



Cotton Draw Pipeline  
nAPP2207343782

## Final Remediation Report



PO Box 2978  
Hobbs, NM 88241  
575-393-1417

## **Introduction**

This report presents the results of remediation activities of the Cotton Draw Pipeline Release. On behalf of Energy Transfer (ETC), Ingram Professional Services, Inc. (IPS) was tasked with the cleanup and remediation of release nAPP2207343782. The release occurred in unit Letter K, Section 19, Township 25S range 32E at coordinates 32.112443, -103.718743. The remediation was performed in general accordance with the New Mexico Oil Conservation Division (NMOCD) and 19.15.29 of the New Mexico Administrative Code (NMAC) effective date August 14, 2018.

## **Overview**

The Release occurred in a natural gas pipeline on federal land. Approximately 60mcf of natural gas, 6.6bbl of oil and 15.5bbl of water was released with zero recovered. The leak was attributed to corrosion in a 10" line.

## **Regulatory Guidelines**

Upon review of the site characteristics and a search of a groundwater database maintained by The New Mexico Office of the state Engineer (NMOSE), a survey was conducted to determine the average depth to groundwater within a 1-mile radius and identify any registered water wells within a ½ mile radius of the release site. There were no known wells in the ½ radius therefore Table 1 Closure Criteria for ground water depth of less than 50 feet was utilized.

Utilizing this information, the NMOCD Closure Criteria for the Site was determined as follows.

**Table 1.**

Probable Depth to Groundwater	Constituent	Laboratory Analytical Method	Closure Criteria <sup>††</sup>	Reclamation Standard <sup>‡‡</sup>
<50'	Chloride (Cl <sup>-</sup> )	EPA 300.0 or SM4500 Cl B	600	600
	Total Petroleum Hydrocarbons (TPH)	EPA SW-846 Method 8015M Ext	100	100
	Gas Range Organics + Diesel Range Organics (GRO + DRO)	EPA SW-846 Method 8015M		-
	Benzene	EPA SW-846 Methods 8021b or 8260b	10	10
	Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX)	EPA SW-846 Methods 8021b or 8260b	50	50

\* Measured in milligrams per kilogram (mg/kg)

† Table I, Section 19.15.29.12 of the New Mexico Administrative Code (NMAC). ‡ The NMOCD Reclamation Standard applies only to the top 4' of soil in non-production areas. Section 19.15.29.13 D. (1) NMAC

**Remediation Activities**

In accordance with an approved *Proposed Remediation plan* the following excavation activities were conducted to advance the site toward approved closure.

Between the dates of January 9<sup>th</sup>, 2023, and July 26<sup>th</sup>, 2023, IPS excavated approximately 2,721 cubic yards of impacted material. Impacted soil showing concentrations above Table NMAC guidelines were transported to a state approved waste disposal facility(s). Lealand disposal and Sundance disposal in Lea County New Mexico. Excavation depths ranged from 4-feet Bgs to 16' bgs. On January 27<sup>th</sup>, 2023, and July 12<sup>th</sup>, 2023, the site was sampled to determine if RRAL's had been met. Five-point composite confirmation samples were collected every 200 sq ft from the excavation floor and sidewalls. The samples were packaged and delivered to a third-party lab with chain of custody for testing as per regulatory standards. (See attached analytical results). Analytical results indicated BTEX, TPH and chloride concentrations were below the applicable NMOCD Closure Criteria and/or Reclamation Standard.

On July 19<sup>th</sup>, 2023, back-filling began and ran through July 26<sup>th</sup>, 2023. Approximately 2,298 cu yds of like material was obtained from private sources. Backfill was placed in a manner that will promote compaction, prevent storm water run-off, erosion and allow for vegetation growth. The affected off Right of way area will be reseeded during an optimal time conducive to growth, with an approved BLM mix.

February 2, 2024, vertical delineation sample SP5-5.5' was collected by use of hand-auger and submitted to Cardinal laboratory. Laboratory analytical results indicated BTEX, TPH and chloride concentrations were below the applicable NMOCD Closure Criteria and/or the NMOCD Reclamation Standard.

**Conclusion**

Based on laboratory analytical results, field activities conducted in accordance with an approved Remediation Plan, it is recommended ETC Texas Pipeline, Ltd. provide copies of this Remediation Closure Request to the appropriate agencies and request *Closure be granted for the Cotton Draw Pipeline release-nAPP2207343782.*

Released to Imaging: 2/14/2024 3:41:52 PM



**TABLE 1**  
Summary of full delineation Soil Sample Laboratory Analytical  
Results Cotton Draw Pipeline  
#nAPP2207343782

Sample ID	Date	Depth {ft}	Composite	Benzene {mg/kg}	BTEX (mg/kg)	GRO C <sub>6</sub> -C <sub>10</sub> (mg/kg)	ORO C <sub>10</sub> -C <sub>25</sub> (mg/kg)	GRO+ ORO c <sub>6</sub> -C <sub>25</sub> (mg/kg)	ORO C <sub>25</sub> -1/2 <sub>6</sub> (mg/kg)	TPH C <sub>6</sub> -1/2 <sub>6</sub> (mg/kg)	Chloride {mg/kg}
SP5	2/2/24	5.5'	Composite	<0.050	<0.300	<0.10	<0.10	<0.10	<0.10	<0.10	16

**NOTES:**  
- = Sample not analyzed for that constituent.  
Bold text denotes a concentration that exceeds the NIMOCDClosure Criteria

Land Owner: Federal

Depth to Water: N/A



Date:

Client: ETC

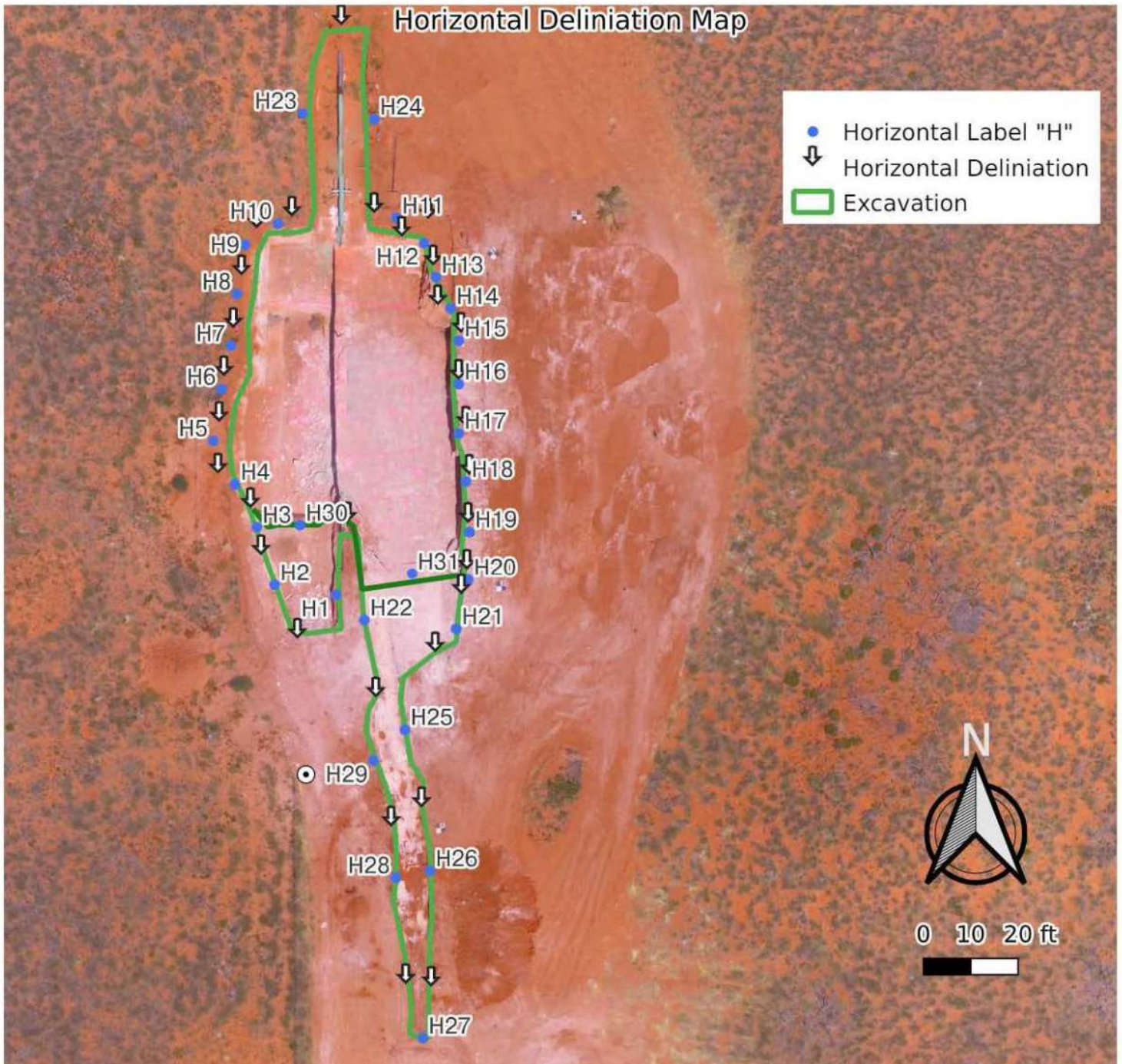
Location: Cotton Draw

GPS: 32.112443, -103.718743

Prepared By: Jason Owsley

PO Box 2978  
Hobbs, NM 88241  
575-393-1417

Midland, TX  
432-245-1164





Land Owner: Federal

Depth to Water: N/A



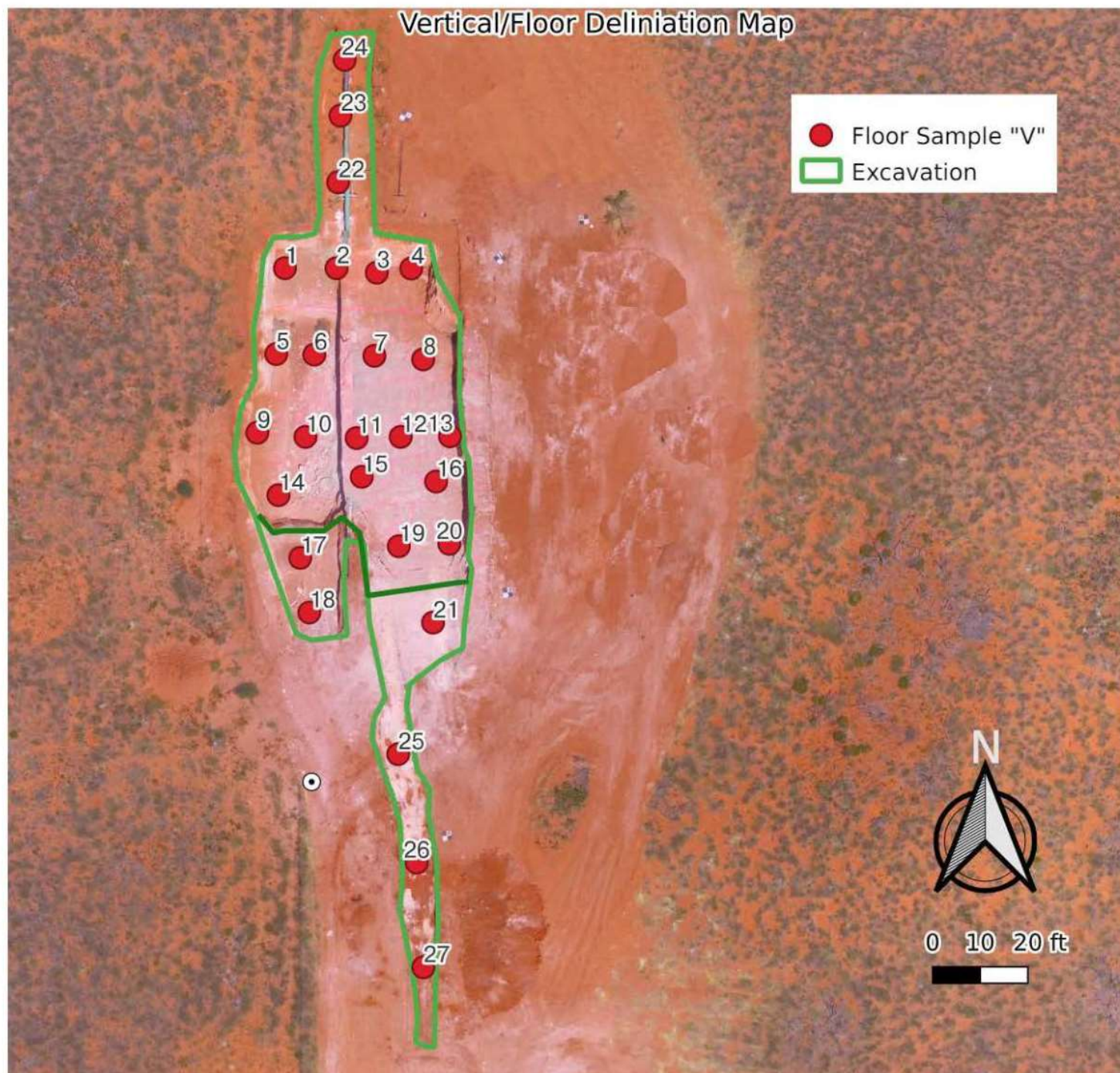
Date:

Client: ETC

Location: Cotton Draw

GPS: 32.112443, -103.718743

Prepared By: Jason Owsley

PO Box 2978  
Hobbs, NM 88241  
575-393-1417Midland, TX  
432-245-1164

Received by OCD: 3/14/2022 12:16:18 PM

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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	nAPP2207343782
District RP	
Facility ID	
Application ID	

## Release Notification

### Responsible Party

Responsible Party: ETC Texas Pipeline, Ltd.	OGRID: 371183
Contact Name: Carolyn Blackaller	Contact Telephone: (817) 302-9766
Contact email: <a href="mailto:Carolyn.blackaller@energytransfer.com">Carolyn.blackaller@energytransfer.com</a>	Incident # (assigned by OCD) nAPP2207343782
Contact mailing address: 600 N. Marienfeld St., Suite 700, Midland, TX 79701	

### Location of Release Source

Latitude 32.112443 Longitude -103.718743  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Cotton Draw Pipeline	Site Type: Pipeline
Date Release Discovered: 3/2/2022	API# (if applicable)

Unit Letter	Section	Township	Range	County
K	S19	T25S	R32E	Eddy

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (Name: \_\_\_\_\_)

### 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 type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Natural Gas	Volume Released (Mcf): 60 mcf	Volume Recovered (Mcf): 0 mcf
<input checked="" type="checkbox"/> Other (describe) pipeline liquids	Volume/Weight Released (provide units) 22.1 bbl	Volume/Weight Recovered (provide units) 0 bbl
Cause of Release: The release was attributed to corrosion of the pipeline segment.		

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Received by OCD: 3/14/2022 12:16:18 PM  
Form C-141

State of New Mexico

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Oil Conservation Division

Incident ID	nAPP2207343782
District RP	
Facility ID	
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Was this a major release as defined by 19.15.29.7(A) NMAC?  <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

### Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Carolyn Blackaller</u>	Title: <u>Sr. Environmental Specialist</u>
Signature: <u></u>	Date: <u>3/14/2022</u>
email: <u>Carolyn.blackaller@energytransfer.com</u>	Telephone: <u>(432) 203-8920</u>
<b><u>OCD Only</u></b>	
Received by: <u>Jocelyn Harimon</u>	Date: <u>03/14/2022</u>

Released to Imaging: 3/14/2022 4:44:15 PM

Released to Imaging: 2/14/2024 3:41:52 PM

NAPP2207343782

Length of Spill Area (ft):

340.0

Width of Spill Area (ft):

135.0

Depth of Spill Area (ft):

0.2

% Oil in Liquid:

30.0

Amount Recovd. (bbls):

0.0

Est. Liquid Vol. (bbls):

6.62158

Porosity Factor (soil type):

Sandstone

Vol. of Oil Released (bbls):

6.62158

Vol. of Water Released (bbls):

15.45035

Impacted Soil Vol (ft3):

25.500

Enter Numbers Only

Secondary Containment with Liner

NAPP2207343782

Pipeline Blow Down					
Blowdown Timeline:		Date (m/dd/yy)	Time (hr:mm)	Duration (in min):	
		3/2/2022	14:45		120.00
Blowdown Location:		Latitude:	Longitude:	Location Detail:	
		32.112443	103.718743	Outside a Fenced Facility	
Blowdown Location Desc: Pipeline, No Valva available					
Notes	Inside Diameter	Miles	Feet	Volume (Cu Ft)	
1	10.0000	4.80		13,823.01	
2					
3					
Equivalent Diameter:		Total Length:		13,823.01	
10.0000		25,344			
Start Pressure (psig):		End Pressure (psig):		0.0	
50.0					
Start Temperature (Deg F):		End Temperature (Deg F):			
60.0					
Specific Gravity:		End Volume (MCF):		0.00	
0.750					
Start Volume (MCF):		60.0			
60.0					
Was Gas Flared?		No		Total Blowdown (Mcf):	
				60.0	

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone: (575) 393-6161 Fax: (575) 393-0720  
**District II**  
811 S. First St., Artesia, NM 88210  
Phone: (575) 748-1283 Fax: (575) 748-9720  
**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone: (505) 334-6178 Fax: (505) 334-6170  
**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone: (505) 476-3470 Fax: (505) 476-3462

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

CONDITIONS  
Action 90032

CONDITIONS

Operator: ETC Texas Pipeline, Ltd. 8111 Westchester Drive Dallas, TX 75225	OGRID: 371183
	Action Number: 90032
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	None	3/14/2022



Form C-141

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State of New Mexico  
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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

Printed Name: Dean D. Ericson Title: Sr. Environmental SpecialistSignature: Dean D. Ericson Date: 06/10/2022email: dean.ericson@energytransfer.com Telephone: 432-238-2142**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

Form C-141

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State of New Mexico  
Oil Conservation Division

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## Remediation Plan

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

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

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

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

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

Printed Name: Dean D. Ericson Title: Sr. Environmental Specialist  
Signature: Dean D. Ericson Date: 06/10/2022  
email: dean.ericson@energytransfer.com Telephone: 432-238-2124

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

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

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Form C-141

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State of New Mexico  
Oil Conservation Division

Incident ID	
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Application ID	

## Closure

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

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

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate OCD 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 D. Ericson Title: Sr. Environmental Specialist  
Signature: Dean D. Ericson Date: 080423  
email: dean.ericson@energytransfer.com Telephone: 432-238-2142

**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: \_\_\_\_\_



## FW: Incident # nAPP2207343782 Confirmation Sampling Event

**From:** "Ericson, Dean" <Dean.Ericson@energyTransfer.com>  
**To:** "Nobui, Jennifer, EMNRD" <Jennifer.Nobui@state.nm.us>  
**Cc:** Jason Owsley (Jasono@diamondbacknm.com) <Jasono@diamondbacknm.com>  
**Date:** Fri, 7 Jul 2023 17:33:27 +0000 (07/07/2023 11:33:27 AM)

Jennifer,

ETC will be conducting confirmation sampling for the Cotton Draw Remediation, Eddy County (32.112443 -103.718743) on Wed July 12th. Please advised if NMOCD will be able to be present to witness.

