Incident ID	NAB1834730382
District RP	2RP-5103
Facility ID	fAB1834729696
Application ID	pAB1834729291

February 21, 2019

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

Re: **Site Assessment Report and Proposed Remediation Plan**
Site Name: Cal B Pipeline
GPS: Latitude: 32.0647 Longitude: -103.7254
Legals: UL "A", Sec. 12, T26S, R31E
Eddy County, New Mexico
NMOCD Ref. No. 2RP-5103

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 Cal B Pipeline. Details of the release are summarized on the table below:

Nature and Volume of Release			
Date Release Discovered	11/22/2018	**Source of Release**	Pipeline
Type of Release	Natural Gas & Produced Water	**Volume Released**	25.3 bbls (Produced Water) 25.563 MscF (Natural Gas)
		Volume Recovered	None
Cause of Release The release flowed south across an oilfield access road, an ETC natural gas pipeline, two Kinder Morgan High-Pressure Pipelines affecting an area measuring approximately 6,500 sq. ft.			
Affected Area The release flowed south across an oilfield access road, an ETC natural gas pipeline, two Kinder Morgan High-Pressure Pipelines affecting an area measuring approximately 6,500 sq. ft.			
Was this a major release? Yes		**If YES, for what reasons (s) is this considered a major release?** 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? Dean Ericson, Mike Bratcher, 11/22/2018 @ 15:31 MST, Phone/Email			

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?	>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 (C 02090) within 1,000 ft. of the site. A field survey indicated available geographic information for C 02090 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	**20000 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 **December 4, 2018,** an initial site assessment was conducted. During the initial site assessment, eight (8) soil samples (V-1 4', V-1 8', V-2 6", V-2 18", V-3 6", V-3 1', V-4 6" and V-4 1') were collected and submitted to an NMOCD-approved 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 with the exception of soil samples V-1 4' which exhibited a TPH concentration of 4,553 mg/kg, V-2 6" which exhibited a TPH concentration of 19,900, V-3 6" which exhibited a TPH concentration of 13,610 mg/kg and V-4 1' which exhibited a combined GRO and DRO concentration of 1,151.4 mg/kg. Laboratory analytical indicated soil was not affected above the NMOCD Closure Criteria beyond 8 ft. bgs in the area characterized by sample point V-1, 1.5 ft. bgs in the area characterized by sample point V-2, and 1 ft. bgs in the area characterized by sample point V-3. Collection of additional samples in the area characterized by sample point V-4 was precluded due to the presence of an impenetrable rock layer.

In addition, twenty (20) soil samples (WH-1 6", WH-1 18", WH-2 6", WH-2 18", NH-1 6", NH-1 18", NH-2 6", NH-2 18", NH-3 2', NH-3 4', EH-1 6", EH-1 18", EH-2 6", EH-2 18", SH-1 6", SH-1 18", SH-2 6", SH-2 18", SH-2 6" and SH-2 18") were collected from the inferred edges of the impacted area in an effort to determine the horizontal extent of soil impacted above the NMOCD Closure Criteria. 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.

On **January 16, 2019,** LEA revisited the Site. A hand-auger was utilized to collect two (2) additional soil samples (NH-2B @ 6" and SH-3B @ 6") from the inferred edges of the impacted area. In addition, a masonry drill was utilized to collect seven (7) soil samples (V-2A @ 24", V-3A @ 18", V-4A @ 18", NH-2A @ 24", NH-2B @ 18", SH-3A @ 24" and SH3B @ 18") from the areas characterized by samples points V2, V-3, V-4, NH-2, NH-2B and SH-3A. Laboratory analytical results indicated TPH concentrations were below the NMOCD Closure Criteria in each of the submitted soil samples. Soil sample V-2A @ 24" exhibited a TPH concentration of 425.8 mg/kg, which exceeds the BLM Reclamation Requirement. Collection of additional soil samples from deeper intervals in the area characterized by soil sample V-2A @ 24" was precluded due to the resilience of the rock and limitations masonry drill.

A masonry drill was utilized to collect soil samples in an effort to fully characterized an "unstable" Site and to meet the BLM Reclamation Standards. Repeated efforts with heavy equipment and masonry drills to penetrate deeper intervals suggests the Site is stable.

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

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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.					E300/4500Cl
				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)
V-1 4'	12/4/18	4'	In-Situ	0.387	48.7	797	3,280	**4,077**	476	**4,553**	80.0
V-1 8'	12/4/18	8'	In-Situ	<0.050	<0.300	<10.0	44.2	44.2	12.8	57.0	144
V-2 6"	12/4/18	6"	In-Situ	7.54	**278**	4,910	13,200	**18,110**	1,790	**19,900**	80.0
V-2 18"	12/4/18	18"	In-Situ	<0.050	<0.300	<10.0	147	147	56.7	204	80.0
V-2A @ 24"	1/16/19	24"	In-Situ	-	-	<10.0	374	375	50.8	425.8	-
V-3 6"	12/4/18	6"	In-Situ	4.35	**235**	3,470	9,010	**12,480**	1,130	**13,610**	48.0
V-3 1'	12/4/18	1'	In-Situ	<0.050	1.00	15.2	577	592	129	721	48.0
V-3A @ 18"	1/16/19	18"	In-Situ	-	-	<10.0	18.7	18.7	10.0	28.7	-
V-4 6"	12/4/18	6"	In-Situ	<0.050	<0.300	<10.0	53.9	53.9	14.9	68.8	64.0
V-4 1'	12/4/18	1'	In-Situ	<0.050	0.986	51.4	1,100	**1,151.4**	230	1,381.4	32.0
V-4A @ 18"	1/16/19	18"	In-Situ	-	-	<10.0	74.8	74.8	11.2	86.0	-
WH-1 6"	12/4/18	6"	In-Situ	<0.050	<0.300	<10.0	27.6	27.6	12.6	40.2	32.0
WH-1 18"	12/4/18	18"	In-Situ	<0.050	<0.300	<10.0	12.7	12.7	<10.0	12.7	48.0
WH-2 6"	12/4/18	6"	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
WH-2 18"	12/4/18	18"	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
NH-1 6"	12/4/18	6"	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
NH-1 18"	12/4/18	18"	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
NH-2 6"	12/4/18	6"	In-Situ	<0.050	<0.300	<10.0	49.0	49.0	<10.0	49.0	48.0
NH-2 18"	12/4/18	18"	In-Situ	<0.050	<0.300	<10.0	199	199	16.9	215.9	32.0
NH-2A @ 24"	1/16/19	24"	In-Situ	-	-	<10.0	<10.0	<10.0	<10.0	<10.0	-
NH-2B @ 6"	1/16/19	6"	In-Situ	-	-	<10.0	<10.0	<10.0	<10.0	<10.0	-
NH2B @ 18"	1/16/19	18"	In-Situ	-	-	<10.0	<10.0	<10.0	<10.0	<10.0	-
NH-3 2'	12/4/18	2'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
NH-3 4'	12/4/18	4'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
EH-1 6"	12/4/18	6"	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
EH-1 18"	12/4/18	18"	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
EH-2 6"	12/4/18	6"	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
EH-2 18"	12/4/18	18"	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
SH-1 6"	12/4/18	6"	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SH-1 18"	12/4/18	18"	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SH-2 6"	12/4/18	6"	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SH-3 6"	12/4/18	6"	In-Situ	<0.050	<0.300	<10.0	332	332	40.7	373	192
SH-3 18"	12/4/18	18"	In-Situ	<0.050	<0.300	<10.0	101	101	13.6	115	208
SH-2 18"	12/4/18	18"	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SH-3A @ 24"	1/16/19	24"	In-Situ	-	-	<10.0	<10.0	<10.0	<10.0	<10.0	-
SH-3B @ 6"	1/16/19	6"	In-Situ	-	-	<10.0	<10.0	<10.0	<10.0	<10.0	-
SH-3B @ 18"	1/16/19	18"	In-Situ	-	-	<10.0	<10.0	<10.0	<10.0	<10.0	-
Closure Criteria				**10**	**50**	**-**	**-**	**1,000**	**-**	**2,500**	**20,000**

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 adjacent to the release point in the area characterized by sample point V-1 beyond 4 ft. bgs, until laboratory analytical results from confirmation soil samples indicate BTEX, TPH and chloride concentrations are below the NMOCD Closure Criteria.
•Impacted soil in the areas characterized by sample points V-2, V-3, V-4, SH-2 and NH-2 will be excavated until laboratory analytical results from confirmation soil samples indicate BTEX, TPH and chloride concentrations are below the NMOCD Closure Criteria or the resilient rock layer is met, whichever comes first.
•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 and BLM Reclamation Standard.
• Excavated soil will be temporarily stockpiled on-site, atop on impermeable liner, pending transportation under manifest to an NMOCD-approved disposal facility.
• Upon advancing the floor of the excavation to the resilient 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**. Based on the size of the anticipated excavation (~6,500 sq. ft.), ETC requests 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**. In the event portions of the excavation are not able to be advanced past the resilient rock layer, soil samples will still be collected to characterize impacts to the rock layer.

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 **400 cubic yards** of soil has been affected above the NMOCD Closure Criteria.

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VARIANCE REQUEST

Dependent on the source, the affected area may be considered "high karst". Based on field observations including the resiliency of the rock layer and absences of voids or vugs ETC maintains that the area is stable.

ETCs maintains attempting to excavate portions of the release site beyond the resilient rock layer adjacent to, beneath and/or in between the buried pipelines and the disposal of the associated soil poses a risk to human health that exceeds the benefits of the excavation and disposal of impacted soil affected above the NMOCD Closure Criteria and/or BLM Reclamation Standard. This assertion is based primarily on the inherent dangers of continued and/or substantial excavation adjacent to oil and gas infrastructure, particularly where there are continuous resilient rock layers, and the risks associated with transporting the associated soil on public highways to a disposal facility. The assertion is further substantiated by the understanding that additional remediation activities, beyond that which has been proposed, will result in increasing the duration of exposure among environmental field personnel and/or exposure of additional environmental field personnel. Based on the aforementioned; the Site's distance from populated areas and/or drinking water supplies; a proposed cover consisting of approximately 1.5 ft. of non-impacted soil, further reducing the potential for future exposure; and the relative unlikelihood of future exposure resulting in diminished public health, ETC maintains the proposed variance will provide equal or better protection of public health.

Laboratory analytical results indicate chloride concentrations were less than the NMOCD Closure Criteria in each of the analyzed soil samples. Based on field observations and analytical results from delineation soil samples, it is inferred that impacted soil exhibiting BTEX concentrations above the NMOCD Closure Criteria will be excavated and that the maximum TPH concentration ETC proposes to leave in-situ is 1,381.4 mg/kg (V-4 1') at 1 ft. bgs. Laboratory analytical results indicate the resilient rock is no longer affected above NMOCD Closure Criteria and/or the BLM Reclamation Standard beyond 1.5 ft. bgs in the area represented by sample point V-4. Based on the aforementioned, the inferred depth to groundwater at the site and given 19.15.29 NMAC allows for impacted soil exhibiting TPH concentrations ranging from 100 mg/kg to 2,500 mg/kg to remain in-situ at depths greater than four (4) ft. bgs, where the distance between impacted soil and groundwater is not defined, ETC maintains the proposed variance will provide equal or better protection of fresh water and the environment.

ETC maintains attempting to excavate resilient portions of the rock layer poses a risk to human health and the environmental that exceeds the benefits the removal of the additional material. This is based primarily on the releases proximity to five (5) active buried pipelines laid within an area characterized by unusually resilient rock. While karst may be present in the area, shallow impacts from the surface release are limited to a zone which could be described as stable. Utilizing "hammer-hoe" or similar mechanical equipment to penetrate the "hard pan" would disrupt the natural hydrology.

