 5,000 sq. ft.	
Was this a major release?	If YES, for what reasons (s) is this considered a major release?
Yes	Unauthorized release of a volume of liquids exceeding 25 bbls.
If Yes, was immediate notice given to the OCD? By whom? To whom? When and by what means?	
No, Immediate notice was not given due to excessive rainfall at the release site, which hindered the determination of approximately how much liquid was released.	

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 not 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 average 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 database suggested the presence of 1 water well (CP00549) within 1,000 ft. of the site. A field survey indicated available geographic information for CP00549 is outdated and/or incorrect; there is no water well in that vicinity. A search of the USGS database did not identify any water wells within a 1/2 Mile radius.

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 **November 2, 2018**, three (3) soil samples (V1 1", V2 6", V3 8" and V4 1') were collected from the affected area in an effort to characterize impacts from the release. The collected soil samples were submitted to an NMOCD-approved 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 V1 1", which exhibited a combined GRO and DRO concentration of 12,668 mg/kg and a TPH concentration of 14,898 mg/kg.

On **December 12, 2018**, LEA conducted an initial site assessment. During the initial site assessment, ten (10) soil samples (NH-1 @ 6", NH-1 @ 2', WH-1 @ 6", WH-1 @ 2', SH-1 @ 6", SH-1 @ 2', EH-1 @ 6", EH-1 @ 2', EH-2 @ 6" and EH-2 @ 2') were collected from the inferred edges of the affected area in an effort to determine the horizontal extent of soil impact. In addition, one (1) soil sample (V-1b @ 4'-R) was collected from beneath the release point in the area characterized by sample point V1. 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.

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(s)											
Sample ID	Date	Depth	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
V1 1"	11/2/18	1"	In-Situ	<0.200	22.2	668	12,000	12,668	2,230	14,898	608
V2 6"	11/2/18	6"	In-Situ	<0.050	<0.300	<10.0	72.5	72.5	39.5	112	32.0
V3 8"	11/2/18	18"	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
V4 1'	11/2/18	1'	In-Situ	<0.050	<0.300	<10.0	778	778	185	963	32.0
NH-1 @ 6"	12/12/18	6"	In-Situ	<0.050	<0.300	<10.0	23.3	23.3	<10.0	23.3	32.0
NH-1 @ 2'	12/12/18	2'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
WH-1 @ 6"	12/12/18	6"	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
WH-1 @ 2'	12/12/18	2'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SH-1 @ 6"	12/12/18	6"	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SH-1 @ 2'	12/12/18	2'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
EH-1 @ 6"	12/12/18	6"	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
EH-1 @ 2'	12/12/18	2'	In-Situ	<0.050	<0.300	<10.0	189	189	53.2	242	64.0
EH-2 @ 6"	12/12/18	6"	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
EH-2 @ 2'	12/12/18	2'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
V-1b @ 4'-R	12/12/18	4'	In-Situ	<0.050	0.364	12.4	204	216.4	15.8	232.2	16.0
Closure Criteria				10	50	-	-	1,000	-	2,500	10,000

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. proposes the following remediation activities designed to advance the Site toward an approved closure:

- Utilizing mechanical equipment, excavate impacted soil within the release margins affected above the NMOCD Closure Criteria.
- The floor of the excavation will be advanced to a depth of approximately 4 ft. bgs in the area characterized by sample points V1 and V-1b, 6 in. bgs in the area characterized by sample point V2, 8 in. bgs in the area characterized by sample point V3 or until laboratory analytical results from confirmation soil samples indicate concentrations of BTEX, TPH and chloride are below the NMOCD Closure Criteria.
- Excavation sidewalls will be advanced horizontally until laboratory analytical results from confirmation soil samples indicate BTEX, TPH and chloride concentrations are below the NMOCD Closure Criteria.
- Excavated soil will be temporarily stockpiled on-site, pending transportation under manifest to an NMOCD-approved disposal facility.
- Upon receiving favorable laboratory analytical results from confirmation soil samples (below the NMOCD Closure Criteria) excavated areas 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 **1,000 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.

TIMELINE AND ESTIMATED VOLUME OF SOIL TO BE REMEDIATED

Remediation activities are expected to be completed **within 90 days** of receiving necessary approval(s) of this Site Assessment Summary and Proposed Remediation Plan. Based on laboratory analytical results, site characteristics and field observations made during the initial site assessment it is estimated that approximately **450 cubic yards** of soil has been affected above the NMOCD Closure Criteria.

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RESTORATION, RECLAMATION AND RE-VEGETATION PLAN

Areas affected by remediation and closure activities will be substantially restored to the condition that existed prior to the release, to the extent practicable. Excavated areas will be backfilled with locally sourced, non-impacted "like" material 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. Affected areas not on production pads and/or lease roads will be reseeded with an agency and/or landowner-approved seed mixture during the first favorable growing season following closure of the site.

If you have any questions, or need any additional information, please feel free to contact Dean Ericson or the undersigned by phone or email.