Any questions please call,

Thanks,



**Dean D. Ericson**  
Sr. Environmental Specialist  
ER/Waste/Water/Remediation  
Energy Transfer  
O: 817.302.9573  
C: 432-238-2142



---

**From:** Ericson, Dean  
**Sent:** Wednesday, January 18, 2023 3:18 PM  
**To:** Nobui, Jennifer, EMNRD <Jennifer.Nobui@state.nm.us>  
**Cc:** Jaquez, David Vara <david.jaquez@energytransfer.com>; Rodriguez, Adrian R <Adrian.Rodriguez@energyTransfer.com>; Boultinghouse, Stacy <Stacy.Boultinghouse@energytransfer.com>; Miro, Alena M. <alena.miro@energytransfer.com>; Acosta, Lynn <lynn.acosta@energytransfer.com>; Hoot, Kristal <Kristal.Hoot@energytransfer.com>; Westby, Nick Scott <nick.westby@energytransfer.com>; Jody Walters <jwalters@blackstarenergyservices.com>  
**Subject:** Incident # nAPP2207343782 Sampling Event

Jennifer,

ETC will be ready to collect vertical and horizontal samples for the Cotton Draw Remediation, Eddy County (32.112443 -103.718743) on Friday Jan. 20th. Please advised if NMOCD will be able to be present to witness.



Any questions please call,

Thanks,



**Dean D. Ericson**

Sr. Environmental Specialist  
ER/Waste/Water/Remediation  
Energy Transfer

O: 817.302.9573

C: 432-238-2142



Private and confidential as detailed [here](#). If you cannot access hyperlink, please e-mail sender.

Final Excavation Photos

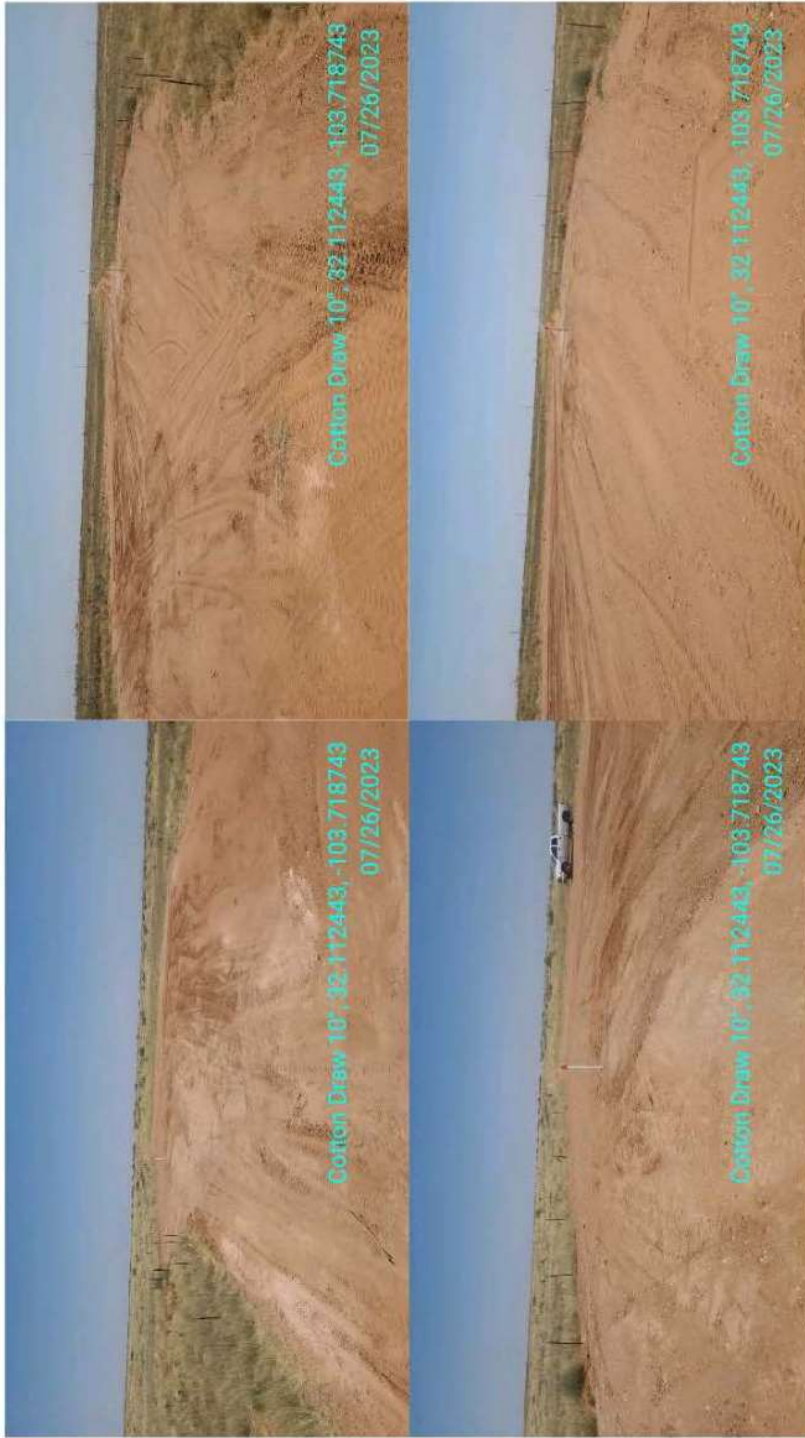


Final Excavation Photos





Cotton Draw Backfill Photos







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

February 01, 2023

DEAN ERICSON

ENERGY TRANSFER

P. O. BOX 1226

JAL, NM 88252

RE: COTTON DRAW

Enclosed are the results of analyses for samples received by the laboratory on 01/27/23 13:16.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 01/27/2023  
Reported: 02/01/2023  
Project Name: COTTON DRAW  
Project Number: 32.112443, -103.718743  
Project Location: NONE GIVEN

Sampling Date: 01/27/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: H 1 (H230412-01)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/31/2023	ND	1.95	97.5	2.00	1.42	
Toluene*	<0.050	0.050	01/31/2023	ND	2.04	102	2.00	2.31	
Ethylbenzene*	<0.050	0.050	01/31/2023	ND	2.01	100	2.00	3.28	
Total Xylenes*	<0.150	0.150	01/31/2023	ND	6.03	101	6.00	3.94	
Total BTEX	<0.300	0.300	01/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PIB) 106 % 71.5-134

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	01/31/2023	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	01/30/2023	ND	244	122	200	0.963	
DRO >C10-C28*	<10.0	10.0	01/30/2023	ND	231	115	200	2.97	
EXT DRO >C28-C36	<10.0	10.0	01/30/2023	ND					

Surrogate: 1-Chlorooctane 98.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 01/27/2023  
Reported: 02/01/2023  
Project Name: COTTON DRAW  
Project Number: 32.112443, -103.718743  
Project Location: NONE GIVEN

Sampling Date: 01/27/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: H 2 (H230412-02)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/31/2023	ND	1.95	97.5	2.00	1.42	
Toluene*	<0.050	0.050	01/31/2023	ND	2.04	102	2.00	2.31	
Ethylbenzene*	<0.050	0.050	01/31/2023	ND	2.01	100	2.00	3.28	
Total Xylenes*	<0.150	0.150	01/31/2023	ND	6.03	101	6.00	3.94	
Total BTEX	<0.300	0.300	01/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 107 % 71.5-134

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	01/31/2023	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	01/30/2023	ND	244	122	200	0.963	
DRO >C10-C28*	<10.0	10.0	01/30/2023	ND	231	115	200	2.97	
EXT DRO >C28-C36	<10.0	10.0	01/30/2023	ND					

Surrogate: 1-Chlorooctane 88.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 01/27/2023  
Reported: 02/01/2023  
Project Name: COTTON DRAW  
Project Number: 32.112443, -103.718743  
Project Location: NONE GIVEN

Sampling Date: 01/27/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: H 3 (H230412-03)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/31/2023	ND	1.95	97.5	2.00	1.42	
Toluene*	<0.050	0.050	01/31/2023	ND	2.04	102	2.00	2.31	
Ethylbenzene*	<0.050	0.050	01/31/2023	ND	2.01	100	2.00	3.28	
Total Xylenes*	<0.150	0.150	01/31/2023	ND	6.03	101	6.00	3.94	
Total BTEX	<0.300	0.300	01/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 107 % 71.5-134

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	01/31/2023	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	01/30/2023	ND	244	122	200	0.963	
DRO >C10-C28*	<10.0	10.0	01/30/2023	ND	231	115	200	2.97	
EXT DRO >C28-C36	<10.0	10.0	01/30/2023	ND					

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 01/27/2023  
Reported: 02/01/2023  
Project Name: COTTON DRAW  
Project Number: 32.112443, -103.718743  
Project Location: NONE GIVEN

Sampling Date: 01/27/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: H 4 (H230412-04)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/31/2023	ND	1.95	97.5	2.00	1.42	
Toluene*	<0.050	0.050	01/31/2023	ND	2.04	102	2.00	2.31	
Ethylbenzene*	<0.050	0.050	01/31/2023	ND	2.01	100	2.00	3.28	
Total Xylenes*	<0.150	0.150	01/31/2023	ND	6.03	101	6.00	3.94	
Total BTEX	<0.300	0.300	01/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PII) 105 % 71.5-134

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	01/31/2023	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	01/30/2023	ND	244	122	200	0.963	
DRO >C10-C28*	<10.0	10.0	01/30/2023	ND	231	115	200	2.97	
EXT DRO >C28-C36	<10.0	10.0	01/30/2023	ND					

Surrogate: 1-Chlorooctane 84.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.9 % 49.1-148

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**Analytical Results For:**

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

Received: 01/27/2023  
Reported: 02/01/2023  
Project Name: COTTON DRAW  
Project Number: 32.112443, -103.718743  
Project Location: NONE GIVEN

Sampling Date: 01/27/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: H 5 (H230412-05)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/31/2023	ND	1.92	96.1	2.00	0.761	
Toluene*	<0.050	0.050	01/31/2023	ND	1.97	98.7	2.00	1.74	
Ethylbenzene*	<0.050	0.050	01/31/2023	ND	1.97	98.6	2.00	1.97	
Total Xylenes*	<0.150	0.150	01/31/2023	ND	5.92	98.7	6.00	2.07	
Total BTEX	<0.300	0.300	01/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PII) 105 % 71.5-134

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	01/31/2023	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	01/30/2023	ND	244	122	200	0.963	
DRO >C10-C28*	<10.0	10.0	01/30/2023	ND	231	115	200	2.97	
EXT DRO >C28-C36	<10.0	10.0	01/30/2023	ND					

Surrogate: 1-Chlorooctane 96.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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**Analytical Results For:**

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

Received: 01/27/2023  
Reported: 02/01/2023  
Project Name: COTTON DRAW  
Project Number: 32.112443, -103.718743  
Project Location: NONE GIVEN

Sampling Date: 01/27/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: H 6 (H230412-06)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/31/2023	ND	1.92	96.1	2.00	0.761	
Toluene*	<0.050	0.050	01/31/2023	ND	1.97	98.7	2.00	1.74	
Ethylbenzene*	<0.050	0.050	01/31/2023	ND	1.97	98.6	2.00	1.97	
Total Xylenes*	<0.150	0.150	01/31/2023	ND	5.92	98.7	6.00	2.07	
Total BTEX	<0.300	0.300	01/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PII) 105 % 71.5-134

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	01/31/2023	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	01/30/2023	ND	244	122	200	0.963	
DRO >C10-C28*	<10.0	10.0	01/30/2023	ND	231	115	200	2.97	
EXT DRO >C28-C36	<10.0	10.0	01/30/2023	ND					

Surrogate: 1-Chlorooctane 118 % 48.2-134

Surrogate: 1-Chlorooctadecane 130 % 49.1-148

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**Analytical Results For:**

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

Received: 01/27/2023  
Reported: 02/01/2023  
Project Name: COTTON DRAW  
Project Number: 32.112443, -103.718743  
Project Location: NONE GIVEN

Sampling Date: 01/27/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: H 7 (H230412-07)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/31/2023	ND	1.92	96.1	2.00	0.761	
Toluene*	<0.050	0.050	01/31/2023	ND	1.97	98.7	2.00	1.74	
Ethylbenzene*	<0.050	0.050	01/31/2023	ND	1.97	98.6	2.00	1.97	
Total Xylenes*	<0.150	0.150	01/31/2023	ND	5.92	98.7	6.00	2.07	
Total BTEX	<0.300	0.300	01/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PII) 104 % 71.5-134

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	01/31/2023	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	01/30/2023	ND	244	122	200	0.963	
DRO >C10-C28*	<10.0	10.0	01/30/2023	ND	231	115	200	2.97	
EXT DRO >C28-C36	<10.0	10.0	01/30/2023	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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**Analytical Results For:**

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

Received: 01/27/2023  
Reported: 02/01/2023  
Project Name: COTTON DRAW  
Project Number: 32.112443, -103.718743  
Project Location: NONE GIVEN

Sampling Date: 01/27/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: H 8 (H230412-08)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/31/2023	ND	1.92	96.1	2.00	0.761	
Toluene*	<0.050	0.050	01/31/2023	ND	1.97	98.7	2.00	1.74	
Ethylbenzene*	<0.050	0.050	01/31/2023	ND	1.97	98.6	2.00	1.97	
Total Xylenes*	<0.150	0.150	01/31/2023	ND	5.92	98.7	6.00	2.07	
Total BTEX	<0.300	0.300	01/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PII) 106 % 71.5-134

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	01/31/2023	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	01/30/2023	ND	244	122	200	0.963	
DRO >C10-C28*	<10.0	10.0	01/30/2023	ND	231	115	200	2.97	
EXT DRO >C28-C36	<10.0	10.0	01/30/2023	ND					

Surrogate: 1-Chlorooctane 95.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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**Analytical Results For:**

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

Received: 01/27/2023  
Reported: 02/01/2023  
Project Name: COTTON DRAW  
Project Number: 32.112443, -103.718743  
Project Location: NONE GIVEN

Sampling Date: 01/27/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: H 9 (H230412-09)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/31/2023	ND	1.92	96.1	2.00	0.761	
Toluene*	<0.050	0.050	01/31/2023	ND	1.97	98.7	2.00	1.74	
Ethylbenzene*	<0.050	0.050	01/31/2023	ND	1.97	98.6	2.00	1.97	
Total Xylenes*	<0.150	0.150	01/31/2023	ND	5.92	98.7	6.00	2.07	
Total BTEX	<0.300	0.300	01/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PII) 102 % 71.5-134

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	01/31/2023	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	01/30/2023	ND	244	122	200	0.963	
DRO >C10-C28*	<10.0	10.0	01/30/2023	ND	231	115	200	2.97	
EXT DRO >C28-C36	<10.0	10.0	01/30/2023	ND					

Surrogate: 1-Chlorooctane 128 % 48.2-134

Surrogate: 1-Chlorooctadecane 147 % 49.1-148

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**Analytical Results For:**

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

Received: 01/27/2023  
Reported: 02/01/2023  
Project Name: COTTON DRAW  
Project Number: 32.112443, -103.718743  
Project Location: NONE GIVEN

Sampling Date: 01/27/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: H 10 (H230412-10)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/31/2023	ND	1.92	96.1	2.00	0.761	
Toluene*	<0.050	0.050	01/31/2023	ND	1.97	98.7	2.00	1.74	
Ethylbenzene*	<0.050	0.050	01/31/2023	ND	1.97	98.6	2.00	1.97	
Total Xylenes*	<0.150	0.150	01/31/2023	ND	5.92	98.7	6.00	2.07	
Total BTEX	<0.300	0.300	01/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PII) 104 % 71.5-134

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	01/31/2023	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	01/30/2023	ND	244	122	200	0.963	
DRO >C10-C28*	<10.0	10.0	01/30/2023	ND	231	115	200	2.97	
EXT DRO >C28-C36	<10.0	10.0	01/30/2023	ND					

Surrogate: 1-Chlorooctane 99.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 01/27/2023  
Reported: 02/01/2023  
Project Name: COTTON DRAW  
Project Number: 32.112443, -103.718743  
Project Location: NONE GIVEN

Sampling Date: 01/27/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: H 11 (H230412-11)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/31/2023	ND	1.92	96.1	2.00	0.761	
Toluene*	<0.050	0.050	01/31/2023	ND	1.97	98.7	2.00	1.74	
Ethylbenzene*	<0.050	0.050	01/31/2023	ND	1.97	98.6	2.00	1.97	
Total Xylenes*	<0.150	0.150	01/31/2023	ND	5.92	98.7	6.00	2.07	
Total BTEX	<0.300	0.300	01/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PII) 105 % 71.5-134

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	01/31/2023	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	01/30/2023	ND	244	122	200	0.963	
DRO >C10-C28*	<10.0	10.0	01/30/2023	ND	231	115	200	2.97	
EXT DRO >C28-C36	<10.0	10.0	01/30/2023	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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**Analytical Results For:**

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

Received: 01/27/2023  
Reported: 02/01/2023  
Project Name: COTTON DRAW  
Project Number: 32.112443, -103.718743  
Project Location: NONE GIVEN

Sampling Date: 01/27/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: V 1 @ 16' (H230412-12)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/31/2023	ND	1.92	96.1	2.00	0.761	
Toluene*	<0.050	0.050	01/31/2023	ND	1.97	98.7	2.00	1.74	
Ethylbenzene*	<0.050	0.050	01/31/2023	ND	1.97	98.6	2.00	1.97	
Total Xylenes*	<0.150	0.150	01/31/2023	ND	5.92	98.7	6.00	2.07	
Total BTEX	<0.300	0.300	01/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 106 % 71.5-134

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	01/31/2023	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	01/30/2023	ND	244	122	200	0.963	
DRO >C10-C28*	<10.0	10.0	01/30/2023	ND	231	115	200	2.97	
EXT DRO >C28-C36	<10.0	10.0	01/30/2023	ND					

Surrogate: 1-Chlorooctane 120 % 48.2-134

Surrogate: 1-Chlorooctadecane 134 % 49.1-148

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**Analytical Results For:**

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

Received: 01/27/2023  
Reported: 02/01/2023  
Project Name: COTTON DRAW  
Project Number: 32.112443, -103.718743  
Project Location: NONE GIVEN

Sampling Date: 01/27/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: V 2 @ 16' (H230412-13)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/31/2023	ND	1.92	96.1	2.00	0.761	
Toluene*	<0.050	0.050	01/31/2023	ND	1.97	98.7	2.00	1.74	
Ethylbenzene*	<0.050	0.050	01/31/2023	ND	1.97	98.6	2.00	1.97	
Total Xylenes*	<0.150	0.150	01/31/2023	ND	5.92	98.7	6.00	2.07	
Total BTEX	<0.300	0.300	01/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PII) 106 % 71.5-134

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	01/31/2023	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	01/30/2023	ND	244	122	200	0.963	
DRO >C10-C28*	<10.0	10.0	01/30/2023	ND	231	115	200	2.97	
EXT DRO >C28-C36	<10.0	10.0	01/30/2023	ND					

Surrogate: 1-Chlorooctane 92.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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**Analytical Results For:**

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

Received: 01/27/2023  
Reported: 02/01/2023  
Project Name: COTTON DRAW  
Project Number: 32.112443, -103.718743  
Project Location: NONE GIVEN