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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.

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:

- Site Location

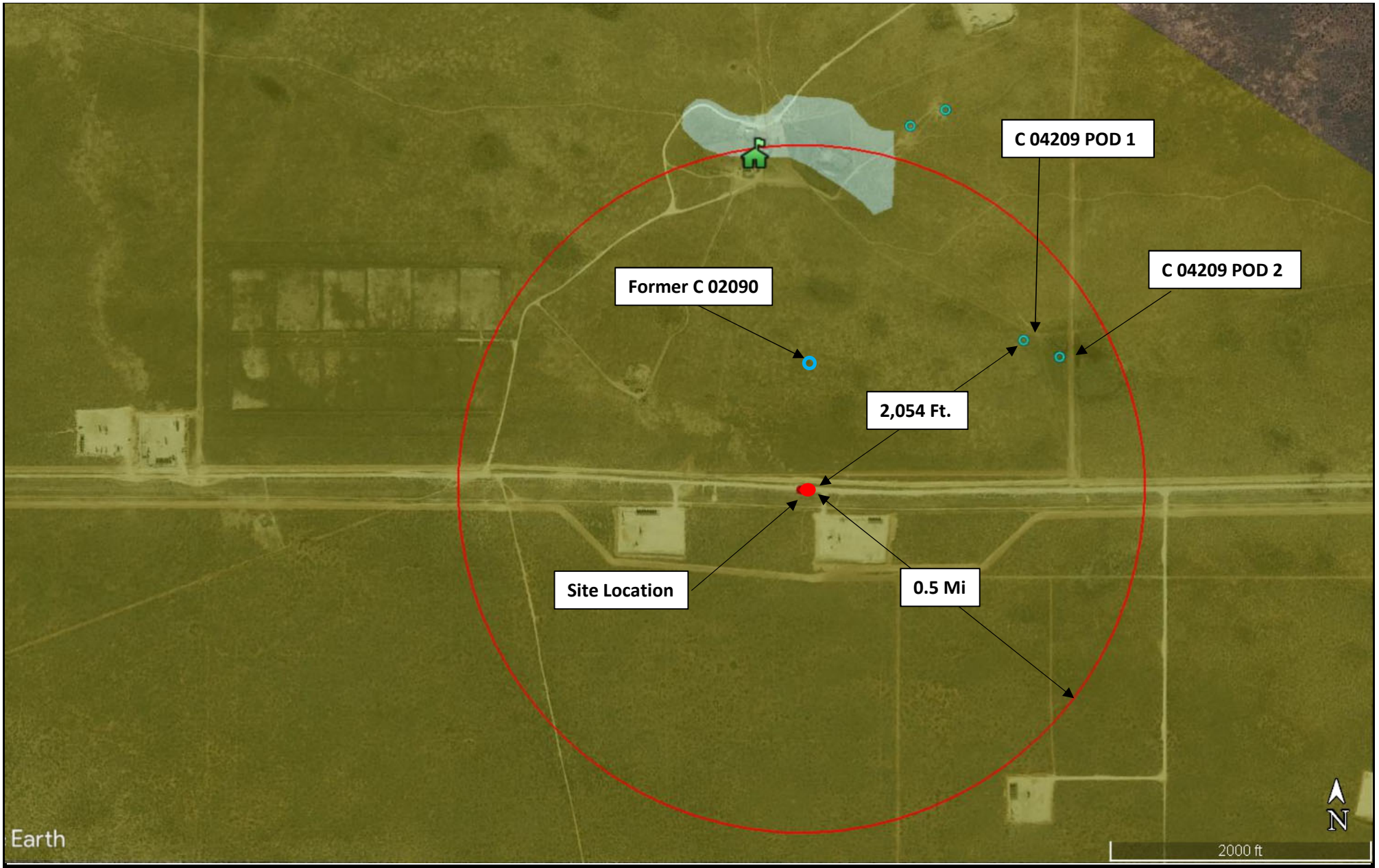
Figure 1
Topographic Map
ETC Texas Pipeline, Ltd.
Cal B Pipeline
GPS: 32.0647, -103.7254
Eddy County, New Mexico

LOWRY environmental

Drafted by: jwl Checked by: client Date: 2/21/2019

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.

Cal B Pipeline

GPS: 32.0647, -103.7254

Eddy County, New Mexico

LOWRY environmental

Drafted by: jwl Checked by: client Date: 2/21/2019

ATTACHMENT #3

Figure 3 - Site & Sample Location Map

LEGEND:

- Sample Point
- Affected Area
- Test Trench
- Buried Pipeline

Figure 3

Site & Sample Location Map

ETC Texas Pipeline, Ltd.

Cal B Pipeline

GPS: 32.0647, -103.7254

Eddy County, New Mexico

LOWRY environmental

Drafted by: jwl Checked by: client Date: 2/21/2019

ATTACHMENT #4

Depth to Groundwater Information

New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters) (In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Twn	Rng	X	Y		Distance	Depth Well	Depth Water	Water Column
C 02090		C	ED		4	4	01	26S	31E	620329	3548533*		229	350	335	15
C 04209 POD2		C	LE	2	3	3	06	26S	32E	620818	3548657		624	340	155	185
C 04209 POD1		CUB	LE	2	3	3	06	26S	32E	620903	3548619		678	360	155	205
C 03554 POD1		CUB	ED	2	1	4	01	26S	31E	620547	3549148		878	630	300	330
C 03829 POD1		CUB	LE	3	3	1	06	26S	32E	620628	3549186		939	646	350	296
C 04256 POD1		C	ED	4	4	2	01	26S	31E	620384	3549257		955	666	340	326
C 03639 POD1		CUB	ED	3	4	2	01	26S	31E	620168	3549279		983	700	365	335

Average Depth to Water: **285 feet**

Minimum Depth: **155 feet**

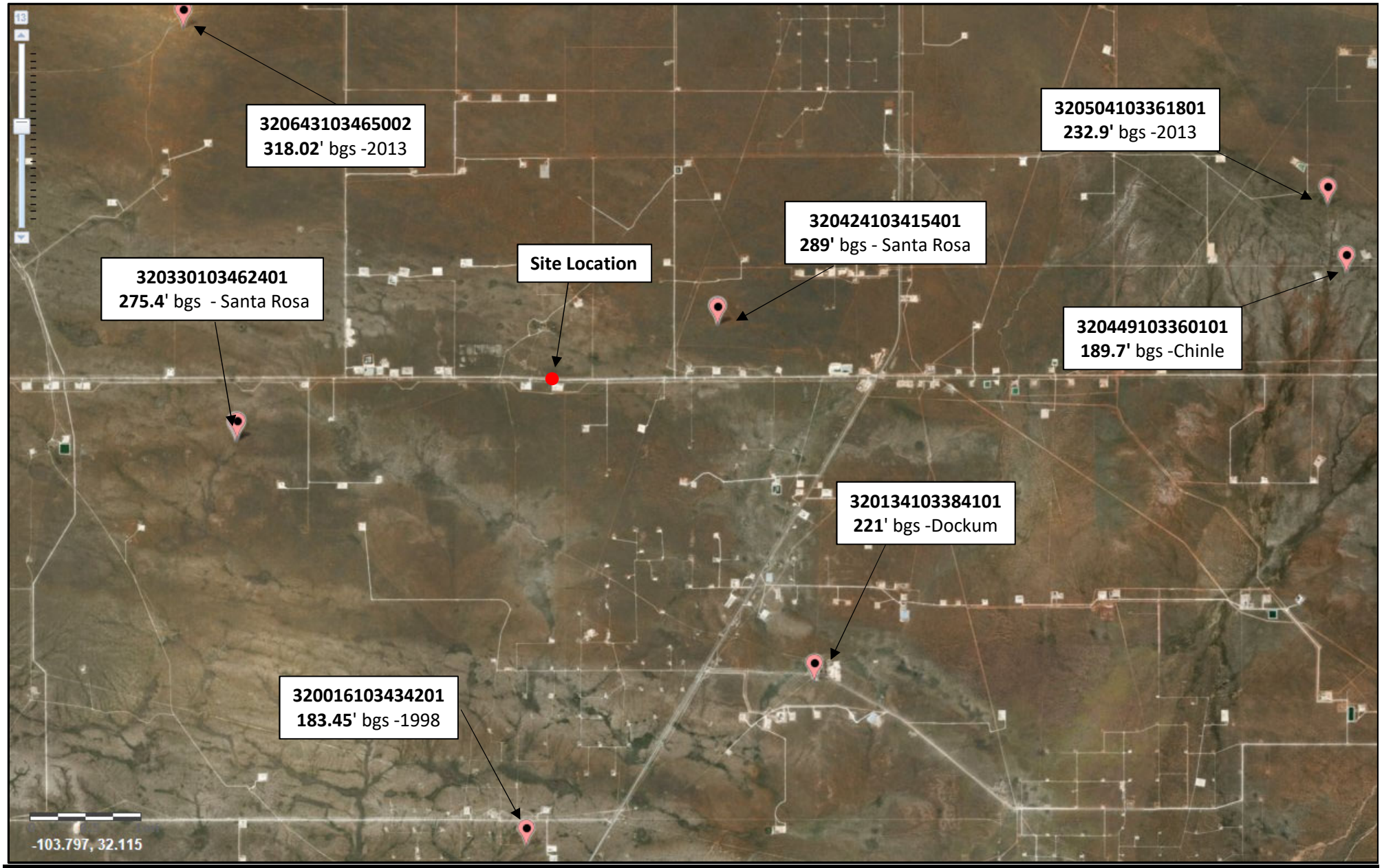
Maximum Depth: **365 feet**

Record Count: 7

UTMNAD83 Radius Search (in meters):

Easting (X): 620302 **Northing (Y):** 3548305.1 **Radius:** 1610

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



LEGEND:

- Site Location

Figure 5

USGS Well Proximity Map

ETC Texas Pipeline, Ltd.

Cal B Pipeline

GPS: 32.0647, -103.7254

Eddy County, New Mexico

LOWRY environmental

Drafted by: jwl Checked by: client Date: 2/21/2019

National Water Information System: Web Interface

Click to hideNews Bulletins

- Please see news on new formats
- Full News

Groundwater levels for the Nation

Search Results -- 1 sites found

site_no list =

- 320016103434201

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

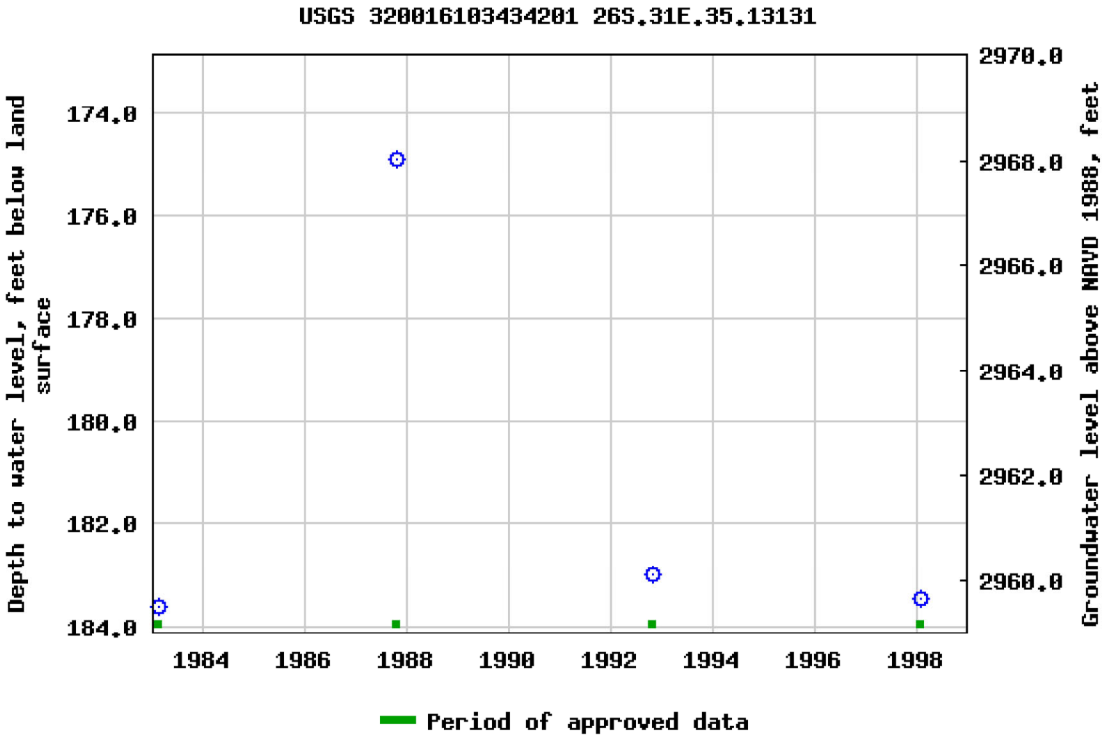
USGS 320016103434201 26S.31E.35.13131

Available data for this site Groundwater: Field measurements | GO

Eddy County, New Mexico
Hydrologic Unit Code --
Latitude 32°00'16", Longitude 103°43'42" NAD27
Land-surface elevation 3,143 feet above NAVD88
This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