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

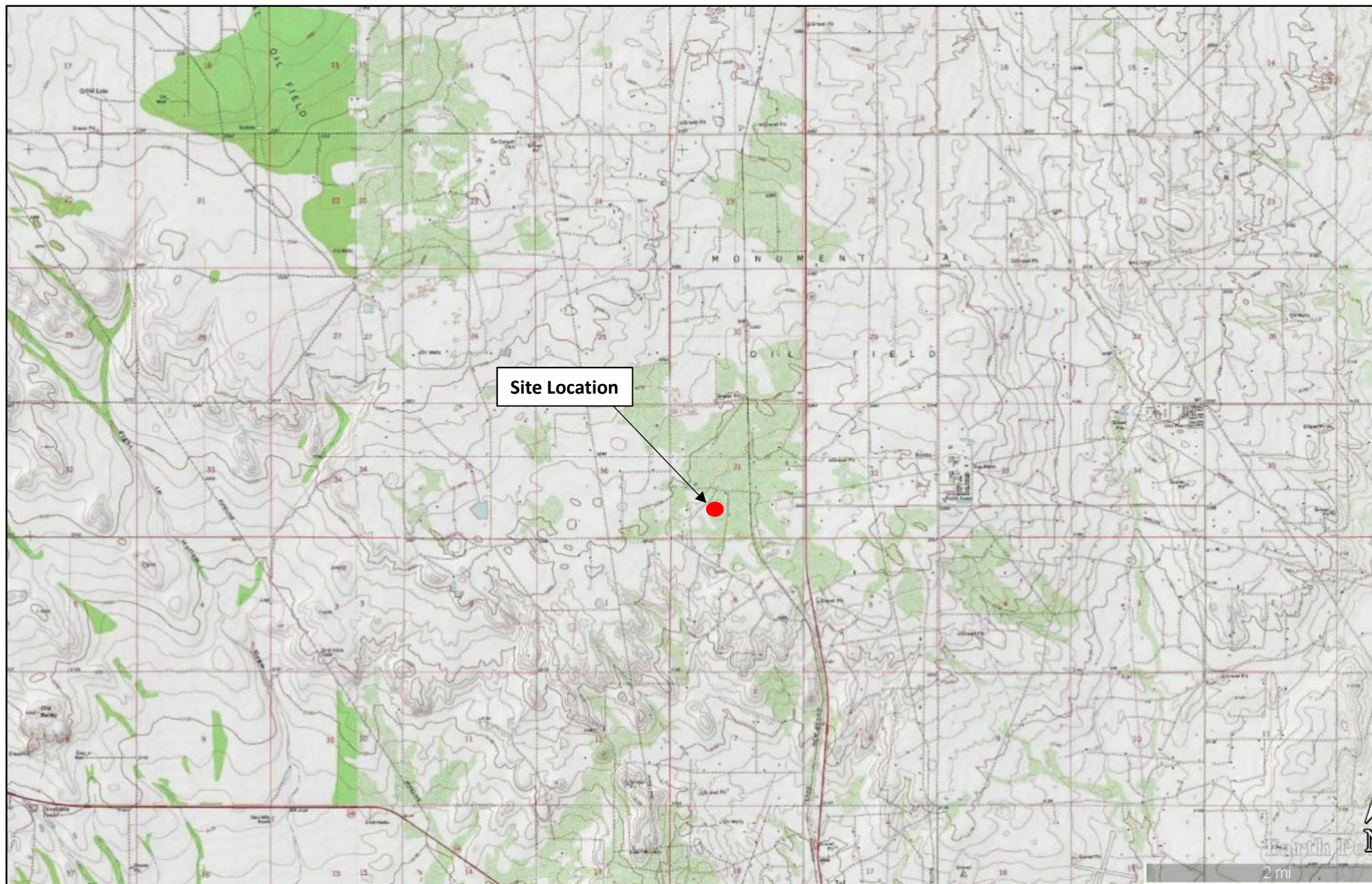
LIMITATIONS


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.

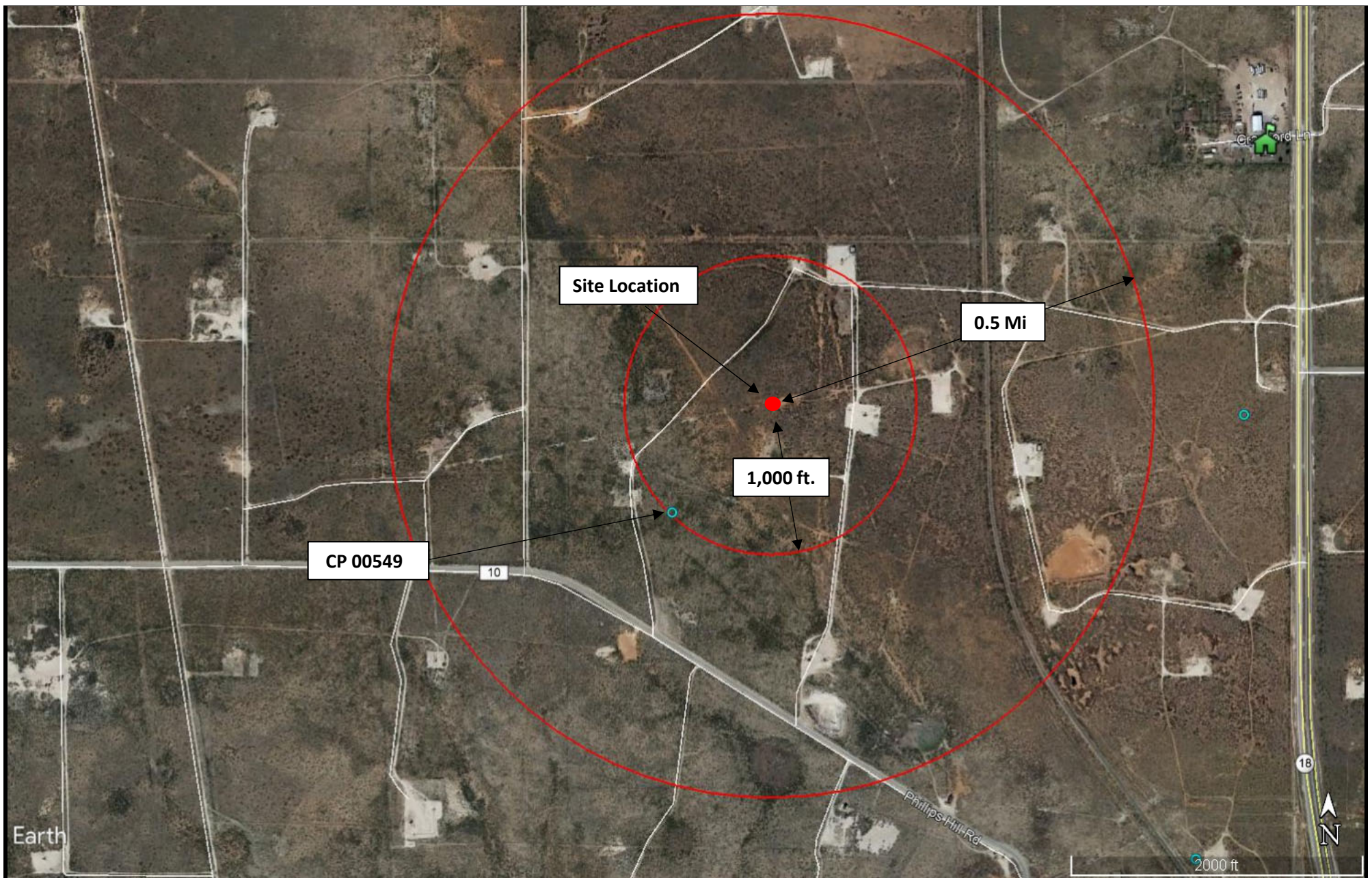
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ATTACHMENT #1
Figure 1 - Topographic Map



<p>LEGEND:</p> <p>● Site Location</p>	<p>Figure 1 Topographic Map ETC Texas Pipeline, Ltd. 2B Pipeline GPS: 32.16947, -103.20493 Lea County, New Mexico</p>	<p>LOWRY  environmental</p> <p>Drafted by: jwl Checked by: client Date: 12/27/2018</p>
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ATTACHMENT #2
Figure 2 - Aerial Map



LEGEND:

- Site Location
- Fresh Water Well
- ⊙ 100-Year Floodplain
- High/Critical Karst



- Non-Industrial Building
- Subsurface Mine

Figure 2

Aerial Map

ETC Texas Pipeline, Ltd.