Sampling Date: 01/27/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: V 3 @ 16' (H230412-14)**

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/31/2023	ND	1.92	96.1	2.00	0.761	
Toluene*	<0.050	0.050	01/31/2023	ND	1.97	98.7	2.00	1.74	
Ethylbenzene*	<0.050	0.050	01/31/2023	ND	1.97	98.6	2.00	1.97	
Total Xylenes*	<0.150	0.150	01/31/2023	ND	5.92	98.7	6.00	2.07	
Total BTEx	<0.300	0.300	01/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PII) 104 % 71.5-134

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	01/31/2023	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	01/30/2023	ND	244	122	200	0.963	
DRO >C10-C28*	<10.0	10.0	01/30/2023	ND	231	115	200	2.97	
EXT DRO >C28-C36	<10.0	10.0	01/30/2023	ND					

Surrogate: 1-Chlorooctane 96.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 01/27/2023  
Reported: 02/01/2023  
Project Name: COTTON DRAW  
Project Number: 32.112443, -103.718743  
Project Location: NONE GIVEN

Sampling Date: 01/27/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: V 4 @ 16' (H230412-15)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/31/2023	ND	1.92	96.1	2.00	0.761	
Toluene*	<0.050	0.050	01/31/2023	ND	1.97	98.7	2.00	1.74	
Ethylbenzene*	<0.050	0.050	01/31/2023	ND	1.97	98.6	2.00	1.97	
Total Xylenes*	<0.150	0.150	01/31/2023	ND	5.92	98.7	6.00	2.07	
Total BTEX	<0.300	0.300	01/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PII) 105 % 71.5-134

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	01/31/2023	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	01/30/2023	ND	244	122	200	0.963	
DRO >C10-C28*	<10.0	10.0	01/30/2023	ND	231	115	200	2.97	
EXT DRO >C28-C36	<10.0	10.0	01/30/2023	ND					

Surrogate: 1-Chlorooctane 91.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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**Analytical Results For:**

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

Received: 01/27/2023  
Reported: 02/01/2023  
Project Name: COTTON DRAW  
Project Number: 32.112443, -103.718743  
Project Location: NONE GIVEN

Sampling Date: 01/27/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: V 5 @ 16' (H230412-16)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/31/2023	ND	1.92	96.1	2.00	0.761	
Toluene*	<0.050	0.050	01/31/2023	ND	1.97	98.7	2.00	1.74	
Ethylbenzene*	<0.050	0.050	01/31/2023	ND	1.97	98.6	2.00	1.97	
Total Xylenes*	<0.150	0.150	01/31/2023	ND	5.92	98.7	6.00	2.07	
Total BTEX	<0.300	0.300	01/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 105 % 71.5-134

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	01/31/2023	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	01/30/2023	ND	244	122	200	0.963	
DRO >C10-C28*	<10.0	10.0	01/30/2023	ND	231	115	200	2.97	
EXT DRO >C28-C36	<10.0	10.0	01/30/2023	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 01/27/2023  
Reported: 02/01/2023  
Project Name: COTTON DRAW  
Project Number: 32.112443, -103.718743  
Project Location: NONE GIVEN

Sampling Date: 01/27/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: V 6 @ 16' (H230412-17)**

BTEX 8021B			mg/kg		Analyzed By: JH/				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/31/2023	ND	1.92	96.1	2.00	0.761	
Toluene*	<0.050	0.050	01/31/2023	ND	1.97	98.7	2.00	1.74	
Ethylbenzene*	<0.050	0.050	01/31/2023	ND	1.97	98.6	2.00	1.97	
Total Xylenes*	<0.150	0.150	01/31/2023	ND	5.92	98.7	6.00	2.07	
Total BTEX	<0.300	0.300	01/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PII) 105 % 71.5-134

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	01/31/2023	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	01/30/2023	ND	244	122	200	0.963	
DRO >C10-C28*	<10.0	10.0	01/30/2023	ND	231	115	200	2.97	
EXT DRO >C28-C36	<10.0	10.0	01/30/2023	ND					

Surrogate: 1-Chlorooctane 91.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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**Analytical Results For:**

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

Received: 01/27/2023  
Reported: 02/01/2023  
Project Name: COTTON DRAW  
Project Number: 32.112443, -103.718743  
Project Location: NONE GIVEN

Sampling Date: 01/27/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: V 7 @ 16' (H230412-18)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/31/2023	ND	1.92	96.1	2.00	0.761	
Toluene*	<0.050	0.050	01/31/2023	ND	1.97	98.7	2.00	1.74	
Ethylbenzene*	<0.050	0.050	01/31/2023	ND	1.97	98.6	2.00	1.97	
Total Xylenes*	<0.150	0.150	01/31/2023	ND	5.92	98.7	6.00	2.07	
Total BTEX	<0.300	0.300	01/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PII) 105 % 71.5-134

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	01/31/2023	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	01/30/2023	ND	244	122	200	0.963	
DRO >C10-C28*	<10.0	10.0	01/30/2023	ND	231	115	200	2.97	
EXT DRO >C28-C36	<10.0	10.0	01/30/2023	ND					

Surrogate: 1-Chlorooctane 92.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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**Analytical Results For:**

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

Received: 01/27/2023  
Reported: 02/01/2023  
Project Name: COTTON DRAW  
Project Number: 32.112443, -103.718743  
Project Location: NONE GIVEN

Sampling Date: 01/27/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: V 8 @ 16' (H230412-19)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/31/2023	ND	1.92	96.1	2.00	0.761	
Toluene*	<0.050	0.050	01/31/2023	ND	1.97	98.7	2.00	1.74	
Ethylbenzene*	<0.050	0.050	01/31/2023	ND	1.97	98.6	2.00	1.97	
Total Xylenes*	<0.150	0.150	01/31/2023	ND	5.92	98.7	6.00	2.07	
Total BTEX	<0.300	0.300	01/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PII) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/30/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/30/2023	ND	244	122	200	0.963	
DRO >C10-C28*	<10.0	10.0	01/30/2023	ND	231	115	200	2.97	
EXT DRO >C28-C36	<10.0	10.0	01/30/2023	ND					

Surrogate: 1-Chlorooctane 93.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 01/27/2023  
Reported: 02/01/2023  
Project Name: COTTON DRAW  
Project Number: 32.112443, -103.718743  
Project Location: NONE GIVEN

Sampling Date: 01/27/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: V 9 @ 16' (H230412-20)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/31/2023	ND	1.92	96.1	2.00	0.761	
Toluene*	<0.050	0.050	01/31/2023	ND	1.97	98.7	2.00	1.74	
Ethylbenzene*	<0.050	0.050	01/31/2023	ND	1.97	98.6	2.00	1.97	
Total Xylenes*	<0.150	0.150	01/31/2023	ND	5.92	98.7	6.00	2.07	
Total BTEX	<0.300	0.300	01/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PII) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/30/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/31/2023	ND	197	98.6	200	2.76	
DRO >C10-C28*	<10.0	10.0	01/31/2023	ND	188	94.1	200	7.72	
EXT DRO >C28-C36	<10.0	10.0	01/31/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 01/27/2023  
Reported: 02/01/2023  
Project Name: COTTON DRAW  
Project Number: 32.112443, -103.718743  
Project Location: NONE GIVEN

Sampling Date: 01/27/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: V 10 @ 16' (H230412-21)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/31/2023	ND	1.92	96.1	2.00	0.761	
Toluene*	<0.050	0.050	01/31/2023	ND	1.97	98.7	2.00	1.74	
Ethylbenzene*	<0.050	0.050	01/31/2023	ND	1.97	98.6	2.00	1.97	
Total Xylenes*	<0.150	0.150	01/31/2023	ND	5.92	98.7	6.00	2.07	
Total BTEX	<0.300	0.300	01/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PII) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/30/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/31/2023	ND	197	98.6	200	2.76	
DRO >C10-C28*	<10.0	10.0	01/31/2023	ND	188	94.1	200	7.72	
EXT DRO >C28-C36	<10.0	10.0	01/31/2023	ND					

Surrogate: 1-Chlorooctane 88.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.1 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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### Notes and Definitions

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

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <b>ETC</b> Project Manager: <b>Seely Walters</b> Address: City:                      State:                      Zip: Phone #:                      Fax #:                      Project Owner: Project #:                      State:                      Zip: Project Location: <b>Coffey DGA ~ 3E.112443-108.718743</b> Project Name: <b>Physo Pennell</b> Sampler Name:				<b>BILL TO</b> P.O. #: Company: Attn: Address: City: State:                      Zip: Phone #: Fax #:				<b>ANALYSIS REQUEST</b>			
FOR LAB USE ONLY Lab I.D. <b>H236412</b>		Sample I.D.		(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:		MATRIX ACID/BASE: ICE / COOL OTHER:		PRESERV DATE TIME		SAMPLING	
Relinquished By: <b>[Signature]</b>		Date: <b>1-27-23</b> Time: <b>1314</b>		Received By: <b>[Signature]</b>		Date: <b>1/27/23</b> Time: <b>0905</b>		X X X		X X X	
Relinquished By: <b>[Signature]</b>		Date: <b>1-27-23</b> Time: <b>1314</b>		Received By: <b>[Signature]</b>		Date: <b>1/27/23</b> Time: <b>0910</b>		X X X		X X X	
Relinquished By: <b>[Signature]</b>		Date: <b>1-27-23</b> Time: <b>1314</b>		Received By: <b>[Signature]</b>		Date: <b>1/27/23</b> Time: <b>0915</b>		X X X		X X X	
Relinquished By: <b>[Signature]</b>		Date: <b>1-27-23</b> Time: <b>1314</b>		Received By: <b>[Signature]</b>		Date: <b>1/27/23</b> Time: <b>0920</b>		X X X		X X X	
Relinquished By: <b>[Signature]</b>		Date: <b>1-27-23</b> Time: <b>1314</b>		Received By: <b>[Signature]</b>		Date: <b>1/27/23</b> Time: <b>0925</b>		X X X		X X X	
Relinquished By: <b>[Signature]</b>		Date: <b>1-27-23</b> Time: <b>1314</b>		Received By: <b>[Signature]</b>		Date: <b>1/27/23</b> Time: <b>0930</b>		X X X		X X X	
Relinquished By: <b>[Signature]</b>		Date: <b>1-27-23</b> Time: <b>1314</b>		Received By: <b>[Signature]</b>		Date: <b>1/27/23</b> Time: <b>0935</b>		X X X		X X X	
Relinquished By: <b>[Signature]</b>		Date: <b>1-27-23</b> Time: <b>1314</b>		Received By: <b>[Signature]</b>		Date: <b>1/27/23</b> Time: <b>0940</b>		X X X		X X X	
Relinquished By: <b>[Signature]</b>		Date: <b>1-27-23</b> Time: <b>1314</b>		Received By: <b>[Signature]</b>		Date: <b>1/27/23</b> Time: <b>0945</b>		X X X		X X X	
Relinquished By: <b>[Signature]</b>		Date: <b>1-27-23</b> Time: <b>1314</b>		Received By: <b>[Signature]</b>		Date: <b>1/27/23</b> Time: <b>0950</b>		X X X		X X X	
Relinquished By: <b>[Signature]</b>		Date: <b>1-27-23</b> Time: <b>1314</b>		Received By: <b>[Signature]</b>		Date: <b>1/27/23</b> Time: <b>0955</b>		X X X		X X X	
Relinquished By: <b>[Signature]</b>		Date: <b>1-27-23</b> Time: <b>1314</b>		Received By: <b>[Signature]</b>		Date: <b>1/27/23</b> Time: <b>1000</b>		X X X		X X X	
Relinquished By: <b>[Signature]</b>		Date: <b>1-27-23</b> Time: <b>1314</b>		Received By: <b>[Signature]</b>		Date: <b>1/27/23</b> Time: <b>1005</b>		X X X		X X X	
Relinquished By: <b>[Signature]</b>		Date: <b>1-27-23</b> Time: <b>1314</b>		Received By: <b>[Signature]</b>		Date: <b>1/27/23</b> Time: <b>1010</b>		X X X		X X X	
Relinquished By: <b>[Signature]</b>		Date: <b>1-27-23</b> Time: <b>1314</b>		Received By: <b>[Signature]</b>		Date: <b>1/27/23</b> Time: <b>1015</b>		X X X		X X X	
Relinquished By: <b>[Signature]</b>		Date: <b>1-27-23</b> Time: <b>1314</b>		Received By: <b>[Signature]</b>		Date: <b>1/27/23</b> Time: <b>1020</b>		X X X		X X X	
Relinquished By: <b>[Signature]</b>		Date: <b>1-27-23</b> Time: <b>1314</b>		Received By: <b>[Signature]</b>		Date: <b>1/27/23</b> Time: <b>1025</b>		X X X		X X X	
Relinquished By: <b>[Signature]</b>		Date: <b>1-27-23</b> Time: <b>1314</b>		Received By: <b>[Signature]</b>		Date: <b>1/27/23</b> Time: <b>1030</b>		X X X		X X X	
Relinquished By: <b>[Signature]</b>		Date: <b>1-27-23</b> Time: <b>1314</b>		Received By: <b>[Signature]</b>		Date: <b>1/27/23</b> Time: <b>1035</b>		X X X		X X X	
Relinquished By:											



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <b>ETC</b>		P.O. #:		BILL TO				ANALYSIS REQUEST			
Project Manager: <b>Jody Walford</b>		Company:									
Address:		Attn:									
City:		State:		Zip:							
Phone #:		Fax #:		Address:							
Project #:		Project Owner:		City:							
Project Name: <b>Cotton Draw</b>		State:		Zip:							
Project Location: <b>32.112443, -103.718743</b>		Phone #:									
Sample Name: <b>Robb's Farm</b>		Fax #:									
FOR LAB USE ONLY		MATRIX		PRESERV		SAMPLING					
Lab I.D.		(G)RAB OR (C)OMP		# CONTAINERS		GROUNDWATER					
Sample I.D.		WASTEWATER		SOIL		OIL					
		SLUDGE		OTHER:		ACID/BASE:					
		ICE / COOL		OTHER:		DATE		TIME			
<b>H238412</b>						<b>11/27/23</b>		<b>0800</b>		<b>BTX</b>	
<b>11</b>		<b>H11</b>		<b>1</b>						<b>X</b>	
<b>12</b>		<b>V1 @ 16'</b>								<b>X</b>	
<b>13</b>		<b>V2 @ 16'</b>								<b>X</b>	
<b>14</b>		<b>V3 @ 16'</b>								<b>X</b>	
<b>15</b>		<b>V4 @ 16'</b>								<b>X</b>	
<b>16</b>		<b>V5 @ 16'</b>								<b>X</b>	
<b>17</b>		<b>V6 @ 16'</b>								<b>X</b>	
<b>18</b>		<b>V7 @ 16'</b>								<b>X</b>	
<b>19</b>		<b>V8 @ 16'</b>								<b>X</b>	
<b>20</b>		<b>V9 @ 16'</b>								<b>X</b>	

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Relinquished By: <b>[Signature]</b>		Date: <b>1-21-23</b>		Received By: <b>[Signature]</b>		Date: <b>1-31-23</b>		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #:		All Results are emailed. Please provide Email address:	
Relinquished By:		Time: <b>1316</b>		Received By:		Time:		REMARKS: <b>WBS # 6-22012-61-21300257</b>			
Delivered By: (Circle One)		Observed Temp. °C: <b>4.1</b>		Sample Condition: <input checked="" type="checkbox"/> Cool <input type="checkbox"/> Intact		CHECKED BY: (Initials)		Turnaround Time: <b>Standard</b>		Bacteria (only) Sample Condition: <input type="checkbox"/> Cool <input type="checkbox"/> Intact	
Sampler - UPS - Bus - Other:		Corrected Temp. °C: <b>3.5</b>		<input type="checkbox"/> Yes <input type="checkbox"/> No				Thermometer ID #113 <b>RUSH</b>		<input type="checkbox"/> Yes <input type="checkbox"/> No	
				<input type="checkbox"/> No <input type="checkbox"/> No				Correction Factor -0.6°C		<input type="checkbox"/> No <input type="checkbox"/> No	

† Cardinal cannot accept verbal changes. Please email changes to cely.keene@cardinallabsnm.com





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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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July 17, 2023

DEAN ERICSON

ENERGY TRANSFER

P. O. BOX 1226

JAL, NM 88252

RE: COTTON DRAW 10"

Enclosed are the results of analyses for samples received by the laboratory on 07/12/23 12:23.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 07/12/2023  
Reported: 07/17/2023  
Project Name: COTTON DRAW 10"  
Project Number: 32.112443- 103.718743  
Project Location: NEW MEXICO

Sampling Date: 07/12/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: V 11 - 16' (H233553-01)**

BTX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/13/2023	ND	2.00	100	2.00	0.826	
Toluene*	<0.050	0.050	07/13/2023	ND	1.97	98.7	2.00	1.56	
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	1.95	97.3	2.00	1.79	
Total Xylenes*	<0.150	0.150	07/13/2023	ND	5.91	98.6	6.00	1.44	
Total BTX	<0.300	0.300	07/13/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

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	07/13/2023	ND	416	104	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/13/2023	ND	204	102	200	1.38	
DRO >C10-C28*	<10.0	10.0	07/13/2023	ND	199	99.6	200	4.84	
EXT DRO >C28-C36	<10.0	10.0	07/13/2023	ND					

Surrogate: 1-Chlorooctane 126 % 48.2-134

Surrogate: 1-Chlorooctadecane 140 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 07/12/2023  
Reported: 07/17/2023  
Project Name: COTTON DRAW 10"  
Project Number: 32.112443- 103.718743  
Project Location: NEW MEXICO

Sampling Date: 07/12/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: V 12 - 16' (H233553-02)**

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	07/13/2023	ND	2.00	100	2.00	0.826	
Toluene*	<0.050	0.050	07/13/2023	ND	1.97	98.7	2.00	1.56	
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	1.95	97.3	2.00	1.79	
Total Xylenes*	<0.150	0.150	07/13/2023	ND	5.91	98.6	6.00	1.44	
Total BTEX	<0.300	0.300	07/13/2023	ND					

Surrogate: 4-Bromofluorobenzene (PII) 106 % 71.5-134

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	07/13/2023	ND	416	104	400	3.77	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/13/2023	ND	204	102	200	1.38	
DRO >C10-C28*	<10.0	10.0	07/13/2023	ND	199	99.6	200	4.84	
EXT DRO >C28-C36	<10.0	10.0	07/13/2023	ND					

Surrogate: 1-Chlorooctane 123 % 48.2-134

Surrogate: 1-Chlorooctadecane 137 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 07/12/2023  
Reported: 07/17/2023  
Project Name: COTTON DRAW 10"  
Project Number: 32.112443- 103.718743  
Project Location: NEW MEXICO

Sampling Date: 07/12/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: V 13 - 16' (H233553-03)**

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	07/13/2023	ND	2.00	100	2.00	0.826	
Toluene*	<0.050	0.050	07/13/2023	ND	1.97	98.7	2.00	1.56	
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	1.95	97.3	2.00	1.79	
Total Xylenes*	<0.150	0.150	07/13/2023	ND	5.91	98.6	6.00	1.44	
Total BTEX	<0.300	0.300	07/13/2023	ND					