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



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

Questions about sites/data?
Feedback on this web site
Automated retrievals
Help
Data Tips
Explanation of terms
Subscribe for system changes
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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: 2018-12-13 17:20:43 EST
0.99 0.86 nadww01

National Water Information System: Web Interface

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- Full News

Groundwater levels for the Nation

Search Results -- 1 sites found

site_no list =

- 320629103533002

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

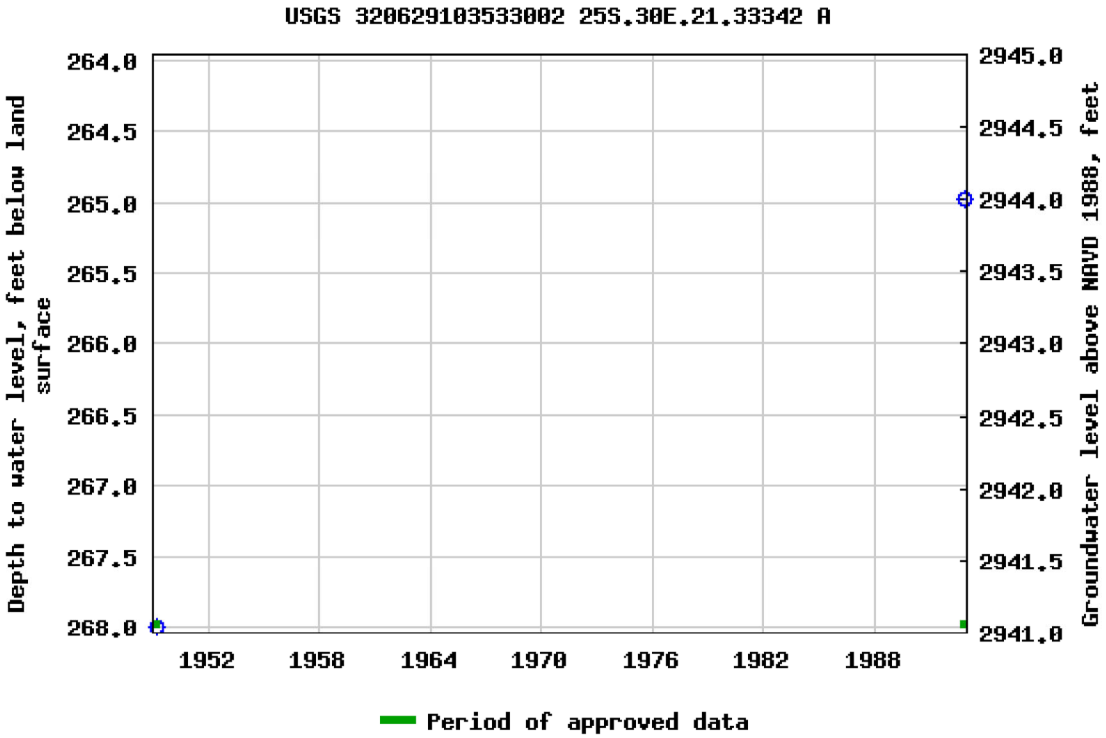
USGS 320629103533002 25S.30E.21.33342 A

Available data for this site Groundwater: Field measurements | GO

Eddy County, New Mexico
Hydrologic Unit Code --
Latitude 32°06'29", Longitude 103°53'30" NAD27
Land-surface elevation 3,209 feet above NAVD88
The depth of the well is 280 feet below land surface.
This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

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



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

Questions about sites/data?
Feedback on this web site
Automated retrievals
Help
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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: 2018-12-13 17:22:17 EST
1.12 0.9 nadww01

National Water Information System: Web Interface

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Groundwater levels for the Nation

Search Results -- 1 sites found

site_no list =

- 320643103465002

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

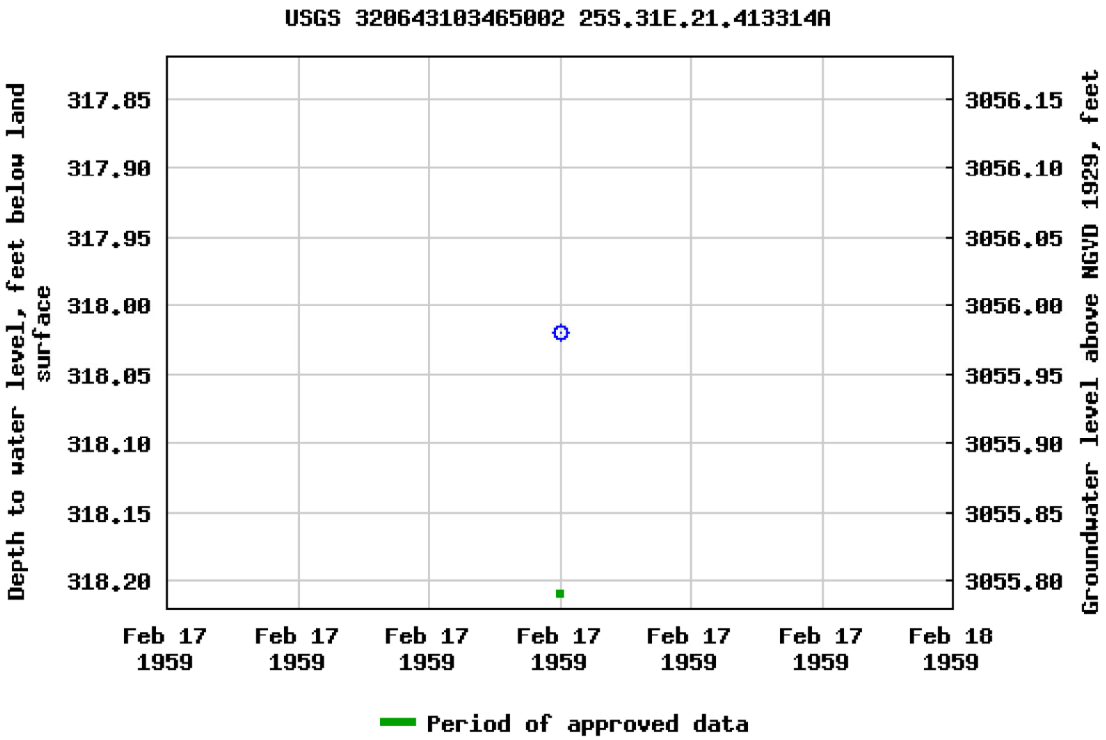
USGS 320643103465002 25S.31E.21.413314A

Available data for this site Groundwater: Field measurements | GO

Eddy County, New Mexico
Hydrologic Unit Code 13070001
Latitude 32°06'46.0", Longitude 103°46'56.3" NAD83
Land-surface elevation 3,374.00 feet above NGVD29
The depth of the well is 400 feet below land surface.
This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

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



Breaks in the plot represent a gap of at least one year between field measurements.
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Questions about sites/data?
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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: 2018-12-13 17:23:06 EST
1.04 0.9 nadww01

ATTACHMENT #5
Soil Profile

SOIL PROFILE

Site Name: Cal B

Date: 12/4/18

Description		Depth (ft. bgs)
Red Sand		1
v. Hard Rock / Calcrete		2
	TD	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
		1
		2
		3
		4
		5
		6
		7
		8
		9
		0

ATTACHMENT #6

Laboratory Analytical Reports

CARDINAL Laboratories

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

December 11, 2018

DEAN ERICSON

ENERGY TRANSFER

P. O. BOX 1226

JAL, NM 88252

RE: CAL - B

Enclosed are the results of analyses for samples received by the laboratory on 12/05/18 16:10.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	12/05/2018	Sampling Date:	12/04/2018
Reported:	12/11/2018	Sampling Type:	Soil
Project Name:	CAL - B	Sampling Condition:	Cool & Intact
Project Number:	32.064329/-103.725630	Sample Received By:	Celey D. Keene
Project Location:	NONE GIVEN		

Sample ID: V-1 4' (H803584-01)

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	**0.387**	0.050	12/06/2018	ND	2.15	108	2.00	9.81	
Toluene*	**11.4**	0.050	12/06/2018	ND	2.07	103	2.00	10.6	
Ethylbenzene*	**5.83**	0.050	12/06/2018	ND	1.93	96.7	2.00	8.87	
Total Xylenes*	**31.1**	0.150	12/06/2018	ND	6.18	103	6.00	9.06	
Total BTEX	**48.7**	0.300	12/06/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID	*176 %*	*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	12/11/2018	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**797**	10.0	12/07/2018	ND	198	99.0	200	6.17	
DRO >C10-C28*	**3280**	10.0	12/07/2018	ND	208	104	200	4.29	
EXT DRO >C28-C36	**476**	10.0	12/07/2018	ND					

Surrogate: 1-Chlorooctane	*115 %*	*41-142*
Surrogate: 1-Chlorooctadecane	*170 %*	*37.6-147*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	12/05/2018	Sampling Date:	12/04/2018
Reported:	12/11/2018	Sampling Type:	Soil
Project Name:	CAL - B	Sampling Condition:	Cool & Intact
Project Number:	32.064329/-103.725630	Sample Received By:	Celey D. Keene
Project Location:	NONE GIVEN		

Sample ID: V-1 8' (H803584-02)

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	12/07/2018	ND	2.06	103	2.00	0.119	
Toluene*	<0.050	0.050	12/07/2018	ND	2.04	102	2.00	0.275	
Ethylbenzene*	<0.050	0.050	12/07/2018	ND	1.95	97.4	2.00	0.408	
Total Xylenes*	<0.150	0.150	12/07/2018	ND	6.20	103	6.00	0.259	
Total BTEX	<0.300	0.300	12/07/2018	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	**144**	16.0	12/11/2018	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/07/2018	ND	198	99.0	200	6.17	
DRO >C10-C28*	**44.2**	10.0	12/07/2018	ND	208	104	200	4.29	
EXT DRO >C28-C36	**12.8**	10.0	12/07/2018	ND					

Surrogate: 1-Chlorooctane *93.4 %* *41-142*

Surrogate: 1-Chlorooctadecane *107 %* *37.6-147*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	12/05/2018	Sampling Date:	12/04/2018
Reported:	12/11/2018	Sampling Type:	Soil
Project Name:	CAL - B	Sampling Condition:	Cool & Intact
Project Number:	32.064329/-103.725630	Sample Received By:	Celey D. Keene
Project Location:	NONE GIVEN		

