

Incident ID	
District RP	1RP-5265
Facility ID	
Application ID	

Closure 1LCR0-190816-C-1410

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

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

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

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

Printed Name: Dean EricsonTitle: Sr. Environmental SpecialistSignature:  Date: 8/15/2019email: dean.ericson@energytransfer.comTelephone: 817-302-9753**OCD Only**

Received by: _____ Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____



August 15, 2019

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

Incident ID	nCH1831954977
District RP	1RP-5265
Facility ID	fCH1831949029
Application ID	pCH1831956246

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

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

Nature and Volume of Release	
Date Release Discovered	10/26/2018
Source of Release	Pipeline
Type of Release	Produced Water, Condensate & Natural Gas
Volume Released	27.54 bbls PW, 3.06 bbs Condensate, 187.59 McF Gas
Volume Recovered	None
Cause of Release	
The release was attributed to a crack in the 4-Inch poly Pipeline.	
Affected Area	
Fluid from the release mixed with rainwater and affected an area measuring approximately 7,500 sq. t. within the pipeline right-of-way. Overspray from the release affected an area within the adjacent pasture measuring approximately 5,000 sq. ft.	
Was this a major release?	If YES, for what reasons (s) is this considered a major release?
Yes	Unauthorized release of a volume of liquids exceeding 25 bbls.
If Yes, was immediate notice given to the OCD? By whom? To whom? When and by what means?	
No, immediate notice was not given due to excessive rainfall at the release site, which hindered the determination of approximately how much liquid was released.	

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

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Site Assessment/Characterization	
What is the shallowest depth to groundwater beneath the area affected by the release?	50-100 Ft.
Did this release impact groundwater or surface water?	No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	No
Are the lateral extents of the release within 300 feet of a wetland?	No
Are the lateral extents of the release overlying a subsurface mine?	No
Are the lateral extents of the release overlying an unstable area such as karst geology?	No
Are the lateral extents of the release within a 100-year floodplain?	No
Did the release impact areas not on an exploration, development, production or storage site?	Yes

A search of groundwater databases maintained by the New Mexico Office of the State Engineer (NMOSE) and United States Geological Survey was conducted in an effort to determine the average depth to groundwater within a 1 Mile radius of the Site and identify any registered water wells within a 1/2 Mile radius of the Site. A search of the NMOSE database suggested the presence of 1 water well (CP00549) within 1,000 ft. of the site. A field survey indicated available geographic information for CP00549 is outdated and/or incorrect; there is no water well in that vicinity. A search of the USGS database did not identify any water wells within a 1/2 Mile radius.

Based on the volume and nature of the release, inferred depth to groundwater and NMOCD Siting Criteria, the NMOCD Closure Criteria for the Site is as follows:

Closure Criteria for Soil Impacted by a Release	
Benzene	10 mg/kg
Benzene, Toluene, Ethylbenzene and Total Xylenes (BTEX)	50 mg/kg
Total Petroleum Hydrocarbons	2500 mg/kg
Combined GRO and DRO	1000 mg/kg
Chloride	10000 mg/kg

NMOCD Siting Criteria data was gathered from available resources including Bureau of Land Management (BLM) shapefiles; topographic maps; NMOSE and USGS databases; and aerial imagery. The results are depicted on Figures 1 & 2. Depth to groundwater information is provided as Attachment #4. A Photographic Log is provided as Attachment #7.

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INITIAL SITE ASSESSMENT

On November 2, 2018, four (4) soil samples (V1 1", V2 6", V3 8" and V4 1') were collected from the affected area in an effort to characterize impacts from the release. The collected soil samples were submitted to an NMOCD-approved laboratory for analysis of BTEX, TPH and chloride. Laboratory analytical results indicated BTEX, TPH and chloride concentrations were below the NMOCD Closure Criteria in each of the submitted soil samples with the exception of V1 1", which exhibited a combined GRO and DRO concentration of 12,668 mg/kg and a TPH concentration of 14,898 mg/kg.

On December 12, 2018, LEA conducted an initial site assessment. During the initial site assessment, ten (10) soil samples (NH-1 @ 6", NH-1 @ 2', WH-1 @ 6", WH-1 @ 2', SH-1 @ 6", SH-1 @ 2', EH-1 @ 6", EH-1 @ 2', EH-2 @ 6", and EH-2 @ 2') were collected from the inferred edges of the affected area in an effort to determine the horizontal extent of soil impact. In addition, one (1) soil sample (V1b @ 4'-R) was collected from beneath the release point in the area characterized by sample point V1. The collected soil samples were submitted to the laboratory for analysis of BTEX, TPH and chloride. Laboratory analytical results indicated BTEX, TPH and chloride concentrations were below the NMOCD Closure Criteria in each of the submitted soil samples.

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

Concentrations of BTEX, TPH and/or Chloride in Soil - Initial Assessment											
Sample ID	Date	Depth	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
V1 1"	11/2/18	1"	Excavated	<0.200	22.2	668	12,000	12,668	2,230	14,898	608
V2 6"	11/2/18	6"	Excavated	<0.050	<0.300	<10.0	72.5	72.5	39.5	112	32.0
V3 8"	11/2/18	8"	Excavated	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
V4 1'	11/2/18	1'	Excavated	<0.050	<0.300	<10.0	778	778	185	963	32.0
NH-1 @ 6"	12/12/18	6"	In-Situ	<0.050	<0.300	<10.0	23.3	23.3	<10.0	23.3	32.0
NH-1 @ 2'	12/12/18	2'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
WH-1 @ 6"	12/12/18	6"	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
WH-1 @ 2'	12/12/18	2'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SH-1 @ 6"	12/12/18	6"	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SH-1 @ 2'	12/12/18	2'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
EH-1 @ 6"	12/12/18	6"	Excavated	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
EH-1 @ 2'	12/12/18	Surf.	Excavated	<0.050	<0.300	<10.0	189	189	53.2	242	64.0
EH-2 @ 6"	12/12/18	1'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
EH-2 @ 2'	12/12/18	Surf.	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
V1-1b @ 4'R	12/12/18	4'	In-Situ	<0.050	0.364	12.4	204	216	15.8	232.2	16.0
Closure Criteria				10	50	-	-	1,000	-	2,500	10,000

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

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PROPOSED REMEDIATION PLAN

On **January 4, 2019**, a *Site Assessment Report and Proposed Soil Remediation Plan* was submitted to the NMOCD detailing field activities conducted to date and proposing remediation activities designed to advance the Site toward an NMOCD-approved closure. The *Site Assessment Report and Proposed Soil Remediation Plan* was subsequently approved with condition that the area around V3 be expanded to include the area around V4 1' and EH-1, the depth of the excavation be 1 Ft. instead of 8 in. and that an additional sample be collected in between sample V2 6" and EH-1.

REMEDIATION ACTIVITIES SUMMARY

On **July 10, 2019**, remediation activities commenced at the Site. In accordance with the approved *Soil Remediation Plan*, impacted soil within the area characterized by sample point V-1 and V-1b was excavated to a depth of 4 Ft bgs, impacted soil within the area characterized by sample point V2 was excavated to a depth of 6 in bgs and impacted soil in the area characterized by sample points V3 , EH-1 and V4 1' was excavated to a depth of 1 Ft. bgs. Excavation sidewalls were advanced until field observations suggested hydrocarbon impacts had been mitigated. Upon excavating impacted soil from within the release margins, LEA collected **twenty-nine (29)** excavation confirmation soil samples (NSW #1, NSW #2, NSW #3, NSW #4, NSW #5, SSW #1, SSW #2, SSW #3, SSW #4, SSW #5, SWS #1, ESW #1, V2-EH @ 1', Floor #1, Floor #2, Floor #3, Floor #4, Floor #5, Floor #6, Floor #7, Floor #8, Floor #9, Floor #10, Floor #11 @ 4', Floor #11 Stain, NSWa, ESWa, SSWa and WSWa) from the floor and sidewalls of the excavated area. The collected soil samples were submitted to an NMOCD-approved laboratory for analysis of BTEX, TPH and chloride concentrations. Laboratory analytical results indicated GRO+DRO and/or TPH concentrations exceeded the NMOCD Closure Criteria in ten (10) of the submitted soil samples. Based on laboratory analytical results, additional excavation would be required.

On **July 30, 2019**, excavation activities resumed at the Site. Impacted soil present within the floor and sidewalls of the excavated area affected above the NMOCD Closure Criteria and/or NMOCD Reclamation Standard was excavated and transported to an NMOCD-approved disposal facility. Upon excavating impacted soil from within the release margins, **twenty-one (21)** excavation confirmation soil samples (WSW B, WSW #1 B, FL #11 Stain B, SSW B, FL #7 B, FL #8 B, FL #9 B, FL #10 B, FL #11 B, NSW C, ESW C, FL #6 B, FL #5 B, NSW #3 B, FL #4 B, SSW #3 B, NSW #2 B, FL #3 B, FL #2 B, NSW #1 B, and FL #1 B) were collected from the floor and sidewalls of the excavated area. The collected soil samples were submitted to an NMOCD-approved laboratory for analysis of TPH and/or chloride concentrations. Laboratory analytical results indicated TPH and chloride concentrations were below the NMOCD Closure Criteria in each of the submitted soil samples.

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

Concentrations of BTEX, TPH and/or Chloride in Soil - Confirmation Samples											
Sample ID	Date	Depth	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
NSW #1	7/12/19	0-1'	Excavated	<0.050	0.609	76.7	5,190.0	5,266.7	1,290	6,556.7	<16.0
NSW #2	7/12/19	0-1'	Excavated	<0.050	<0.300	<10.0	70.5	70.5	38.9	109.4	160
NSW #3	7/12/19	0-1'	Excavated	<0.050	<0.300	<10.0	109	109	39.5	148.5	352
NSW #4	7/12/19	0-1'	In-Situ	<0.050	<0.300	<10.0	25.3	25.3	17.3	42.6	32.0
NSW #5	7/12/19	0-1'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SSW #1	7/12/19	0-1'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SSW #2	7/12/19	0-1'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SSW #3	7/12/19	0-1'	Excavated	<0.050	<0.300	<10.0	393	393	579	972.0	240
SSW #4	7/12/19	0-1'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SSW #5	7/12/19	0-6"	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
WSW #1	7/12/19	0-6"	Excavated	<0.050	<0.300	<10.0	90.1	90.1	145	235.1	<16.0
ESW #1	7/12/19	0-1'	Excavated	<0.050	<0.300	<10.0	68.6	68.6	95.8	164.4	<16.0
V1-EH @ 1'	7/12/19	1'	Excavated	<0.050	<0.300	<10.0	1,420	1,420	2,136	3,556	32.0
Floor #1	7/12/19	1'	Excavated	<0.050	<0.300	<10.0	207.0	207.0	314	521	144
Floor #2	7/12/19	1'	Excavated	<0.050	<0.300	<10.0	1,440	1,440	1,982	3,422	32.0
Floor #3	7/12/19	1'	Excavated	<0.050	<0.300	<10.0	1,770	1,770	2,427	4,197	32.0
Floor #4	7/12/19	1'	Excavated	<0.050	<0.300	<10.0	764	764	1,102	1,866	352
Floor #5	7/12/19	1'	Excavated	<0.050	<0.300	<10.0	190	190	366	556	656
Floor #6	7/12/19	1'	Excavated	<0.050	<0.300	<10.0	165	165	243	408	240
Floor #7	7/12/19	6"	Excavated	<0.050	<0.300	<10.0	608	608	934	1,542	128
Floor #8	7/12/19	6"	Excavated	<0.050	<0.300	<10.0	873	873	1,237	2,110	1,360
Floor #9	7/12/19	6"	Excavated	<0.050	<0.300	<10.0	4,800	4,800	6,580	11,380	112
Floor #10	7/12/19	6"	Excavated	<0.050	0.514	36.1	2,780	2,816.1	3,605	6,421.1	112
Floor #11 @ 4'	7/12/19	4'	Excavated	<0.050	0.935	79.8	5,260	5,339.8	6,900	12,239.8	192
Floor #11 Stain	7/12/19	4'	Excavated	<0.050	4.09	571	11,500	12,071	14,961	27,032	<16.0
NSW a	7/12/19	6"-4'	Excavated	<0.050	<0.300	13.5	316.0	329.5	389	718.5	160
ESW a	7/12/19	6"-4'	Excavated	<0.050	<0.300	28.3	1,520	1,548.3	1,796	3,344.3	64.0
SSW a	7/12/19	6"-4'	Excavated	<0.050	<0.300	<10.0	699	699	842	1,541	336
WSW a	7/12/19	6"-4'	Excavated	<0.050	<0.300	13.1	1,520	1,533.1	1,963	3,496.1	176
NSW #1 B	7/29/19	0-2'	In-Situ	-	-	<10.0	<10.0	<10.0	<10.0	<10.0	-
NSW #2 B	7/29/19	0-2'	In-Situ	-	-	<10.0	<10.0	<10.0	<10.0	<10.0	-
NSW #3 B	7/29/19	0-2'	In-Situ	-	-	<10.0	<10.0	<10.0	<10.0	<10.0	-
SSW #3 B	7/29/19	0-2'	In-Situ	-	-	<10.0	<10.0	<10.0	<10.0	<10.0	-
WSW #1 B	7/29/19	0-1'	In-Situ	-	-	<10.0	<10.0	<10.0	<10.0	<10.0	-
WSW B	7/29/19	1'-6'	In-Situ	-	-	<10.0	<10.0	<10.0	<10.0	<10.0	-
NSW C	7/29/19	1'-6'	In-Situ	-	-	<10.0	<10.0	<10.0	<10.0	<10.0	-
ESW C	7/29/19	1'-6'	In-Situ	-	-	<10.0	<10.0	<10.0	<10.0	<10.0	-
SSW B	7/29/19	1'-6'	In-Situ	-	-	<10.0	<10.0	<10.0	<10.0	<10.0	-
FL #1 B	7/29/19	2'	In-Situ	-	-	<10.0	<10.0	<10.0	<10.0	<10.0	-
FL #2 B	7/29/19	2'	In-Situ	-	-	<10.0	11.8	11.8	<10.0	11.8	-
FL #3 B	7/29/19	2'	In-Situ	-	-	<10.0	<10.0	<10.0	<10.0	<10.0	-
FL #4 B	7/29/19	1'-2'	In-Situ	-	-	<10.0	<10.0	<10.0	<10.0	<10.0	-
FL #5 B	7/29/19	1'-2'	In-Situ	-	-	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
FL #6 B	7/29/19	1'	In-Situ	-	-	<10.0	<10.0	<10.0	<10.0	<10.0	-
FL #7 B	7/29/19	1'-2'	In-Situ	-	-	<10.0	<10.0	<10.0	<10.0	<10.0	-
FL #8 B	7/29/19	1'	In-Situ	-	-	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
FL #9 B	7/29/19	1'	In-Situ	-	-	<10.0	<10.0	<10.0	<10.0	<10.0	-
FL #10 B	7/29/19	1'	In-Situ	-	-	<10.0	<10.0	<10.0	<10.0	<10.0	-
FL #11 B	7/29/19	6'	In-Situ	-	-	<10.0	244	244	63.3	307.3	-
FL #11 Stain B	7/29/19	6'	In-Situ	-	-	<10.0	<10.0	<10.0	<10.0	<10.0	-
Closure Criteria				10	50	-	-	1,000	-	2,500	10,000