Surrogate: 4-Bromofluorobenzene (PII) 108 % 71.5-134

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	07/13/2023	ND	416	104	400	3.77	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/13/2023	ND	204	102	200	1.38	
DRO >C10-C28*	<10.0	10.0	07/13/2023	ND	199	99.6	200	4.84	
EXT DRO >C28-C36	<10.0	10.0	07/13/2023	ND					

Surrogate: 1-Chlorooctane 126 % 48.2-134

Surrogate: 1-Chlorooctadecane 141 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 07/12/2023  
Reported: 07/17/2023  
Project Name: COTTON DRAW 10"  
Project Number: 32.112443- 103.718743  
Project Location: NEW MEXICO

Sampling Date: 07/12/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: V 14 - 16' (H233553-04)**

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	07/13/2023	ND	2.00	100	2.00	0.826	
Toluene*	<0.050	0.050	07/13/2023	ND	1.97	98.7	2.00	1.56	
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	1.95	97.3	2.00	1.79	
Total Xylenes*	<0.150	0.150	07/13/2023	ND	5.91	98.6	6.00	1.44	
Total BTEX	<0.300	0.300	07/13/2023	ND					

Surrogate: 4-Bromofluorobenzene (PII) 108 % 71.5-134

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	07/13/2023	ND	416	104	400	3.77	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/13/2023	ND	204	102	200	1.38	
DRO >C10-C28*	<10.0	10.0	07/13/2023	ND	199	99.6	200	4.84	
EXT DRO >C28-C36	<10.0	10.0	07/13/2023	ND					

Surrogate: 1-Chlorooctane 132 % 48.2-134

Surrogate: 1-Chlorooctadecane 145 % 49.1-148

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**Analytical Results For:**

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

Received: 07/12/2023  
Reported: 07/17/2023  
Project Name: COTTON DRAW 10"  
Project Number: 32.112443- 103.718743  
Project Location: NEW MEXICO

Sampling Date: 07/12/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: V 15 - 16' (H233553-05)**

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	07/13/2023	ND	2.00	100	2.00	0.826	
Toluene*	<0.050	0.050	07/13/2023	ND	1.97	98.7	2.00	1.56	
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	1.95	97.3	2.00	1.79	
Total Xylenes*	<0.150	0.150	07/13/2023	ND	5.91	98.6	6.00	1.44	
Total BTEX	<0.300	0.300	07/13/2023	ND					

Surrogate: 4-Bromofluorobenzene (PII) 108 % 71.5-134

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	07/13/2023	ND	416	104	400	3.77	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/13/2023	ND	204	102	200	1.38	
DRO >C10-C28*	<10.0	10.0	07/13/2023	ND	199	99.6	200	4.84	
EXT DRO >C28-C36	<10.0	10.0	07/13/2023	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 125 % 49.1-148

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**Analytical Results For:**

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

Received: 07/12/2023  
Reported: 07/17/2023  
Project Name: COTTON DRAW 10"  
Project Number: 32.112443- 103.718743  
Project Location: NEW MEXICO

Sampling Date: 07/12/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: V 16 - 16' (H233553-06)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/13/2023	ND	2.03	102	2.00	1.76	
Toluene*	<0.050	0.050	07/13/2023	ND	2.01	101	2.00	0.646	
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	2.17	109	2.00	0.767	
Total Xylenes*	<0.150	0.150	07/13/2023	ND	6.53	109	6.00	1.46	
Total BTEX	<0.300	0.300	07/13/2023	ND					

Surrogate: 4-Bromofluorobenzene (PII) 117 % 71.5-134

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	07/13/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/13/2023	ND	204	102	200	1.38	
DRO >C10-C28*	<10.0	10.0	07/13/2023	ND	199	99.6	200	4.84	
EXT DRO >C28-C36	<10.0	10.0	07/13/2023	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

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**Analytical Results For:**

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

Received: 07/12/2023  
Reported: 07/17/2023  
Project Name: COTTON DRAW 10"  
Project Number: 32.112443- 103.718743  
Project Location: NEW MEXICO

Sampling Date: 07/12/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: V 17 - 6' (H233553-07)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/13/2023	ND	2.03	102	2.00	1.76	
Toluene*	<0.050	0.050	07/13/2023	ND	2.01	101	2.00	0.646	
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	2.17	109	2.00	0.767	
Total Xylenes*	<0.150	0.150	07/13/2023	ND	6.53	109	6.00	1.46	
Total BTEX	<0.300	0.300	07/13/2023	ND					

Surrogate: 4-Bromofluorobenzene (PII) 115 % 71.5-134

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	07/13/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/13/2023	ND	205	103	200	8.34	
DRO >C10-C28*	<10.0	10.0	07/13/2023	ND	230	115	200	2.61	
EXT DRO >C28-C36	<10.0	10.0	07/13/2023	ND					

Surrogate: 1-Chlorooctane 123 % 48.2-134

Surrogate: 1-Chlorooctadecane 139 % 49.1-148

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**Analytical Results For:**

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

Received: 07/12/2023  
Reported: 07/17/2023  
Project Name: COTTON DRAW 10"  
Project Number: 32.112443- 103.718743  
Project Location: NEW MEXICO

Sampling Date: 07/12/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: V 18 - 6' (H233553-08)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/13/2023	ND	2.03	102	2.00	1.76	
Toluene*	<0.050	0.050	07/13/2023	ND	2.01	101	2.00	0.646	
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	2.17	109	2.00	0.767	
Total Xylenes*	<0.150	0.150	07/13/2023	ND	6.53	109	6.00	1.46	
Total BTEX	<0.300	0.300	07/13/2023	ND					

Surrogate: 4-Bromofluorobenzene (PII) 116 % 71.5-134

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	07/13/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/13/2023	ND	205	103	200	8.34	
DRO >C10-C28*	<10.0	10.0	07/13/2023	ND	230	115	200	2.61	
EXT DRO >C28-C36	<10.0	10.0	07/13/2023	ND					

Surrogate: 1-Chlorooctane 118 % 48.2-134

Surrogate: 1-Chlorooctadecane 133 % 49.1-148

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**Analytical Results For:**

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

Received: 07/12/2023  
Reported: 07/17/2023  
Project Name: COTTON DRAW 10"  
Project Number: 32.112443- 103.718743  
Project Location: NEW MEXICO

Sampling Date: 07/12/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: V 19 - 16' (H233553-09)**

BTEX 8021B			mg/kg		Analyzed By: JH/				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/13/2023	ND	2.03	102	2.00	1.76	
Toluene*	<0.050	0.050	07/13/2023	ND	2.01	101	2.00	0.646	
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	2.17	109	2.00	0.767	
Total Xylenes*	<0.150	0.150	07/13/2023	ND	6.53	109	6.00	1.46	
Total BTEX	<0.300	0.300	07/13/2023	ND					

Surrogate: 4-Bromofluorobenzene (PII) 116 % 71.5-134

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	07/13/2023	ND	416	104	400	3.77	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	205	103	200	8.34	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	230	115	200	2.61	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 99.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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**Analytical Results For:**

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

Received: 07/12/2023  
Reported: 07/17/2023  
Project Name: COTTON DRAW 10"  
Project Number: 32.112443- 103.718743  
Project Location: NEW MEXICO

Sampling Date: 07/12/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: V 20 - 16' (H233553-10)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/13/2023	ND	2.03	102	2.00	1.76	
Toluene*	<0.050	0.050	07/13/2023	ND	2.01	101	2.00	0.646	
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	2.17	109	2.00	0.767	
Total Xylenes*	<0.150	0.150	07/13/2023	ND	6.53	109	6.00	1.46	
Total BTEX	<0.300	0.300	07/13/2023	ND					

Surrogate: 4-Bromofluorobenzene (PII) 116 % 71.5-134

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	07/13/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	205	103	200	8.34	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	230	115	200	2.61	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 96.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 07/12/2023  
Reported: 07/17/2023  
Project Name: COTTON DRAW 10"  
Project Number: 32.112443- 103.718743  
Project Location: NEW MEXICO

Sampling Date: 07/12/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: V 21 - 6' (H233553-11)**

BTEX 8021B			mg/kg		Analyzed By: JH/				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/13/2023	ND	2.03	102	2.00	1.76	
Toluene*	<0.050	0.050	07/13/2023	ND	2.01	101	2.00	0.646	
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	2.17	109	2.00	0.767	
Total Xylenes*	<0.150	0.150	07/13/2023	ND	6.53	109	6.00	1.46	
Total BTEX	<0.300	0.300	07/13/2023	ND					

Surrogate: 4-Bromofluorobenzene (PII) 120 % 71.5-134

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	07/13/2023	ND	416	104	400	3.77	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	205	103	200	8.34	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	230	115	200	2.61	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 99.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 07/12/2023  
Reported: 07/17/2023  
Project Name: COTTON DRAW 10"  
Project Number: 32.112443- 103.718743  
Project Location: NEW MEXICO

Sampling Date: 07/12/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: V 22 - 4' (H233553-12)**

BTEX 8021B			mg/kg		Analyzed By: JH/				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/13/2023	ND	2.03	102	2.00	1.76	
Toluene*	<0.050	0.050	07/13/2023	ND	2.01	101	2.00	0.646	
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	2.17	109	2.00	0.767	
Total Xylenes*	<0.150	0.150	07/13/2023	ND	6.53	109	6.00	1.46	
Total BTEX	<0.300	0.300	07/13/2023	ND					

Surrogate: 4-Bromofluorobenzene (PII) 119 % 71.5-134

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	07/13/2023	ND	416	104	400	3.77	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	205	103	200	8.34	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	230	115	200	2.61	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 128 % 48.2-134

Surrogate: 1-Chlorooctadecane 144 % 49.1-148

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**Analytical Results For:**

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

Received: 07/12/2023  
Reported: 07/17/2023  
Project Name: COTTON DRAW 10"  
Project Number: 32.112443- 103.718743  
Project Location: NEW MEXICO

Sampling Date: 07/12/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: V 23 - 4' (H233553-13)**

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/13/2023	ND	2.03	102	2.00	1.76	
Toluene*	<0.050	0.050	07/13/2023	ND	2.01	101	2.00	0.646	
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	2.17	109	2.00	0.767	
Total Xylenes*	<0.150	0.150	07/13/2023	ND	6.53	109	6.00	1.46	
Total BTX	<0.300	0.300	07/13/2023	ND					

Surrogate: 4-Bromofluorobenzene (PII) 118 % 71.5-134

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	07/13/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	205	103	200	8.34	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	230	115	200	2.61	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 95.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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**Analytical Results For:**

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

Received: 07/12/2023  
Reported: 07/17/2023  
Project Name: COTTON DRAW 10"  
Project Number: 32.112443- 103.718743  
Project Location: NEW MEXICO

Sampling Date: 07/12/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: V 24 - 4' (H233553-14)**

BTEX 8021B			mg/kg		Analyzed By: JH/				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/13/2023	ND	2.03	102	2.00	1.76	
Toluene*	<0.050	0.050	07/13/2023	ND	2.01	101	2.00	0.646	
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	2.17	109	2.00	0.767	
Total Xylenes*	<0.150	0.150	07/13/2023	ND	6.53	109	6.00	1.46	
Total BTEX	<0.300	0.300	07/13/2023	ND					

Surrogate: 4-Bromofluorobenzene (PII) 116 % 71.5-134

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	07/13/2023	ND	416	104	400	3.77	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	205	103	200	8.34	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	230	115	200	2.61	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 95.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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**Analytical Results For:**

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

Received: 07/12/2023  
Reported: 07/17/2023  
Project Name: COTTON DRAW 10"  
Project Number: 32.112443- 103.718743  
Project Location: NEW MEXICO

Sampling Date: 07/12/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: V 25 - 4' (H233553-15)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/13/2023	ND	2.03	102	2.00	1.76	
Toluene*	<0.050	0.050	07/13/2023	ND	2.01	101	2.00	0.646	
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	2.17	109	2.00	0.767	
Total Xylenes*	<0.150	0.150	07/13/2023	ND	6.53	109	6.00	1.46	
Total BTEX	<0.300	0.300	07/13/2023	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 117 % 71.5-134

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	07/13/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	205	103	200	8.34	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	230	115	200	2.61	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 91.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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**Analytical Results For:**

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

Received: 07/12/2023  
Reported: 07/17/2023  
Project Name: COTTON DRAW 10"  
Project Number: 32.112443- 103.718743  
Project Location: NEW MEXICO

Sampling Date: 07/12/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: V 26 - 4' (H233553-16)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/13/2023	ND	2.03	102	2.00	1.76	
Toluene*	<0.050	0.050	07/13/2023	ND	2.01	101	2.00	0.646	
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	2.17	109	2.00	0.767	
Total Xylenes*	<0.150	0.150	07/13/2023	ND	6.53	109	6.00	1.46	
Total BTEX	<0.300	0.300	07/13/2023	ND					

Surrogate: 4-Bromofluorobenzene (PII) 116 % 71.5-134

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	07/13/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	205	103	200	8.34	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	230	115	200	2.61	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 90.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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**Analytical Results For:**

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

Received: 07/12/2023  
Reported: 07/17/2023  
Project Name: COTTON DRAW 10"  
Project Number: 32.112443- 103.718743  
Project Location: NEW MEXICO

Sampling Date: 07/12/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: V 27 - 4' (H233553-17)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/13/2023	ND	2.03	102	2.00	1.76	
Toluene*	<0.050	0.050	07/13/2023	ND	2.01	101	2.00	0.646	
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	2.17	109	2.00	0.767	
Total Xylenes*	<0.150	0.150	07/13/2023	ND	6.53	109	6.00	1.46	
Total BTEX	<0.300	0.300	07/13/2023	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 116 % 71.5-134

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	07/13/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	205	103	200	8.34	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	230	115	200	2.61	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 91.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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**Analytical Results For:**

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

Received: 07/12/2023  
Reported: 07/17/2023  
Project Name: COTTON DRAW 10"  
Project Number: 32.112443- 103.718743  
Project Location: NEW MEXICO

Sampling Date: 07/12/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: H 12 - 0'-16' (H233553-18)**

BTEX 8021B			mg/kg		Analyzed By: JH/				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/13/2023	ND	2.03	102	2.00	1.76	
Toluene*	<0.050	0.050	07/13/2023	ND	2.01	101	2.00	0.646	
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	2.17	109	2.00	0.767	
Total Xylenes*	<0.150	0.150	07/13/2023	ND	6.53	109	6.00	1.46	
Total BTEX	<0.300	0.300	07/13/2023	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 117 % 71.5-134

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	07/13/2023	ND	416	104	400	3.77	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	205	103	200	8.34	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	230	115	200	2.61	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 98.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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**Analytical Results For:**

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

Received: 07/12/2023  
Reported: 07/17/2023  
Project Name: COTTON DRAW 10"  
Project Number: 32.112443- 103.718743  
Project Location: NEW MEXICO

Sampling Date: 07/12/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: H 13 - 0'-16' (H233553-19)**

BTEX 8021B			mg/kg		Analyzed By: JH/				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/13/2023	ND	2.03	102	2.00	1.76	
Toluene*	<0.050	0.050	07/13/2023	ND	2.01	101	2.00	0.646	
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	2.17	109	2.00	0.767	
Total Xylenes*	<0.150	0.150	07/13/2023	ND	6.53	109	6.00	1.46	
Total BTEX	<0.300	0.300	07/13/2023	ND					

Surrogate: 4-Bromofluorobenzene (PII) 117 % 71.5-134

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	07/13/2023	ND	416	104	400	3.77	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	205	103	200	8.34	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	230	115	200	2.61	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 98.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 07/12/2023  
Reported: 07/17/2023  
Project Name: COTTON DRAW 10"  
Project Number: 32.112443- 103.718743  
Project Location: NEW MEXICO

Sampling Date: 07/12/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: H 14 - 0'-16' (H233553-20)**

BTEX 8021B			mg/kg		Analyzed By: JH/				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/13/2023	ND	2.03	102	2.00	1.76	
Toluene*	<0.050	0.050	07/13/2023	ND	2.01	101	2.00	0.646	
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	2.17	109	2.00	0.767	
Total Xylenes*	<0.150	0.150	07/13/2023	ND	6.53	109	6.00	1.46	
Total BTEX	<0.300	0.300	07/13/2023	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 117 % 71.5-134

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	07/13/2023	ND	416	104	400	3.77	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	205	103	200	8.34	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	230	115	200	2.61	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 97.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 07/12/2023  
Reported: 07/17/2023  
Project Name: COTTON DRAW 10"  
Project Number: 32.112443- 103.718743  
Project Location: NEW MEXICO

Sampling Date: 07/12/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: H 15 - 0'-16' (H233553-21)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/13/2023	ND	2.03	102	2.00	1.76	
Toluene*	<0.050	0.050	07/13/2023	ND	2.01	101	2.00	0.646	
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	2.17	109	2.00	0.767	
Total Xylenes*	<0.150	0.150	07/13/2023	ND	6.53	109	6.00	1.46	
Total BTEX	<0.300	0.300	07/13/2023	ND					

Surrogate: 4-Bromofluorobenzene (PII) 117 % 71.5-134

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	07/13/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	205	103	200	8.34	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	230	115	200	2.61	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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**Analytical Results For:**

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

Received: 07/12/2023  
Reported: 07/17/2023  
Project Name: COTTON DRAW 10"  
Project Number: 32.112443- 103.718743  
Project Location: NEW MEXICO

Sampling Date: 07/12/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: H 16 - 0'-16' (H233553-22)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/13/2023	ND	2.03	102	2.00	1.76	
Toluene*	<0.050	0.050	07/13/2023	ND	2.01	101	2.00	0.646	
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	2.17	109	2.00	0.767	
Total Xylenes*	<0.150	0.150	07/13/2023	ND	6.53	109	6.00	1.46	
Total BTEX	<0.300	0.300	07/13/2023	ND					

Surrogate: 4-Bromofluorobenzene (PII) 117 % 71.5-134

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	07/13/2023	ND	416	104	400	7.41	

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	07/14/2023	ND	205	103	200	8.34	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	230	115	200	2.61	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 99.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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**Analytical Results For:**

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

Received: 07/12/2023  
Reported: 07/17/2023  
Project Name: COTTON DRAW 10"  
Project Number: 32.112443- 103.718743  
Project Location: NEW MEXICO

Sampling Date: 07/12/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: H 17 - 0'-16' (H233553-23)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/13/2023	ND	2.03	102	2.00	1.76	
Toluene*	<0.050	0.050	07/13/2023	ND	2.01	101	2.00	0.646	
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	2.17	109	2.00	0.767	
Total Xylenes*	<0.150	0.150	07/13/2023	ND	6.53	109	6.00	1.46	
Total BTEX	<0.300	0.300	07/13/2023	ND					

Surrogate: 4-Bromofluorobenzene (PII) 119 % 71.5-134

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	07/13/2023	ND	416	104	400	7.41	

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	07/14/2023	ND	205	103	200	8.34	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	230	115	200	2.61	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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**Analytical Results For:**

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

Received: 07/12/2023  
Reported: 07/17/2023  
Project Name: COTTON DRAW 10"  
Project Number: 32.112443- 103.718743  
Project Location: NEW MEXICO

Sampling Date: 07/12/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: H 18 - 0'-16' (H233553-24)**