Sample ID: V-2 6'' (H803584-05)

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	**7.54**	0.500	12/07/2018	ND	2.06	103	2.00	0.119	
Toluene*	**86.6**	0.500	12/07/2018	ND	2.04	102	2.00	0.275	
Ethylbenzene*	**28.6**	0.500	12/07/2018	ND	1.95	97.4	2.00	0.408	
Total Xylenes*	**156**	1.50	12/07/2018	ND	6.20	103	6.00	0.259	
Total BTEX	**278**	3.00	12/07/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID	*133 %*	*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	12/11/2018	ND	400	100	400	3.92	

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*	**4910**	100	12/07/2018	ND	198	99.0	200	6.17	
DRO >C10-C28*	**13200**	100	12/07/2018	ND	208	104	200	4.29	
EXT DRO >C28-C36	**1790**	100	12/07/2018	ND					

Surrogate: 1-Chlorooctane	*185 %*	*41-142*
Surrogate: 1-Chlorooctadecane	*467 %*	*37.6-147*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	12/05/2018	Sampling Date:	12/04/2018
Reported:	12/11/2018	Sampling Type:	Soil
Project Name:	CAL - B	Sampling Condition:	Cool & Intact
Project Number:	32.064329/-103.725630	Sample Received By:	Celey D. Keene
Project Location:	NONE GIVEN		

Sample ID: V-2 18" (H803584-06)

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	12/07/2018	ND	2.06	103	2.00	0.119	
Toluene*	<0.050	0.050	12/07/2018	ND	2.04	102	2.00	0.275	
Ethylbenzene*	<0.050	0.050	12/07/2018	ND	1.95	97.4	2.00	0.408	
Total Xylenes*	<0.150	0.150	12/07/2018	ND	6.20	103	6.00	0.259	
Total BTEX	<0.300	0.300	12/07/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID *103 %* *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	12/11/2018	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/07/2018	ND	198	99.0	200	6.17	
DRO >C10-C28*	**147**	10.0	12/07/2018	ND	208	104	200	4.29	
EXT DRO >C28-C36	**56.7**	10.0	12/07/2018	ND					

Surrogate: 1-Chlorooctane *102 %* *41-142*

Surrogate: 1-Chlorooctadecane *121 %* *37.6-147*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

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

Received:	12/05/2018	Sampling Date:	12/04/2018
Reported:	12/11/2018	Sampling Type:	Soil
Project Name:	CAL - B	Sampling Condition:	Cool & Intact
Project Number:	32.064329/-103.725630	Sample Received By:	Celey D. Keene
Project Location:	NONE GIVEN		

Sample ID: V-3 6'' (H803584-07)

BTEX 8021B mg/kg **Analyzed By: ms**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	**4.35**	0.500	12/07/2018	ND	2.06	103	2.00	0.119	
Toluene*	**69.3**	0.500	12/07/2018	ND	2.04	102	2.00	0.275	
Ethylbenzene*	**24.8**	0.500	12/07/2018	ND	1.95	97.4	2.00	0.408	
Total Xylenes*	**137**	1.50	12/07/2018	ND	6.20	103	6.00	0.259	
Total BTEX	**235**	3.00	12/07/2018	ND					

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

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	12/11/2018	ND	400	100	400	3.92	

TPH 8015M mg/kg **Analyzed By: MS** **S-04**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**3470**	10.0	12/07/2018	ND	198	99.0	200	6.17	
DRO >C10-C28*	**9010**	10.0	12/07/2018	ND	208	104	200	4.29	
EXT DRO >C28-C36	**1130**	10.0	12/07/2018	ND					

Surrogate: 1-Chlorooctane *155 %* *41-142*

Surrogate: 1-Chlorooctadecane *338 %* *37.6-147*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	12/05/2018	Sampling Date:	12/04/2018
Reported:	12/11/2018	Sampling Type:	Soil
Project Name:	CAL - B	Sampling Condition:	Cool & Intact
Project Number:	32.064329/-103.725630	Sample Received By:	Celey D. Keene
Project Location:	NONE GIVEN		

Sample ID: V-3 1' (H803584-08)

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	12/07/2018	ND	2.06	103	2.00	0.119	
Toluene*	**0.179**	0.050	12/07/2018	ND	2.04	102	2.00	0.275	
Ethylbenzene*	**0.134**	0.050	12/07/2018	ND	1.95	97.4	2.00	0.408	
Total Xylenes*	**0.689**	0.150	12/07/2018	ND	6.20	103	6.00	0.259	
Total BTEX	**1.00**	0.300	12/07/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID *111 %* *73.3-129*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	12/11/2018	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**15.2**	10.0	12/07/2018	ND	198	99.0	200	6.17	
DRO >C10-C28*	**577**	10.0	12/07/2018	ND	208	104	200	4.29	
EXT DRO >C28-C36	**129**	10.0	12/07/2018	ND					

Surrogate: 1-Chlorooctane *104 %* *41-142*

Surrogate: 1-Chlorooctadecane *135 %* *37.6-147*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	12/05/2018	Sampling Date:	12/04/2018
Reported:	12/11/2018	Sampling Type:	Soil
Project Name:	CAL - B	Sampling Condition:	Cool & Intact
Project Number:	32.064329/-103.725630	Sample Received By:	Celey D. Keene
Project Location:	NONE GIVEN		

Sample ID: V-4 6'' (H803584-09)

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	12/07/2018	ND	2.06	103	2.00	0.119	
Toluene*	<0.050	0.050	12/07/2018	ND	2.04	102	2.00	0.275	
Ethylbenzene*	<0.050	0.050	12/07/2018	ND	1.95	97.4	2.00	0.408	
Total Xylenes*	<0.150	0.150	12/07/2018	ND	6.20	103	6.00	0.259	
Total BTEX	<0.300	0.300	12/07/2018	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	**64.0**	16.0	12/11/2018	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/07/2018	ND	198	99.0	200	6.17	
DRO >C10-C28*	**53.9**	10.0	12/07/2018	ND	208	104	200	4.29	
EXT DRO >C28-C36	**14.9**	10.0	12/07/2018	ND					

Surrogate: 1-Chlorooctane *103 %* *41-142*

Surrogate: 1-Chlorooctadecane *120 %* *37.6-147*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	12/05/2018	Sampling Date:	12/04/2018
Reported:	12/11/2018	Sampling Type:	Soil
Project Name:	CAL - B	Sampling Condition:	Cool & Intact
Project Number:	32.064329/-103.725630	Sample Received By:	Celey D. Keene
Project Location:	NONE GIVEN		

Sample ID: V-4 1' (H803584-10)

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	12/07/2018	ND	2.06	103	2.00	0.119	
Toluene*	<0.050	0.050	12/07/2018	ND	2.04	102	2.00	0.275	
Ethylbenzene*	**0.125**	0.050	12/07/2018	ND	1.95	97.4	2.00	0.408	
Total Xylenes*	**0.861**	0.150	12/07/2018	ND	6.20	103	6.00	0.259	
Total BTEX	**0.986**	0.300	12/07/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID *112 %* *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	12/11/2018	ND	400	100	400	3.92	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**51.4**	10.0	12/07/2018	ND	198	99.0	200	6.17	
DRO >C10-C28*	**1100**	10.0	12/07/2018	ND	208	104	200	4.29	
EXT DRO >C28-C36	**230**	10.0	12/07/2018	ND					

Surrogate: 1-Chlorooctane *102 %* *41-142*

Surrogate: 1-Chlorooctadecane *140 %* *37.6-147*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	12/05/2018	Sampling Date:	12/04/2018
Reported:	12/11/2018	Sampling Type:	Soil
Project Name:	CAL - B	Sampling Condition:	Cool & Intact
Project Number:	32.064329/-103.725630	Sample Received By:	Celey D. Keene
Project Location:	NONE GIVEN		

Sample ID: WH-1 6" (H803584-11)

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	12/07/2018	ND	2.06	103	2.00	0.119	
Toluene*	<0.050	0.050	12/07/2018	ND	2.04	102	2.00	0.275	
Ethylbenzene*	<0.050	0.050	12/07/2018	ND	1.95	97.4	2.00	0.408	
Total Xylenes*	<0.150	0.150	12/07/2018	ND	6.20	103	6.00	0.259	
Total BTEX	<0.300	0.300	12/07/2018	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	12/11/2018	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/07/2018	ND	198	99.0	200	6.17	
DRO >C10-C28*	**27.6**	10.0	12/07/2018	ND	208	104	200	4.29	
EXT DRO >C28-C36	**12.6**	10.0	12/07/2018	ND					

Surrogate: 1-Chlorooctane *103 %* *41-142*

Surrogate: 1-Chlorooctadecane *119 %* *37.6-147*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	12/05/2018	Sampling Date:	12/04/2018
Reported:	12/11/2018	Sampling Type:	Soil
Project Name:	CAL - B	Sampling Condition:	Cool & Intact
Project Number:	32.064329/-103.725630	Sample Received By:	Celey D. Keene
Project Location:	NONE GIVEN		

Sample ID: WH-1 18" (H803584-12)

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	12/07/2018	ND	2.06	103	2.00	0.119	
Toluene*	<0.050	0.050	12/07/2018	ND	2.04	102	2.00	0.275	
Ethylbenzene*	<0.050	0.050	12/07/2018	ND	1.95	97.4	2.00	0.408	
Total Xylenes*	<0.150	0.150	12/07/2018	ND	6.20	103	6.00	0.259	
Total BTEX	<0.300	0.300	12/07/2018	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	**48.0**	16.0	12/11/2018	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/07/2018	ND	198	99.0	200	6.17	
DRO >C10-C28*	**12.7**	10.0	12/07/2018	ND	208	104	200	4.29	
EXT DRO >C28-C36	<10.0	10.0	12/07/2018	ND					

Surrogate: 1-Chlorooctane *107 %* *41-142*

Surrogate: 1-Chlorooctadecane *122 %* *37.6-147*

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Analytical Results For:

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

Received:	12/05/2018	Sampling Date:	12/04/2018
Reported:	12/11/2018	Sampling Type:	Soil
Project Name:	CAL - B	Sampling Condition:	Cool & Intact
Project Number:	32.064329/-103.725630	Sample Received By:	Celey D. Keene
Project Location:	NONE GIVEN		

Sample ID: WH-2 6" (H803584-13)

BTEX 8021B mg/kg **Analyzed By: ms**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/07/2018	ND	2.06	103	2.00	0.119	
Toluene*	**0.144**	0.050	12/07/2018	ND	2.04	102	2.00	0.275	
Ethylbenzene*	<0.050	0.050	12/07/2018	ND	1.95	97.4	2.00	0.408	
Total Xylenes*	<0.150	0.150	12/07/2018	ND	6.20	103	6.00	0.259	
Total BTEX	<0.300	0.300	12/07/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID *103 %* *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	12/11/2018	ND	400	100	400	3.92	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/07/2018	ND	181	90.7	200	1.85	
DRO >C10-C28*	<10.0	10.0	12/07/2018	ND	213	106	200	0.216	
EXT DRO >C28-C36	<10.0	10.0	12/07/2018	ND					

Surrogate: 1-Chlorooctane *91.4 %* *41-142*

Surrogate: 1-Chlorooctadecane *96.8 %* *37.6-147*

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Analytical Results For:

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

Received:	12/05/2018	Sampling Date:	12/04/2018
Reported:	12/11/2018	Sampling Type:	Soil
Project Name:	CAL - B	Sampling Condition:	Cool & Intact
Project Number:	32.064329/-103.725630	Sample Received By:	Celey D. Keene
Project Location:	NONE GIVEN		

Sample ID: WH-2 18" (H803584-14)