2B Pipeline

GPS: 32.16947, -103.20493

Lea County, New Mexico



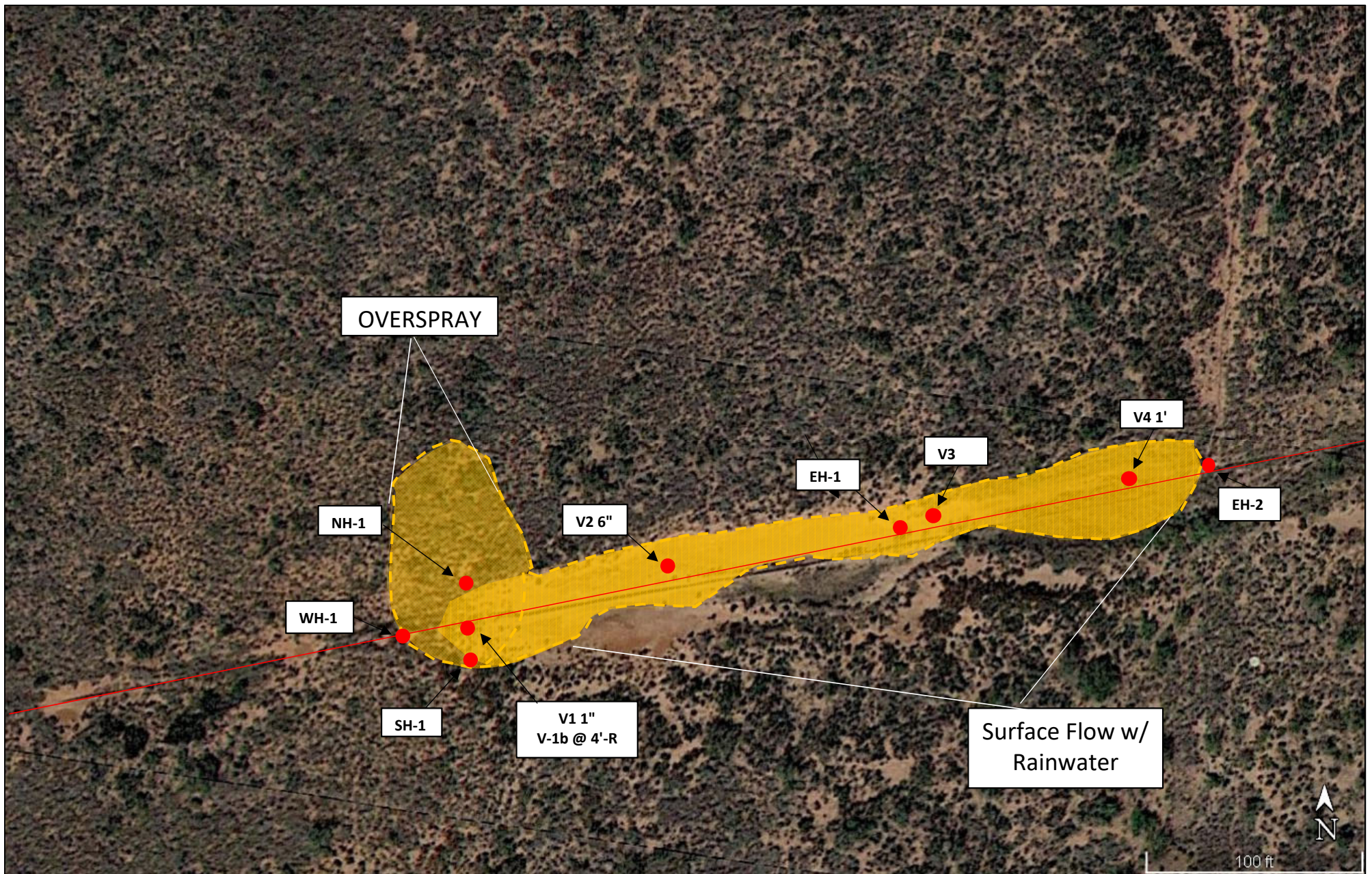
Drafted by: jwl

Checked by: client

Date: 12/27/2018

ATTACHMENT #3

Figure 3 - Site & Sample Location Map



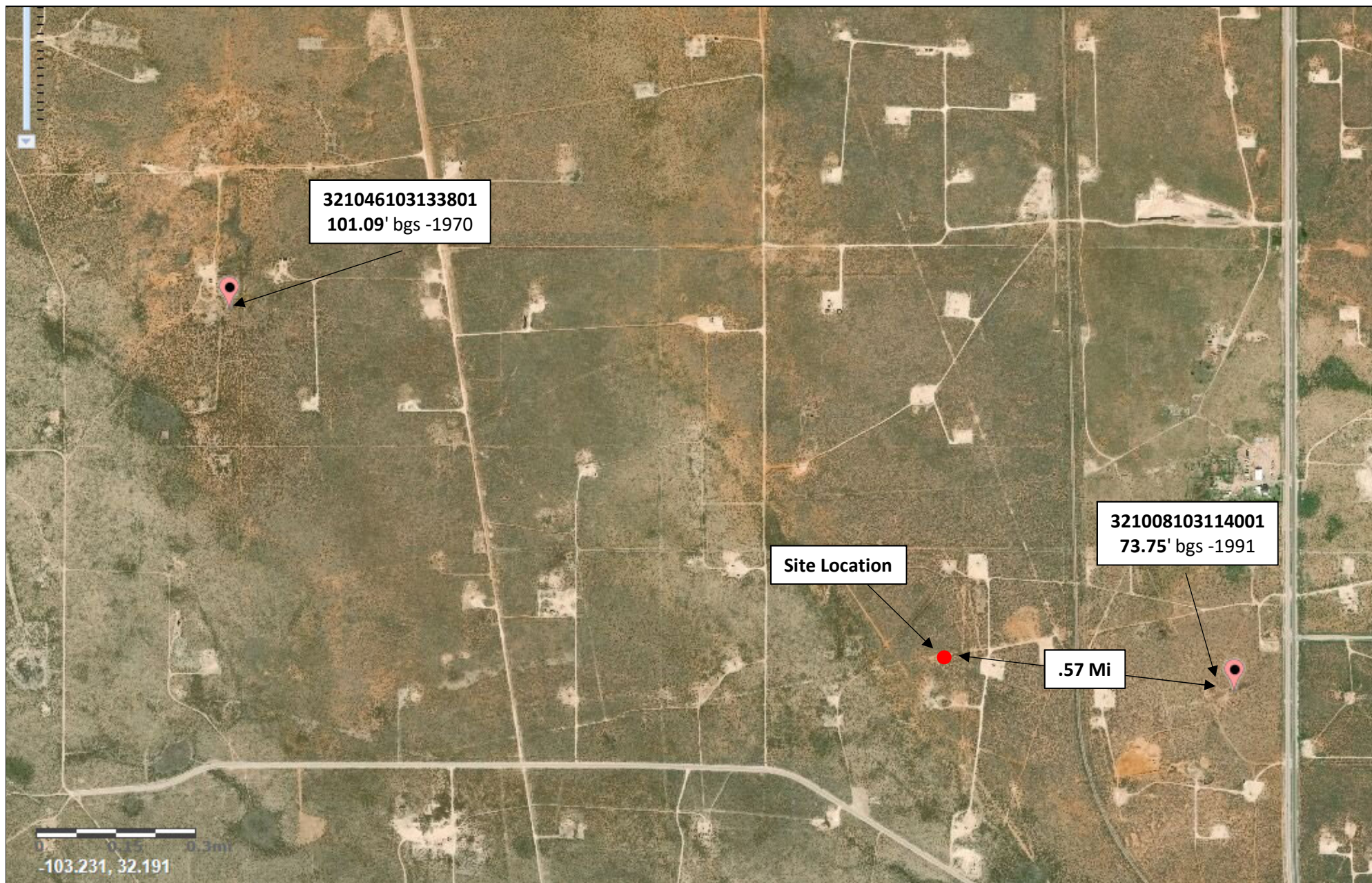
LEGEND:	
●	Sample Point
	Affected Area
—	Buried Pipeline

Figure 3
 Site & Sample Location Map
 ETC Texas Pipeline, Ltd.
 2B Pipeline
 GPS: 32.16947, -103.20493
 Lea County, New Mexico



Drafted by: jwl
Checked by: client
Date: 1/4/2019

ATTACHMENT #4
Depth to Groundwater Information



LEGEND:

● Site Location

Figure 4

USGS Well Proximity Map
ETC Texas Pipeline, Ltd.
2B Pipeline
GPS: 32.16947, -103.20493
Lea County, New Mexico



Drafted by: jwl

Checked by: client

Date: 12/27/2018



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	POD Code	Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
CP 00549 POD1		CP	XX	4	3	3	31	24S	37E	669051	3560409*	301	200		
CP 00494 POD1		CP	LE	2	4	4	31	24S	37E	670239	3560628*	985	500		
CP 00846 POD1		CP	LE		4	2	06	25S	37E	670154	3559725*	1278	600		

Average Depth to Water: --

Minimum Depth: --

Maximum Depth: --

Record Count: 3

UTMNAD83 Radius Search (in meters):

Easting (X): 669253.4

Northing (Y): 3560632.3

Radius: 1608

*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.