BTEX 8021B			mg/kg		Analyzed By: JH/				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/13/2023	ND	2.03	102	2.00	1.76	
Toluene*	<0.050	0.050	07/13/2023	ND	2.01	101	2.00	0.646	
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	2.17	109	2.00	0.767	
Total Xylenes*	<0.150	0.150	07/13/2023	ND	6.53	109	6.00	1.46	
Total BTEX	<0.300	0.300	07/13/2023	ND					

Surrogate: 4-Bromofluorobenzene (PII) 116 % 71.5-134

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	07/13/2023	ND	416	104	400	7.41	

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	07/14/2023	ND	205	103	200	8.34	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	230	115	200	2.61	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 87.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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**Analytical Results For:**

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

Received: 07/12/2023  
Reported: 07/17/2023  
Project Name: COTTON DRAW 10"  
Project Number: 32.112443- 103.718743  
Project Location: NEW MEXICO

Sampling Date: 07/12/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: H 19 - 0'-16' (H233553-25)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/13/2023	ND	2.03	102	2.00	1.76	
Toluene*	<0.050	0.050	07/13/2023	ND	2.01	101	2.00	0.646	
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	2.17	109	2.00	0.767	
Total Xylenes*	<0.150	0.150	07/13/2023	ND	6.53	109	6.00	1.46	
Total BTEX	<0.300	0.300	07/13/2023	ND					

Surrogate: 4-Bromofluorobenzene (PII) 116 % 71.5-134

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	07/13/2023	ND	416	104	400	7.41	

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	07/14/2023	ND	205	103	200	8.34	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	230	115	200	2.61	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 121 % 48.2-134

Surrogate: 1-Chlorooctadecane 135 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 07/12/2023  
Reported: 07/17/2023  
Project Name: COTTON DRAW 10"  
Project Number: 32.112443- 103.718743  
Project Location: NEW MEXICO

Sampling Date: 07/12/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: H 20 - 0'-16' (H233553-26)**

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	07/13/2023	ND	1.99	99.5	2.00	1.53	
Toluene*	<0.050	0.050	07/13/2023	ND	1.99	99.3	2.00	1.32	
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	1.99	99.4	2.00	1.23	
Total Xylenes*	<0.150	0.150	07/13/2023	ND	5.87	97.8	6.00	1.40	
Total BTEX	<0.300	0.300	07/13/2023	ND					

Surrogate: 4-Bromofluorobenzene (PII) 106 % 71.5-134

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	07/13/2023	ND	416	104	400	7.41	

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	07/14/2023	ND	205	103	200	8.34	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	230	115	200	2.61	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 122 % 48.2-134

Surrogate: 1-Chlorooctadecane 136 % 49.1-148

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**Analytical Results For:**

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

Received: 07/12/2023  
Reported: 07/17/2023  
Project Name: COTTON DRAW 10"  
Project Number: 32.112443- 103.718743  
Project Location: NEW MEXICO

Sampling Date: 07/12/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: H 21 - 0'-6' (H233553-27)**

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	07/13/2023	ND	1.99	99.5	2.00	1.53	
Toluene*	<0.050	0.050	07/13/2023	ND	1.99	99.3	2.00	1.32	
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	1.99	99.4	2.00	1.23	
Total Xylenes*	<0.150	0.150	07/13/2023	ND	5.87	97.8	6.00	1.40	
Total BTEX	<0.300	0.300	07/13/2023	ND					

Surrogate: 4-Bromofluorobenzene (PII) 108 % 71.5-134

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	07/13/2023	ND	416	104	400	7.41	

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	07/14/2023	ND	213	106	200	0.650	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	206	103	200	2.60	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 07/12/2023  
Reported: 07/17/2023  
Project Name: COTTON DRAW 10"  
Project Number: 32.112443- 103.718743  
Project Location: NEW MEXICO

Sampling Date: 07/12/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: H 22 - 0'-6' (H233553-28)**

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	07/13/2023	ND	1.99	99.5	2.00	1.53	
Toluene*	<0.050	0.050	07/13/2023	ND	1.99	99.3	2.00	1.32	
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	1.99	99.4	2.00	1.23	
Total Xylenes*	<0.150	0.150	07/13/2023	ND	5.87	97.8	6.00	1.40	
Total BTEX	<0.300	0.300	07/13/2023	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 107 % 71.5-134

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	07/13/2023	ND	416	104	400	7.41	

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	07/14/2023	ND	213	106	200	0.650	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	206	103	200	2.60	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 07/12/2023  
Reported: 07/17/2023  
Project Name: COTTON DRAW 10"  
Project Number: 32.112443- 103.718743  
Project Location: NEW MEXICO

Sampling Date: 07/12/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: H 23 - 0'-4' (H233553-29)**

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	07/13/2023	ND	1.99	99.5	2.00	1.53	
Toluene*	<0.050	0.050	07/13/2023	ND	1.99	99.3	2.00	1.32	
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	1.99	99.4	2.00	1.23	
Total Xylenes*	<0.150	0.150	07/13/2023	ND	5.87	97.8	6.00	1.40	
Total BTEX	<0.300	0.300	07/13/2023	ND					

Surrogate: 4-Bromofluorobenzene (PII) 110 % 71.5-134

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	07/13/2023	ND	416	104	400	7.41	

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	07/14/2023	ND	213	106	200	0.650	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	206	103	200	2.60	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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**Analytical Results For:**

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

Received: 07/12/2023  
Reported: 07/17/2023  
Project Name: COTTON DRAW 10"  
Project Number: 32.112443- 103.718743  
Project Location: NEW MEXICO

Sampling Date: 07/12/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: H 24 - 0'-4' (H233553-30)**

BTEX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/13/2023	ND	1.99	99.5	2.00	1.53	
Toluene*	<0.050	0.050	07/13/2023	ND	1.99	99.3	2.00	1.32	
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	1.99	99.4	2.00	1.23	
Total Xylenes*	<0.150	0.150	07/13/2023	ND	5.87	97.8	6.00	1.40	
Total BTEX	<0.300	0.300	07/13/2023	ND					

Surrogate: 4-Bromofluorobenzene (PII) 105 % 71.5-134

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	07/13/2023	ND	416	104	400	7.41	

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	07/14/2023	ND	213	106	200	0.650	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	206	103	200	2.60	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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**Analytical Results For:**

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

Received: 07/12/2023  
Reported: 07/17/2023  
Project Name: COTTON DRAW 10"  
Project Number: 32.112443- 103.718743  
Project Location: NEW MEXICO

Sampling Date: 07/12/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: H 25 - 0'-4' (H233553-31)**

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	07/13/2023	ND	1.99	99.5	2.00	1.53	
Toluene*	<0.050	0.050	07/13/2023	ND	1.99	99.3	2.00	1.32	
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	1.99	99.4	2.00	1.23	
Total Xylenes*	<0.150	0.150	07/13/2023	ND	5.87	97.8	6.00	1.40	
Total BTEX	<0.300	0.300	07/13/2023	ND					

Surrogate: 4-Bromofluorobenzene (PII) 109 % 71.5-134

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	07/13/2023	ND	416	104	400	7.41	

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	07/14/2023	ND	213	106	200	0.650	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	206	103	200	2.60	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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**Analytical Results For:**

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

Received: 07/12/2023  
Reported: 07/17/2023  
Project Name: COTTON DRAW 10"  
Project Number: 32.112443- 103.718743  
Project Location: NEW MEXICO

Sampling Date: 07/12/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: H 26 - 0'-4' (H233553-32)**

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	07/13/2023	ND	1.99	99.5	2.00	1.53	
Toluene*	<0.050	0.050	07/13/2023	ND	1.99	99.3	2.00	1.32	
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	1.99	99.4	2.00	1.23	
Total Xylenes*	<0.150	0.150	07/13/2023	ND	5.87	97.8	6.00	1.40	
Total BTEX	<0.300	0.300	07/13/2023	ND					

Surrogate: 4-Bromofluorobenzene (PII) 111 % 71.5-134

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	07/13/2023	ND	416	104	400	7.41	

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	07/14/2023	ND	213	106	200	0.650	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	206	103	200	2.60	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 97.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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**Analytical Results For:**

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

Received: 07/12/2023  
Reported: 07/17/2023  
Project Name: COTTON DRAW 10"  
Project Number: 32.112443- 103.718743  
Project Location: NEW MEXICO

Sampling Date: 07/12/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: H 27 - 0'-4' (H233553-33)**

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	07/13/2023	ND	1.99	99.5	2.00	1.53	
Toluene*	<0.050	0.050	07/13/2023	ND	1.99	99.3	2.00	1.32	
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	1.99	99.4	2.00	1.23	
Total Xylenes*	<0.150	0.150	07/13/2023	ND	5.87	97.8	6.00	1.40	
Total BTEX	<0.300	0.300	07/13/2023	ND					

Surrogate: 4-Bromofluorobenzene (PII) 111 % 71.5-134

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	07/13/2023	ND	416	104	400	7.41	

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	07/14/2023	ND	213	106	200	0.650	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	206	103	200	2.60	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 96.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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**Analytical Results For:**

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

Received: 07/12/2023  
Reported: 07/17/2023  
Project Name: COTTON DRAW 10"  
Project Number: 32.112443- 103.718743  
Project Location: NEW MEXICO

Sampling Date: 07/12/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: H 28 - 0'-4' (H233553-34)**

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	07/13/2023	ND	1.99	99.5	2.00	1.53	
Toluene*	<0.050	0.050	07/13/2023	ND	1.99	99.3	2.00	1.32	
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	1.99	99.4	2.00	1.23	
Total Xylenes*	<0.150	0.150	07/13/2023	ND	5.87	97.8	6.00	1.40	
Total BTEX	<0.300	0.300	07/13/2023	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 111 % 71.5-134

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	07/13/2023	ND	416	104	400	7.41	

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	07/14/2023	ND	213	106	200	0.650	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	206	103	200	2.60	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 85.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.6 % 49.1-148

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**Analytical Results For:**

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

Received: 07/12/2023  
Reported: 07/17/2023  
Project Name: COTTON DRAW 10"  
Project Number: 32.112443- 103.718743  
Project Location: NEW MEXICO

Sampling Date: 07/12/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: H 29 - 0'-4' (H233553-35)**

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	07/13/2023	ND	1.99	99.5	2.00	1.53	
Toluene*	<0.050	0.050	07/13/2023	ND	1.99	99.3	2.00	1.32	
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	1.99	99.4	2.00	1.23	
Total Xylenes*	<0.150	0.150	07/13/2023	ND	5.87	97.8	6.00	1.40	
Total BTEX	<0.300	0.300	07/13/2023	ND					

Surrogate: 4-Bromofluorobenzene (PII) 108 % 71.5-134

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	07/13/2023	ND	416	104	400	7.41	

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	07/14/2023	ND	213	106	200	0.650	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	206	103	200	2.60	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 87.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.7 % 49.1-148

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**Analytical Results For:**

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

Received: 07/12/2023  
Reported: 07/17/2023  
Project Name: COTTON DRAW 10"  
Project Number: 32.112443- 103.718743  
Project Location: NEW MEXICO

Sampling Date: 07/12/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: H 30 - 6'-16' (H233553-36)**

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	07/13/2023	ND	1.99	99.5	2.00	1.53	
Toluene*	<0.050	0.050	07/13/2023	ND	1.99	99.3	2.00	1.32	
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	1.99	99.4	2.00	1.23	
Total Xylenes*	<0.150	0.150	07/13/2023	ND	5.87	97.8	6.00	1.40	
Total BTEX	<0.300	0.300	07/13/2023	ND					

Surrogate: 4-Bromofluorobenzene (PII) 110 % 71.5-134

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	07/13/2023	ND	416	104	400	7.41	

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	07/14/2023	ND	213	106	200	0.650	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	206	103	200	2.60	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 98.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 07/12/2023  
Reported: 07/17/2023  
Project Name: COTTON DRAW 10"  
Project Number: 32.112443- 103.718743  
Project Location: NEW MEXICO

Sampling Date: 07/12/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: H 31 - 6'-16' (H233553-37)**

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	07/13/2023	ND	1.99	99.5	2.00	1.53	
Toluene*	<0.050	0.050	07/13/2023	ND	1.99	99.3	2.00	1.32	
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	1.99	99.4	2.00	1.23	
Total Xylenes*	<0.150	0.150	07/13/2023	ND	5.87	97.8	6.00	1.40	
Total BTEX	<0.300	0.300	07/13/2023	ND					

Surrogate: 4-Bromofluorobenzene (PII) 112 % 71.5-134

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	07/13/2023	ND	416	104	400	7.41	

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	07/14/2023	ND	213	106	200	0.650	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	206	103	200	2.60	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

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

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager





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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <b>ETC</b> Project Manager: <b>Dean Emerson</b> Address: City: <b>Sal</b> State: <b>NM</b> Zip: Phone #: Fax #: Project #: Project Name: <b>Cotton Draw 18"</b> Project Location: <b>32,112443 -103,718743</b> Sampler Name: <b>M. Michael Ball</b>				<b>BILL TO</b> P.O. #: Company: Attn: Address: City: State: Zip: Phone #: Fax #:			
FOR LAB USE ONLY Lab I.D. Sample I.D.				ANALYSIS REQUEST			
H233533 1 V11-16' 2 V12-16' 3 V13-16' 4 V14-16' 5 V15-16' 6 V16-16' 7 V17-16' 8 V18-16' 9 V19-16' 10 V20-16'				(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:			
DATE TIME 7/12/23 10:00				CL TPH BTEX			
RECEIVED BY: <b>M. Michael Ball</b> DATE: <b>7/12/23</b> TIME: <b>12:23</b>				CHECKED BY: <b>(initials)</b> DATE: <b>7/12/23</b> TIME: <b>10:00</b>			
REMARKS: <b>WBS # E-22012-6L-21300257</b>				Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:			



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:	ETC	P.O. #:	
Project Manager:	Dean Erickson	Company:	
Address:		Attn:	
City:		Address:	
Phone #:		City:	
Project #:		State:	
Project Name:	Cotton Draw 10"	Zip:	
Project Location:	32.112443, -103.718743	Phone #:	
Sampler Name:	Michael Bell	Fax #:	

Address:		City:		State:		Zip:		Company:		F.O. #:	
Phone #:		Fax #:		Project Owner:		City:		Address:		Attn:	
Project #:		Project Name:		Project Location:		State:		Zip:		Phone #:	
Sample Name:		Michael Bell		32.112443, -103.718743		Fax #:		PRESERV		SAMPLING	
FOR LAB USE ONLY		Lab I.D.		Sample I.D.		MATRIX		DATE		TIME	
H33553		11		V21-6'		(G)RAB OR (C)OMP.		7/12/23		10:00	
12		V22-4'		C 1		# CONTAINERS		GROUNDWATER		WASTEWATER	
13		V23-4'		C 1		SOIL		OIL		SLUDGE	
14		V24-4'		C 1		OTHER :		ACID/BASE:		ICE / COOL	
15		V25-4'		C 1		OTHER :		OTHER :		OTHER :	
16		V26-4'		C 1		DATE		TIME		CC	
17		V27-4'		C 1		TPH		BTEX			

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CHAIN OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <b>ETC</b>		P.O. #:		BILL TO												ANALYSIS REQUEST																											
Project Manager: <b>Dean Erickson</b>		City: <b>Sal</b> State: <b>NM</b> Zip: <b></b>		Company:																																							
Address:		Phone #: <b></b> Fax #: <b></b>		Attn:																																							
Project #:		Project Owner:		Address:																																							
Project Name: <b>Cotton Draw ID "</b>		City:		State:		Zip:																																					
Project Location: <b>32.112443, -103.718743</b>		Phone #:		Fax #:																																							
Sampler Name: <b>Michael Bell</b>		FOR LAB USE ONLY		PRESERV		SAMPLING																																					
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME															
18 H12 - 0'-16'		C1		C1		C1		C1		C1		C1		C1		C1		C1		C1		C1		C1		7/12/23		10:00		CL TPH BTEX													
19 H13 - 0'-16'		C1		C1		C1		C1		C1		C1		C1		C1		C1		C1		C1		C1																			
20 H14 - 0'-16'		C1		C1		C1		C1		C1		C1		C1		C1		C1		C1		C1		C1																			
21 H15 - 0'-16'		C1		C1		C1		C1		C1		C1		C1		C1		C1		C1		C1		C1																			
22 H16 - 0'-16'		C1		C1		C1		C1		C1		C1		C1		C1		C1		C1		C1		C1																			
23 H17 - 0'-16'		C1		C1		C1		C1		C1		C1		C1		C1		C1		C1		C1		C1																			
24 H18 - 0'-16'		C1		C1		C1		C1		C1		C1		C1		C1		C1		C1		C1		C1																			
25 H19 - 0'-16'		C1		C1		C1		C1		C1		C1		C1		C1		C1		C1		C1		C1																			
26 H20 - 0'-16'		C1		C1		C1		C1		C1		C1		C1		C1		C1		C1		C1		C1																			
27 H21 - 0'-16'		C1		C1		C1		C1		C1		C1		C1		C1		C1		C1		C1		C1																			
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Delivered By: (Circle One)		Observed Temp. °C <b>31</b>		Corrected Temp. °C <b></b>		Sample Condition: <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Cool <input type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: <b>(initials)</b>		Turnaround Time: <b>Standard</b> <input checked="" type="checkbox"/> Rush <input type="checkbox"/>		Thermometer ID: <b>#140</b>		Correction Factor: <b>-0.02</b>		Bacteria (only) <input type="checkbox"/> Sample Condition: <input type="checkbox"/> Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Observed Temp. °C <b></b>		Corrected Temp. °C <b></b>																							
Sampler - UPS - Bus - Other:		Cardinal cannot accept verbal changes. Please email changes to cely.keene@cardinallabsnm.com																																									



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### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <b>ERC</b>		P.O. #:		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>	
Project Manager: <b>Dean Erickson</b>		Company:					
Address:		Attn:					
City: <b>Sed</b>		Address:					
Phone #: <b>State: NM Zip:</b>		City:					
Project #: <b>Project Owner:</b>		State:					
Project Name: <b>Cotton Draw 10"</b>		Zip:					
Project Location: <b>32.112443, -103.718743</b>		Phone #:					
Sample Name: <b>Michael Bell</b>		Fax #:					

FOR LAB USE ONLY		LAB I.D.		Sample I.D.		Matrix		Preserv		Sampling		
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :
H33553	H22-0'-6'	C	1									
	H23-0'-4'	C	1									
	H24-0'-4'	C	1									
	H25-0'-4'	C	1									
	H26-0'-4'	C	1									
	H27-0'-4'	C	1									
	H28-0'-4'	C	1									
	H29-0'-4'	C	1									
	H30-6'-16'	C	1									
	H31-6'-16'	C	1									

DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME
7/12/23	10:00																

REMARKS:		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #:	
All Results are emailed. Please provide Email address:			

Delivered By: (Circle One)		Observed Temp. °C		Sample Condition		CHECKED BY: (Initials)	
Sampler - UPS - Bus - Other:		Corrected Temp. °C		Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No		70	
Turnaround Time: <b>Standard</b>		Thermometer ID #447 #140		Bacteria (only) Sample Condition		Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No	
Correction Factor: <b>70</b>		7/12/23		Observed Temp. °C		Corrected Temp. °C	





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---

February 07, 2024

DEAN ERICSON

ENERGY TRANSFER

P. O. BOX 1226

JAL, NM 88252

RE: COTTON DRAW

Enclosed are the results of analyses for samples received by the laboratory on 02/02/24 13:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 02/02/2024  
 Reported: 02/07/2024  
 Project Name: COTTON DRAW  
 Project Number: NONE GIVEN  
 Project Location: NEW MEXICO

Sampling Date: 02/02/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: SP 5 - 5.5' (H240510-01)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/05/2024	ND	2.20	110	2.00	8.58	
Toluene*	<0.050	0.050	02/05/2024	ND	2.30	115	2.00	10.8	
Ethylbenzene*	<0.050	0.050	02/05/2024	ND	2.44	122	2.00	12.1	
Total Xylenes*	<0.150	0.150	02/05/2024	ND	7.30	122	6.00	12.2	
Total BTEX	<0.300	0.300	02/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	02/05/2024	ND	416	104	400	7.41	

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	02/05/2024	ND	202	101	200	0.395	
DRO >C10-C28*	<10.0	10.0	02/05/2024	ND	195	97.5	200	0.149	
EXT DRO >C28-C36	<10.0	10.0	02/05/2024	ND					

Surrogate: 1-Chlorooctane 89.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.3 % 49.1-148

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

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---

### Notes and Definitions

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

---

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\*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "Caley D. Keene".