BTEX 8021B mg/kg **Analyzed By: ms**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/07/2018	ND	2.06	103	2.00	0.119	
Toluene*	<0.050	0.050	12/07/2018	ND	2.04	102	2.00	0.275	
Ethylbenzene*	<0.050	0.050	12/07/2018	ND	1.95	97.4	2.00	0.408	
Total Xylenes*	<0.150	0.150	12/07/2018	ND	6.20	103	6.00	0.259	
Total BTEX	<0.300	0.300	12/07/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID *103 %* *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	12/11/2018	ND	400	100	400	3.92	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/07/2018	ND	181	90.7	200	1.85	
DRO >C10-C28*	<10.0	10.0	12/07/2018	ND	213	106	200	0.216	
EXT DRO >C28-C36	<10.0	10.0	12/07/2018	ND					

Surrogate: 1-Chlorooctane *90.9 %* *41-142*

Surrogate: 1-Chlorooctadecane *89.3 %* *37.6-147*

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Analytical Results For:

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

Received:	12/05/2018	Sampling Date:	12/04/2018
Reported:	12/11/2018	Sampling Type:	Soil
Project Name:	CAL - B	Sampling Condition:	Cool & Intact
Project Number:	32.064329/-103.725630	Sample Received By:	Celey D. Keene
Project Location:	NONE GIVEN		

Sample ID: NH-1 6" (H803584-15)

BTEX 8021B mg/kg Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/07/2018	ND	2.06	103	2.00	0.119	
Toluene*	<0.050	0.050	12/07/2018	ND	2.04	102	2.00	0.275	
Ethylbenzene*	<0.050	0.050	12/07/2018	ND	1.95	97.4	2.00	0.408	
Total Xylenes*	<0.150	0.150	12/07/2018	ND	6.20	103	6.00	0.259	
Total BTEX	<0.300	0.300	12/07/2018	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	**64.0**	16.0	12/11/2018	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/07/2018	ND	181	90.7	200	1.85	
DRO >C10-C28*	<10.0	10.0	12/07/2018	ND	213	106	200	0.216	
EXT DRO >C28-C36	<10.0	10.0	12/07/2018	ND					

Surrogate: 1-Chlorooctane *87.3 %* *41-142*

Surrogate: 1-Chlorooctadecane *85.8 %* *37.6-147*

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Analytical Results For:

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

Received:	12/05/2018	Sampling Date:	12/04/2018
Reported:	12/11/2018	Sampling Type:	Soil
Project Name:	CAL - B	Sampling Condition:	Cool & Intact
Project Number:	32.064329/-103.725630	Sample Received By:	Celey D. Keene
Project Location:	NONE GIVEN		

Sample ID: NH-1 18" (H803584-16)

BTEX 8021B mg/kg Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/07/2018	ND	2.06	103	2.00	0.119	
Toluene*	<0.050	0.050	12/07/2018	ND	2.04	102	2.00	0.275	
Ethylbenzene*	<0.050	0.050	12/07/2018	ND	1.95	97.4	2.00	0.408	
Total Xylenes*	<0.150	0.150	12/07/2018	ND	6.20	103	6.00	0.259	
Total BTEX	<0.300	0.300	12/07/2018	ND					

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

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	12/11/2018	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/07/2018	ND	181	90.7	200	1.85	
DRO >C10-C28*	<10.0	10.0	12/07/2018	ND	213	106	200	0.216	
EXT DRO >C28-C36	<10.0	10.0	12/07/2018	ND					

Surrogate: 1-Chlorooctane *93.9 %* *41-142*

Surrogate: 1-Chlorooctadecane *92.8 %* *37.6-147*

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Analytical Results For:

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

Received:	12/05/2018	Sampling Date:	12/04/2018
Reported:	12/11/2018	Sampling Type:	Soil
Project Name:	CAL - B	Sampling Condition:	Cool & Intact
Project Number:	32.064329/-103.725630	Sample Received By:	Celey D. Keene
Project Location:	NONE GIVEN		

Sample ID: NH-2 6" (H803584-17)

BTEX 8021B mg/kg Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/07/2018	ND	2.06	103	2.00	0.119	
Toluene*	<0.050	0.050	12/07/2018	ND	2.04	102	2.00	0.275	
Ethylbenzene*	<0.050	0.050	12/07/2018	ND	1.95	97.4	2.00	0.408	
Total Xylenes*	<0.150	0.150	12/07/2018	ND	6.20	103	6.00	0.259	
Total BTEX	<0.300	0.300	12/07/2018	ND					

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

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	12/11/2018	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/07/2018	ND	181	90.7	200	1.85	
DRO >C10-C28*	**49.0**	10.0	12/07/2018	ND	213	106	200	0.216	
EXT DRO >C28-C36	<10.0	10.0	12/07/2018	ND					

Surrogate: 1-Chlorooctane *95.5 %* *41-142*

Surrogate: 1-Chlorooctadecane *97.1 %* *37.6-147*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	12/05/2018	Sampling Date:	12/04/2018
Reported:	12/11/2018	Sampling Type:	Soil
Project Name:	CAL - B	Sampling Condition:	Cool & Intact
Project Number:	32.064329/-103.725630	Sample Received By:	Celey D. Keene
Project Location:	NONE GIVEN		

Sample ID: NH-2 18" (H803584-18)

BTEX 8021B mg/kg **Analyzed By: ms**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/07/2018	ND	2.06	103	2.00	0.119	
Toluene*	<0.050	0.050	12/07/2018	ND	2.04	102	2.00	0.275	
Ethylbenzene*	<0.050	0.050	12/07/2018	ND	1.95	97.4	2.00	0.408	
Total Xylenes*	<0.150	0.150	12/07/2018	ND	6.20	103	6.00	0.259	
Total BTEX	<0.300	0.300	12/07/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID *103 %* *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	12/11/2018	ND	400	100	400	3.92	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/07/2018	ND	181	90.7	200	1.85	
DRO >C10-C28*	**199**	10.0	12/07/2018	ND	213	106	200	0.216	
EXT DRO >C28-C36	**16.9**	10.0	12/07/2018	ND					

Surrogate: 1-Chlorooctane *94.7 %* *41-142*

Surrogate: 1-Chlorooctadecane *101 %* *37.6-147*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	12/05/2018	Sampling Date:	12/04/2018
Reported:	12/11/2018	Sampling Type:	Soil
Project Name:	CAL - B	Sampling Condition:	Cool & Intact
Project Number:	32.064329/-103.725630	Sample Received By:	Celey D. Keene
Project Location:	NONE GIVEN		

Sample ID: NH-3 2' (H803584-19)

BTEX 8021B mg/kg Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/07/2018	ND	2.06	103	2.00	0.119	
Toluene*	<0.050	0.050	12/07/2018	ND	2.04	102	2.00	0.275	
Ethylbenzene*	<0.050	0.050	12/07/2018	ND	1.95	97.4	2.00	0.408	
Total Xylenes*	<0.150	0.150	12/07/2018	ND	6.20	103	6.00	0.259	
Total BTEX	<0.300	0.300	12/07/2018	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	**128**	16.0	12/11/2018	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/07/2018	ND	181	90.7	200	1.85	
DRO >C10-C28*	<10.0	10.0	12/07/2018	ND	213	106	200	0.216	
EXT DRO >C28-C36	<10.0	10.0	12/07/2018	ND					

Surrogate: 1-Chlorooctane *94.0 %* *41-142*

Surrogate: 1-Chlorooctadecane *93.2 %* *37.6-147*

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Analytical Results For:

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

Received:	12/05/2018	Sampling Date:	12/04/2018
Reported:	12/11/2018	Sampling Type:	Soil
Project Name:	CAL - B	Sampling Condition:	Cool & Intact
Project Number:	32.064329/-103.725630	Sample Received By:	Celey D. Keene
Project Location:	NONE GIVEN		

Sample ID: NH-3 4' (H803584-20)

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	12/07/2018	ND	2.06	103	2.00	0.119	
Toluene*	<0.050	0.050	12/07/2018	ND	2.04	102	2.00	0.275	
Ethylbenzene*	<0.050	0.050	12/07/2018	ND	1.95	97.4	2.00	0.408	
Total Xylenes*	<0.150	0.150	12/07/2018	ND	6.20	103	6.00	0.259	
Total BTEX	<0.300	0.300	12/07/2018	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	**160**	16.0	12/11/2018	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/07/2018	ND	181	90.7	200	1.85	
DRO >C10-C28*	<10.0	10.0	12/07/2018	ND	213	106	200	0.216	
EXT DRO >C28-C36	<10.0	10.0	12/07/2018	ND					

Surrogate: 1-Chlorooctane *94.8 %* *41-142*

Surrogate: 1-Chlorooctadecane *94.6 %* *37.6-147*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

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

Received:	12/05/2018	Sampling Date:	12/04/2018
Reported:	12/11/2018	Sampling Type:	Soil
Project Name:	CAL - B	Sampling Condition:	Cool & Intact
Project Number:	32.064329/-103.725630	Sample Received By:	Celey D. Keene
Project Location:	NONE GIVEN		

Sample ID: EH-1 6" (H803584-21)

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	12/07/2018	ND	2.06	103	2.00	0.119	
Toluene*	<0.050	0.050	12/07/2018	ND	2.04	102	2.00	0.275	
Ethylbenzene*	<0.050	0.050	12/07/2018	ND	1.95	97.4	2.00	0.408	
Total Xylenes*	<0.150	0.150	12/07/2018	ND	6.20	103	6.00	0.259	
Total BTEX	<0.300	0.300	12/07/2018	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	**80.0**	16.0	12/11/2018	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/07/2018	ND	181	90.7	200	1.85	
DRO >C10-C28*	<10.0	10.0	12/07/2018	ND	213	106	200	0.216	
EXT DRO >C28-C36	<10.0	10.0	12/07/2018	ND					

Surrogate: 1-Chlorooctane *93.0 %* *41-142*

Surrogate: 1-Chlorooctadecane *90.9 %* *37.6-147*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	12/05/2018	Sampling Date:	12/04/2018
Reported:	12/11/2018	Sampling Type:	Soil
Project Name:	CAL - B	Sampling Condition:	Cool & Intact
Project Number:	32.064329/-103.725630	Sample Received By:	Celey D. Keene
Project Location:	NONE GIVEN		

Sample ID: EH-1 18'' (H803584-22)

BTEX 8021B mg/kg **Analyzed By: ms**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/07/2018	ND	2.06	103	2.00	0.119	
Toluene*	<0.050	0.050	12/07/2018	ND	2.04	102	2.00	0.275	
Ethylbenzene*	<0.050	0.050	12/07/2018	ND	1.95	97.4	2.00	0.408	
Total Xylenes*	<0.150	0.150	12/07/2018	ND	6.20	103	6.00	0.259	
Total BTEX	<0.300	0.300	12/07/2018	ND					

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

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	12/11/2018	ND	400	100	400	3.92	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/07/2018	ND	181	90.7	200	1.85	
DRO >C10-C28*	<10.0	10.0	12/07/2018	ND	213	106	200	0.216	
EXT DRO >C28-C36	<10.0	10.0	12/07/2018	ND					

Surrogate: 1-Chlorooctane *91.4 %* *41-142*

Surrogate: 1-Chlorooctadecane *88.6 %* *37.6-147*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	12/05/2018	Sampling Date:	12/04/2018
Reported:	12/11/2018	Sampling Type:	Soil
Project Name:	CAL - B	Sampling Condition:	Cool & Intact
Project Number:	32.064329/-103.725630	Sample Received By:	Celey D. Keene
Project Location:	NONE GIVEN		

Sample ID: EH-2 6" (H803584-23)