12/6/18 4:11 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER



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USGS Water Resources

Data Category:

Groundwater

Geographic Area:

United States

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site_no list =

- 321008103114001

Minimum number of levels = 1

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

USGS 321008103114001 24S.37E.31.243442

Available data for this site

Groundwater: Field measurements

GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°10'08", Longitude 103°11'40" NAD27

Land-surface elevation 3,240 feet above NAVD88

The depth of the well is 100 feet below land surface.

This well is completed in the Ogallala Formation (121OGLL) local aquifer.

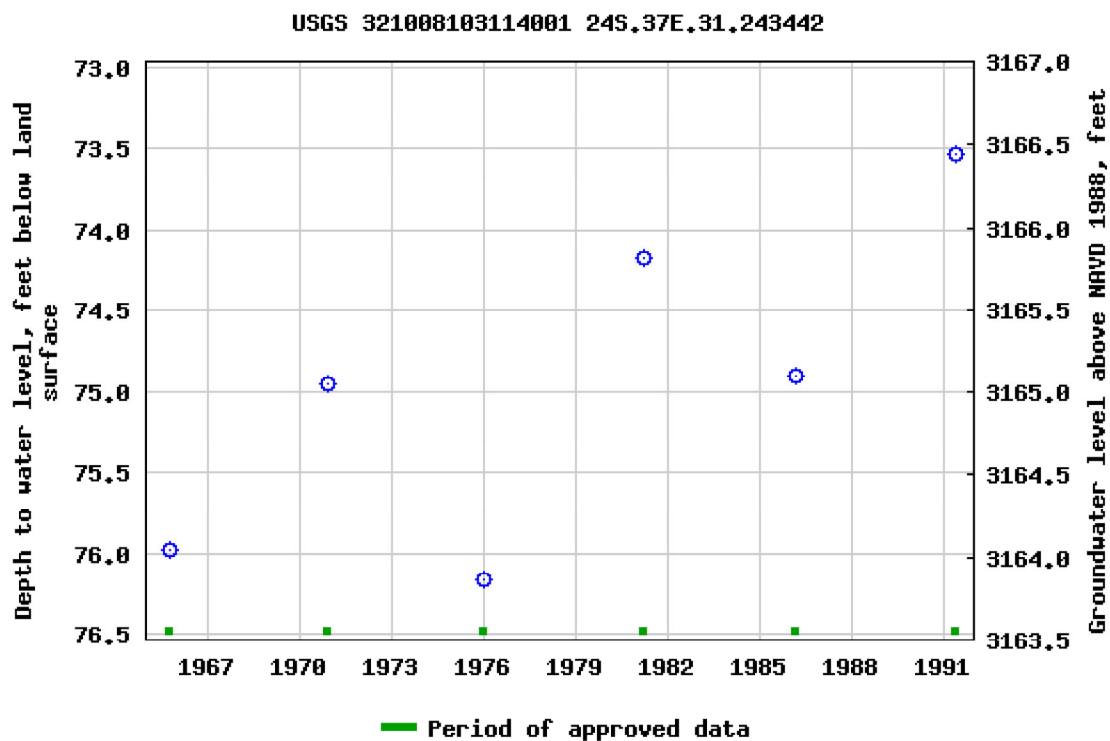
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Page Contact Information: [USGS Water Data Support Team](#)

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1.07 0.98 nadww01



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- 321046103133801

Minimum number of levels = 1

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USGS 321046103133801 24S.36E.26.44223

Available data for this site

Groundwater: Field measurements

GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°10'46", Longitude 103°13'38" NAD27

Land-surface elevation 3,277 feet above NAVD88

This well is completed in the Ogallala Formation (121OGLL) local aquifer.

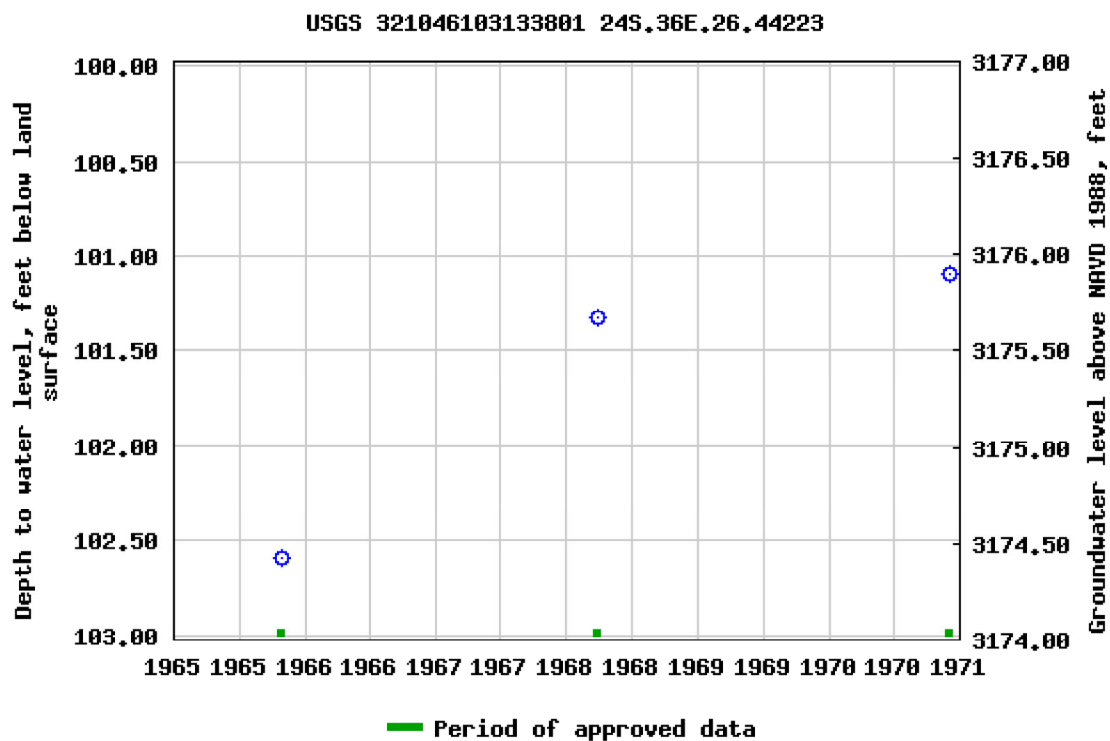
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1.64 0.98 nadww01



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)						(NAD83 UTM in meters)	
		(quarters are smallest to largest)						X	Y
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng		
	CP 00549 POD1	4	3	3	31	24S	37E	669051	3560409* 
x									
Driller License:	122	Driller Company:				UNKNOWN			
Driller Name:	COLE DRILLING COMPANY								
Drill Start Date:	Drill Finish Date:				Plug Date:				
Log File Date:	PCW Rev Date:				Source: Shallow				
Pump Type:	Pipe Discharge Size:				Estimated Yield:				
Casing Size:	10.75	Depth Well:				200 feet		Depth Water:	
x									

*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.