---

Caley D. Keene, Lab Director/Quality Manager



Company Name: GTC

Company Name: <b>ETC</b>		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>	
Project Manager: <b>Winsky News</b>		P.O. #			
Address:		Company: <b>ETC</b>			
City:	State:	Zip:	Attn: <b>Dean Erikson</b>		
Phone #:	Fax #:	Address:			
Project #:	Project Owner:		City:		
Project Name: <b>Cottendraw</b>	State:		Zip:		
Project Location:	Phone #:				
Sampler Name: <b>Budding Mould</b>	Fax #:				
FOR LAB USE ONLY					
<b>H40510</b> <b>Lab I.D.</b>  <b>SP5 - S.S</b>	(G)RAB OR (C)OMP.		DATE		<b>Chloride</b> <b>TPH</b> <b>BTEX</b>
	# CONTAINERS		TIME		
	GROUNDWATER				
	WASTEWATER				
	SOIL				
	OIL				
	SLUDGE				
	OTHER :				
	ACID/BASE:				
	ICE / COOL				
OTHER :					
MATRIX		PRESERV	SAMPLING		
Observed Temp. °C		Sample Condition		CHECKED BY:	
Corrected Temp. °C		Cool Intact		Initials	
#140		<input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Yes <input type="checkbox"/> No	
Time:		Received By:		REMARKS:	
Date:		Received By:		<b>Dean Erikson</b> <b>Dean Erikson</b>	
Time:		Received By:			
Relinquished By:		Relinquished By:			
Delivered By: (Circle One)		Observed Temp. °C		Standard	
Sampler - UPS - Bus - Other:		Corrected Temp. °C		<input type="checkbox"/> Bacteria (only) Sample Condition <input type="checkbox"/> Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Observed Temp. °C <input type="checkbox"/> Corrected Temp. °C	





## Proposed Remediation Plan

**ETC Texas Pipeline, Ltd**

**Cotton Draw Pipeline**

Eddy County, New Mexico

Latitude 32.112443 North, Longitude 103.718743 West

Unit Letter "K", Section 19, Township 25 South, Range 32 East

**NMOCD Incident # nAPP2207343782**

Prepared By:

**Haz Mat Special Services, LLC**

1909 E I-20

Midland, Tx 79701

*Eddie Gaytan*

Eddie Gaytan

Operations Manager

Hgaytan@hazmatspecialservices.com

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June 9, 2022

New Mexico Energy, Minerals & Natural Resources  
NMOCD District 1  
C/O: Mike Bratcher & Robert Hamlet  
1625 N French Drive  
Hobbs, NM 88240

Bureau Of Land Management  
C/O: Shelly Tucker  
620 E. Green Street  
Carlsbad, NM 8820

ETC Texas Pipeline, Ltd.  
600 N Marienfeld St. Suite 700  
Midland, Tx 79701

RE: Remediation Work Plan  
ETC, Texas Pipeline  
Cotton Draw Pipeline  
Latitude 32.112443 North, Longitude 103.718743 West  
Unit Letter "K", Section 19, Township 25 South, Range 32 East  
Eddy County, New Mexico  
**NMOCD Incident # nAPP2207343782**

Haz Mat Special Services, LLC, (HMSS), on behalf of ETC Texas Pipeline, Ltd. submits this *Proposed Remediation Work Plan* to the New Mexico Oil Conservation Division (NMOCD). This Report provides documentation of detailed sampling and proposed remedial actions to address the Cotton Draw Pipeline release. This report serves as a condensed update on field activities undertaken at the afore referenced Site.



Haz Mat Special Services

## Project Information

The site is in Unit Letter K (NE/SW), Section 19, Township 25 South, Range 32 East. The spill area measures approximately 4,000 sq. ft. and is approximately 31 miles west of Jal, New Mexico on Federal Land. Site Map included, respectively. Latitude 32.112443 North, Longitude 103.718743

### 1.0 Background

On March 2, 2022, a release was discovered on the Cotton Draw Pipeline. The release was attributed to corrosion of the pipeline segment releasing approximately 22.1 BBLS of pipeline liquid and 60 mcf of natural gas with zero recovered.

Previously submitted pages of the NMOCD Form C-141 are available on the NMOCD Imaging System. Remediation pages of the NMOCD Form C-141 are included as Attachment V. Topographic Map, OSE POD Locations Map, and USGS Well Locations Map, Delineation Map, and Proposed Excavation Map are included as Figure 1, Figure 2, Figure 3, Figure 4, and Figure 5, respectively.

### 2.0 NMOCD Site Classification:

A search of the New Mexico Office of the State Engineer (NMOSE) and United States Geological Survey (USGS) groundwater databases was completed to determine the horizontal distance to known water sources within a half-mile radius of the Release Site. Probable groundwater depth was determined using data generated by numeric models based on available water well data and published information. Estimated depth to groundwater is approximately 350' Bgs. Data from groundwater research is not within 25 years and is not accordance with NMOCD Rules and Regulations. Therefor, Karst mapping indicates the site is in a Low Karst designated area. Depth to groundwater information is provided as Attachment II and the results are depicted on Figures 1, 2, and 3.

Utilizing this information, the NMOCD Closure Criteria for the Site were determined as follows.





**Table 1**

>100 feet	Chloride***	EPA 300.0 or SM4500 C1 B	20,000 mg/kg	600 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	2,500 mg/kg	100 mg/kg
	GRO+DRO	EPA SW-846 Method 8015M	1,000 mg/kg	N/A mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg	10 mg/kg

\* Measured in milligrams per kilogram (mg/kg)

† Table I, Section 19.15.29.12 of the New Mexico Administrative Code (NMAC).

‡ The NMOCD Reclamation Standard applies only to the top 4' of soil in non-production areas. Section 19.15.29.13 D. (1) NMAC.

### 3.0 Delineation Activities

On April 28, 2022, HMSS, conducted an initial site assessment. During the initial assessment, a series of soil bores were advanced within the release margins to determine the vertical extent of impacted soil. In addition, sample test trenches were advanced along the inferred edges of the affected area to determine the horizontal extent of contamination. During the advancement of the soil bores and test trenches, soil samples were collected, and field screened for the presence of volatile organic compounds via a photoionization detector (PID) and chloride concentrations utilizing a Hach Quan tab® chloride test kit.

- Based on field observations and field test data, HMSS collected (30) thirty representative soil samples for laboratory analysis.
  - Background sample and delineation soil samples represented by SP 1- SP 5 and HZ1-HZ8 were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH or chloride concentrations were below the applicable NMOCD Closure Criteria and/or the NMOCD Reclamation Standard except for SP1-Surf, SP2-Surf, SP3-5, SP4-Surf, SP5-Surf, SP5-5', and HZ6-Surf in each of the submitted soil samples. On May 18, 2022, delineation activities resumed on location. Remaining samples were collected and submitted laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH or chloride concentrations were below the applicable NMOCD Closure Criteria and/or the NMOCD Reclamation Standard apart from SP5-5' and the Horizontal extent was adequately defined.



A delineation Sample Location Map is provided as Figure 4. A summary of Soil Sample Laboratory Analytical Results is provided as Table 2, and Laboratory Analytical Reports are provided as Attachment IV.

## 4.0 PROPOSED ACTIONS

Based on the initial site assessment, and laboratory analytical results made during the initial site assessment, the following remediation activities are proposed to advance the site toward an approved closure:

- All visible staining will be removed and hauled to a state approved disposal facility.
- Based on soil sample analysis and PID readings, the site appears to be delineated both vertically and horizontally apart from SP5 -5'. Full delineation will be completed during final excavation activities.
- ETC respectfully proposes Excavation depths as follows:
  - SP2-Excavate approximately 2' Bgs or until or until laboratory confirmation results show Chloride, TPH, and BTEX are under the NMOCD Closure Criteria reclamation standard.
  - SP3- Excavate approximately 6' Bgs or until or until laboratory confirmation results show Chloride, TPH, and BTEX are under the NMOCD Closure Criteria reclamation standard
  - SP4- Excavate approximately 6" Bgs or until or until laboratory confirmation results show Chloride, TPH, and BTEX are under the NMOCD Closure Criteria reclamation standard.
  - SP5 -- Excavate approximately 7' Bgs or until or until laboratory confirmation results show Chloride, TPH, and BTEX are under the NMOCD Closure Criteria reclamation standard
  - Area represented by HZ 6 excavate a 200sq ft area approximately 1-2' Bgs or until or until laboratory confirmation results show Chloride, TPH, and BTEX are under the NMOCD Closure Criteria reclamation standard.
- GPS time stamped photographs of excavation activities.
- After excavation, confirmation bottom hole and sidewall samples will be collected representing every 200sq.ft and sent to a lab and tested for TPH, BTEX and Chloride. All final confirmation analytical results and remediation activities will be documented in the *Request for Closure Report* submitted after final remediation activities are complete.
- Excavated soil will be transported for disposal to an NMOCD permitted disposal facility.
- Backfill will be sourced from native like material, clean soil, sourced locally from nearby area, approved BLM location.



- All areas will then be reseeded in the appropriate season with a BLM approved seed mix
- A *Request for Closure Report* will be submitted detailing all remediation activities conducted in accordance with the NMOCD.

A Proposed Excavation map is provided as Figure 5, respectively.

## 5.0 Sampling Plan:

Upon completion of excavation activities, confirmation five-point composite soil samples will be collected from the floor and sidewalls of the excavated area representing every 200 square feet.

## Estimated Timeline and Remediation Soil Volume:

Proposed estimated excavation volume: *Approximately 870 cubic yards*

Remediation activities are expected to be completed within 90 days of receiving necessary approval of this *Remediation Work Plan*.

## Restoration, Reclamation, and Re-Vegetation:

Based upon laboratory analytical results from confirmation soil samples, the excavated areas will be backfilled with locally sourced clean, non-impacted “like” material placed at or near relative positions. The affected area will be contoured and/or compacted to achieve erosion control, stability, and preservation of surface water flow to the extent practicable. Affected areas not on production pads and/or lease roads will be reseeded with an agency and/or landowner-approved seed mixture free of noxious weeds during the first favorable growing season following closure of the site.



**Limitations:**

Haz Mat Special Services, LLC, has prepared this *Site Assessment and Proposed Remediation Request* to the best of its ability. No other warranty, expressed or implied, is made or intended. HMSS has examined and relied upon documents referenced in the report and on oral statements made by certain individuals. HMSS has not conducted an independent examination of the facts contained in referenced materials and statements. HMSS has presumed the genuineness of these documents and statements and that the information provided therein is true and accurate. HMSS notes that the facts and conditions referenced in this report may change over time, and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report. HMSS has prepared the report in a professional manner, using the degree of skill and care exercised by similar environmental consultants.

This report has been prepared for the benefit of ETC, Texas Pipeline Ltd. Use of the information contained in this report is prohibited with consent of Haz Mat Special Services and/or Etc. Texas Pipeline, Ltd.

**Distribution:****ETC, Texas Pipeline Ltd.**

600 N. Marienfeld St., Suite 700  
Midland, TX 79701

**New Mexico Energy, Minerals and Natural Resources Department**

Oil Conservation Division, District 1  
1625 N. French Drive  
Hobbs, NM 88240

**United States Department of the Interior**

Bureau Of Land Management  
620 E. Greene Street  
Carlsbad, NM 88220



Haz Mat Special Services



**TABLE 1**  
**Summary of Soil Sample Laboratory Analytical Results**  
**ETC Texas Pipeline, Ltd.**

NMOCD Ref. #: nAPP2207343782											
Sample ID	Date	Depth (ft)	Soil Status	Benzene (mg/kg)	BTEX (mg/kg)	GRO C <sub>6</sub> -C <sub>10</sub> (mg/kg)	DRO C <sub>10</sub> -C <sub>28</sub> (mg/kg)	GRO + DRO C <sub>6</sub> -C <sub>28</sub> (mg/kg)	ORO C <sub>28</sub> -C <sub>36</sub> (mg/kg)	TPH C <sub>6</sub> -C <sub>36</sub> (mg/kg)	Chloride (mg/kg)
SP 1	4/28/22	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96
	4/28/22	2'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32
SP 2	5/18/22	Surf	In-Situ	<0.050	19.2	359	<b>2,650</b>	<b>3009</b>	<b>36.6</b>	<b>3,045.6</b>	<b>2,240</b>
	5/18/22	4'	In-Situ	<0.050	<0.300	<10.0	<10.0	0	<10.0	<10.0	48
SP 3	5/18/22	5'	In-Situ	<0.500	153	3170	5,080	<b>8250</b>	<b>182</b>	<b>8,432.0</b>	<b>32</b>
	5/18/22	6'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32
SP 4	4/28/22	Surf	In-Situ	<0.050	<0.300	<10.0	107	107	10.2	<b>117.2</b>	32
	4/28/22	2'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SP5	5/18/22	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32
	5/18/22	5'	In-Situ	<0.050	27.6	704	1990	2694	62.5	2,756.5	64
Background	4/28/22	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32
HZ1	4/28/22	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32
	4/28/22	1'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16
HZ2	4/28/22	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
	4/28/22	1'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
HZ3	4/28/22	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
	4/28/22	1'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16
HZ4	5/18/22	Surf	In-Situ	<0.050	<0.300	10.5	23.7	34.2	<10.0	34.2	80
	5/18/22	1'	In-Situ	<0.050	<0.300	<10.0	39.7	39.7	<10.0	39.7	48
HZ5	5/18/22	Surf	In-Situ	<0.050	<0.300	<10.0	38	38	<10.0	38.0	64
	5/18/22	1'	In-Situ	<0.050	<0.300	<10.0	33	33	<10.0	33.0	48
HZ6	4/28/22	Surf	In-Situ	<0.050	<0.300	<10.0	16.4	<b>16.4</b>	<b>&lt;10.0</b>	<b>16.4</b>	<b>1420</b>
	4/28/22	8'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16
HZ6-A	5/18/22	Surf	In-Situ	<0.050	<0.300	<10.0	20.8	20.8	<10.0	20.8	16
	5/18/22	1'	In-Situ	<0.050	<0.300	<10.0	23.6	23.6	<10.0	23.6	16
HZ7	4/28/22	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32
	4/28/22	1'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
HZ8	4/28/22	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
	4/28/22	1'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0

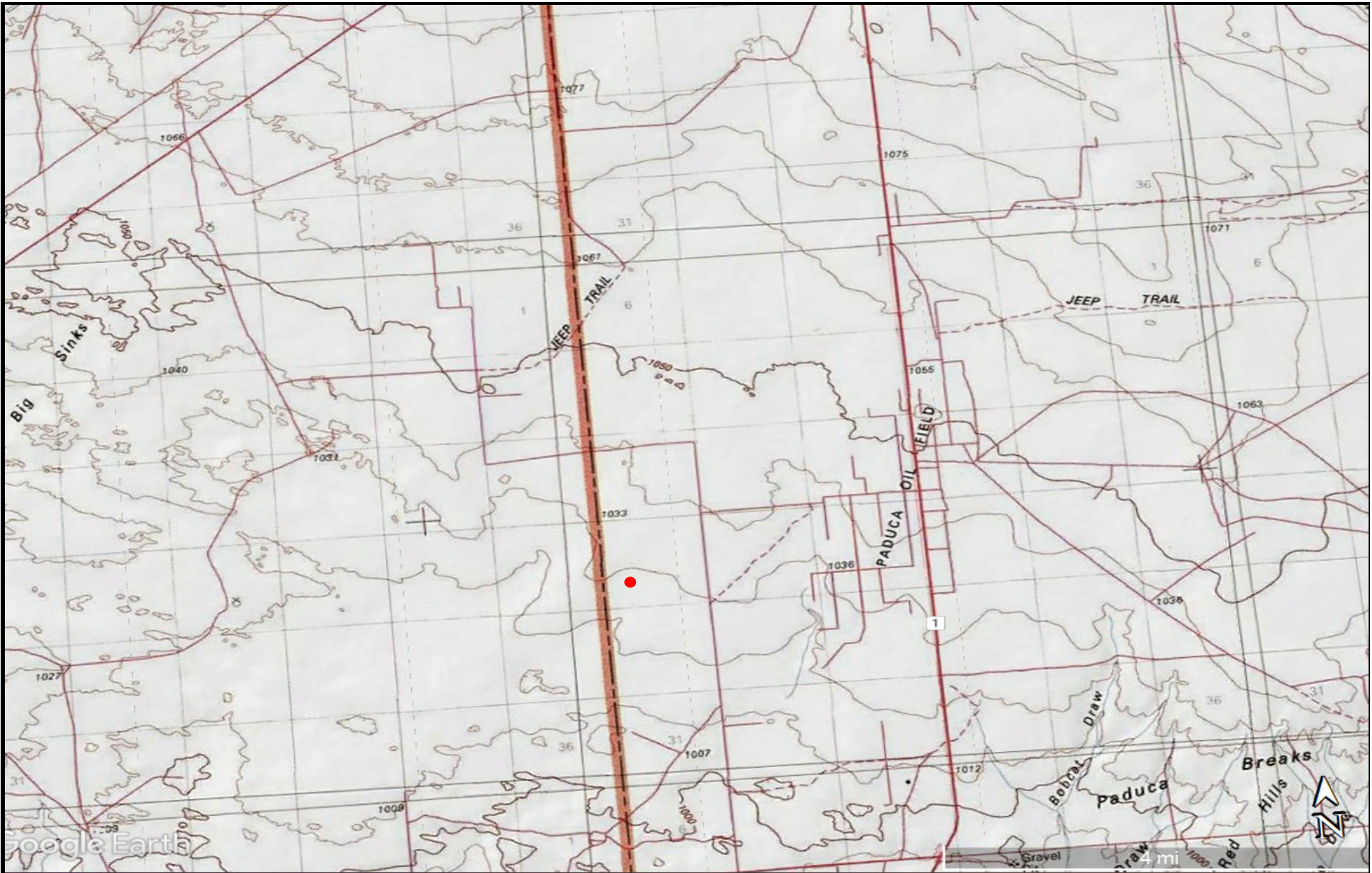
**NOTES:**


- = Sample not analyzed for that constituent.