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SITE RESTORATION AND RE-VEGETATION PLAN

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

CLOSURE REQUEST

Remediation activities were conducted in accordance with an approved Proposed Remediation Plan. Impacted soil affected above the NMOCD Closure Criteria was excavated and transported to an NMOCD-approved disposal facility; impacted soil affected above the NMOCD Reclamation Standard present within the top 4 Ft. was excavated and transported to an NMOCD-approved disposal facility. Upon receiving laboratory analytical results from confirmation soil samples, the excavated areas were backfilled with locally sourced, non-impacted "like" material. Between July 10, and 31, 2019, approximately 504 cubic yards of impacted soil was transported to an NMOCD-approved facility for disposal. Prior to backfill, the final dimensions of the excavated were 350 Ft. in length, 90 ft. in width and 1 ft. in depth. The final dimensions of the excavated area characterized by sample point SP1 were approximately 130 ft. in length, 20 to 45 Ft. in width and 2 Ft. to 6 Ft. in depth.

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

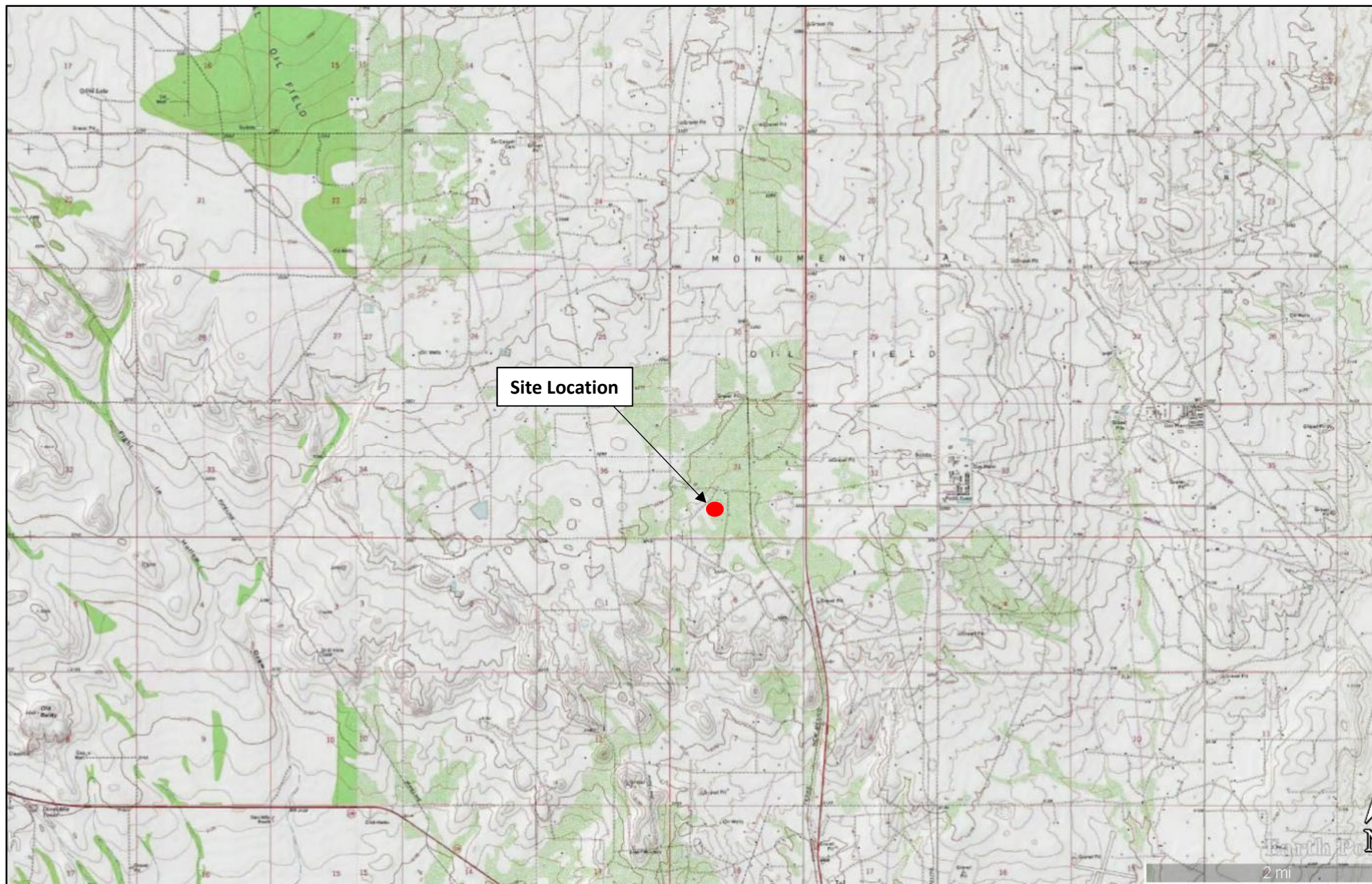
LIMITATIONS

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

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.
 2B Pipeline
 GPS: 32.16947, -103.20493
 Lea County, New Mexico

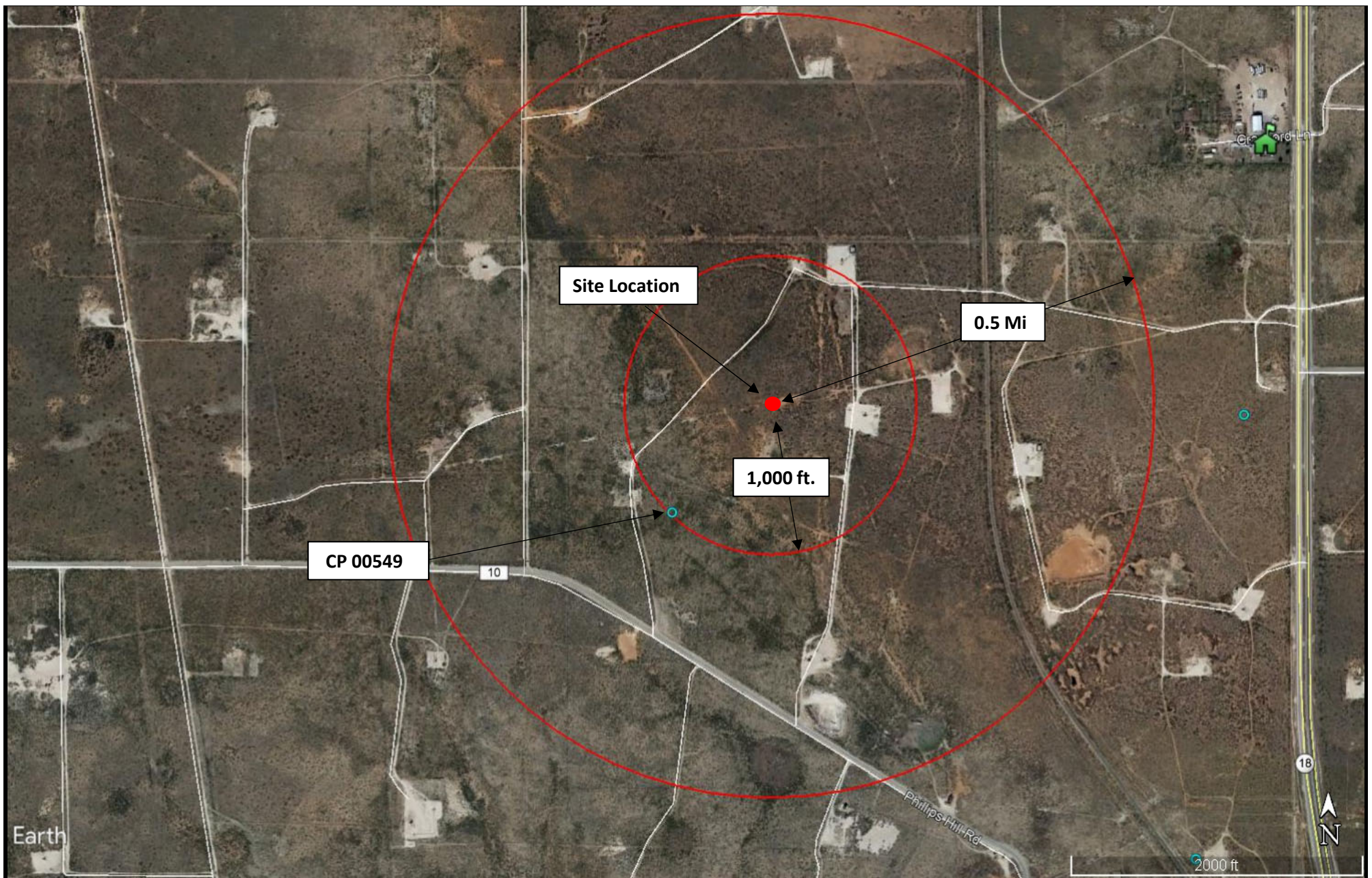


Drafted by: jwl

Checked by: client

Date: 12/27/2018

ATTACHMENT #2
Figure 2 - Aerial Map



LEGEND:

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



- Non-Industrial Building
- Subsurface Mine

Figure 2

Aerial Map

ETC Texas Pipeline, Ltd.