12/6/18 4:18 PM

POINT OF DIVERSION SUMMARY

ATTACHMENT #5
Soil Profile

SOIL PROFILE

Site Name: 2B Pipeline

Date: 12/12/18

Description		Depth (ft. bgs)
		1
		2
		3
Red Sand		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
		1
		2
		3
		4
		5
		6
		7
		8
		9
		0

TD

ATTACHMENT #6
Laboratory Analytical Reports

November 05, 2018

DEAN ERICSON

ENERGY TRANSFER

P. O. BOX 1226

JAL, NM 88252

RE: 2B

Enclosed are the results of analyses for samples received by the laboratory on 11/02/18 16:45.

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.

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

Received: 11/02/2018
Reported: 11/05/2018
Project Name: 2B
Project Number: NONE GIVEN
Project Location: 32.16947

Sampling Date: 11/02/2018
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Celey D. Keene

Sample ID: V1 1" (H803159-01)

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	11/05/2018	ND	2.47	124	2.00	1.90	
Toluene*	0.872	0.200	11/05/2018	ND	2.28	114	2.00	1.58	
Ethylbenzene*	5.51	0.200	11/05/2018	ND	2.17	109	2.00	1.79	
Total Xylenes*	15.8	0.600	11/05/2018	ND	6.67	111	6.00	0.628	
Total BTEx	22.2	1.20	11/05/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 134 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	11/05/2018	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	668	50.0	11/03/2018	ND	218	109	200	8.04		
DRO >C10-C28*	12000	50.0	11/03/2018	ND	224	112	200	4.73		
EXT DRO >C28-C36	2230	50.0	11/03/2018	ND						

Surrogate: 1-Chlorooctane 139 % 41-142

Surrogate: 1-Chlorooctadecane 294 % 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: 11/02/2018
Reported: 11/05/2018
Project Name: 2B
Project Number: NONE GIVEN
Project Location: 32.16947

Sampling Date: 11/02/2018
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Celey D. Keene

Sample ID: V2 6" (H803159-02)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/05/2018	ND	2.47	124	2.00	1.90	
Toluene*	<0.050	0.050	11/05/2018	ND	2.28	114	2.00	1.58	
Ethylbenzene*	<0.050	0.050	11/05/2018	ND	2.17	109	2.00	1.79	
Total Xylenes*	<0.150	0.150	11/05/2018	ND	6.67	111	6.00	0.628	
Total BTX	<0.300	0.300	11/05/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/05/2018	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	11/03/2018	ND	218	109	200	8.04	
DRO >C10-C28*	72.5	10.0	11/03/2018	ND	224	112	200	4.73	
EXT DRO >C28-C36	39.5	10.0	11/03/2018	ND					

Surrogate: 1-Chlorooctane 104 % 41-142

Surrogate: 1-Chlorooctadecane 103 % 37.6-147

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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: 11/02/2018
Reported: 11/05/2018
Project Name: 2B
Project Number: NONE GIVEN
Project Location: 32.16947

Sampling Date: 11/02/2018
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Celey D. Keene

Sample ID: V3 8" (H803159-03)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/05/2018	ND	2.47	124	2.00	1.90	
Toluene*	<0.050	0.050	11/05/2018	ND	2.28	114	2.00	1.58	
Ethylbenzene*	<0.050	0.050	11/05/2018	ND	2.17	109	2.00	1.79	
Total Xylenes*	<0.150	0.150	11/05/2018	ND	6.67	111	6.00	0.628	
Total BTX	<0.300	0.300	11/05/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.8-142

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	11/05/2018	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	11/03/2018	ND	218	109	200	8.04	
DRO >C10-C28*	<10.0	10.0	11/03/2018	ND	224	112	200	4.73	
EXT DRO >C28-C36	<10.0	10.0	11/03/2018	ND					

Surrogate: 1-Chlorooctane 94.5 % 41-142

Surrogate: 1-Chlorooctadecane 88.5 % 37.6-147

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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: 11/02/2018
Reported: 11/05/2018
Project Name: 2B
Project Number: NONE GIVEN
Project Location: 32.16947

Sampling Date: 11/02/2018
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Celey D. Keene

Sample ID: V4 1' (H803159-04)

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	11/05/2018	ND	2.47	124	2.00	1.90	
Toluene*	<0.050	0.050	11/05/2018	ND	2.28	114	2.00	1.58	
Ethylbenzene*	<0.050	0.050	11/05/2018	ND	2.17	109	2.00	1.79	
Total Xylenes*	<0.150	0.150	11/05/2018	ND	6.67	111	6.00	0.628	
Total BTEX	<0.300	0.300	11/05/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/05/2018	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	11/03/2018	ND	218	109	200	8.04	
DRO >C10-C28*	778	10.0	11/03/2018	ND	224	112	200	4.73	
EXT DRO >C28-C36	185	10.0	11/03/2018	ND					

Surrogate: 1-Chlorooctane 103 % 41-142

Surrogate: 1-Chlorooctadecane 134 % 37.6-147

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

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Celey D. Keene, Lab Director/Quality Manager



CARDINAL Laboratories

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>ETC</u>		P.O. #:		BILL TO												ANALYSIS REQUEST																															
Project Manager: <u>Debra E. Carson</u>		Company:																																													
Address:		Attn:																																													
City:		Address:																																													
State:		City:																																													
Zip:		State:																																													
Phone #:		Phone #:																																													
Fax #:		Fax #:																																													
Project #:		Project Owner:																																													
Project Name: <u>ZB</u>		State:																																													
Project Location: <u>32.16 947</u>		Zip:																																													
Sample Name: <u>Tyler Bowers</u>		Phone #:																																													
Fax #:		Fax #:																																													
FOR LAB USE ONLY		PRESERV.		SAMPLING																																											
Lab I.D. <u>4303157-</u>		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME		T _{PH} <u>ex</u>		CL		BT _{ex}													
01 V1 1"																										11/2/18		2:00pm																			
02 V2 6"																																															
03 V3 8"																																															
04 V4 1'																																															
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or 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: <u>11/2/18</u>		Received By: <u>Debra Carson</u>		Sample Condition		CHECKED BY: <u>Code #97</u>		REMARKS: <u>NM Rushill</u>																																			
Relinquished By:		Date:		Time: <u>4:45pm</u>		Received By:		Cool <input type="checkbox"/> Intact <input checked="" type="checkbox"/>		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>																																					
Delivered By: (Circle One)		Sampler - UPS - Bus - Other:		18.1C																																											

December 13, 2018

JOEL LOWRY

ENERGY TRANSFER

P. O. BOX 1226

JAL, NM 88252

RE: 2B PIPELINE

Enclosed are the results of analyses for samples received by the laboratory on 12/12/18 15:35.