**Bold** text denotes a concentration that exceeds the NMOCD Closure Criteria

## **Figure 1**

### **Topographic Map**

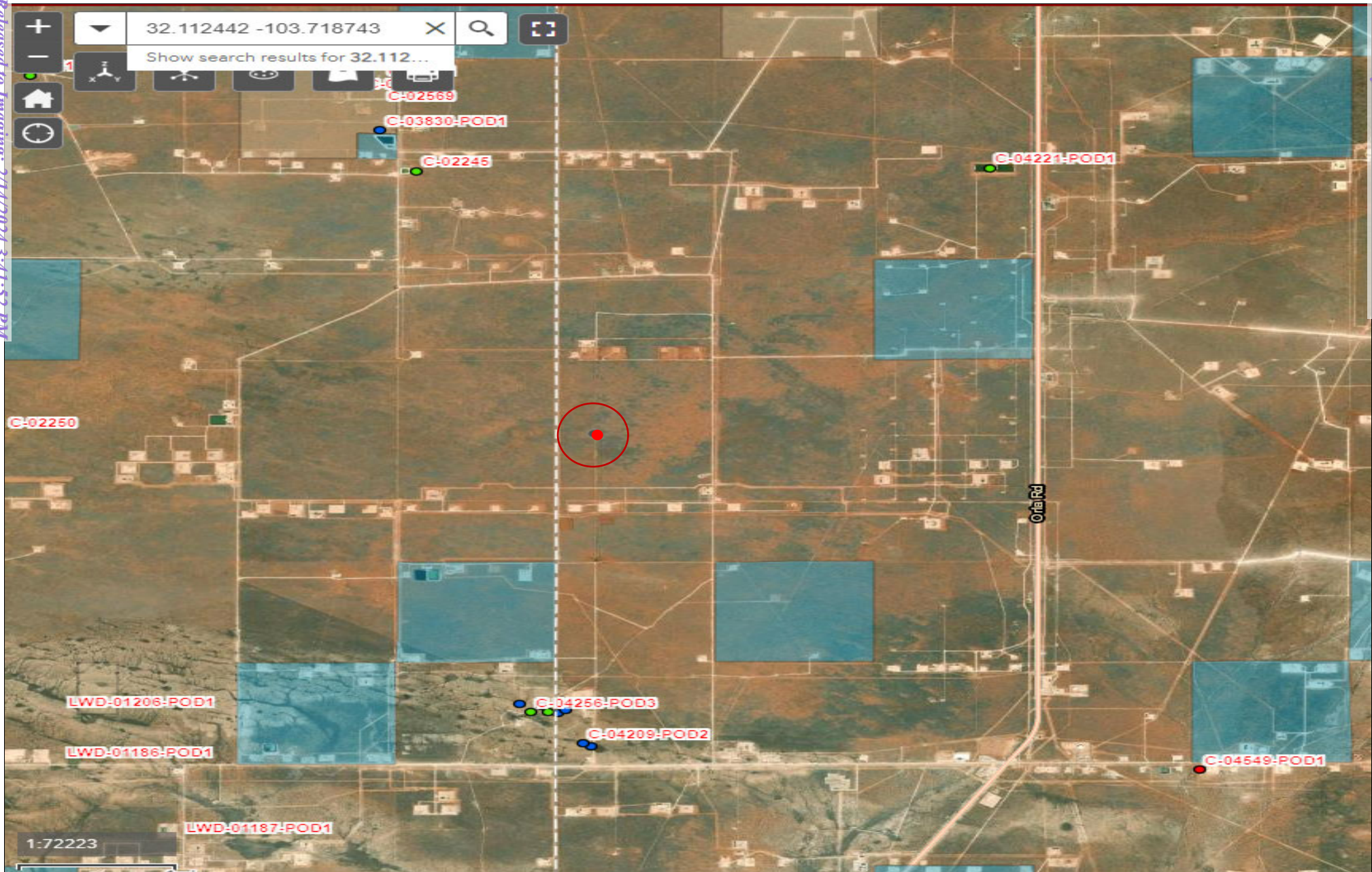



Legend	Topography Map	Figure 1
<p>● Cotton Draw Location</p>	<p>ETC, Texas Pipeline. Ltd. Cotton Draw GPS: 32.112443, -103.718743 Eddy County</p>	

## **Figure 2**

### **OSE Map**

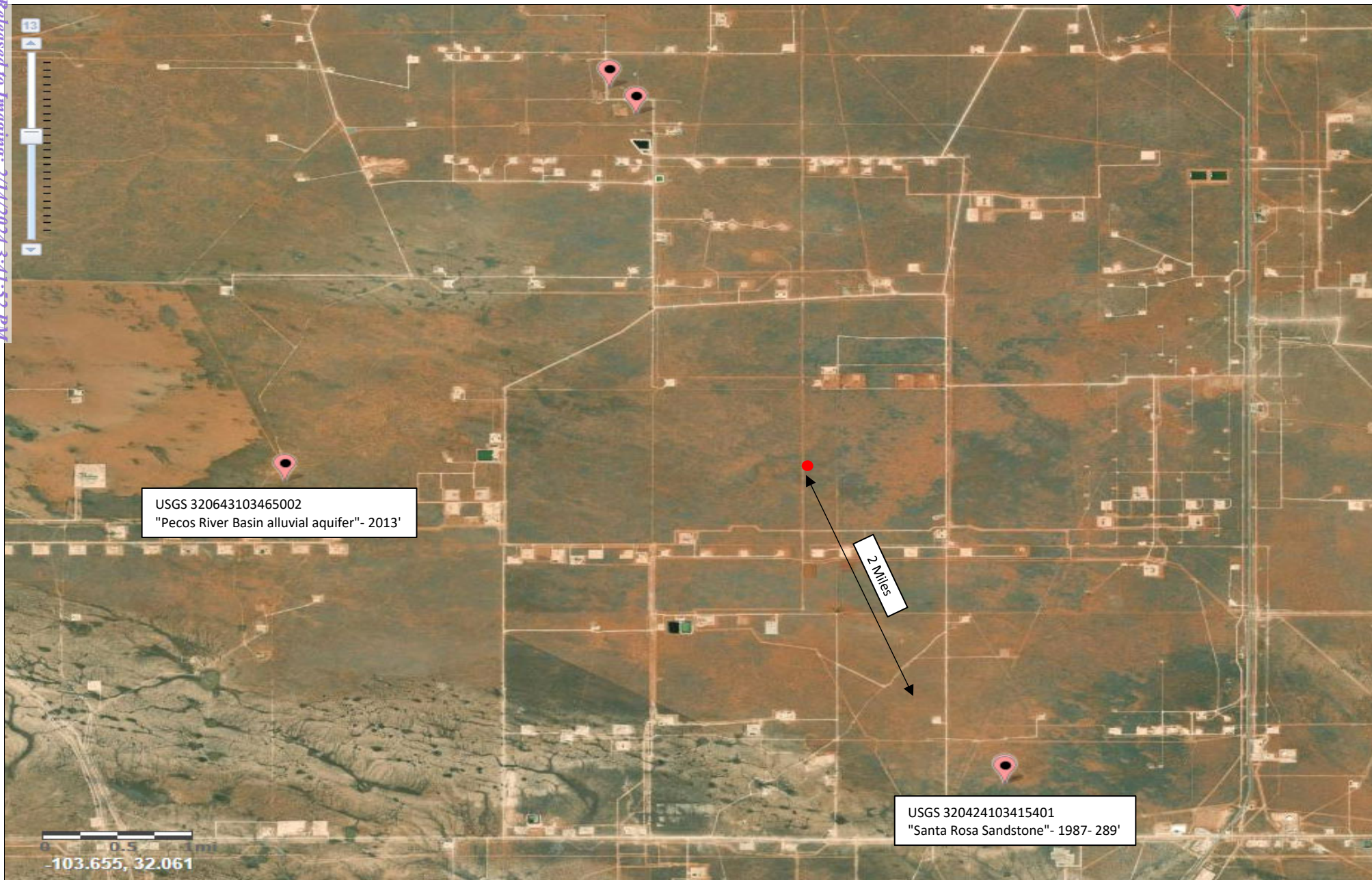





Legend:	OSE POD Locations Map	Figure 2
<ul style="list-style-type: none"><li>● Cotton Draw Pipeline Location</li><li>● Active OSE Water Well</li><li>○ 1/2 Mile radius</li></ul>	<p>ETC Texas Pipeline, Ltd. Cotton Draw Pipeline GPS 32.112442 -103.718743 Eddy County</p>	

**Figure 3**  
**USGS Map**

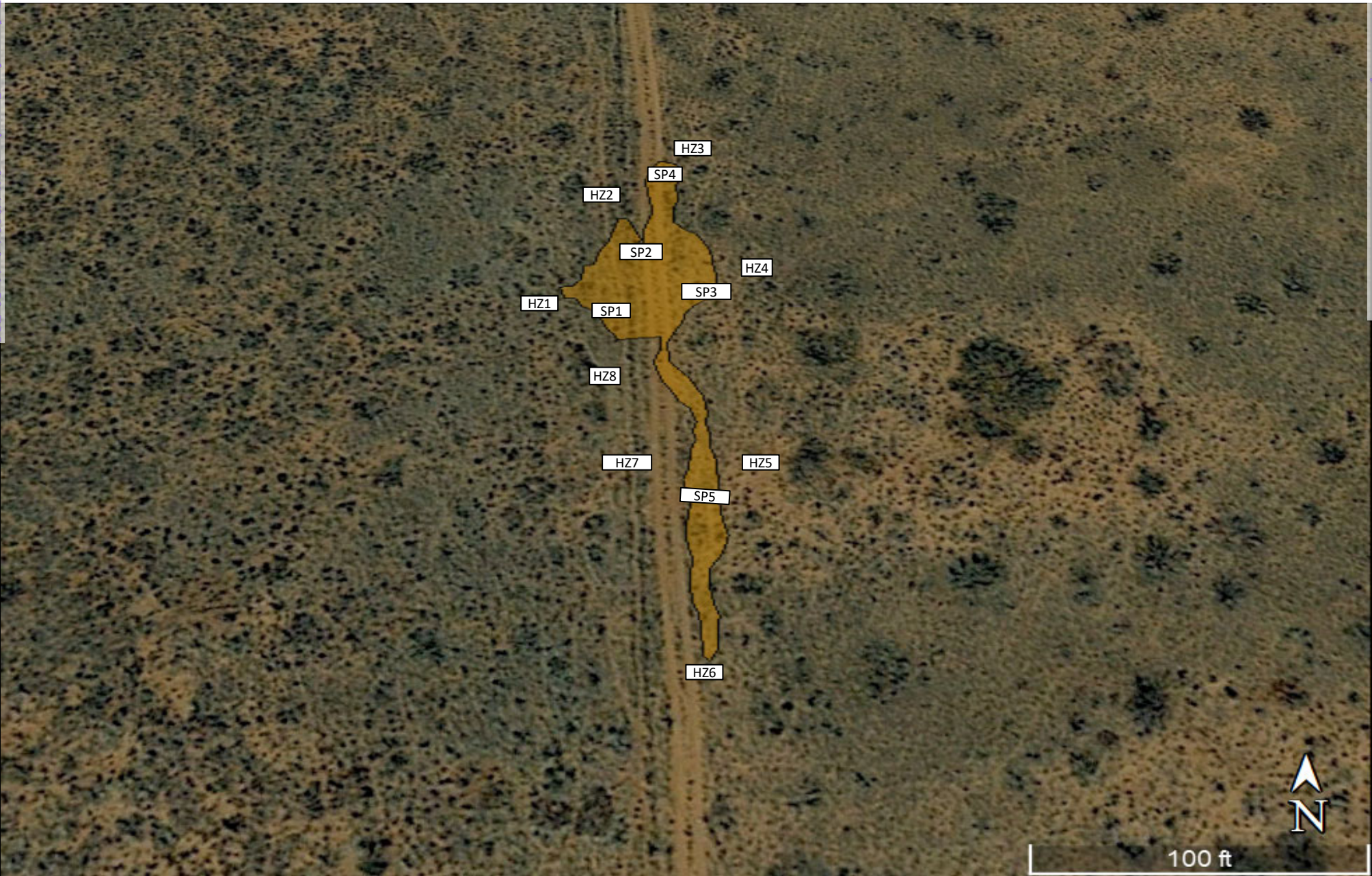




Legend:	USGS Well Locations Map	Figure 3
<p>● Cotton Draw Pipeline Location</p>	<p>ETC Texas Pipeline, Ltd. Cotton Draw Pipeline GPS 32.112443 -103.718743 Eddy County</p>	

**Figure 4**  
**Delineation Sample Location Map**





Legend:	Delineation Sample Map	Figure 4
<div data-bbox="73 1409 128 1442"></div> Release Area <div data-bbox="73 1453 128 1485"></div> Delineation Sample Location	ETC Texas Pipeline, Ltd. Cotton Draw Pipeline GPS: 32.112443 -103.718743 Eddy County New Mexico	<div data-bbox="1780 1396 1921 1539"></div>