2B Pipeline

GPS: 32.16947, -103.20493

Lea County, New Mexico



Drafted by: jwl

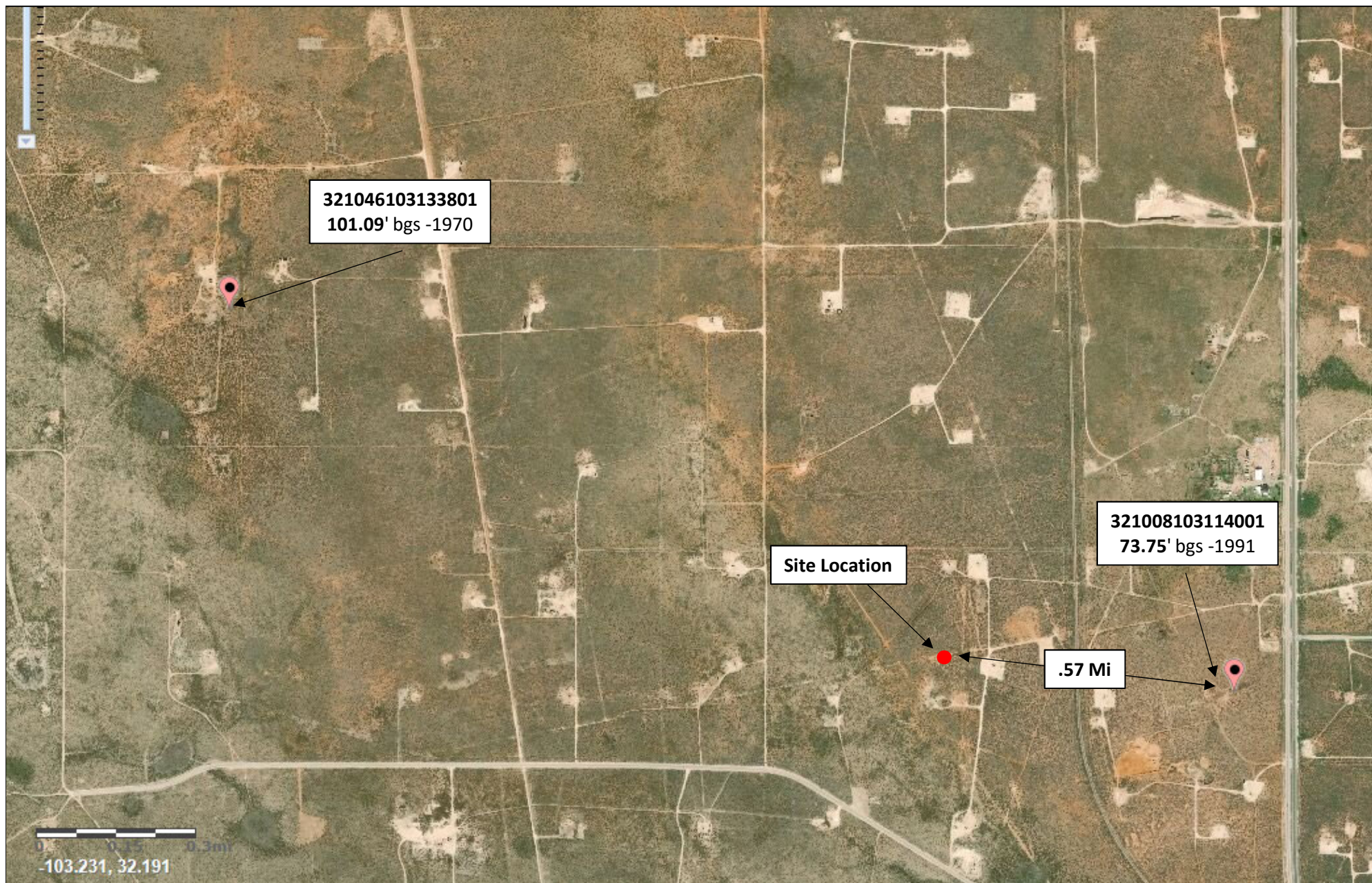
Checked by: client

Date: 12/27/2018

ATTACHMENT #3

Figure 3 - Site & Sample Location Map

ATTACHMENT #4
Depth to Groundwater Information



LEGEND:

● Site Location

Figure 4

USGS Well Proximity Map

ETC Texas Pipeline, Ltd.

2B Pipeline

GPS: 32.16947, -103.20493

Lea County, New Mexico



Drafted by: jwl

Checked by: client

Date: 12/27/2018



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

(R=POD has been replaced,

O=orphaned,

C=the file is closed)

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

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

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

Average Depth to Water: --

Minimum Depth: --

Maximum Depth: --

Record Count: 3

UTMNAD83 Radius Search (in meters):

Easting (X): 669253.4

Northing (Y): 3560632.3

Radius: 1608

*UTM location was derived from PLSS - see Help

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

12/6/18 4:11 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER



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USGS Water Resources

Data Category:

Groundwater

Geographic Area:

United States

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Groundwater levels for the Nation

Search Results -- 1 sites found

site_no list =

- 321008103114001

Minimum number of levels = 1

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

USGS 321008103114001 24S.37E.31.243442

Available data for this site

Groundwater: Field measurements

GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

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

Land-surface elevation 3,240 feet above NAVD88

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

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

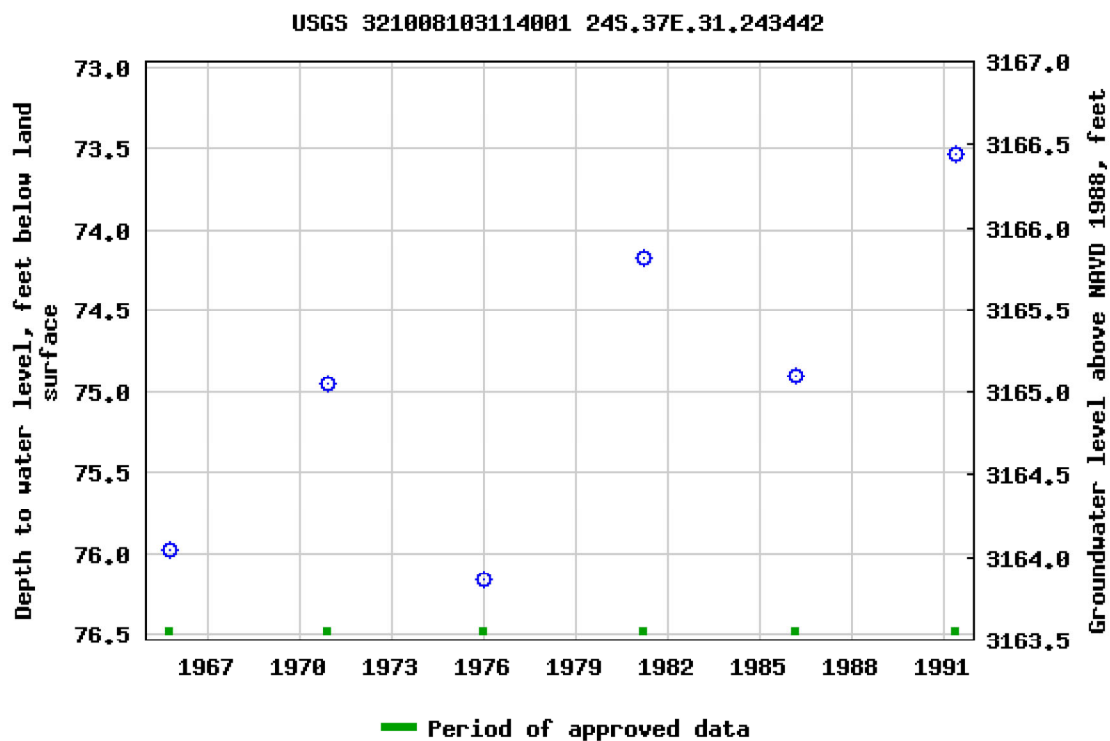
Output formats

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Breaks in the plot represent a gap of at least one year between field measurements.

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Title: Groundwater for USA: Water Levels

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



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

Page Last Modified: 2018-12-06 18:07:52 EST

1.07 0.98 nadww01



[USGS Home](#)
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National Water Information System: Web Interface

[USGS Water Resources](#)

Data Category:

Groundwater

Geographic Area:

United States

GO

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Groundwater levels for the Nation

Search Results -- 1 sites found

site_no list =

- 321046103133801

Minimum number of levels = 1

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

USGS 321046103133801 24S.36E.26.44223

Available data for this site

Groundwater: Field measurements

GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

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

Land-surface elevation 3,277 feet above NAVD88

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

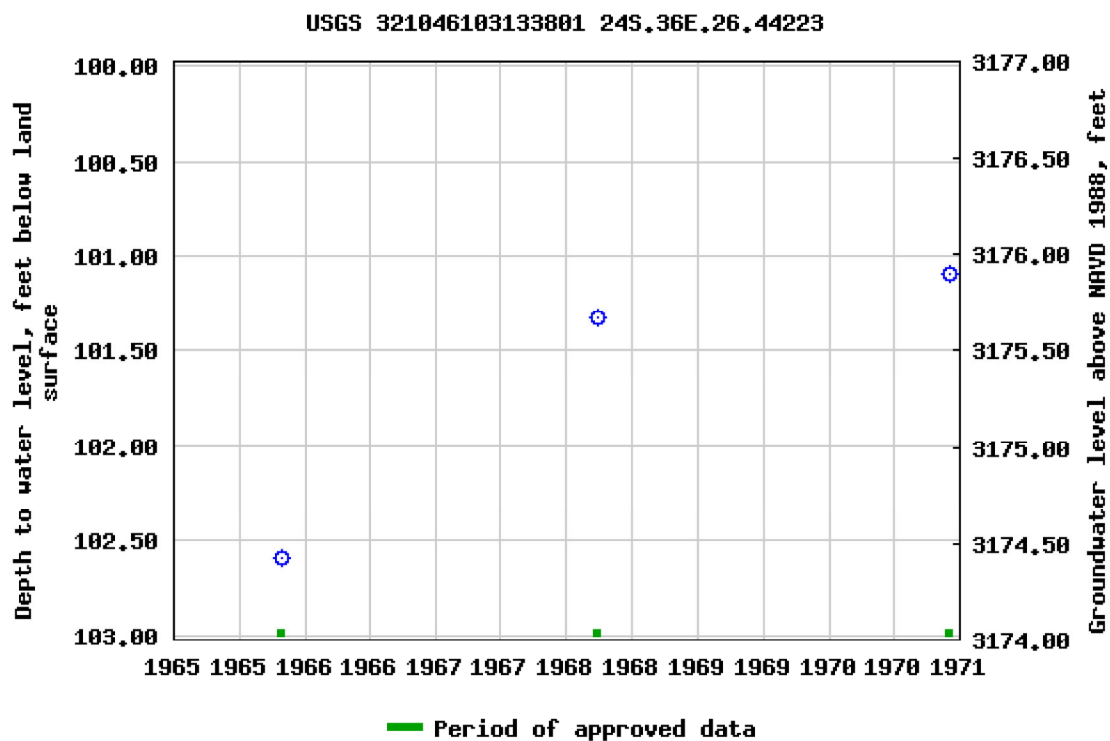
Output formats

[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](#)

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Title: Groundwater for USA: Water Levels

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



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


Page Last Modified: 2018-12-06 18:08:47 EST

1.64 0.98 nadww01



New Mexico Office of the State Engineer

Point of Diversion Summary

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

*UTM location was derived from PLSS - see Help

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

12/6/18 4:18 PM

POINT OF DIVERSION SUMMARY

ATTACHMENT #5
Soil Profile

SOIL PROFILE

Site Name: 2B Pipeline

Date: 12/12/18

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

TD

ATTACHMENT #6
Laboratory Analytical Reports



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

November 05, 2018

DEAN ERICSON

ENERGY TRANSFER

P. O. BOX 1226

JAL, NM 88252

RE: 2B

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

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

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

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

Sample ID: V1 1" (H803159-01)

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

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

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

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

Surrogate: 1-Chlorooctane 139 % 41-142

Surrogate: 1-Chlorooctadecane 294 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

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

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

Sample ID: V2 6" (H803159-02)

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

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/05/2018	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/03/2018	ND	218	109	200	8.04	
DRO >C10-C28*	72.5	10.0	11/03/2018	ND	224	112	200	4.73	
EXT DRO >C28-C36	39.5	10.0	11/03/2018	ND					

Surrogate: 1-Chlorooctane 104 % 41-142

Surrogate: 1-Chlorooctadecane 103 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

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

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

Sample ID: V3 8" (H803159-03)

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

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/05/2018	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/03/2018	ND	218	109	200	8.04	
DRO >C10-C28*	<10.0	10.0	11/03/2018	ND	224	112	200	4.73	
EXT DRO >C28-C36	<10.0	10.0	11/03/2018	ND					

Surrogate: 1-Chlorooctane 94.5 % 41-142

Surrogate: 1-Chlorooctadecane 88.5 % 37.6-147

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

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

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

Sample ID: V4 1' (H803159-04)

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

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/05/2018	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/03/2018	ND	218	109	200	8.04	
DRO >C10-C28*	778	10.0	11/03/2018	ND	224	112	200	4.73	
EXT DRO >C28-C36	185	10.0	11/03/2018	ND					

Surrogate: 1-Chlorooctane 103 % 41-142

Surrogate: 1-Chlorooctadecane 134 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

[illegible]

December 13, 2018

JOEL LOWRY

ENERGY TRANSFER

P. O. BOX 1226

JAL, NM 88252

RE: 2B PIPELINE

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

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

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

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

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

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

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/13/2018	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/13/2018	ND	208	104	200	0.863	
DRO >C10-C28*	23.3	10.0	12/13/2018	ND	216	108	200	1.87	
EXT DRO >C28-C36	<10.0	10.0	12/13/2018	ND					

Surrogate: 1-Chlorooctane 111 % 41-142

Surrogate: 1-Chlorooctadecane 132 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