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.

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: 12/12/2018
Reported: 12/13/2018
Project Name: 2B PIPELINE
Project Number: NONE GIVEN
Project Location: LEA COUNTY, NM

Sampling Date: 12/12/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: NH - 1 @ 6" (H803639-01)

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	12/13/2018	ND	2.41	120	2.00	1.84	
Toluene*	<0.050	0.050	12/13/2018	ND	2.35	117	2.00	0.417	
Ethylbenzene*	<0.050	0.050	12/13/2018	ND	2.29	114	2.00	1.52	
Total Xylenes*	<0.150	0.150	12/13/2018	ND	6.93	116	6.00	1.77	
Total BTEX	<0.300	0.300	12/13/2018	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	32.0	16.0	12/13/2018	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	12/13/2018	ND	208	104	200	0.863	
DRO >C10-C28*	23.3	10.0	12/13/2018	ND	216	108	200	1.87	
EXT DRO >C28-C36	<10.0	10.0	12/13/2018	ND					

Surrogate: 1-Chlorooctane 111 % 41-142

Surrogate: 1-Chlorooctadecane 132 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 12/12/2018
Reported: 12/13/2018
Project Name: 2B PIPELINE
Project Number: NONE GIVEN
Project Location: LEA COUNTY, NM

Sampling Date: 12/12/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: NH - 1 @ 2' (H803639-02)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/13/2018	ND	2.41	120	2.00	1.84	
Toluene*	<0.050	0.050	12/13/2018	ND	2.35	117	2.00	0.417	
Ethylbenzene*	<0.050	0.050	12/13/2018	ND	2.29	114	2.00	1.52	
Total Xylenes*	<0.150	0.150	12/13/2018	ND	6.93	116	6.00	1.77	
Total BTX	<0.300	0.300	12/13/2018	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/13/2018	ND	400	100	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	12/12/2018	ND	186	93.2	200	0.167	
DRO >C10-C28*	<10.0	10.0	12/12/2018	ND	198	99.0	200	2.34	
EXT DRO >C28-C36	<10.0	10.0	12/12/2018	ND					

Surrogate: 1-Chlorooctane 93.5 % 41-142

Surrogate: 1-Chlorooctadecane 86.1 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 12/12/2018
 Reported: 12/13/2018
 Project Name: 2B PIPELINE
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY, NM

 Sampling Date: 12/12/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: WH - 1 @ 6" (H803639-03)

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	12/13/2018	ND	2.41	120	2.00	1.84		
Toluene*	<0.050	0.050	12/13/2018	ND	2.35	117	2.00	0.417		
Ethylbenzene*	<0.050	0.050	12/13/2018	ND	2.29	114	2.00	1.52		
Total Xylenes*	<0.150	0.150	12/13/2018	ND	6.93	116	6.00	1.77		
Total BTEx	<0.300	0.300	12/13/2018	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/13/2018	ND	400	100	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	12/12/2018	ND	186	93.2	200	0.167	
DRO >C10-C28*	<10.0	10.0	12/12/2018	ND	198	99.0	200	2.34	
EXT DRO >C28-C36	<10.0	10.0	12/12/2018	ND					

Surrogate: 1-Chlorooctane 90.2 % 41-142

Surrogate: 1-Chlorooctadecane 84.3 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 12/12/2018
Reported: 12/13/2018
Project Name: 2B PIPELINE
Project Number: NONE GIVEN
Project Location: LEA COUNTY, NM

Sampling Date: 12/12/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: WH - 1 @ 2' (H803639-04)

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	12/13/2018	ND	2.41	120	2.00	1.84	
Toluene*	<0.050	0.050	12/13/2018	ND	2.35	117	2.00	0.417	
Ethylbenzene*	<0.050	0.050	12/13/2018	ND	2.29	114	2.00	1.52	
Total Xylenes*	<0.150	0.150	12/13/2018	ND	6.93	116	6.00	1.77	
Total BTEx	<0.300	0.300	12/13/2018	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	12/13/2018	ND	400	100	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	12/12/2018	ND	186	93.2	200	0.167	
DRO >C10-C28*	<10.0	10.0	12/12/2018	ND	198	99.0	200	2.34	
EXT DRO >C28-C36	<10.0	10.0	12/12/2018	ND					

Surrogate: 1-Chlorooctane 95.1 % 41-142

Surrogate: 1-Chlorooctadecane 88.3 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 12/12/2018
Reported: 12/13/2018
Project Name: 2B PIPELINE
Project Number: NONE GIVEN
Project Location: LEA COUNTY, NM

Sampling Date: 12/12/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SH - 1 @ 6" (H803639-05)

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	12/13/2018	ND	2.41	120	2.00	1.84	
Toluene*	<0.050	0.050	12/13/2018	ND	2.35	117	2.00	0.417	
Ethylbenzene*	<0.050	0.050	12/13/2018	ND	2.29	114	2.00	1.52	
Total Xylenes*	<0.150	0.150	12/13/2018	ND	6.93	116	6.00	1.77	
Total BTEx	<0.300	0.300	12/13/2018	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/13/2018	ND	400	100	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	12/12/2018	ND	186	93.2	200	0.167	
DRO >C10-C28*	<10.0	10.0	12/12/2018	ND	198	99.0	200	2.34	
EXT DRO >C28-C36	<10.0	10.0	12/12/2018	ND					

Surrogate: 1-Chlorooctane 91.9 % 41-142

Surrogate: 1-Chlorooctadecane 85.9 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 12/12/2018
 Reported: 12/13/2018
 Project Name: 2B PIPELINE
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY, NM

 Sampling Date: 12/12/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SH - 1 @ 2' (H803639-06)

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	12/13/2018	ND	2.41	120	2.00	1.84	
Toluene*	<0.050	0.050	12/13/2018	ND	2.35	117	2.00	0.417	
Ethylbenzene*	<0.050	0.050	12/13/2018	ND	2.29	114	2.00	1.52	
Total Xylenes*	<0.150	0.150	12/13/2018	ND	6.93	116	6.00	1.77	
Total BTEX	<0.300	0.300	12/13/2018	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/13/2018	ND	400	100	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	12/12/2018	ND	186	93.2	200	0.167	
DRO >C10-C28*	<10.0	10.0	12/12/2018	ND	198	99.0	200	2.34	
EXT DRO >C28-C36	<10.0	10.0	12/12/2018	ND					

Surrogate: 1-Chlorooctane 86.6 % 41-142

Surrogate: 1-Chlorooctadecane 85.6 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 12/12/2018
Reported: 12/13/2018
Project Name: 2B PIPELINE
Project Number: NONE GIVEN
Project Location: LEA COUNTY, NM

Sampling Date: 12/12/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: EH - 1 @ 6" (H803639-07)