BTEX 8021B mg/kg Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/07/2018	ND	2.06	103	2.00	0.119	
Toluene*	<0.050	0.050	12/07/2018	ND	2.04	102	2.00	0.275	
Ethylbenzene*	<0.050	0.050	12/07/2018	ND	1.95	97.4	2.00	0.408	
Total Xylenes*	<0.150	0.150	12/07/2018	ND	6.20	103	6.00	0.259	
Total BTEX	<0.300	0.300	12/07/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID *103 %* *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	**112**	16.0	12/11/2018	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/07/2018	ND	181	90.7	200	1.85	
DRO >C10-C28*	<10.0	10.0	12/07/2018	ND	213	106	200	0.216	
EXT DRO >C28-C36	<10.0	10.0	12/07/2018	ND					

Surrogate: 1-Chlorooctane *75.9 %* *41-142*

Surrogate: 1-Chlorooctadecane *72.6 %* *37.6-147*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	12/05/2018	Sampling Date:	12/04/2018
Reported:	12/11/2018	Sampling Type:	Soil
Project Name:	CAL - B	Sampling Condition:	Cool & Intact
Project Number:	32.064329/-103.725630	Sample Received By:	Celey D. Keene
Project Location:	NONE GIVEN		

Sample ID: EH-2 18'' (H803584-24)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/07/2018	ND	2.01	100	2.00	3.72	
Toluene*	<0.050	0.050	12/07/2018	ND	1.98	99.0	2.00	4.63	
Ethylbenzene*	<0.050	0.050	12/07/2018	ND	1.93	96.6	2.00	5.93	
Total Xylenes*	<0.150	0.150	12/07/2018	ND	5.68	94.7	6.00	5.83	
Total BTEX	<0.300	0.300	12/07/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID *98.9 %* *73.3-129*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**64.0**	16.0	12/11/2018	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/07/2018	ND	181	90.7	200	1.85	
DRO >C10-C28*	<10.0	10.0	12/07/2018	ND	213	106	200	0.216	
EXT DRO >C28-C36	<10.0	10.0	12/07/2018	ND					

Surrogate: 1-Chlorooctane *93.3 %* *41-142*

Surrogate: 1-Chlorooctadecane *90.8 %* *37.6-147*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	12/05/2018	Sampling Date:	12/04/2018
Reported:	12/11/2018	Sampling Type:	Soil
Project Name:	CAL - B	Sampling Condition:	Cool & Intact
Project Number:	32.064329/-103.725630	Sample Received By:	Celey D. Keene
Project Location:	NONE GIVEN		

Sample ID: SH-1 6'' (H803584-25)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/07/2018	ND	2.01	100	2.00	3.72	
Toluene*	<0.050	0.050	12/07/2018	ND	1.98	99.0	2.00	4.63	
Ethylbenzene*	<0.050	0.050	12/07/2018	ND	1.93	96.6	2.00	5.93	
Total Xylenes*	<0.150	0.150	12/07/2018	ND	5.68	94.7	6.00	5.83	
Total BTEX	<0.300	0.300	12/07/2018	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	**32.0**	16.0	12/11/2018	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/07/2018	ND	181	90.7	200	1.85	
DRO >C10-C28*	<10.0	10.0	12/07/2018	ND	213	106	200	0.216	
EXT DRO >C28-C36	<10.0	10.0	12/07/2018	ND					

Surrogate: 1-Chlorooctane *94.6 %* *41-142*

Surrogate: 1-Chlorooctadecane *90.7 %* *37.6-147*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	12/05/2018	Sampling Date:	12/04/2018
Reported:	12/11/2018	Sampling Type:	Soil
Project Name:	CAL - B	Sampling Condition:	Cool & Intact
Project Number:	32.064329/-103.725630	Sample Received By:	Celey D. Keene
Project Location:	NONE GIVEN		

Sample ID: SH-1 18" (H803584-26)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/07/2018	ND	2.01	100	2.00	3.72	
Toluene*	<0.050	0.050	12/07/2018	ND	1.98	99.0	2.00	4.63	
Ethylbenzene*	<0.050	0.050	12/07/2018	ND	1.93	96.6	2.00	5.93	
Total Xylenes*	<0.150	0.150	12/07/2018	ND	5.68	94.7	6.00	5.83	
Total BTEX	<0.300	0.300	12/07/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID *96.8 %* *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	12/11/2018	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/07/2018	ND	181	90.7	200	1.85	
DRO >C10-C28*	<10.0	10.0	12/07/2018	ND	213	106	200	0.216	
EXT DRO >C28-C36	<10.0	10.0	12/07/2018	ND					

Surrogate: 1-Chlorooctane *93.2 %* *41-142*

Surrogate: 1-Chlorooctadecane *90.1 %* *37.6-147*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	12/05/2018	Sampling Date:	12/04/2018
Reported:	12/11/2018	Sampling Type:	Soil
Project Name:	CAL - B	Sampling Condition:	Cool & Intact
Project Number:	32.064329/-103.725630	Sample Received By:	Celey D. Keene
Project Location:	NONE GIVEN		

Sample ID: SH-2 6'' (H803584-27)

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	12/07/2018	ND	2.01	100	2.00	3.72	
Toluene*	<0.050	0.050	12/07/2018	ND	1.98	99.0	2.00	4.63	
Ethylbenzene*	<0.050	0.050	12/07/2018	ND	1.93	96.6	2.00	5.93	
Total Xylenes*	<0.150	0.150	12/07/2018	ND	5.68	94.7	6.00	5.83	
Total BTEX	<0.300	0.300	12/07/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID *97.9 %* *73.3-129*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	12/11/2018	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/07/2018	ND	181	90.7	200	1.85	
DRO >C10-C28*	<10.0	10.0	12/07/2018	ND	213	106	200	0.216	
EXT DRO >C28-C36	<10.0	10.0	12/07/2018	ND					

Surrogate: 1-Chlorooctane *90.6 %* *41-142*

Surrogate: 1-Chlorooctadecane *88.9 %* *37.6-147*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	12/05/2018	Sampling Date:	12/04/2018
Reported:	12/11/2018	Sampling Type:	Soil
Project Name:	CAL - B	Sampling Condition:	Cool & Intact
Project Number:	32.064329/-103.725630	Sample Received By:	Celey D. Keene
Project Location:	NONE GIVEN		

Sample ID: SH-2 18" (H803584-28)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/07/2018	ND	2.01	100	2.00	3.72	
Toluene*	<0.050	0.050	12/07/2018	ND	1.98	99.0	2.00	4.63	
Ethylbenzene*	<0.050	0.050	12/07/2018	ND	1.93	96.6	2.00	5.93	
Total Xylenes*	<0.150	0.150	12/07/2018	ND	5.68	94.7	6.00	5.83	
Total BTEX	<0.300	0.300	12/07/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID *97.3 %* *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	12/11/2018	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2018	ND	197	98.4	200	2.38	
DRO >C10-C28*	<10.0	10.0	12/10/2018	ND	206	103	200	4.30	
EXT DRO >C28-C36	<10.0	10.0	12/10/2018	ND					

Surrogate: 1-Chlorooctane *99.7 %* *41-142*

Surrogate: 1-Chlorooctadecane *115 %* *37.6-147*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	12/05/2018	Sampling Date:	12/04/2018
Reported:	12/11/2018	Sampling Type:	Soil
Project Name:	CAL - B	Sampling Condition:	Cool & Intact
Project Number:	32.064329/-103.725630	Sample Received By:	Celey D. Keene
Project Location:	NONE GIVEN		

Sample ID: SH-3 6'' (H803584-29)

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	12/07/2018	ND	2.01	100	2.00	3.72	
Toluene*	<0.050	0.050	12/07/2018	ND	1.98	99.0	2.00	4.63	
Ethylbenzene*	<0.050	0.050	12/07/2018	ND	1.93	96.6	2.00	5.93	
Total Xylenes*	<0.150	0.150	12/07/2018	ND	5.68	94.7	6.00	5.83	
Total BTEX	<0.300	0.300	12/07/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID *97.8 %* *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	**192**	16.0	12/11/2018	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/07/2018	ND	197	98.4	200	2.38	
DRO >C10-C28*	**332**	10.0	12/07/2018	ND	206	103	200	4.30	
EXT DRO >C28-C36	**40.7**	10.0	12/07/2018	ND					

Surrogate: 1-Chlorooctane *94.9 %* *41-142*

Surrogate: 1-Chlorooctadecane *120 %* *37.6-147*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	12/05/2018	Sampling Date:	12/04/2018
Reported:	12/11/2018	Sampling Type:	Soil
Project Name:	CAL - B	Sampling Condition:	Cool & Intact
Project Number:	32.064329/-103.725630	Sample Received By:	Celey D. Keene
Project Location:	NONE GIVEN		

Sample ID: SH-3 18" (H803584-30)

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	12/07/2018	ND	2.01	100	2.00	3.72	
Toluene*	<0.050	0.050	12/07/2018	ND	1.98	99.0	2.00	4.63	
Ethylbenzene*	<0.050	0.050	12/07/2018	ND	1.93	96.6	2.00	5.93	
Total Xylenes*	<0.150	0.150	12/07/2018	ND	5.68	94.7	6.00	5.83	
Total BTEX	<0.300	0.300	12/07/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID *97.2 %* *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	**208**	16.0	12/11/2018	ND	416	104	400	3.77	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/07/2018	ND	197	98.4	200	2.38	
DRO >C10-C28*	**101**	10.0	12/07/2018	ND	206	103	200	4.30	
EXT DRO >C28-C36	**13.6**	10.0	12/07/2018	ND					

Surrogate: 1-Chlorooctane *102 %* *41-142*

Surrogate: 1-Chlorooctadecane *118 %* *37.6-147*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

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.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
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

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:	ETC
Project Manager:	Dean Erickson
Address:	
City:	State: Zip:
Phone #:	Fax #:
Project #:	Project Owner:
Project Name:	Cal-B
Project Location:	32.064329 -103.725630
Sampler Name:	Tyler R. Bowles

BILL TO

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

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE:	ICE / COOL	OTHER:	SAMPLING: DATE	TIME	TAH	CL	BTEX	Hold Analysis
H803584																		
01	V-1												12-4-18	10:01 am	X	X	X	
02	V-1													10:10				
03	V-1													10:23				X
04	V-1													10:34				X
05	V-2													10:42				
06	V-2													10:59				
07	V-3													11:11				
08	V-3													11:19				
09	V-4													11:32				
10	V-4													11:41				

Relinquished By:	Date: 12/5/18	Received By:	
	Time: 16:10		
Relinquished By:	Date:	Received By:	
	Time:		

Delivered By: (Circle One)
Sampler - UPS - Bus - Other: 5.3°C

Sample Condition		CHECKED BY: (Initials)
Cool	Intact	
☑ Yes ☐ No	☑ Yes ☐ No	CH #97

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

NM

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

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:	ETC
Project Manager:	Ocean Erizson
Address:	
City:	State: Zip:
Phone #:	Fax #:
Project #:	Project Owner:
Project Name:	Cal-B
Project Location:	32.064329 -103.725630
Sampler Name:	Tyler R. Brooms

BILL TO

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

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	TPH	BTEX	CL
H803584-																	
11	WH-1 6"												12/4/18	12:05pm			
12	WH-1 18"													12:16			
13	W-H-2 6"													12:31			
14	W-H-2 18"													12:42			
15	NH-1 6"													12:59			
16	NH-1 18"													1:14			
17	NH-2 ~~1.6'~~ 6"													1:29			
18	NH 2 ~~4"~~ 18"													1:41			
19	NH-3 2'													1:53			
20	NH-3 4'													2:08			

Relinquished By:	Date: 12/5/18	Received By:	
	Time: 16:10		
Relinquished By:	Date:	Received By:	
	Time:		