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

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

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

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

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/13/2018	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2018	ND	186	93.2	200	0.167	
DRO >C10-C28*	<10.0	10.0	12/12/2018	ND	198	99.0	200	2.34	
EXT DRO >C28-C36	<10.0	10.0	12/12/2018	ND					

Surrogate: 1-Chlorooctane 93.5 % 41-142

Surrogate: 1-Chlorooctadecane 86.1 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

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

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

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

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

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/13/2018	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2018	ND	186	93.2	200	0.167	
DRO >C10-C28*	<10.0	10.0	12/12/2018	ND	198	99.0	200	2.34	
EXT DRO >C28-C36	<10.0	10.0	12/12/2018	ND					

Surrogate: 1-Chlorooctane 90.2 % 41-142

Surrogate: 1-Chlorooctadecane 84.3 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

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

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

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

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

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/13/2018	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2018	ND	186	93.2	200	0.167	
DRO >C10-C28*	<10.0	10.0	12/12/2018	ND	198	99.0	200	2.34	
EXT DRO >C28-C36	<10.0	10.0	12/12/2018	ND					

Surrogate: 1-Chlorooctane 95.1 % 41-142

Surrogate: 1-Chlorooctadecane 88.3 % 37.6-147

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Analytical Results For:

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

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

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

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

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

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/13/2018	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2018	ND	186	93.2	200	0.167	
DRO >C10-C28*	<10.0	10.0	12/12/2018	ND	198	99.0	200	2.34	
EXT DRO >C28-C36	<10.0	10.0	12/12/2018	ND					

Surrogate: 1-Chlorooctane 91.9 % 41-142

Surrogate: 1-Chlorooctadecane 85.9 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

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

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

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

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

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/13/2018	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2018	ND	186	93.2	200	0.167	
DRO >C10-C28*	<10.0	10.0	12/12/2018	ND	198	99.0	200	2.34	
EXT DRO >C28-C36	<10.0	10.0	12/12/2018	ND					

Surrogate: 1-Chlorooctane 86.6 % 41-142

Surrogate: 1-Chlorooctadecane 85.6 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

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

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

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

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

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	12/13/2018	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2018	ND	186	93.2	200	0.167	
DRO >C10-C28*	<10.0	10.0	12/12/2018	ND	198	99.0	200	2.34	
EXT DRO >C28-C36	<10.0	10.0	12/12/2018	ND					

Surrogate: 1-Chlorooctane 89.3 % 41-142

Surrogate: 1-Chlorooctadecane 87.8 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

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

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

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

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

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	12/13/2018	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2018	ND	186	93.2	200	0.167	
DRO >C10-C28*	189	10.0	12/12/2018	ND	198	99.0	200	2.34	
EXT DRO >C28-C36	53.2	10.0	12/12/2018	ND					

Surrogate: 1-Chlorooctane 89.0 % 41-142

Surrogate: 1-Chlorooctadecane 96.0 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

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

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

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

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

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/13/2018	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2018	ND	186	93.2	200	0.167	
DRO >C10-C28*	<10.0	10.0	12/12/2018	ND	198	99.0	200	2.34	
EXT DRO >C28-C36	<10.0	10.0	12/12/2018	ND					

Surrogate: 1-Chlorooctane 88.1 % 41-142

Surrogate: 1-Chlorooctadecane 89.9 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

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

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

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

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

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/13/2018	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2018	ND	186	93.2	200	0.167	
DRO >C10-C28*	<10.0	10.0	12/12/2018	ND	198	99.0	200	2.34	
EXT DRO >C28-C36	<10.0	10.0	12/12/2018	ND					

Surrogate: 1-Chlorooctane 86.8 % 41-142

Surrogate: 1-Chlorooctadecane 87.5 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

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

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

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

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/13/2018	ND	2.41	120	2.00	1.84	
Toluene*	<0.050	0.050	12/13/2018	ND	2.35	117	2.00	0.417	
Ethylbenzene*	0.075	0.050	12/13/2018	ND	2.29	114	2.00	1.52	
Total Xylenes*	0.289	0.150	12/13/2018	ND	6.93	116	6.00	1.77	
Total BTEX	0.364	0.300	12/13/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/13/2018	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	12.4	10.0	12/12/2018	ND	186	93.2	200	0.167	
DRO >C10-C28*	204	10.0	12/12/2018	ND	198	99.0	200	2.34	
EXT DRO >C28-C36	15.8	10.0	12/12/2018	ND					

Surrogate: 1-Chlorooctane 87.7 % 41-142

Surrogate: 1-Chlorooctadecane 94.0 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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

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Celey D. Keene, Lab Director/Quality Manager

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

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

$$2 + c2$$

July 17, 2019

JOEL LOWRY

ENERGY TRANSFER

P. O. BOX 1226

JAL, NM 88252

RE: 2B PIPELINE

Enclosed are the results of analyses for samples received by the laboratory on 07/15/19 14:12.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received: 07/15/2019
Reported: 07/17/2019
Project Name: 2B PIPELINE
Project Number: NONE GIVEN
Project Location: LEA COUNTY, NM

Sampling Date: 07/12/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: NSW # 1 (H902420-01)

BTX 8021B		mg/kg	Analyzed By: ms					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/17/2019	ND	2.03	101	2.00	0.449	
Toluene*	<0.050	0.050	07/17/2019	ND	2.00	100	2.00	2.41	
Ethylbenzene*	0.406	0.050	07/17/2019	ND	1.90	95.1	2.00	1.51	
Total Xylenes*	0.203	0.150	07/17/2019	ND	5.82	97.0	6.00	0.454	
Total BTX	0.609	0.300	07/17/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 142 % 73.3-129

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/16/2019	ND	448	112	400	3.64	

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*	76.7	50.0	07/16/2019	ND	199	99.4	200	3.66	
DRO >C10-C28*	5190	50.0	07/16/2019	ND	218	109	200	2.06	
EXT DRO >C28-C36	1290	50.0	07/16/2019	ND					

Surrogate: 1-Chlorooctane 76.9 % 41-142

Surrogate: 1-Chlorooctadecane 190 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 07/15/2019
Reported: 07/17/2019
Project Name: 2B PIPELINE
Project Number: NONE GIVEN
Project Location: LEA COUNTY, NM

Sampling Date: 07/12/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: NSW # 2 (H902420-02)

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	07/17/2019	ND	2.03	101	2.00	0.449	
Toluene*	<0.050	0.050	07/17/2019	ND	2.00	100	2.00	2.41	
Ethylbenzene*	<0.050	0.050	07/17/2019	ND	1.90	95.1	2.00	1.51	
Total Xylenes*	<0.150	0.150	07/17/2019	ND	5.82	97.0	6.00	0.454	
Total BTEx	<0.300	0.300	07/17/2019	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/16/2019	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2019	ND	199	99.4	200	3.66	
DRO >C10-C28*	70.5	10.0	07/16/2019	ND	218	109	200	2.06	
EXT DRO >C28-C36	38.9	10.0	07/16/2019	ND					

Surrogate: 1-Chlorooctane 60.7 % 41-142

Surrogate: 1-Chlorooctadecane 76.1 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 07/15/2019
Reported: 07/17/2019
Project Name: 2B PIPELINE
Project Number: NONE GIVEN
Project Location: LEA COUNTY, NM

Sampling Date: 07/12/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: NSW # 3 (H902420-03)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/17/2019	ND	2.03	101	2.00	0.449	
Toluene*	<0.050	0.050	07/17/2019	ND	2.00	100	2.00	2.41	
Ethylbenzene*	<0.050	0.050	07/17/2019	ND	1.90	95.1	2.00	1.51	
Total Xylenes*	<0.150	0.150	07/17/2019	ND	5.82	97.0	6.00	0.454	
Total BTX	<0.300	0.300	07/17/2019	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	07/16/2019	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2019	ND	199	99.4	200	3.66	
DRO >C10-C28*	109	10.0	07/16/2019	ND	218	109	200	2.06	
EXT DRO >C28-C36	39.5	10.0	07/16/2019	ND					

Surrogate: 1-Chlorooctane 61.8 % 41-142

Surrogate: 1-Chlorooctadecane 81.8 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 07/15/2019
Reported: 07/17/2019
Project Name: 2B PIPELINE
Project Number: NONE GIVEN
Project Location: LEA COUNTY, NM

Sampling Date: 07/12/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: NSW # 4 (H902420-04)

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/17/2019	ND	2.03	101	2.00	0.449	
Toluene*	<0.050	0.050	07/17/2019	ND	2.00	100	2.00	2.41	
Ethylbenzene*	<0.050	0.050	07/17/2019	ND	1.90	95.1	2.00	1.51	
Total Xylenes*	<0.150	0.150	07/17/2019	ND	5.82	97.0	6.00	0.454	
Total BTEx	<0.300	0.300	07/17/2019	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	07/16/2019	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2019	ND	199	99.4	200	3.66	
DRO >C10-C28*	25.3	10.0	07/16/2019	ND	218	109	200	2.06	
EXT DRO >C28-C36	17.3	10.0	07/16/2019	ND					

Surrogate: 1-Chlorooctane 71.9 % 41-142

Surrogate: 1-Chlorooctadecane 77.9 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 07/15/2019
Reported: 07/17/2019
Project Name: 2B PIPELINE
Project Number: NONE GIVEN
Project Location: LEA COUNTY, NM

Sampling Date: 07/12/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: NSW # 5 (H902420-05)

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/17/2019	ND	2.03	101	2.00	0.449	
Toluene*	<0.050	0.050	07/17/2019	ND	2.00	100	2.00	2.41	
Ethylbenzene*	<0.050	0.050	07/17/2019	ND	1.90	95.1	2.00	1.51	
Total Xylenes*	<0.150	0.150	07/17/2019	ND	5.82	97.0	6.00	0.454	
Total BTEx	<0.300	0.300	07/17/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/16/2019	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2019	ND	199	99.4	200	3.66	
DRO >C10-C28*	<10.0	10.0	07/16/2019	ND	218	109	200	2.06	
EXT DRO >C28-C36	<10.0	10.0	07/16/2019	ND					

Surrogate: 1-Chlorooctane 69.0 % 41-142

Surrogate: 1-Chlorooctadecane 76.0 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 07/15/2019
Reported: 07/17/2019
Project Name: 2B PIPELINE
Project Number: NONE GIVEN
Project Location: LEA COUNTY, NM

Sampling Date: 07/12/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SSW # 1 (H902420-06)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/17/2019	ND	2.03	101	2.00	0.449	
Toluene*	<0.050	0.050	07/17/2019	ND	2.00	100	2.00	2.41	
Ethylbenzene*	<0.050	0.050	07/17/2019	ND	1.90	95.1	2.00	1.51	
Total Xylenes*	<0.150	0.150	07/17/2019	ND	5.82	97.0	6.00	0.454	
Total BTX	<0.300	0.300	07/17/2019	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/16/2019	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2019	ND	190	95.1	200	0.351	
DRO >C10-C28*	<10.0	10.0	07/16/2019	ND	189	94.6	200	4.27	
EXT DRO >C28-C36	<10.0	10.0	07/16/2019	ND					

Surrogate: 1-Chlorooctane 72.0 % 41-142

Surrogate: 1-Chlorooctadecane 77.5 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 07/15/2019
Reported: 07/17/2019
Project Name: 2B PIPELINE
Project Number: NONE GIVEN
Project Location: LEA COUNTY, NM

Sampling Date: 07/12/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SSW # 2 (H902420-07)

BTEx 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/17/2019	ND	2.03	101	2.00	0.449		
Toluene*	<0.050	0.050	07/17/2019	ND	2.00	100	2.00	2.41		
Ethylbenzene*	<0.050	0.050	07/17/2019	ND	1.90	95.1	2.00	1.51		
Total Xylenes*	<0.150	0.150	07/17/2019	ND	5.82	97.0	6.00	0.454		
Total BTEx	<0.300	0.300	07/17/2019	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/16/2019	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2019	ND	190	95.1	200	0.351	
DRO >C10-C28*	<10.0	10.0	07/16/2019	ND	189	94.6	200	4.27	
EXT DRO >C28-C36	<10.0	10.0	07/16/2019	ND					

Surrogate: 1-Chlorooctane 73.5 % 41-142

Surrogate: 1-Chlorooctadecane 78.3 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 07/15/2019
Reported: 07/17/2019
Project Name: 2B PIPELINE
Project Number: NONE GIVEN
Project Location: LEA COUNTY, NM

Sampling Date: 07/12/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SSW # 3 (H902420-08)