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	12/13/2018	ND	2.41	120	2.00	1.84		
Toluene*	<0.050	0.050	12/13/2018	ND	2.35	117	2.00	0.417		
Ethylbenzene*	<0.050	0.050	12/13/2018	ND	2.29	114	2.00	1.52		
Total Xylenes*	<0.150	0.150	12/13/2018	ND	6.93	116	6.00	1.77		
Total BTEx	<0.300	0.300	12/13/2018	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	12/13/2018	ND	400	100	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	12/12/2018	ND	186	93.2	200	0.167	
DRO >C10-C28*	<10.0	10.0	12/12/2018	ND	198	99.0	200	2.34	
EXT DRO >C28-C36	<10.0	10.0	12/12/2018	ND					

Surrogate: 1-Chlorooctane 89.3 % 41-142

Surrogate: 1-Chlorooctadecane 87.8 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 12/12/2018
Reported: 12/13/2018
Project Name: 2B PIPELINE
Project Number: NONE GIVEN
Project Location: LEA COUNTY, NM

Sampling Date: 12/12/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: EH - 1 @ 2' (H803639-08)

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	12/13/2018	ND	2.41	120	2.00	1.84	
Toluene*	<0.050	0.050	12/13/2018	ND	2.35	117	2.00	0.417	
Ethylbenzene*	<0.050	0.050	12/13/2018	ND	2.29	114	2.00	1.52	
Total Xylenes*	<0.150	0.150	12/13/2018	ND	6.93	116	6.00	1.77	
Total BTEx	<0.300	0.300	12/13/2018	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	12/13/2018	ND	400	100	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	12/12/2018	ND	186	93.2	200	0.167	
DRO >C10-C28*	189	10.0	12/12/2018	ND	198	99.0	200	2.34	
EXT DRO >C28-C36	53.2	10.0	12/12/2018	ND					

Surrogate: 1-Chlorooctane 89.0 % 41-142

Surrogate: 1-Chlorooctadecane 96.0 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 12/12/2018
Reported: 12/13/2018
Project Name: 2B PIPELINE
Project Number: NONE GIVEN
Project Location: LEA COUNTY, NM

Sampling Date: 12/12/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: EH - 2 @ 6" (H803639-09)

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	12/13/2018	ND	2.41	120	2.00	1.84	
Toluene*	<0.050	0.050	12/13/2018	ND	2.35	117	2.00	0.417	
Ethylbenzene*	<0.050	0.050	12/13/2018	ND	2.29	114	2.00	1.52	
Total Xylenes*	<0.150	0.150	12/13/2018	ND	6.93	116	6.00	1.77	
Total BTEx	<0.300	0.300	12/13/2018	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	32.0	16.0	12/13/2018	ND	400	100	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	12/12/2018	ND	186	93.2	200	0.167	
DRO >C10-C28*	<10.0	10.0	12/12/2018	ND	198	99.0	200	2.34	
EXT DRO >C28-C36	<10.0	10.0	12/12/2018	ND					

Surrogate: 1-Chlorooctane 88.1 % 41-142

Surrogate: 1-Chlorooctadecane 89.9 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 12/12/2018
Reported: 12/13/2018
Project Name: 2B PIPELINE
Project Number: NONE GIVEN
Project Location: LEA COUNTY, NM

Sampling Date: 12/12/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: EH - 2 @ 2' (H803639-10)

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	12/13/2018	ND	2.41	120	2.00	1.84	
Toluene*	<0.050	0.050	12/13/2018	ND	2.35	117	2.00	0.417	
Ethylbenzene*	<0.050	0.050	12/13/2018	ND	2.29	114	2.00	1.52	
Total Xylenes*	<0.150	0.150	12/13/2018	ND	6.93	116	6.00	1.77	
Total BTEx	<0.300	0.300	12/13/2018	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/13/2018	ND	400	100	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	12/12/2018	ND	186	93.2	200	0.167	
DRO >C10-C28*	<10.0	10.0	12/12/2018	ND	198	99.0	200	2.34	
EXT DRO >C28-C36	<10.0	10.0	12/12/2018	ND					

Surrogate: 1-Chlorooctane 86.8 % 41-142

Surrogate: 1-Chlorooctadecane 87.5 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 12/12/2018
Reported: 12/13/2018
Project Name: 2B PIPELINE
Project Number: NONE GIVEN
Project Location: LEA COUNTY, NM

Sampling Date: 12/12/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: V 1B @ 4' R (H803639-11)

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	12/13/2018	ND	2.41	120	2.00	1.84	
Toluene*	<0.050	0.050	12/13/2018	ND	2.35	117	2.00	0.417	
Ethylbenzene*	0.075	0.050	12/13/2018	ND	2.29	114	2.00	1.52	
Total Xylenes*	0.289	0.150	12/13/2018	ND	6.93	116	6.00	1.77	
Total BTEX	0.364	0.300	12/13/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	12/13/2018	ND	400	100	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*	12.4	10.0	12/12/2018	ND	186	93.2	200	0.167	
DRO >C10-C28*	204	10.0	12/12/2018	ND	198	99.0	200	2.34	
EXT DRO >C28-C36	15.8	10.0	12/12/2018	ND					

Surrogate: 1-Chlorooctane 87.7 % 41-142

Surrogate: 1-Chlorooctadecane 94.0 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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

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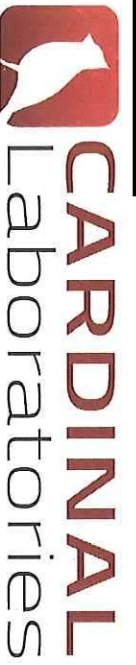
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Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

† 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

2042

Company Name: <u>ETC Texas Pipeline</u>		P.O. #:		BILL TO												ANALYSIS REQUEST																													
Project Manager: <u>Soel Lowry</u>		Company: <u>ETC Texas Pipeline</u>																																											
Address: <u>600 N. Marland</u>		Attn: <u>Dan Garrison</u>																																											
City: <u>Midland</u>		Address:																																											
Phone #: <u>432-466-4450</u>		City:																																											
Fax #: _____		State:																																											
Project #: _____		Zip:																																											
Project Name: <u>28 Pipeline</u>		Phone #:																																											
Project Location: <u>See to, Wm</u>		Fax #:																																											
Sampler Name: <u>Soel Lowry</u>																																													
FOR LAB USE ONLY																																													
Lab I.D. <u>H803639</u>		(G)RAB OR (C)OMP.		MATRIX		PRESERV		SAMPLING																																					
Sample I.D. <u>V16241-R</u>		# CONTAINERS <u>61</u>		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :																									
11																																													

ATTACHMENT #7
Photographic Log

PHOTOGRAPHIC LOG



Figure 1 View of surface staining from the initial release, facing Southwest.



Figure 2 View of sample location, facing North.

PHOTOGRAPHIC LOG



Figure 3 View of surface staining from the initial release, facing Southwest.



Figure 4 View of surface staining from the initial release, facing Southwest.