Delivered By: (Circle One)
Sampler - UPS - Bus - Other: 5.3°C

Sample Condition: Cool ☑ Yes ☐ No; Intact ☑ Yes ☐ No

CHECKED BY: (Initials) CK #97

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

NM

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

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:	ETC
Project Manager:	Drew Ericson
Address:	
City:	State: Zip:
Phone #:	Fax #:
Project #:	Project Owner:
Project Name:	Cal-B
Project Location:	32.064329 -103.725630
Sampler Name:	Tyler Brewer

BILL TO

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

ANALYSIS REQUEST

CL | TPH | BTEX

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE:	ICE / COOL	OTHER:	SAMPLING DATE	SAMPLING TIME
H803584														
21	EH-1 6"												12/4/18	2:31 pm
22	EH-1 18"													2:49
23	EH-2 6"													3:06
24	EH-2 18"													3:19
~~25~~	~~EH-3 6"~~													3:31
~~26~~	~~EH-3 18"~~													3:42
25 ~~27~~	SH-1 6"													3:59
26 ~~28~~	SH-1 18"													4:08
27 ~~29~~	SH-2 6"													4:24
28 ~~30~~	SH-2 18"													4:39

no sample
no sample

Relinquished By:	Date: 12/5/18	Received By:	
Relinquished By:	Time: 16:10	Received By:	
	Date:		
	Time:		

Delivered By: (Circle One)
Sampler - UPS - Bus - Other: 5.3°C

Sample Condition		CHECKED BY: (Initials)
Cool	Intact	
☑ Yes ☐ No	☑ Yes ☐ No	GM #97

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

NM

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

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:	ETC
Project Manager:	Drew Erickson
Address:	
City:	State: Zip:
Phone #:	Fax #:
Project #:	Project Owner:
Project Name:	Cal-B
Project Location:	32.064329 -103.725630
Sampler Name:	Tyler R Brown

BILL TO

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

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING DATE	SAMPLING TIME	Cl	BTEX	TPH
H203584-2934	SH-3 6'	G	1			X							12/4/18	5:01 pm	1	1	1
3032	SH-3 18'	G	1			X							1	5:10 pm			

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

Relinquished By:	Date: 12/5/18	Received By:	Phone Result: ☐ Yes ☐ No Add'l Phone #:
Relinquished By:	Time: 16:10	Received By:	Fax Result: ☐ Yes ☐ No Add'l Fax #:
	Date:		REMARKS:
	Time:		

Delivered By: (Circle One)
Sampler - UPS - Bus - Other: 5.3°C

Sample Condition: Cool ☑ Yes ☐ No; Intact ☑ Yes ☐ No

CHECKED BY: (Initials) CdL #97

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

CARDINAL Laboratories

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

January 22, 2019

JOEL LOWRY

ENERGY TRANSFER

P. O. BOX 1226

JAL, NM 88252

RE: CAL - B

Enclosed are the results of analyses for samples received by the laboratory on 01/17/19 15:45.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	01/17/2019	Sampling Date:	01/16/2019
Reported:	01/22/2019	Sampling Type:	Soil
Project Name:	CAL - B	Sampling Condition:	Cool & Intact
Project Number:	PIPELINE	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: V-2 A @ 24" (H900172-01)

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	01/21/2019	ND	221	111	200	1.46	
DRO >C10-C28*	**374**	10.0	01/21/2019	ND	214	107	200	0.961	
EXT DRO >C28-C36	**50.8**	10.0	01/21/2019	ND					

Surrogate: 1-Chlorooctane	*91.5 %*	*41-142*
Surrogate: 1-Chlorooctadecane	*99.3 %*	*37.6-147*

Sample ID: V-3 A @ 18" (H900172-02)

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	01/21/2019	ND	221	111	200	1.46	
DRO >C10-C28*	**18.7**	10.0	01/21/2019	ND	214	107	200	0.961	
EXT DRO >C28-C36	**10.0**	10.0	01/21/2019	ND					

Surrogate: 1-Chlorooctane	*103 %*	*41-142*
Surrogate: 1-Chlorooctadecane	*95.3 %*	*37.6-147*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	01/17/2019	Sampling Date:	01/16/2019
Reported:	01/22/2019	Sampling Type:	Soil
Project Name:	CAL - B	Sampling Condition:	Cool & Intact
Project Number:	PIPELINE	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: V-4 A @ 18" (H900172-03)

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	01/21/2019	ND	221	111	200	1.46	
DRO >C10-C28*	**74.8**	10.0	01/21/2019	ND	214	107	200	0.961	
EXT DRO >C28-C36	**11.2**	10.0	01/21/2019	ND					

Surrogate: 1-Chlorooctane	*88.9 %*	*41-142*
Surrogate: 1-Chlorooctadecane	*90.7 %*	*37.6-147*

Sample ID: NH--2 A @ 24" (H900172-04)

TPH 8015M **mg/kg** **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/21/2019	ND	221	111	200	1.46	
DRO >C10-C28*	<10.0	10.0	01/21/2019	ND	214	107	200	0.961	
EXT DRO >C28-C36	<10.0	10.0	01/21/2019	ND					

Surrogate: 1-Chlorooctane	*95.3 %*	*41-142*
Surrogate: 1-Chlorooctadecane	*89.2 %*	*37.6-147*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	01/17/2019	Sampling Date:	01/16/2019
Reported:	01/22/2019	Sampling Type:	Soil
Project Name:	CAL - B	Sampling Condition:	Cool & Intact
Project Number:	PIPELINE	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: NH--2 B @ 6" (H900172-05)

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	01/21/2019	ND	221	111	200	1.46	
DRO >C10-C28*	<10.0	10.0	01/21/2019	ND	214	107	200	0.961	
EXT DRO >C28-C36	<10.0	10.0	01/21/2019	ND					

Surrogate: 1-Chlorooctane	*97.3 %*	*41-142*
Surrogate: 1-Chlorooctadecane	*92.1 %*	*37.6-147*

Sample ID: NH--2 B @ 18" (H900172-06)

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	01/21/2019	ND	221	111	200	1.46	
DRO >C10-C28*	<10.0	10.0	01/21/2019	ND	214	107	200	0.961	
EXT DRO >C28-C36	<10.0	10.0	01/21/2019	ND					

Surrogate: 1-Chlorooctane	*96.4 %*	*41-142*
Surrogate: 1-Chlorooctadecane	*92.4 %*	*37.6-147*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	01/17/2019	Sampling Date:	01/16/2019
Reported:	01/22/2019	Sampling Type:	Soil
Project Name:	CAL - B	Sampling Condition:	Cool & Intact
Project Number:	PIPELINE	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: SH--3 A @ 24'' (H900172-07)

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	01/21/2019	ND	221	111	200	1.46	
DRO >C10-C28*	<10.0	10.0	01/21/2019	ND	214	107	200	0.961	
EXT DRO >C28-C36	<10.0	10.0	01/21/2019	ND					

Surrogate: 1-Chlorooctane	*91.5 %*	*41-142*
Surrogate: 1-Chlorooctadecane	*91.4 %*	*37.6-147*

Sample ID: SH--3 B @ 6'' (H900172-08)

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	01/21/2019	ND	221	111	200	1.46	
DRO >C10-C28*	<10.0	10.0	01/21/2019	ND	214	107	200	0.961	
EXT DRO >C28-C36	<10.0	10.0	01/21/2019	ND					

Surrogate: 1-Chlorooctane	*91.0 %*	*41-142*
Surrogate: 1-Chlorooctadecane	*93.7 %*	*37.6-147*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	01/17/2019	Sampling Date:	01/16/2019
Reported:	01/22/2019	Sampling Type:	Soil
Project Name:	CAL - B	Sampling Condition:	Cool & Intact
Project Number:	PIPELINE	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: SH--3 B @ 18'' (H900172-09)

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	01/21/2019	ND	221	111	200	1.46	
DRO >C10-C28*	<10.0	10.0	01/21/2019	ND	214	107	200	0.961	
EXT DRO >C28-C36	<10.0	10.0	01/21/2019	ND					

Surrogate: 1-Chlorooctane	*91.8 %*	*41-142*
Surrogate: 1-Chlorooctadecane	*95.8 %*	*37.6-147*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:	ETC Texas Pipeline, Ltd.	**BILL TO**	
Project Manager:	Joel Lowry	**P.O. #:**	
Address:	600 N. Marienfeld. St., Suite 700, Midland, TX 79701	**Company:**	ETC Texas Pipeline, Ltd.
City:	**State:** **Zip:**	**Attn:**	Dean Ericson
Phone #:	432-466-4450 **Fax #:**	**Address:**	
Project #:	**Project Owner:**	**City:**	
Project Name:	Cal B Pipeline	**State:**	**Zip:**
Project Location:	Lea County, New Mexico	**Phone #:**	
Sampler Name:		**Fax #:**	

FOR LAB USE ONLY				MATRIX						PRESERV.			SAMPLING		ANALYSIS REQUEST
Lab I.D.	**Sample I.D.**	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	**DATE**	**TIME**	TPH 8015 M Ext.
H900172															
1	V-2a @ 24"	g	1			x					x		1/16/19	13:10	x
2	V-3a @ 18"	g	1			x					x		1/16/19	13:35	x
3	V-4a @ 18"	g	1			x					x		1/16/19	13:50	x
4	NH-2a @ 24"	g	1			x					x		1/16/19	14:05	x
5	NH-2b @ 6"	g	1			x					x		1/16/19	14:10	x
6	NH-2b @ 18"	g	1			x					x		1/16/19	14:15	x
7	SH-3a @ 24"	g	1			x					x		1/16/19	14:30	x
8	SH-3b @ 6"	g	1			x					x		1/16/19	14:35	x
9	SH-3b @ 18"	g	1			x					x		1/16/19	14:50	x

Relinquished By:	**Date:** 1/17/19	**Received By:**	Phone Result: ☐ Yes ☐ No Add'l Phone #:
	Time: 1573		Fax Result: ☐ Yes ☐ No Add'l Fax #:
Relinquished By:	**Date:**	**Received By:**	REMARKS: joel@lowrvenvironmental.com
	Time:		dean.ericson@energytransfer.com

Delivered By: (Circle One) Sampler - UPS - Bus - Other: -0.2° #97

Sample Condition Cool: ☑ Yes ☐ No Intact: ☑ Yes ☐ No

CHECKED BY: (Initials) JD.

FORM-006 R 2.0

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

ATTACHMENT #7

Photographic Log

PHOTOGRAPHIC LOG

Figure 1 View of surface staining from the initial release and sample location, facing West.

Figure 2 View of surface staining from the initial release and sample location, facing West.

PHOTOGRAPHIC LOG

Figure 3 View of surface staining from the initial release and sample location, facing East.

Figure 4 View of surface staining from the initial release and sample location, facing North.

PHOTOGRAPHIC LOG

Figure 5 View of surface staining from the initial release and sample location, facing South.

Figure 6 View of surface staining from the initial release, hydrovac activities and sample location, facing South.

Figure 7 View of soil sample collection activities.

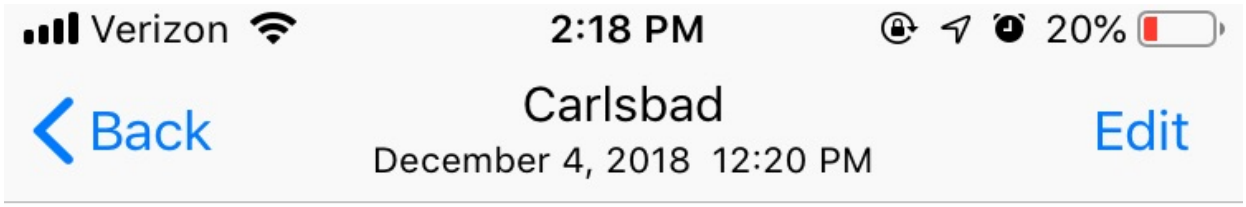


Figure 8 View of soil sample collection activities.