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	07/17/2019	ND	2.03	101	2.00	0.449	
Toluene*	<0.050	0.050	07/17/2019	ND	2.00	100	2.00	2.41	
Ethylbenzene*	<0.050	0.050	07/17/2019	ND	1.90	95.1	2.00	1.51	
Total Xylenes*	<0.150	0.150	07/17/2019	ND	5.82	97.0	6.00	0.454	
Total BTEX	<0.300	0.300	07/17/2019	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	07/16/2019	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2019	ND	190	95.1	200	0.351	
DRO >C10-C28*	393	10.0	07/16/2019	ND	189	94.6	200	4.27	
EXT DRO >C28-C36	186	10.0	07/16/2019	ND					

Surrogate: 1-Chlorooctane 73.4 % 41-142

Surrogate: 1-Chlorooctadecane 84.8 % 37.6-147

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Analytical Results For:

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

Received: 07/15/2019
Reported: 07/17/2019
Project Name: 2B PIPELINE
Project Number: NONE GIVEN
Project Location: LEA COUNTY, NM

Sampling Date: 07/12/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SSW # 4 (H902420-09)

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	07/16/2019	ND	2.01	100	2.00	3.72	
Toluene*	<0.050	0.050	07/16/2019	ND	2.02	101	2.00	3.13	
Ethylbenzene*	<0.050	0.050	07/16/2019	ND	1.92	95.8	2.00	3.53	
Total Xylenes*	<0.150	0.150	07/16/2019	ND	5.91	98.5	6.00	3.56	
Total BTEX	<0.300	0.300	07/16/2019	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/16/2019	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2019	ND	190	95.1	200	0.351	
DRO >C10-C28*	<10.0	10.0	07/16/2019	ND	189	94.6	200	4.27	
EXT DRO >C28-C36	<10.0	10.0	07/16/2019	ND					

Surrogate: 1-Chlorooctane 73.2 % 41-142

Surrogate: 1-Chlorooctadecane 78.1 % 37.6-147

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Analytical Results For:

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

Received: 07/15/2019
Reported: 07/17/2019
Project Name: 2B PIPELINE
Project Number: NONE GIVEN
Project Location: LEA COUNTY, NM

Sampling Date: 07/12/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SSW # 5 (H902420-10)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2019	ND	2.01	100	2.00	3.72	
Toluene*	<0.050	0.050	07/16/2019	ND	2.02	101	2.00	3.13	
Ethylbenzene*	<0.050	0.050	07/16/2019	ND	1.92	95.8	2.00	3.53	
Total Xylenes*	<0.150	0.150	07/16/2019	ND	5.91	98.5	6.00	3.56	
Total BTX	<0.300	0.300	07/16/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/16/2019	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2019	ND	204	102	200	0.980	
DRO >C10-C28*	<10.0	10.0	07/16/2019	ND	211	106	200	4.39	
EXT DRO >C28-C36	<10.0	10.0	07/16/2019	ND					

Surrogate: 1-Chlorooctane 100 % 41-142

Surrogate: 1-Chlorooctadecane 102 % 37.6-147

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Analytical Results For:

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

Received: 07/15/2019
Reported: 07/17/2019
Project Name: 2B PIPELINE
Project Number: NONE GIVEN
Project Location: LEA COUNTY, NM

Sampling Date: 07/12/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: WSW # 1 (H902420-11)

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2019	ND	2.01	100	2.00	3.72	
Toluene*	<0.050	0.050	07/16/2019	ND	2.02	101	2.00	3.13	
Ethylbenzene*	<0.050	0.050	07/16/2019	ND	1.92	95.8	2.00	3.53	
Total Xylenes*	<0.150	0.150	07/16/2019	ND	5.91	98.5	6.00	3.56	
Total BTEX	<0.300	0.300	07/16/2019	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/16/2019	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2019	ND	204	102	200	0.980	
DRO >C10-C28*	90.1	10.0	07/16/2019	ND	211	106	200	4.39	
EXT DRO >C28-C36	54.6	10.0	07/16/2019	ND					

Surrogate: 1-Chlorooctane 99.7 % 41-142

Surrogate: 1-Chlorooctadecane 111 % 37.6-147

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

Received: 07/15/2019
Reported: 07/17/2019
Project Name: 2B PIPELINE
Project Number: NONE GIVEN
Project Location: LEA COUNTY, NM

Sampling Date: 07/12/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: ESW # 1 (H902420-12)

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2019	ND	2.01	100	2.00	3.72	
Toluene*	<0.050	0.050	07/16/2019	ND	2.02	101	2.00	3.13	
Ethylbenzene*	<0.050	0.050	07/16/2019	ND	1.92	95.8	2.00	3.53	
Total Xylenes*	<0.150	0.150	07/16/2019	ND	5.91	98.5	6.00	3.56	
Total BTEX	<0.300	0.300	07/16/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/16/2019	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2019	ND	204	102	200	0.980	
DRO >C10-C28*	68.6	10.0	07/16/2019	ND	211	106	200	4.39	
EXT DRO >C28-C36	27.2	10.0	07/16/2019	ND					

Surrogate: 1-Chlorooctane 100 % 41-142

Surrogate: 1-Chlorooctadecane 108 % 37.6-147

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Analytical Results For:

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

Received: 07/15/2019
Reported: 07/17/2019
Project Name: 2B PIPELINE
Project Number: NONE GIVEN
Project Location: LEA COUNTY, NM

Sampling Date: 07/12/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: V2 @ 6 - EH @ 1' (H902420-13)

BTEx 8021B			mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/16/2019	ND	2.01	100	2.00	3.72		
Toluene*	<0.050	0.050	07/16/2019	ND	2.02	101	2.00	3.13		
Ethylbenzene*	<0.050	0.050	07/16/2019	ND	1.92	95.8	2.00	3.53		
Total Xylenes*	<0.150	0.150	07/16/2019	ND	5.91	98.5	6.00	3.56		
Total BTEx	<0.300	0.300	07/16/2019	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/16/2019	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2019	ND	204	102	200	0.980	
DRO >C10-C28*	1420	10.0	07/17/2019	ND	211	106	200	4.39	
EXT DRO >C28-C36	716	10.0	07/17/2019	ND					

Surrogate: 1-Chlorooctane 90.7 % 41-142

Surrogate: 1-Chlorooctadecane 138 % 37.6-147

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Analytical Results For:

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

Received: 07/15/2019
Reported: 07/17/2019
Project Name: 2B PIPELINE
Project Number: NONE GIVEN
Project Location: LEA COUNTY, NM

Sampling Date: 07/12/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FLOOR # 1 (H902420-14)

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	07/16/2019	ND	2.01	100	2.00	3.72	
Toluene*	<0.050	0.050	07/16/2019	ND	2.02	101	2.00	3.13	
Ethylbenzene*	<0.050	0.050	07/16/2019	ND	1.92	95.8	2.00	3.53	
Total Xylenes*	<0.150	0.150	07/16/2019	ND	5.91	98.5	6.00	3.56	
Total BTEX	<0.300	0.300	07/16/2019	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	144	16.0	07/16/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2019	ND	204	102	200	0.980	
DRO >C10-C28*	207	10.0	07/16/2019	ND	211	106	200	4.39	
EXT DRO >C28-C36	107	10.0	07/16/2019	ND					

Surrogate: 1-Chlorooctane 98.5 % 41-142

Surrogate: 1-Chlorooctadecane 121 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 07/15/2019
Reported: 07/17/2019
Project Name: 2B PIPELINE
Project Number: NONE GIVEN
Project Location: LEA COUNTY, NM

Sampling Date: 07/12/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FLOOR # 2 (H902420-15)

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	07/16/2019	ND	2.01	100	2.00	3.72	
Toluene*	<0.050	0.050	07/16/2019	ND	2.02	101	2.00	3.13	
Ethylbenzene*	<0.050	0.050	07/16/2019	ND	1.92	95.8	2.00	3.53	
Total Xylenes*	<0.150	0.150	07/16/2019	ND	5.91	98.5	6.00	3.56	
Total BTEX	<0.300	0.300	07/16/2019	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/16/2019	ND	432	108	400	0.00	

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*	<10.0	10.0	07/16/2019	ND	204	102	200	0.980	
DRO >C10-C28*	1440	10.0	07/16/2019	ND	211	106	200	4.39	
EXT DRO >C28-C36	542	10.0	07/16/2019	ND					

Surrogate: 1-Chlorooctane 96.0 % 41-142

Surrogate: 1-Chlorooctadecane 161 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 07/15/2019
Reported: 07/17/2019
Project Name: 2B PIPELINE
Project Number: NONE GIVEN
Project Location: LEA COUNTY, NM

Sampling Date: 07/12/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FLOOR # 3 (H902420-16)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2019	ND	2.01	100	2.00	3.72	
Toluene*	<0.050	0.050	07/16/2019	ND	2.02	101	2.00	3.13	
Ethylbenzene*	<0.050	0.050	07/16/2019	ND	1.92	95.8	2.00	3.53	
Total Xylenes*	<0.150	0.150	07/16/2019	ND	5.91	98.5	6.00	3.56	
Total BTX	<0.300	0.300	07/16/2019	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	07/16/2019	ND	432	108	400	0.00		

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*	<10.0	10.0	07/16/2019	ND	204	102	200	0.980	
DRO >C10-C28*	1770	10.0	07/16/2019	ND	211	106	200	4.39	
EXT DRO >C28-C36	657	10.0	07/16/2019	ND					

Surrogate: 1-Chlorooctane 90.4 % 41-142

Surrogate: 1-Chlorooctadecane 154 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 07/15/2019
Reported: 07/17/2019
Project Name: 2B PIPELINE
Project Number: NONE GIVEN
Project Location: LEA COUNTY, NM

Sampling Date: 07/12/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FLOOR # 4 (H902420-17)

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2019	ND	2.01	100	2.00	3.72	
Toluene*	<0.050	0.050	07/16/2019	ND	2.02	101	2.00	3.13	
Ethylbenzene*	<0.050	0.050	07/16/2019	ND	1.92	95.8	2.00	3.53	
Total Xylenes*	<0.150	0.150	07/16/2019	ND	5.91	98.5	6.00	3.56	
Total BTEX	<0.300	0.300	07/16/2019	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	07/16/2019	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2019	ND	204	102	200	0.980	
DRO >C10-C28*	764	10.0	07/16/2019	ND	211	106	200	4.39	
EXT DRO >C28-C36	338	10.0	07/16/2019	ND					

Surrogate: 1-Chlorooctane 93.1 % 41-142

Surrogate: 1-Chlorooctadecane 142 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 07/15/2019
Reported: 07/17/2019
Project Name: 2B PIPELINE
Project Number: NONE GIVEN
Project Location: LEA COUNTY, NM

Sampling Date: 07/12/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FLOOR # 5 (H902420-18)

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2019	ND	2.01	100	2.00	3.72	
Toluene*	<0.050	0.050	07/16/2019	ND	2.02	101	2.00	3.13	
Ethylbenzene*	<0.050	0.050	07/16/2019	ND	1.92	95.8	2.00	3.53	
Total Xylenes*	<0.150	0.150	07/16/2019	ND	5.91	98.5	6.00	3.56	
Total BTEX	<0.300	0.300	07/16/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	656	16.0	07/16/2019	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2019	ND	204	102	200	0.980	
DRO >C10-C28*	190	10.0	07/16/2019	ND	211	106	200	4.39	
EXT DRO >C28-C36	75.6	10.0	07/16/2019	ND					

Surrogate: 1-Chlorooctane 95.9 % 41-142

Surrogate: 1-Chlorooctadecane 110 % 37.6-147

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Analytical Results For:

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

Received: 07/15/2019
Reported: 07/17/2019
Project Name: 2B PIPELINE
Project Number: NONE GIVEN
Project Location: LEA COUNTY, NM

Sampling Date: 07/12/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FLOOR # 6 (H902420-19)

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	07/16/2019	ND	2.01	100	2.00	3.72	
Toluene*	<0.050	0.050	07/16/2019	ND	2.02	101	2.00	3.13	
Ethylbenzene*	<0.050	0.050	07/16/2019	ND	1.92	95.8	2.00	3.53	
Total Xylenes*	<0.150	0.150	07/16/2019	ND	5.91	98.5	6.00	3.56	
Total BTEX	<0.300	0.300	07/16/2019	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	240	16.0	07/16/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2019	ND	204	102	200	0.980	
DRO >C10-C28*	165	10.0	07/16/2019	ND	211	106	200	4.39	
EXT DRO >C28-C36	78.0	10.0	07/16/2019	ND					

Surrogate: 1-Chlorooctane 99.0 % 41-142

Surrogate: 1-Chlorooctadecane 111 % 37.6-147

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Analytical Results For:

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

Received: 07/15/2019
Reported: 07/17/2019
Project Name: 2B PIPELINE
Project Number: NONE GIVEN
Project Location: LEA COUNTY, NM

Sampling Date: 07/12/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FLOOR # 7 (H902420-20)