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	NCH1831954977
District RP	1RP-5265
Facility ID	fCH1831949029
Application ID	pCH1831956246

Release Notification

Responsible Party

Responsible Party: ETC Texas Pipeline, Ltd.	OGRID: 371183
Contact Name: Carolyn J. Blackaller	Contact Telephone: (817) 302-9766
Contact email: carolyn.blackaller@energytransfer.com	Incident # NCH1831954977 ETC 2B PIPELINE @ FCH1831949029
Contact mailing address: 600 N. Marienfeld Street, Suite 700, Midland, TX 79701	

Location of Release Source

Latitude 32.16947 Longitude -103.20493
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: 2B	Site Type: Pipeline
Date Release Discovered: 10/26/2018	API# (if applicable): N/A

Unit Letter	Section	Township	Range	County
N	31	T24S	R37E	Lea

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (Name: Jal Public Library Fund)

Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls): 27.54 bbls	Volume Recovered (bbls): 0 bbls
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<input checked="" type="checkbox"/> Condensate	Volume Released (bbls): 3.06 bbls	Volume Recovered (bbls): 0 bbls
<input checked="" type="checkbox"/> Natural Gas	Volume Released (Mcf): 187.597 Mcf	Volume Recovered (Mcf): 0 Mcf
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: On October 26, 2018, it was discovered that a crack in the poly line on a segment of the 2B 4-inch Pipeline in Lea County, NM was causing a leak of field gas, water, and condensate. A crew was dispatched to begin repairs to this segment. The poly was flanged back together and the leak of fluids and gas stopped. Given the amount of time it took to repair the leak, the leak hole size, and pipe pressure, it was calculated that approximately 187.597 Mcf of gas was released. Please find these calculations appended to this form. A survey of the water and condensate release showed that approximately 3.06 barrels of condensate and 27.54 barrels of water were released. Please find appended to this form photos from the release site.

State of New Mexico
Oil Conservation Division

Incident ID	NCH1831954977
District RP	1RP-5265
Facility ID	fCH1831949029
Application ID	pCH1831956246

Was this a major release as defined by 19.15.29.7(A) NMAC?

☒ Yes ☐ No

If YES, for what reason(s) does the responsible party consider this a major release?

19.15.29.7(A)(1) classifies a major release as an unauthorized release of a volume of 25 barrels or more. The total volume of liquids released was approximately 30.6 barrels. The gas released is classified as a minor release.

If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?

Immediate notice was not given due to excessive rainfall at the release site, which hindered the determination of approximately how much liquid was released.

Initial Response

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

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

If all the actions described above have not been undertaken, explain why:

Not applicable.

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: Carolyn J. Blackaller Title: Sr. Environmental Specialist

Signature:  Date: 11/08/2018

email: carolyn.blackaller@energytransfer.com Telephone: (817) 302-9766

OCD Only

RECEIVED

Received by By CHernandez at 3:36 pm, Nov 15, 2018:

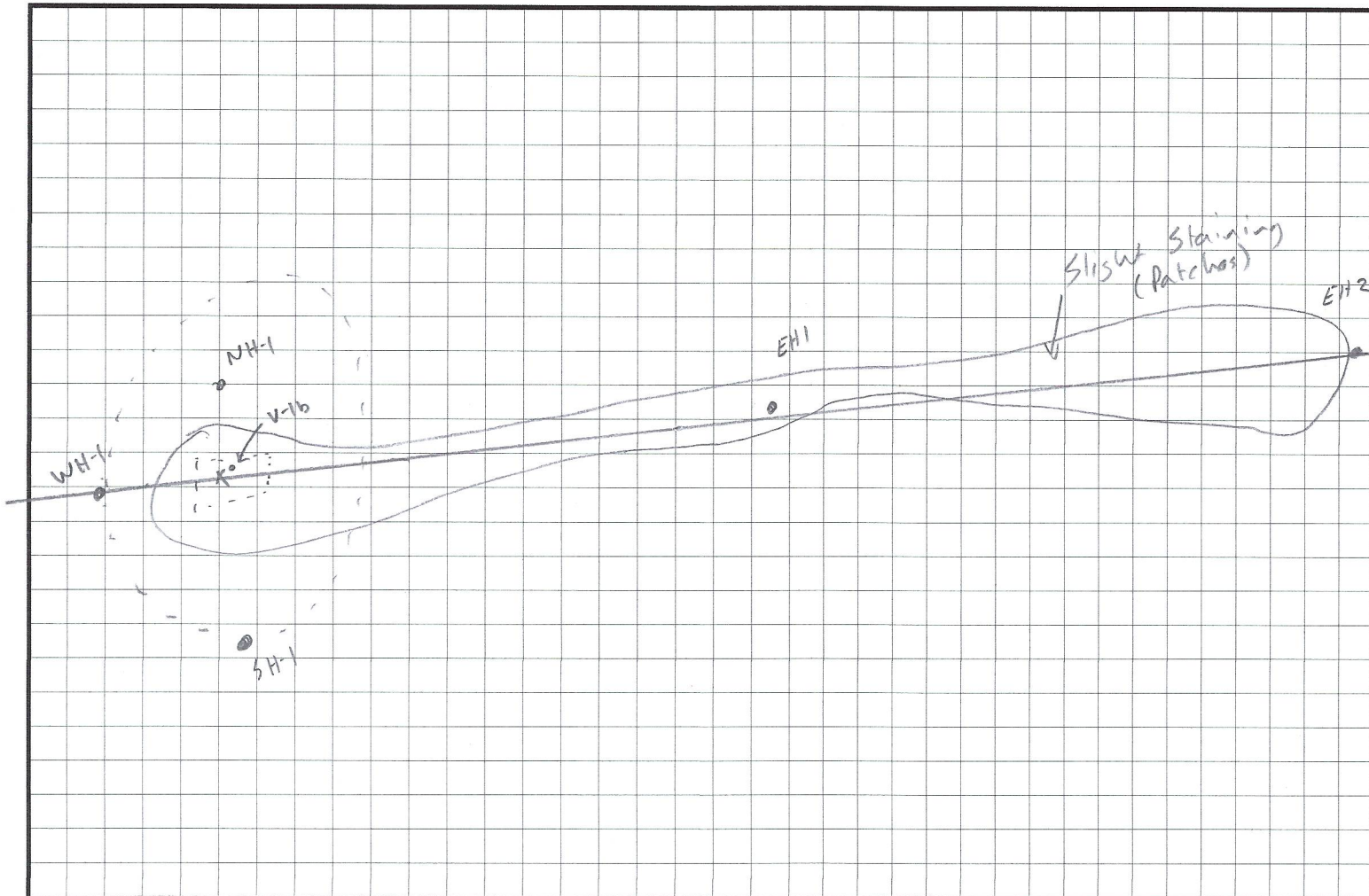
ATTACHMENT #9

Field Data

FIELD NOTES

Site Name: _____

Date: _____



Impacts appear to be limit to surface in overspray area : Flow path
 Historical impacts from crude release (unrelated) present.
 Hit Rock @ 4' bgs @ release point.

Field ID	Odor/PID	Chloride
V-1 @ 4'	Light	<120

Field ID	Odor/PID	Chloride
NH-1 @ 6"	None	—
NH-1 @ 2'	None	—

Field ID	Odor/PID	Chloride
WH-1 @ 6"	None	—
WH-1 @ 2'	None	—

Field ID	Odor/PID	Chloride
SH-1 @ 6"	None	—
SH-1 @ 2'	None	—

Field ID	Odor/PID	Chloride
EH-1 @ 6"	None	—
EH-1 @ 2'	Light	—
EH-2 @ 6"	None	—
EH-2 @ 2"	None	—

Field ID	Odor/PID	Chloride