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 NAB1834730382
District RP	0 2RP-5103
Facility ID	0 fAB1834729696
Application ID	0 pAB1834729291

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.c	Incident # *(assigned by OCD)*	0
Contact Mailing Address	600 N. Marienfeld. St., Suite 700, Midland, TX 79701		

Location of Release Source

Latitude 32.0647 Longitude -103.7254

(Nad 83 in decimal degrees to 5 decimal places)

Site Name Cal B	Site Type Pipeline
Date Release Discovered 11/22/18	API# *(if applicable)* NA

Unit Letter	Section	Township	Range	County
A	12	T26S	R31E	Eddy

Surface Owner: ☐ State ☑ Federal ☐ Tribal ☐ Private *(Name* N/A)

Nature and Volume of Release

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

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☑ Produced Water	Volume Released (bbls) 25.3 bbl	Volume Recovered (bbls) 0 bbl
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	☐ Yes ☐ No ☑ N/A
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☑ Natural Gas	Volume Released (Mcf) 25.563 Mscf	Volume Recovered (Mcf) None
☐ 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.

State of New Mexico
Oil Conservation Division

Incident ID	0 NAB1834730382
District RP	0 2RP-5103
Facility ID	0 fAB1834729696
Application ID	0 pAB1834729291

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? 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? (phone, email, etc)?
Dean Ericson, Mike Bratcher, 11/22/2018 @ 15:31 MST, Phone/email

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.
- ☑ Release 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:

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 Blackaller
Title: Sr. Environmental Specialist
Signature: Carolyn Blackaller
Date: 12/6/2018
email: carolyn.blackaller@energytransfer.com
Telephone: 817-302-9766

OCD Only
Received by: Amalia Bustamante
Date: 12/13/2018

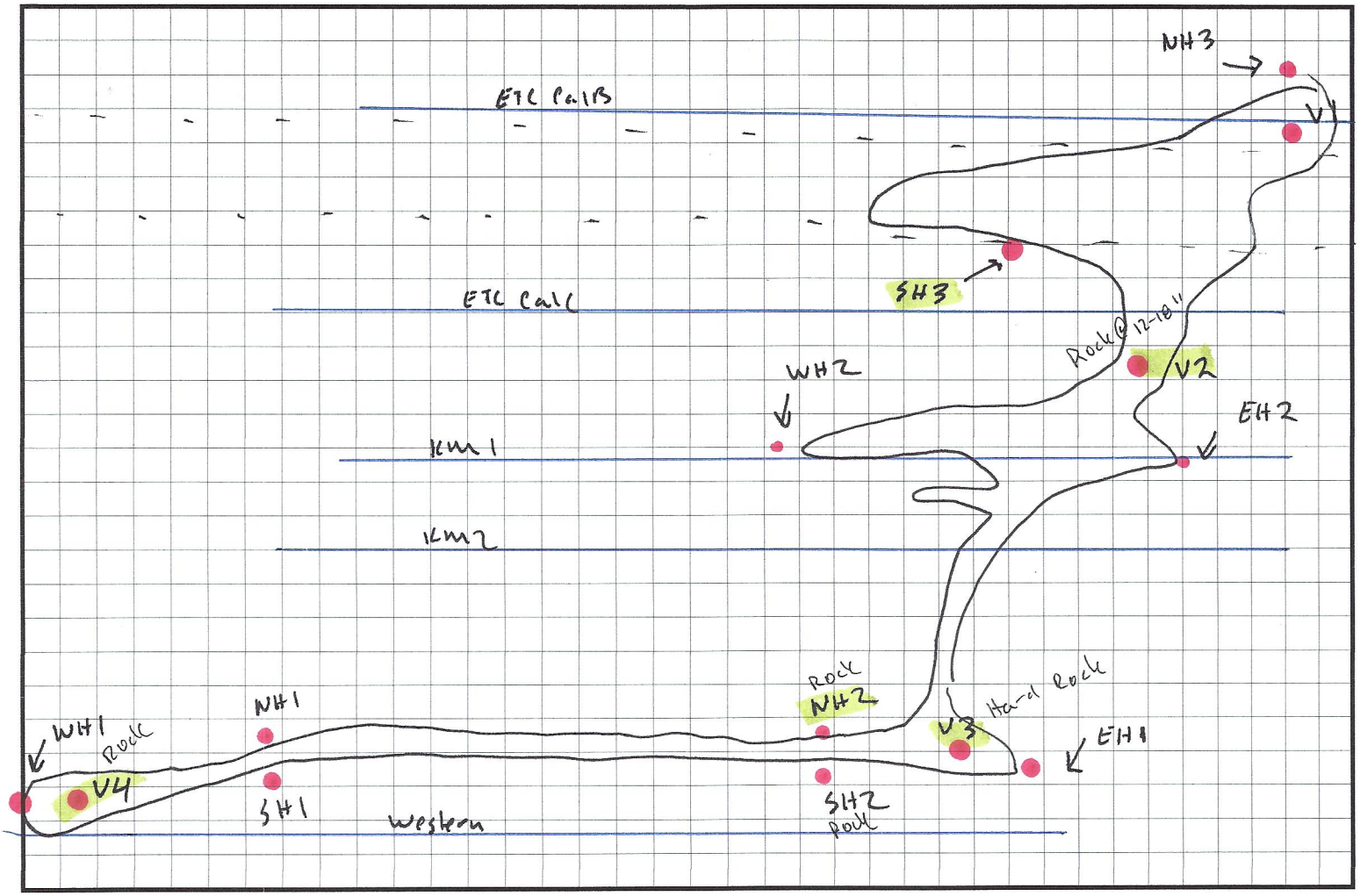
ATTACHMENT #9

Field Data

FIELD NOTES

Site Name: Cal B

Date: 12/4/2018



Horizontal : Vertical Relivation. 4 - Verticals

Field Screen w/ PID

Hard Rock in Flow path, Could not go past 12"-18" w/ Backhoe

Field ID	Odor/PID	Chloride
V-1@4'	673	<120
V-1@8'	29.1	—
V-1@8.5'	16.1	—
V-1@9'	7.5	—
V-2@6"	854	—

Field ID	Odor/PID	Chloride
WH-1@6"	0.7	—
WH-1@18"	0.8	—
WH-2@6"	9.9	—
WH-2@18"	15.7	—
NH-1@6"	2.6	—

Field ID	Odor/PID	Chloride
EH-1@6"	1.4	—
EH-1@18"	3.0	—
EH-2@6"	1.8	—
EH-2@18"	7.6	—
SH-1@6"	0.7	—

Field ID	Odor/PID	Chloride
V-2@18"	110.0	—
V-3@6"	117	—
V-3@1'	524	—
V-4@6"	564	—
V-4@1'	157	—

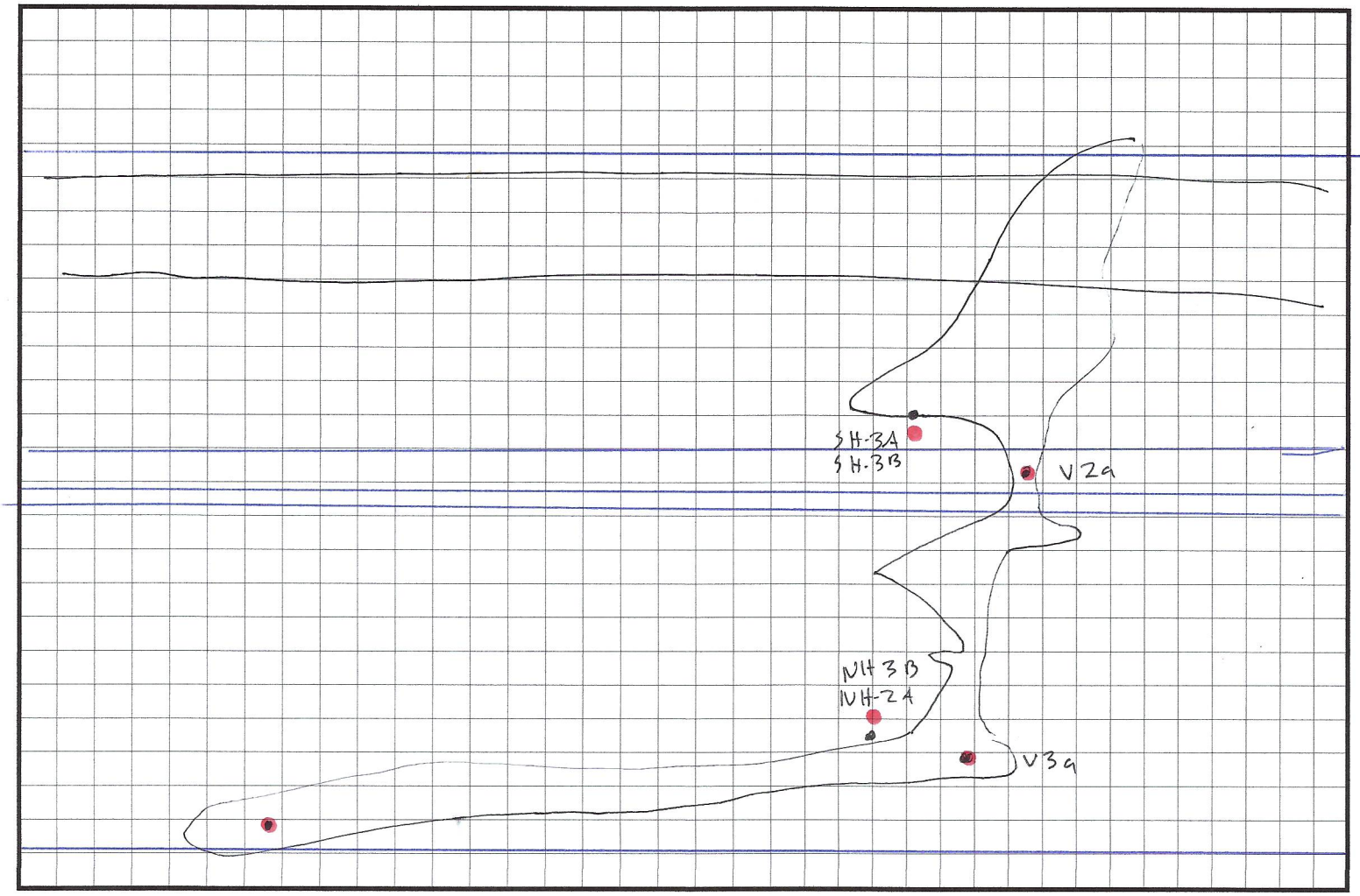
Field ID	Odor/PID	Chloride
NH-1@18"	4.4	—
NH-2@6"	1.6	—
NH-2@18"	4	—
NH-3@4'	159	—
NH-3@2'	162	—

Field ID	Odor/PID	Chloride
SH-1@18"	1.7	—
SH-2@6"	0.5	—
SH-2@18"	2.3	—
SH-3@6"	12.8	—
SH-3@18"	9.0	—

FIELD NOTES

Site Name: Cal B

Date: 1/16/19



Revisit Release Site w/ Masonry Drill
Collect Addition Horizontal Delineation Samples
Use Drill to Collect Additional Samples

Field ID	Odor/PID	Chloride
V-2A@24"	Light	
V-3A @18"	Light	
V-4A@18	Light	

Field ID	Odor/PID	Chloride
NH-2A@24"	None	
NH-2B@6"	None	
NH-2B@18	None	

Field ID	Odor/PID	Chloride
SH-3A@24"	None	
SH-3B@6"	None	
SH-3B@18	None	

Field ID	Odor/PID	Chloride

Field ID	Odor/PID	Chloride

Field ID	Odor/PID	Chloride