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	07/16/2019	ND	2.01	100	2.00	3.72	
Toluene*	<0.050	0.050	07/16/2019	ND	2.02	101	2.00	3.13	
Ethylbenzene*	<0.050	0.050	07/16/2019	ND	1.92	95.8	2.00	3.53	
Total Xylenes*	<0.150	0.150	07/16/2019	ND	5.91	98.5	6.00	3.56	
Total BTEX	<0.300	0.300	07/16/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 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	07/16/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2019	ND	204	102	200	0.980	
DRO >C10-C28*	608	10.0	07/16/2019	ND	211	106	200	4.39	
EXT DRO >C28-C36	326	10.0	07/16/2019	ND					

Surrogate: 1-Chlorooctane 96.2 % 41-142

Surrogate: 1-Chlorooctadecane 129 % 37.6-147

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Analytical Results For:

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

 Received: 07/15/2019
 Reported: 07/17/2019
 Project Name: 2B PIPELINE
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY, NM

 Sampling Date: 07/12/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FLOOR # 8 (H902420-21)

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	07/16/2019	ND	2.01	100	2.00	3.72		
Toluene*	<0.050	0.050	07/16/2019	ND	2.02	101	2.00	3.13		
Ethylbenzene*	<0.050	0.050	07/16/2019	ND	1.92	95.8	2.00	3.53		
Total Xylenes*	<0.150	0.150	07/16/2019	ND	5.91	98.5	6.00	3.56		
Total BTEX	<0.300	0.300	07/16/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 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	1360	16.0	07/16/2019	ND	432	108	400	0.00		

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*	<10.0	10.0	07/16/2019	ND	204	102	200	0.980	
DRO >C10-C28*	873	10.0	07/16/2019	ND	211	106	200	4.39	
EXT DRO >C28-C36	364	10.0	07/16/2019	ND					

Surrogate: 1-Chlorooctane 147 % 41-142

Surrogate: 1-Chlorooctadecane 205 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 07/15/2019
Reported: 07/17/2019
Project Name: 2B PIPELINE
Project Number: NONE GIVEN
Project Location: LEA COUNTY, NM

Sampling Date: 07/12/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FLOOR # 9 (H902420-22)

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	07/16/2019	ND	2.01	100	2.00	3.72	
Toluene*	<0.050	0.050	07/16/2019	ND	2.02	101	2.00	3.13	
Ethylbenzene*	<0.050	0.050	07/16/2019	ND	1.92	95.8	2.00	3.53	
Total Xylenes*	<0.150	0.150	07/16/2019	ND	5.91	98.5	6.00	3.56	
Total BTEX	<0.300	0.300	07/16/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 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	07/16/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	07/16/2019	ND	204	102	200	0.980	
DRO >C10-C28*	4800	50.0	07/16/2019	ND	211	106	200	4.39	
EXT DRO >C28-C36	1780	50.0	07/16/2019	ND					

Surrogate: 1-Chlorooctane 128 % 41-142

Surrogate: 1-Chlorooctadecane 316 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 07/15/2019
Reported: 07/17/2019
Project Name: 2B PIPELINE
Project Number: NONE GIVEN
Project Location: LEA COUNTY, NM

Sampling Date: 07/12/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FLOOR # 10 (H902420-23)

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	07/16/2019	ND	2.01	100	2.00	3.72	
Toluene*	<0.050	0.050	07/16/2019	ND	2.02	101	2.00	3.13	
Ethylbenzene*	0.075	0.050	07/16/2019	ND	1.92	95.8	2.00	3.53	
Total Xylenes*	0.440	0.150	07/16/2019	ND	5.91	98.5	6.00	3.56	
Total BTEX	0.514	0.300	07/16/2019	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	07/16/2019	ND	432	108	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	36.1	10.0	07/16/2019	ND	204	102	200	0.980	
DRO >C10-C28*	2780	10.0	07/16/2019	ND	211	106	200	4.39	
EXT DRO >C28-C36	789	10.0	07/16/2019	ND					

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	36.1	10.0	07/16/2019	ND	204	102	200	0.980	
DRO >C10-C28*	2780	10.0	07/16/2019	ND	211	106	200	4.39	
EXT DRO >C28-C36	789	10.0	07/16/2019	ND					

Surrogate: 1-Chlorooctane 126 % 41-142

Surrogate: 1-Chlorooctadecane 215 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 07/15/2019
Reported: 07/17/2019
Project Name: 2B PIPELINE
Project Number: NONE GIVEN
Project Location: LEA COUNTY, NM

Sampling Date: 07/12/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FLOOR # 11 @ 4' (H902420-24)

BTX 8021B		mg/kg	Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/17/2019	ND	2.01	100	2.00	3.72	
Toluene*	<0.050	0.050	07/17/2019	ND	2.02	101	2.00	3.13	
Ethylbenzene*	0.167	0.050	07/17/2019	ND	1.92	95.8	2.00	3.53	
Total Xylenes*	0.768	0.150	07/17/2019	ND	5.91	98.5	6.00	3.56	
Total BTX	0.935	0.300	07/17/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 73.3-129

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	07/16/2019	ND	432	108	400	0.00	
TPH 8015M		mg/kg	Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	79.8	50.0	07/16/2019	ND	204	102	200	0.980	
DRO >C10-C28*	5260	50.0	07/16/2019	ND	211	106	200	4.39	
EXT DRO >C28-C36	1560	50.0	07/16/2019	ND					

Surrogate: 1-Chlorooctane 134 % 41-142

Surrogate: 1-Chlorooctadecane 313 % 37.6-147

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Analytical Results For:

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

Received: 07/15/2019
Reported: 07/17/2019
Project Name: 2B PIPELINE
Project Number: NONE GIVEN
Project Location: LEA COUNTY, NM

Sampling Date: 07/12/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FLOOR # 11 STAIN (H902420-25)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/17/2019	ND	2.01	100	2.00	3.72	
Toluene*	0.257	0.050	07/17/2019	ND	2.02	101	2.00	3.13	
Ethylbenzene*	0.694	0.050	07/17/2019	ND	1.92	95.8	2.00	3.53	
Total Xylenes*	3.14	0.150	07/17/2019	ND	5.91	98.5	6.00	3.56	
Total BTX	4.09	0.300	07/17/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 127 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/16/2019	ND	432	108	400	0.00		
TPH 8015M		mg/kg		Analyzed By: MS						S-06

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*	571	50.0	07/16/2019	ND	204	102	200	0.980	
DRO >C10-C28*	11500	50.0	07/16/2019	ND	211	106	200	4.39	
EXT DRO >C28-C36	2890	50.0	07/16/2019	ND					

Surrogate: 1-Chlorooctane 170 % 41-142

Surrogate: 1-Chlorooctadecane 477 % 37.6-147

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 07/15/2019
 Reported: 07/17/2019
 Project Name: 2B PIPELINE
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY, NM

 Sampling Date: 07/12/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NSW A (H902420-26)

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	07/17/2019	ND	2.01	100	2.00	3.72		
Toluene*	<0.050	0.050	07/17/2019	ND	2.02	101	2.00	3.13		
Ethylbenzene*	<0.050	0.050	07/17/2019	ND	1.92	95.8	2.00	3.53		
Total Xylenes*	<0.150	0.150	07/17/2019	ND	5.91	98.5	6.00	3.56		
Total BTEx	<0.300	0.300	07/17/2019	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	07/16/2019	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	13.5	10.0	07/16/2019	ND	190	95.1	200	0.351	
DRO >C10-C28*	316	10.0	07/16/2019	ND	189	94.6	200	4.27	
EXT DRO >C28-C36	59.1	10.0	07/16/2019	ND					

Surrogate: 1-Chlorooctane 90.8 % 41-142

Surrogate: 1-Chlorooctadecane 110 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 07/15/2019
Reported: 07/17/2019
Project Name: 2B PIPELINE
Project Number: NONE GIVEN
Project Location: LEA COUNTY, NM

Sampling Date: 07/12/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: ESW A (H902420-27)

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	07/17/2019	ND	2.01	100	2.00	3.72	
Toluene*	<0.050	0.050	07/17/2019	ND	2.02	101	2.00	3.13	
Ethylbenzene*	<0.050	0.050	07/17/2019	ND	1.92	95.8	2.00	3.53	
Total Xylenes*	<0.150	0.150	07/17/2019	ND	5.91	98.5	6.00	3.56	
Total BTEX	<0.300	0.300	07/17/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 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	64.0	16.0	07/16/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	28.3	10.0	07/16/2019	ND	190	95.1	200	0.351	
DRO >C10-C28*	1520	10.0	07/16/2019	ND	189	94.6	200	4.27	
EXT DRO >C28-C36	248	10.0	07/16/2019	ND					

Surrogate: 1-Chlorooctane 89.4 % 41-142

Surrogate: 1-Chlorooctadecane 128 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 07/15/2019
 Reported: 07/17/2019
 Project Name: 2B PIPELINE
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY, NM

 Sampling Date: 07/12/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SSW A (H902420-28)

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	07/17/2019	ND	2.01	100	2.00	3.72	
Toluene*	<0.050	0.050	07/17/2019	ND	2.02	101	2.00	3.13	
Ethylbenzene*	<0.050	0.050	07/17/2019	ND	1.92	95.8	2.00	3.53	
Total Xylenes*	<0.150	0.150	07/17/2019	ND	5.91	98.5	6.00	3.56	
Total BTEX	<0.300	0.300	07/17/2019	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	336	16.0	07/16/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2019	ND	190	95.1	200	0.351	
DRO >C10-C28*	699	10.0	07/16/2019	ND	189	94.6	200	4.27	
EXT DRO >C28-C36	143	10.0	07/16/2019	ND					

Surrogate: 1-Chlorooctane 85.8 % 41-142

Surrogate: 1-Chlorooctadecane 111 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 07/15/2019
Reported: 07/17/2019
Project Name: 2B PIPELINE
Project Number: NONE GIVEN
Project Location: LEA COUNTY, NM

Sampling Date: 07/12/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: WSW A (H902420-29)

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	07/17/2019	ND	2.03	101	2.00	0.449	
Toluene*	<0.050	0.050	07/17/2019	ND	2.00	100	2.00	2.41	
Ethylbenzene*	<0.050	0.050	07/17/2019	ND	1.90	95.1	2.00	1.51	
Total Xylenes*	<0.150	0.150	07/17/2019	ND	5.82	97.0	6.00	0.454	
Total BTEX	<0.300	0.300	07/17/2019	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	176	16.0	07/16/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	13.1	10.0	07/16/2019	ND	190	95.1	200	0.351	
DRO >C10-C28*	1520	10.0	07/16/2019	ND	189	94.6	200	4.27	
EXT DRO >C28-C36	430	10.0	07/16/2019	ND					

Surrogate: 1-Chlorooctane 89.2 % 41-142

Surrogate: 1-Chlorooctadecane 137 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report



Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: ETC Texas Pipeline				BILL TO				ANALYSIS REQUEST			
Project Manager: Joel Lowry				P.O. #:							
Address: PO Box 896				Company: ETC							
City: Lovington				State:				Zip:			
Phone #: 432-466-4450				Fax #:				Address: PO Box 896			
Project #:				City:				State:			
Project Name: 213 Pipeline				State:				Zip:			
Project Location: Lea Co, NM				Phone #:				Fax #:			
Sampler Name: Joel Lowry											

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	Chloride	TPH	BTEX 8021	ANALYSIS REQUEST				
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :						ACID/BASE:	ICE / COOL	OTHER :		
14902420	Floor 1		1			X					7/17/14	14:11	X	X	X				
21	Floor #0		1			X					14:14	14:11	X	X	X				
22	Floor #9		1			X					14:17	14:11	X	X	X				
23	Floor #10		1			X					14:19	14:11	X	X	X				
24	Floor #11 (Cell)		1			X					14:24	14:11	X	X	X				
25	Floor #11 Skin		1			X					14:36	14:11	X	X	X				
26	N3W4		1			X					14:26	14:11	X	X	X				
27	E5W4		1			X					14:28	14:11	X	X	X				
28	S3W4		1			X					14:31	14:11	X	X	X				
29	W3W4		1			X					14:33	14:11	X	X	X				

Relinquished By: <i>Joel Lowry</i>		Date: 7/15/14		Received By: <i>Chris</i>	
Relinquished By: <i>Chris</i>		Date: 7/15/14		Received By: <i>Chris</i>	
Delivered By: (Circle One) UPS - <input type="checkbox"/> Bus - <input type="checkbox"/> Other - <input checked="" type="checkbox"/>		Time: 3:00 PM		Sample Condition: Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>	
Sampler - UPS - Bus - Other:		Time: 3:00 PM		CHECKED BY: (Initials) <i>Joel</i>	

Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
REMARKS: Busch!! added 7/16/14	

July 30, 2019

DEAN ERICSON

ENERGY TRANSFER

P. O. BOX 1226

JAL, NM 88252

RE: 2B

Enclosed are the results of analyses for samples received by the laboratory on 07/29/19 10:20.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:ENERGY TRANSFER
DEAN ERICSON
P. O. BOX 1226
JAL NM, 88252
Fax To:Received: 07/29/2019
Reported: 07/30/2019
Project Name: 2B
Project Number: 32.169476-103.204992
Project Location: NEW MEXICOSampling Date: 07/29/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker**Sample ID: WSW B (H902578-01)**

TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2019	ND	201	101	200	1.37	
DRO >C10-C28*	<10.0	10.0	07/29/2019	ND	199	99.5	200	9.28	
EXT DRO >C28-C36	<10.0	10.0	07/29/2019	ND					
Surrogate: 1-Chlorooctane	90.4 %	41-142							
Surrogate: 1-Chlorooctadecane	105 %	37.6-147							

Sample ID: WSW #1 B (H902578-02)

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	07/29/2019	ND	201	101	200	1.37	
DRO >C10-C28*	<10.0	10.0	07/29/2019	ND	199	99.5	200	9.28	
EXT DRO >C28-C36	<10.0	10.0	07/29/2019	ND					
<hr/>									
Surrogate: 1-Chlorooctane	94.9 %	41-142							
Surrogate: 1-Chlorooctadecane	108 %	37.6-147							

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:ENERGY TRANSFER
DEAN ERICSON
P. O. BOX 1226
JAL NM, 88252
Fax To:Received: 07/29/2019
Reported: 07/30/2019
Project Name: 2B
Project Number: 32.169476-103.204992
Project Location: NEW MEXICOSampling Date: 07/29/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker**Sample ID: FL # 11 STAIN B (H902578-03)**

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	07/29/2019	ND	201	101	200	1.37	
DRO >C10-C28*	<10.0	10.0	07/29/2019	ND	199	99.5	200	9.28	
EXT DRO >C28-C36	<10.0	10.0	07/29/2019	ND					
Surrogate: 1-Chlorooctane	94.4 %	41-142							
Surrogate: 1-Chlorooctadecane	110 %	37.6-147							

Sample ID: SSW B (H902578-04)

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	07/29/2019	ND	201	101	200	1.37	
DRO >C10-C28*	<10.0	10.0	07/29/2019	ND	199	99.5	200	9.28	
EXT DRO >C28-C36	<10.0	10.0	07/29/2019	ND					
Surrogate: 1-Chlorooctane	97.4 %	41-142							
Surrogate: 1-Chlorooctadecane	114 %	37.6-147							

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 07/29/2019
Reported: 07/30/2019
Project Name: 2B
Project Number: 32.169476-103.204992
Project Location: NEW MEXICO

Sampling Date: 07/29/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FL # 7 B (H902578-05)

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	07/29/2019	ND	201	101	200	1.37	
DRO >C10-C28*	<10.0	10.0	07/29/2019	ND	199	99.5	200	9.28	
EXT DRO >C28-C36	<10.0	10.0	07/29/2019	ND					
Surrogate: 1-Chlorooctane	97.3 %	41-142							
Surrogate: 1-Chlorooctadecane	113 %	37.6-147							

Sample ID: FL # 8 B (H902578-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/29/2019	ND	432	108	400	3.77	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2019	ND	201	101	200	1.37	
DRO >C10-C28*	<10.0	10.0	07/29/2019	ND	199	99.5	200	9.28	
EXT DRO >C28-C36	<10.0	10.0	07/29/2019	ND					
Surrogate: 1-Chlorooctane	95.2 %	41-142							
Surrogate: 1-Chlorooctadecane	108 %	37.6-147							

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:ENERGY TRANSFER
DEAN ERICSON
P. O. BOX 1226
JAL NM, 88252
Fax To:Received: 07/29/2019
Reported: 07/30/2019
Project Name: 2B
Project Number: 32.169476-103.204992
Project Location: NEW MEXICOSampling Date: 07/29/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker**Sample ID: FL # 9 B (H902578-07)**

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	07/29/2019	ND	201	101	200	1.37	
DRO >C10-C28*	<10.0	10.0	07/29/2019	ND	199	99.5	200	9.28	
EXT DRO >C28-C36	<10.0	10.0	07/29/2019	ND					
Surrogate: 1-Chlorooctane	96.6 %	41-142							
Surrogate: 1-Chlorooctadecane	110 %	37.6-147							

Sample ID: FL # 10 B (H902578-08)

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	07/29/2019	ND	201	101	200	1.37	
DRO >C10-C28*	<10.0	10.0	07/29/2019	ND	199	99.5	200	9.28	
EXT DRO >C28-C36	<10.0	10.0	07/29/2019	ND					
Surrogate: 1-Chlorooctane	96.1 %	41-142							
Surrogate: 1-Chlorooctadecane	112 %	37.6-147							

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 07/29/2019
Reported: 07/30/2019
Project Name: 2B
Project Number: 32.169476-103.204992
Project Location: NEW MEXICO

Sampling Date: 07/29/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FL # 11 B (H902578-09)

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	07/29/2019	ND	201	101	200	1.37	
DRO >C10-C28*	244	10.0	07/29/2019	ND	199	99.5	200	9.28	
EXT DRO >C28-C36	63.3	10.0	07/29/2019	ND					
Surrogate: 1-Chlorooctane	97.5 %	41-142							
Surrogate: 1-Chlorooctadecane	125 %	37.6-147							

Sample ID: NSW C (H902578-10)

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2019	ND	201	101	200	1.37	
DRO >C10-C28*	<10.0	10.0	07/29/2019	ND	199	99.5	200	9.28	
EXT DRO >C28-C36	<10.0	10.0	07/29/2019	ND					
Surrogate: 1-Chlorooctane	98.8 %	41-142							
Surrogate: 1-Chlorooctadecane	112 %	37.6-147							

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Analytical Results For:ENERGY TRANSFER
DEAN ERICSON
P. O. BOX 1226
JAL NM, 88252
Fax To:Received: 07/29/2019
Reported: 07/30/2019
Project Name: 2B
Project Number: 32.169476-103.204992
Project Location: NEW MEXICOSampling Date: 07/29/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker**Sample ID: ESW C (H902578-11)**

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2019	ND	201	101	200	1.37	
DRO >C10-C28*	<10.0	10.0	07/29/2019	ND	199	99.5	200	9.28	
EXT DRO >C28-C36	<10.0	10.0	07/29/2019	ND					
Surrogate: 1-Chlorooctane	92.4 %	41-142							
Surrogate: 1-Chlorooctadecane	104 %	37.6-147							

Sample ID: FL # 6 B (H902578-12)

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2019	ND	201	101	200	1.37	
DRO >C10-C28*	<10.0	10.0	07/29/2019	ND	199	99.5	200	9.28	
EXT DRO >C28-C36	<10.0	10.0	07/29/2019	ND					
Surrogate: 1-Chlorooctane	95.2 %	41-142							
Surrogate: 1-Chlorooctadecane	103 %	37.6-147							

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Analytical Results For:

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

Received: 07/29/2019
Reported: 07/30/2019
Project Name: 2B
Project Number: 32.169476-103.204992
Project Location: NEW MEXICO

Sampling Date: 07/29/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FL # 5 B (H902578-13)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/29/2019	ND	432	108	400	3.77	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2019	ND	201	101	200	1.37	
DRO >C10-C28*	<10.0	10.0	07/29/2019	ND	199	99.5	200	9.28	
EXT DRO >C28-C36	<10.0	10.0	07/29/2019	ND					
Surrogate: 1-Chlorooctane	96.0 %	41-142							
Surrogate: 1-Chlorooctadecane	104 %	37.6-147							

Sample ID: NSW # 3 B (H902578-14)

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2019	ND	201	101	200	1.37	
DRO >C10-C28*	<10.0	10.0	07/29/2019	ND	199	99.5	200	9.28	
EXT DRO >C28-C36	<10.0	10.0	07/29/2019	ND					
<hr/>									
Surrogate: 1-Chlorooctane	93.4 %	41-142							
Surrogate: 1-Chlorooctadecane	98.3 %	37.6-147							

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 07/29/2019
Reported: 07/30/2019
Project Name: 2B
Project Number: 32.169476-103.204992
Project Location: NEW MEXICO

Sampling Date: 07/29/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FL # 4 B (H902578-15)

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2019	ND	201	101	200	1.37	
DRO >C10-C28*	<10.0	10.0	07/29/2019	ND	199	99.5	200	9.28	
EXT DRO >C28-C36	<10.0	10.0	07/29/2019	ND					
Surrogate: 1-Chlorooctane	91.9 %	41-142							
Surrogate: 1-Chlorooctadecane	101 %	37.6-147							

Sample ID: SSW # 3 B (H902578-16)

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2019	ND	201	101	200	1.37	
DRO >C10-C28*	<10.0	10.0	07/29/2019	ND	199	99.5	200	9.28	
EXT DRO >C28-C36	<10.0	10.0	07/29/2019	ND					
Surrogate: 1-Chlorooctane	95.3 %	41-142							
Surrogate: 1-Chlorooctadecane	104 %	37.6-147							

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Analytical Results For:

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

Received: 07/29/2019
Reported: 07/30/2019
Project Name: 2B
Project Number: 32.169476-103.204992
Project Location: NEW MEXICO

Sampling Date: 07/29/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: NSW # 2 B (H902578-17)

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2019	ND	201	101	200	1.37	
DRO >C10-C28*	<10.0	10.0	07/29/2019	ND	199	99.5	200	9.28	
EXT DRO >C28-C36	<10.0	10.0	07/29/2019	ND					
Surrogate: 1-Chlorooctane	100 %	41-142							
Surrogate: 1-Chlorooctadecane	108 %	37.6-147							

Sample ID: FL # 3 B (H902578-18)

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2019	ND	201	101	200	1.37	
DRO >C10-C28*	<10.0	10.0	07/29/2019	ND	199	99.5	200	9.28	
EXT DRO >C28-C36	<10.0	10.0	07/29/2019	ND					
Surrogate: 1-Chlorooctane	97.1 %	41-142							
Surrogate: 1-Chlorooctadecane	110 %	37.6-147							

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Analytical Results For:

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

Received: 07/29/2019
Reported: 07/30/2019
Project Name: 2B
Project Number: 32.169476-103.204992
Project Location: NEW MEXICO

Sampling Date: 07/29/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FL # 2 B (H902578-19)

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2019	ND	201	101	200	1.37	
DRO >C10-C28*	11.8	10.0	07/29/2019	ND	199	99.5	200	9.28	
EXT DRO >C28-C36	<10.0	10.0	07/29/2019	ND					
Surrogate: 1-Chlorooctane	97.1 %	41-142							
Surrogate: 1-Chlorooctadecane	110 %	37.6-147							

Sample ID: NSW # 1 B (H902578-20)

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2019	ND	201	101	200	1.37	
DRO >C10-C28*	<10.0	10.0	07/29/2019	ND	199	99.5	200	9.28	
EXT DRO >C28-C36	<10.0	10.0	07/29/2019	ND					
Surrogate: 1-Chlorooctane	96.2 %	41-142							
Surrogate: 1-Chlorooctadecane	103 %	37.6-147							

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Analytical Results For:ENERGY TRANSFER
DEAN ERICSON
P. O. BOX 1226
JAL NM, 88252
Fax To:Received: 07/29/2019
Reported: 07/30/2019
Project Name: 2B
Project Number: 32.169476-103.204992
Project Location: NEW MEXICOSampling Date: 07/29/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker**Sample ID: FL # 1 B (H902578-21)**

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/30/2019	ND	206	103	200	2.76	
DRO >C10-C28*	<10.0	10.0	07/30/2019	ND	228	114	200	12.5	
EXT DRO >C28-C36	<10.0	10.0	07/30/2019	ND					
Surrogate: 1-Chlorooctane	96.2 %	41-142							
Surrogate: 1-Chlorooctadecane	106 %	37.6-147							

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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

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Celey D. Keene, Lab Director/Quality Manager

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

Company Name: ETC						BILL TO								ANALYSIS REQUEST									
Project Manager: Dave Ericson						P.O. #:																	
Address:						Company:																	
City:						Attn:																	
State:						Address:																	
Zip:						City:																	
Phone #:						Fax #:																	
Project #:						State:																	
Project Owner:						Zip:																	
Project Location: 32.169476 -103.204442						Phone #:																	
Sample Name: Tyle R. Browns						Fax #:																	
FOR LAB USE ONLY						MATRIX						PRESERV.						SAMPLING					
Lab I.D.						(G)RAB OR (C)OMP.						# CONTAINERS											
H902578						GROUNDWATER						WASTEWATER						SOIL					
1 WSWB						OIL						SLUDGE						OTHER :					
2 WSWB #1B						ACID/BASE:						ICE / COOL						OTHER :					
3 FL# 11 SFWB						DATE						TIME											
4 SSWB						7/21/14						9:00 AM											
5 FL #7 B						9:05																	
6 FL #8 B						9:06																	
7 FL #9 B						9:08																	
8 FL #10 B						9:10																	
9 FL #11 B						9:12																	
10 NSWB C						9:15																	
						9:20																	
						9:25																	
						9:28																	
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Relinquished By:						Date: 7/24/14						Received By:											
Time: 10:00 am																							
Reinquinshed By:						Date:						Received By:											
Time:																							
Delivered By: (Circle One)						D.92						#97						Sample Condition					
Sampler - UPS - Bus - Other:						Permitted 1.30						Yes						Cool Intact					
																		No					
																		Checked BY: (Initials)					
																		T.O.					
REMARKS: Penelili Nw																							


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

Company Name: ETC Project Manager: Dennis Peterson Address: City: State: Zip: Phone #: Fax #: Project #: Project Owner: Project Name: 2B Project Location: 32.169476 -103.204992 Sampler Name: T. P. Brown FOR LAB USE ONLY				P.O. #: Company: Attn: Address: City: State: Zip: Phone #: Fax #:			
Lab I.D. Sample I.D.				Matrix <input type="checkbox"/> GROUNDWATER <input type="checkbox"/> WASTEWATER <input type="checkbox"/> SOIL <input type="checkbox"/> OIL <input type="checkbox"/> SLUDGE <input type="checkbox"/> OTHER : ACID/BASE: ICE / COOL OTHER :			
HE02578				DATE TIME			
11 ESWC 12 EL #6 B 13 FL #5 B 14 NSW #3 B 15 EL #4 B 16 SSW #3 B 17 NSW #2 B 18 FL #3 B 19 FH #2 B 20 NSW #1 B				7/26/14 9:35 AM 7/26/14 9:42 7/26/14 9:48 7/26/14 9:50 7/26/14 9:54 7/26/14 9:58 7/26/14 10:03 7/26/14 10:05 7/26/14 10:10 7/26/14 10:13			
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101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

[illegible]

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Relinquished By:		Date:	7/29/15	Received By:		Phone Result:	<input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:	
		Time:	12:33pm			Fax Result:	<input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:	
Relinquished By:		Date:		Received By:		REMARKS:	Rue 111, NW		
		Time:							
Delivered By: (Circle One)	0.9?	#97	Sample Condition	CHECKED BY:					
Sampler - UPS - Bus - Other:	Conserved	1.3?	Cool <input type="checkbox"/> Intact <input checked="" type="checkbox"/>	(Initials)	48.				
			Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>						

ATTACHMENT #7
Photographic Log

PHOTOGRAPHIC LOG



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



Figure 2 View of sample location, facing North.

PHOTOGRAPHIC LOG



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



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

PHOTOGRAPHIC LOG



Figure 5 View of portion of the excavated area, facing Southwest.



Figure 6 View of portion of the excavated area, facing Southwest.

ATTACHMENT #8

Page from Release Notification (FORM C-141)

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

State of New Mexico
Energy Minerals and Natural
Resources Department
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

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

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

Release Notification

Responsible Party

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

Location of Release Source

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

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

Unit Letter	Section	Township	Range	County
N	31	T24S	R37E	Lea

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

Nature and Volume of Release

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

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

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

State of New Mexico
Oil Conservation Division

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

☒ Yes ☐ No

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

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

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

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

Initial Response

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

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

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

Not applicable.

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

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

Printed Name: Carolyn J. Blackaller Title: Sr. Environmental Specialist

Signature:  Date: 11/08/2018

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

OCD Only

RECEIVED

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

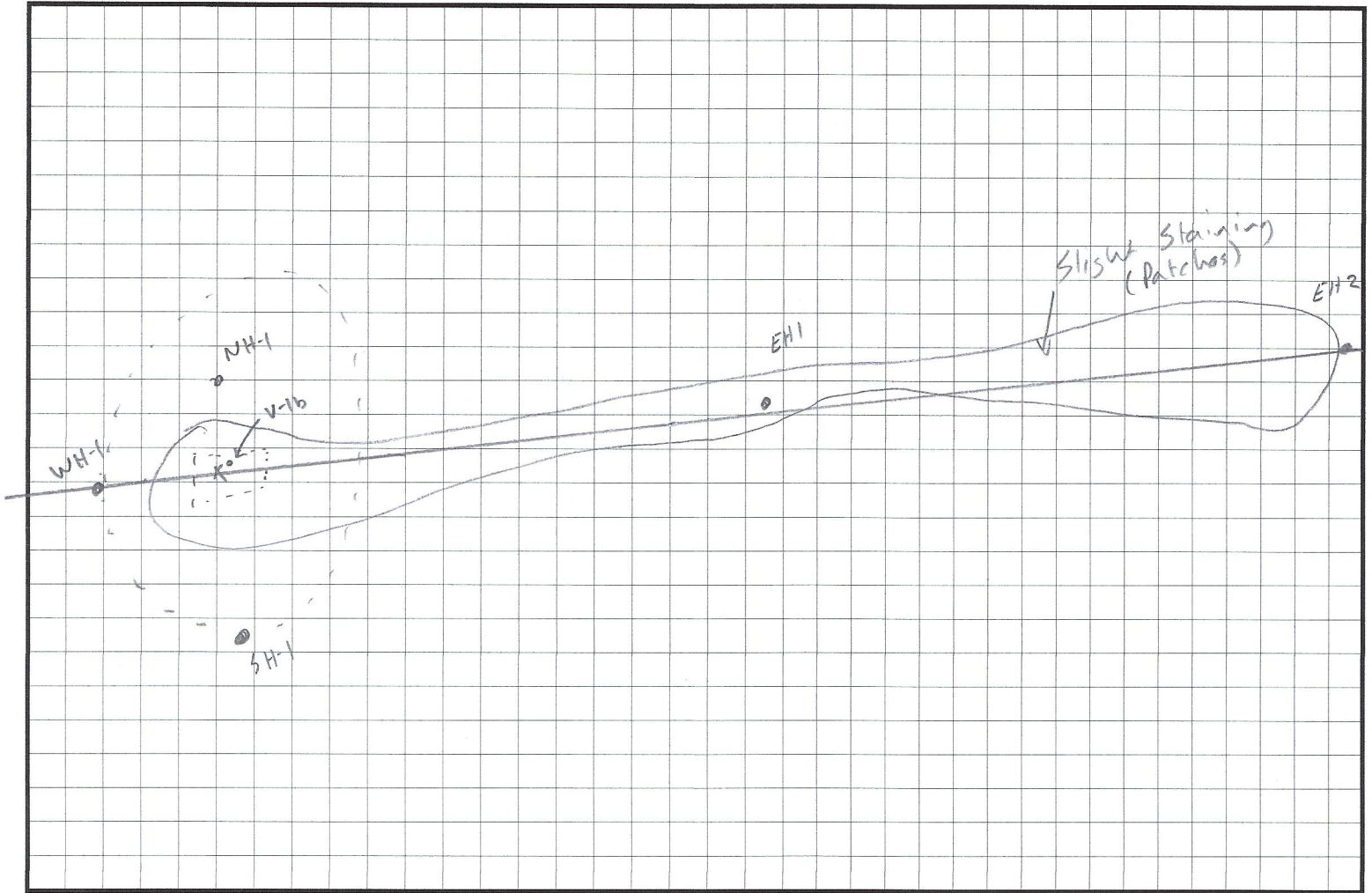
ATTACHMENT #9

Field Data

FIELD NOTES

Site Name: _____

Date: _____



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

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

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

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

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

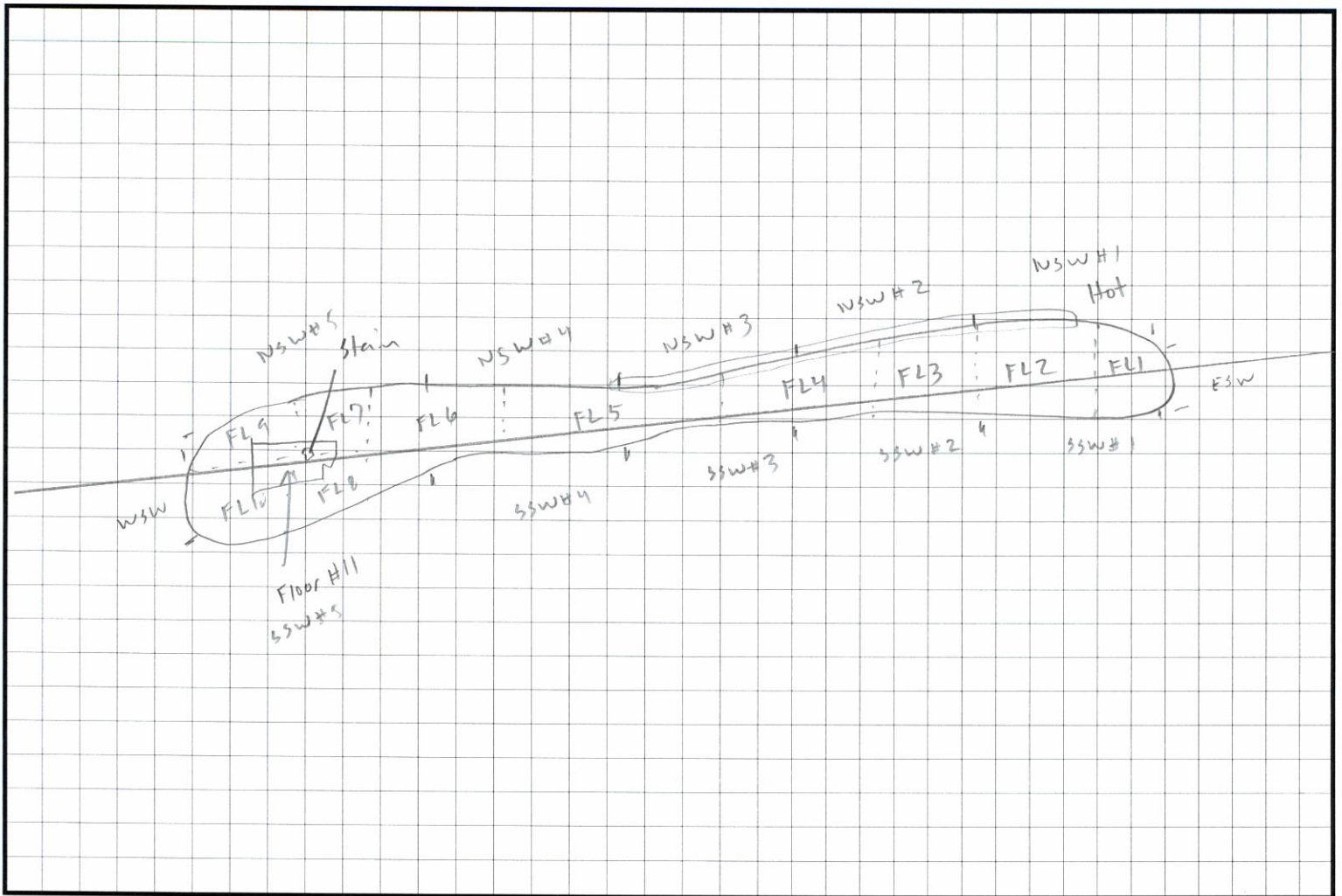
Field ID	Odor/PID	Chloride
EH-1 @ 6"	None	—
EH-1 @ 2'	Light	—
EH-2 @ 6"	None	—
EH-2 @ 2"	None	—

Field ID	Odor/PID	Chloride

FIELD NOTES

Site Name: 2B Pipeline

Date: 7/12/19



- Visit Site to Collect Per Samples, Staining in Floor
- Floor: Sidewalls appeared Hot, Possible Historical, or spread during remediation
- Collect Samples to see where additional excavation was required, ~600 sq ft

Field ID	Odor/PID	Chloride
FL #1	Slight	-
FL #2	Moderate	-
FL #3	Slight	-
FL #4	Moderate	-
FL #5	V. Slight	-

Field ID	Odor/PID	Chloride
FL #11	Strong	-
FL #11 Stain	Strong	-
NSW #1	Moderate	-
ESW #1	Strong	-
SSW #1	Moderate	-

Field ID	Odor/PID	Chloride
NSW #4	V. Slight	-
NSW #5	None	-
SSW #1	None	-
SSW #2	None	-
SSW #3	Slight	-

Field ID	Odor/PID	Chloride
FL #6	V. Slight	-
FL #7	Slight	-
FL #8	Slight	-
FL #9	Strong	-
FL #10	Strong	-

Field ID	Odor/PID	Chloride
NSW #1	Strong	-
NSW #1	V. Slight	-
NSW #1	Strong	-
NSW #2	V. Slight	-
NSW #3	V. Slight	-

Field ID	Odor/PID	Chloride
SSW #4	None	-
SSW #5	None	-
ESW #1	Slight	-