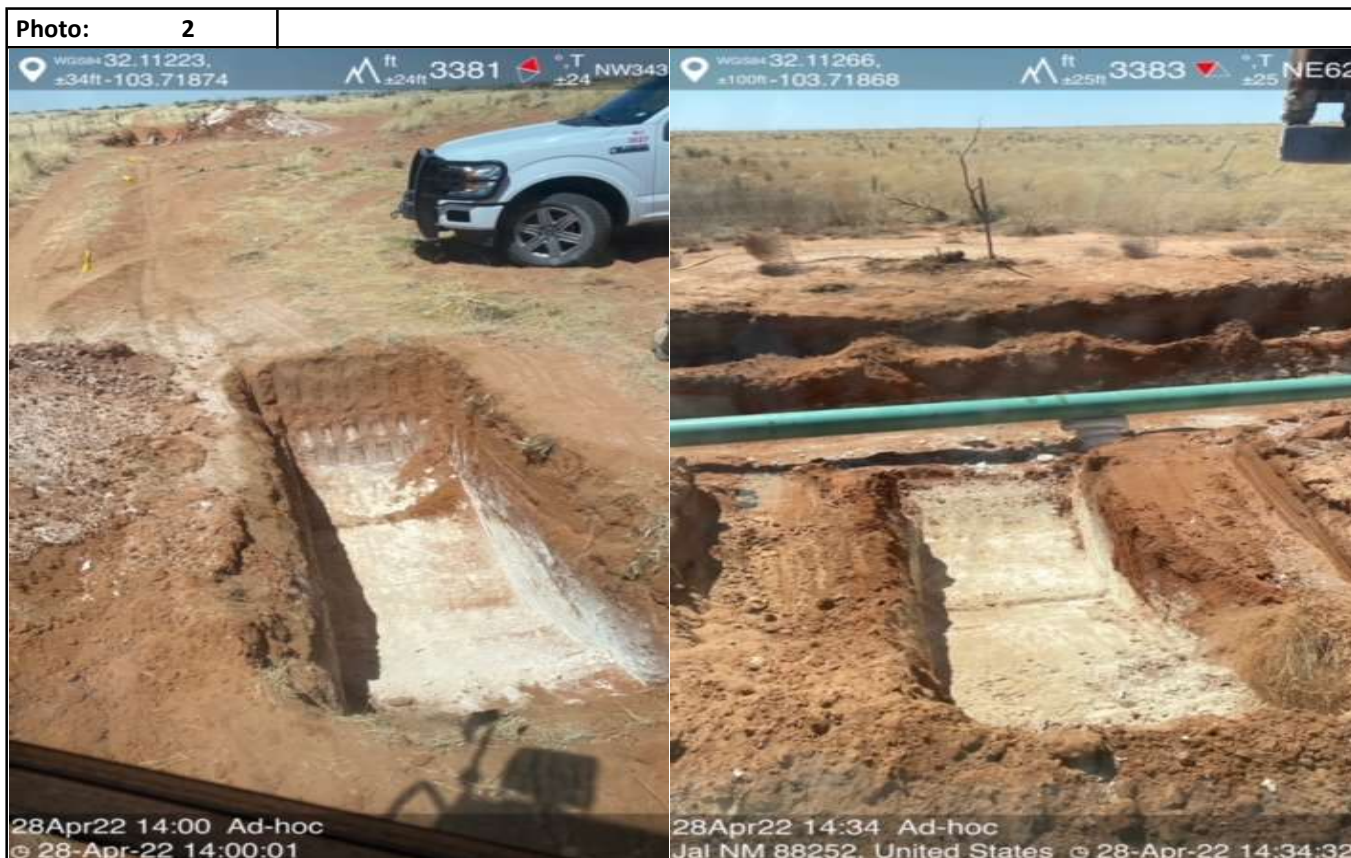
## **Attachment I Site Photographs**



Haz Mat Special Services

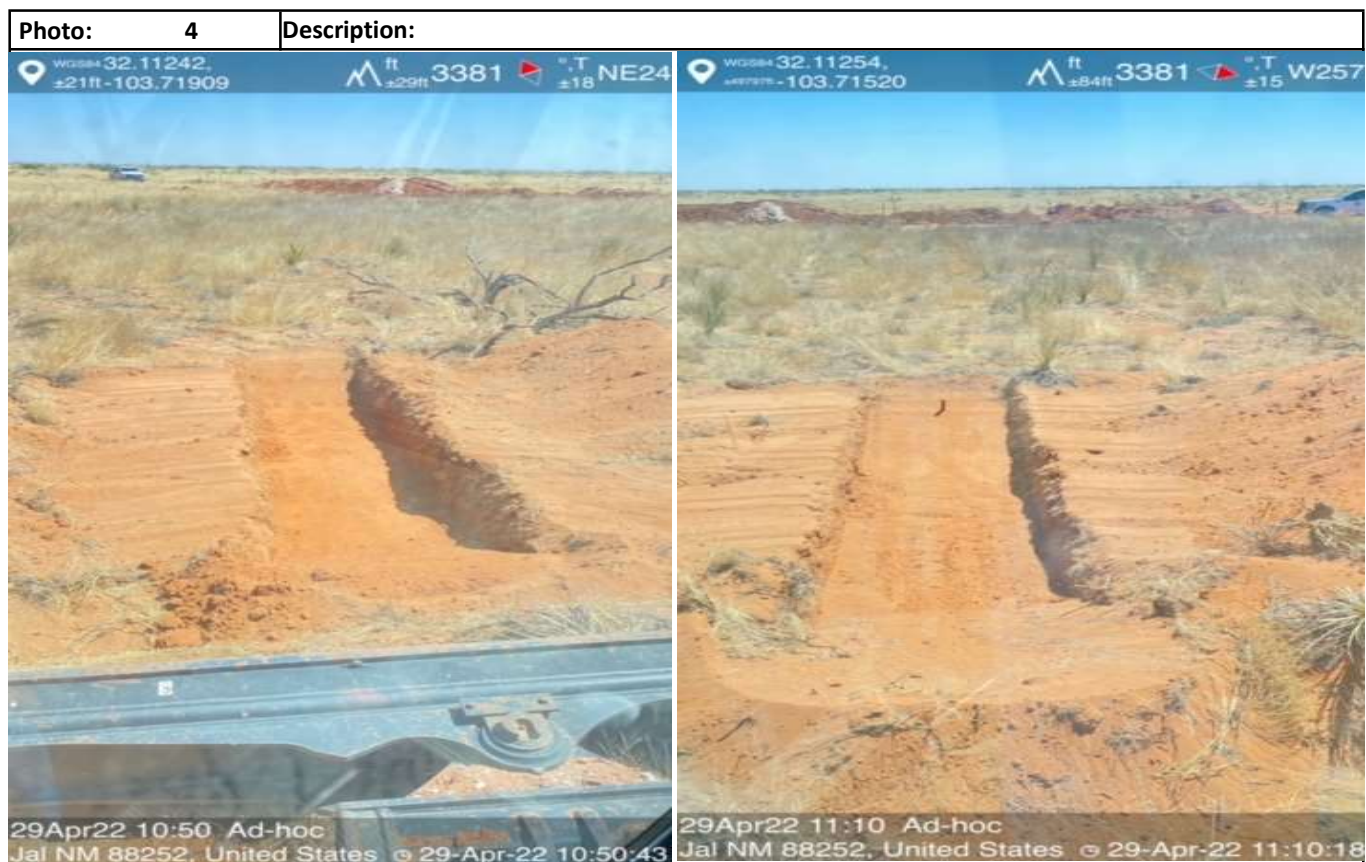


Photographs



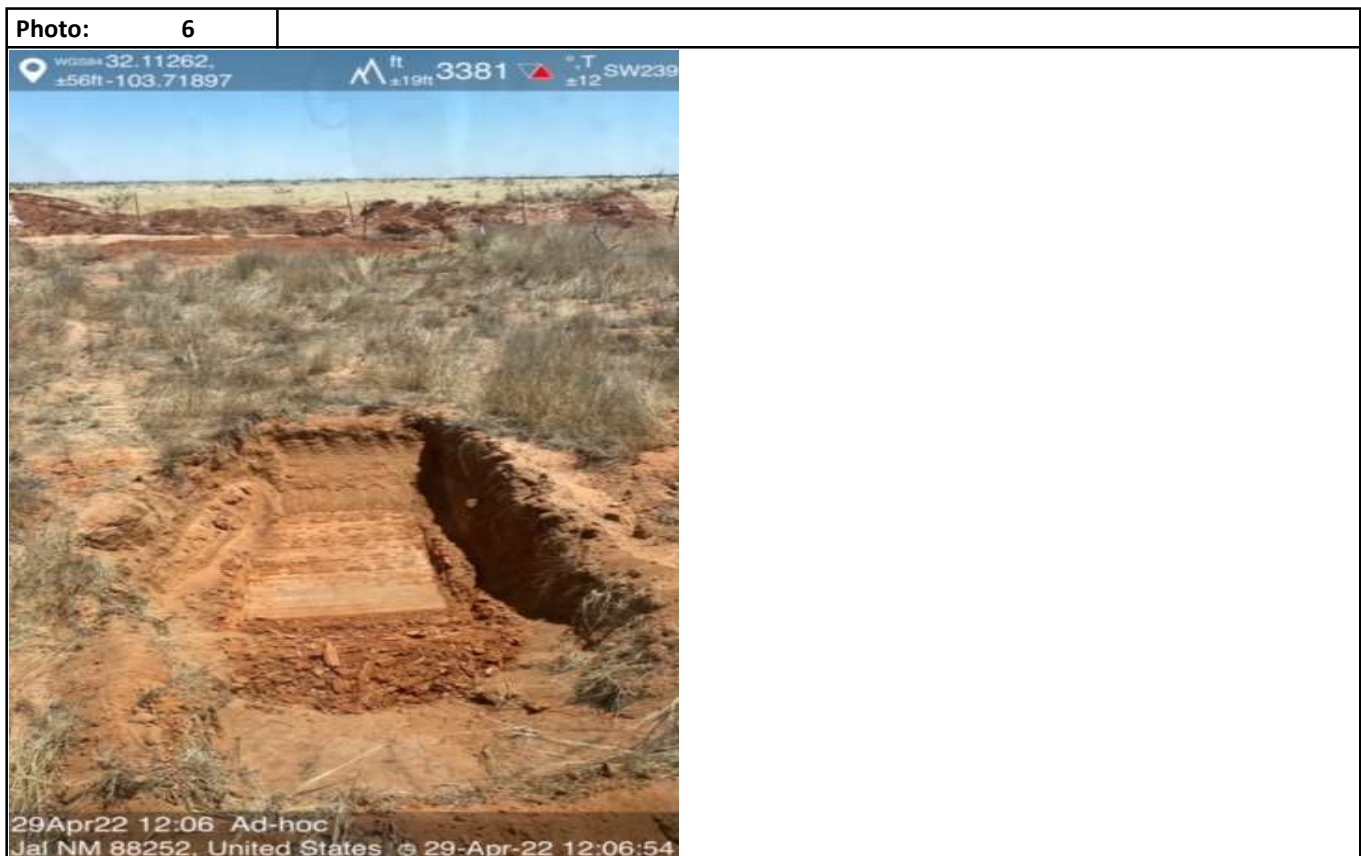
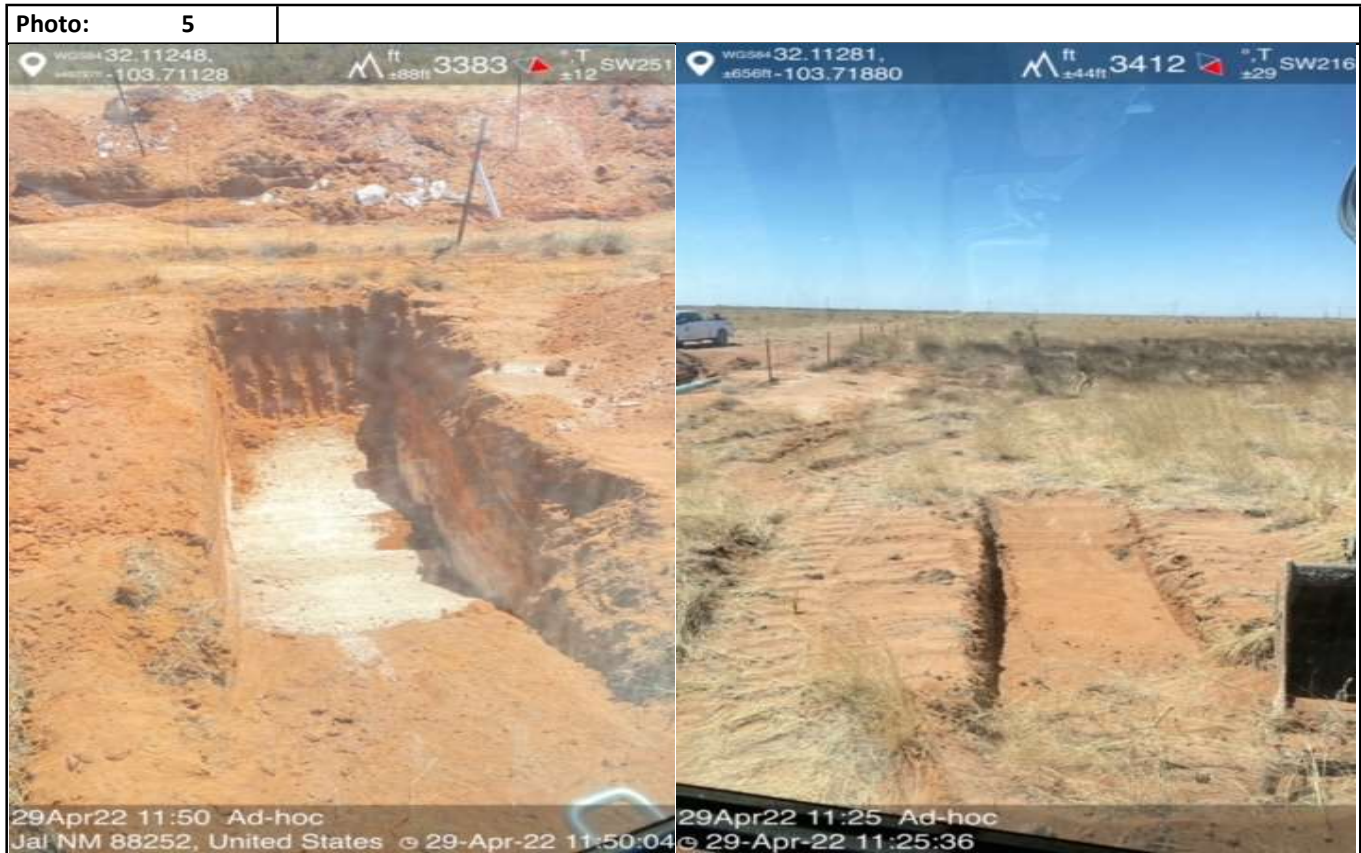


## Photographs





# Photographs



## **Attachment II**

### **Depth to Groundwater**



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# New Mexico Office of the State Engineer

## Water Right Summary



[get image list](#)

**WR File Number:** C 02245      **Subbasin:** C      **Cross Reference:** -

**Primary Purpose:** STK    72-12-1 LIVESTOCK WATERING

**Primary Status:** PMT    PERMIT


**Total Acres:**      **Subfile:** -      **Header:** -

**Total Diversion:** 3      **Cause/Case:** -


**Agent:** TWIN WELLS RANCH LLC

**Contact:** STEVEN MCCUTCHEON

### Documents on File

Trn #	Doc	File/Act	Status		Transaction Desc.	From/ To	Acres	Diversion	Consumptive
			1	2					
<a href="#">722418</a>	<a href="#">COWNF</a>	<a href="#">2022-03-28</a>	CHG	PRC	C 02245	T		0	
	<a href="#">469232</a>	<a href="#">72121_1992-01-28</a>	PMT	APR	C 02245	T		3	

### Current Points of Diversion

POD Number	Well Tag	Source	Q				(NAD83 UTM in meters)		Other Location Desc
			64	Q16	Q4	Sec	Tws	Rng	
<a href="#">C 02245</a>			1	1	12	25S	31E	619018	3557785* 

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

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

4/25/22 9:16 AM

WATER RIGHT SUMMARY



# New Mexico Office of the State Engineer

## Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)				(NAD83 UTM in meters)	
		(quarters are smallest to largest)				X	Y
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tw	Rng
C	02245	1	1	12	25S	31E	619018 3557785*

Driller License:	Driller Company:	
Driller Name:		
Drill Start Date:	Drill Finish Date:	Plug Date:
Log File Date:	PCW Rcv Date:	Source:
Pump Type:	Pipe Discharge Size:	Estimated Yield:
Casing Size:	Depth Well:	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.





# 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	Tw	Rng	X	Y
NA	C 04209 POD1	2	3	3	06	26S	32E	620903	3548619

Driller License: 1706

Driller Company: ELITE DRILLERS CORPORATION

Driller Name: BRYCE WALLACE

Drill Start Date: 04/28/2018

Drill Finish Date: 05/01/2018

Plug Date:

Log File Date: 05/21/2018

PCW Rev Date:

Source: Shallow

Pump Type:

Pipe Discharge Size:

Estimated Yield: 25 GPM

Casing Size: 6.00

Depth Well: 360 feet

Depth Water: 155 feet

Water Bearing Stratifications:

Top Bottom Description

15 350 Sandstone/Gravel/Conglomerate

Casing Perforations:

Top Bottom

200 360

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.



# New Mexico Office of the State Engineer

## Water Right Summary


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WR File Number: C 04209

Subbasin: CUB

Cross Reference: -

Primary Purpose: EXP EXPLORATION

Primary Status: PMT PERMIT

Total Acres:

Subfile: -

Header: -

Total Diversion: 0

Cause/Case: -

Owner: BAKER RANCH

Contact: DAVE ANDERSEN

### Documents on File

	Trn #	Doc	File/Act	Status		Transaction Desc.	From/ To	Acres	Diversion	Consumptive
				1	2					
	<a href="#">621334</a>	<a href="#">EXPL</a>	<a href="#">2018-03-07</a>	PMT	LOG	C 04209 POD1-2	T	0	0	

### Current Points of Diversion

(NAD83 UTM in meters)

POD Number	Well Tag	Source	Q							X	Y	Other Location Desc
			64	Q16	Q4	Sec	Tws	Rng				
<a href="#">C 04209 POD1</a>	NA	Shallow	2	3	3	06	26S	32E	620903	3548619		
<a href="#">C 04209 POD2</a>	NA	Shallow	2	3	3	06	26S	32E	620818	3548657		

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

4/25/22 9:17 AM

WATER RIGHT SUMMARY



# New Mexico Office of the State Engineer

## Water Right Summary

[get image list](#)**WR File Number:** C 04221**Subbasin:** CUB**Cross Reference:** -**Primary Purpose:** MON MONITORING WELL**Primary Status:** PMT PERMIT**Total Acres:****Subfile:** -**Header:** -**Total Diversion:** 0**Cause/Case:** -**Owner:** AND PRODUCTION CHEVRON NORTH AMERICA EXPLORAT**Contact:** ARLIN KEITH BARGE

### Documents on File

Trn #	Doc	File/Act	Status		Transaction Desc.	From/ To	Acres	Diversion	Consumptive
			1	2					
<a href="#">get images</a>	<a href="#">622659</a>	<a href="#">EXPL</a>	<a href="#">2018-04-03</a>	PMT	APR	C 04221 POD1	T	0	0

### Current Points of Diversion

(NAD83 UTM in meters)

POD Number	Well Tag	Source	Q	64Q16Q4Sec	Tws	Rng	X	Y	Other Location Desc
<a href="#">C 04221 POD1</a>	NA		2	1	2	09 25S 32E	624855	3557903	COTTON DRAW FRAC POND B-1

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


4/25/22 9:15 AM

WATER RIGHT SUMMARY



# New Mexico Office of the State Engineer

## Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)						(NAD83 UTM in meters)	
		(quarters are smallest to largest)							
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tw	Rng	X	Y
NA	C 04221 POD1	2	1	2	09	25S	32E	624855	3557903 
Driller License:		Driller Company:							
Driller Name:									
Drill Start Date:		Drill Finish Date:			Plug Date:				
Log File Date:		PCW Rev Date:			Source:				
Pump Type:		Pipe Discharge Size:			Estimated Yield:				
Casing Size:		Depth Well:			Depth Water:				

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

4/25/22 9:15 AM

POINT OF DIVERSION SUMMARY





# New Mexico Office of the State Engineer

## Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)							
		(quarters are smallest to largest)		(NAD83 UTM in meters)					
<b>Well Tag</b>	<b>POD Number</b>	<b>Q64</b>	<b>Q16</b>	<b>Q4</b>	<b>Sec</b>	<b>Tw</b>	<b>Rng</b>	<b>X</b>	<b>Y</b>
NA	C 04256 POD1	4	4	2	01	26S	31E	620384	3549257
<b>Driller License:</b> 1706		<b>Driller Company:</b>		ELITE DRILLERS CORPORATION					
<b>Driller Name:</b>		BRYCE WALLACE							
<b>Drill Start Date:</b> 06/28/2018		<b>Drill Finish Date:</b>		07/04/2018		<b>Plug Date:</b>			
<b>Log File Date:</b> 07/18/2018		<b>PCW Rev Date:</b>				<b>Source:</b>		Artesian	
<b>Pump Type:</b>		<b>Pipe Discharge Size:</b>				<b>Estimated Yield:</b>		40 GPM	
<b>Casing Size:</b> 5.80		<b>Depth Well:</b>		666 feet		<b>Depth Water:</b>		340 feet	
<b>Water Bearing Stratifications:</b>		<b>Top</b>	<b>Bottom</b>	<b>Description</b>					
		330	390	Sandstone/Gravel/Conglomerate					
		390	430	Sandstone/Gravel/Conglomerate					
		430	480	Sandstone/Gravel/Conglomerate					
		480	610	Sandstone/Gravel/Conglomerate					
<b>Casing Perforations:</b>		<b>Top</b>	<b>Bottom</b>						
		326	666						

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POINT OF DIVERSION SUMMARY



# New Mexico Office of the State Engineer

## Water Right Summary


[get image list](#)

WR File Number: C 04256

Subbasin: CUB

Cross Reference: -

Primary Purpose: EXP EXPLORATION

Primary Status: PMT PERMIT

Total Acres:

Subfile: -

Header: -

Total Diversion: 0

Cause/Case: -

Owner: BAKER RANCH

Contact: BRYCE WALLACE

### Documents on File

Trn #	Doc	File/Act	Status		Transaction Desc.	From/ To	Acres	Diversion	Consumptive
			1	2					
<a href="#">get images</a>	<a href="#">634348</a>	<a href="#">EXPL 2018-11-05</a>	PMT	APR	C 04256 PODS2-3	T	0	0	
<a href="#">get images</a>	<a href="#">626507</a>	<a href="#">EXPL 2018-06-15</a>	PMT	LOG	C 04256 POD1	T	0	0	

### Current Points of Diversion

(NAD83 UTM in meters)

POD Number	Well Tag	Source	Q						X	Y	Other Location Desc
			64	Q1	Q4	Sec	Tws	Rng			
<a href="#">C 04256 POD1</a>	NA	Artesian	4	4	2	01	26S	31E	620384	3549257	
<a href="#">C 04256 POD2</a>	NA		4	4	2	01	26S	31E	620459	3549160	BAKER RANCH
<a href="#">C 04256 POD3</a>	NA		3	4	2	01	26S	31E	620279	3549157	BAKER RANCH

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4/25/22 9:14 AM

WATER RIGHT SUMMARY



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Site Information ▼

Geographic Area:

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## USGS 320424103415401 26S.31E.01.421322

Available data for this site

SUMMARY OF ALL AVAILABLE DATA ▼

GO

### Well Site

#### DESCRIPTION:

Latitude 32°04'24", Longitude 103°41'54" NAD27  
Eddy County, New Mexico , Hydrologic Unit 13070001  
Well depth: not determined.  
Land surface altitude: 3,294 feet above NAVD88.  
Well completed in "Other aquifers" (N9999OTHER) national aquifer.  
Well completed in "Santa Rosa Sandstone" (231SNRS) local aquifer

#### AVAILABLE DATA:

Data Type	Begin Date	End Date	Count
<a href="#">Field groundwater-level measurements</a>	1983-01-26	1987-10-21	3
<a href="#">Revisions</a>	Unavailable (site:0) (timeseries:0)		

#### OPERATION:

Record for this site is maintained by the USGS New Mexico Water Science Center  
Email questions about this site to [New Mexico Water Science Center Water-Data Inquiries](#)

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**Title: NWIS Site Information for USA: Site Inventory**

**URL: [https://waterdata.usgs.gov/nwis/inventory?](https://waterdata.usgs.gov/nwis/inventory?agency_code=USGS&site_no=320424103415401)**

**[agency\\_code=USGS&site\\_no=320424103415401](https://waterdata.usgs.gov/nwis/inventory?agency_code=USGS&site_no=320424103415401)**



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

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0.27 0.26 vaww01





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USGS Water Resources

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Site Information ▼

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# USGS 320932103443801 25S.31E.02.23441

Available data for this site

SUMMARY OF ALL AVAILABLE DATA ▼

GO

## Well Site

### DESCRIPTION:

Latitude 32°09'37.4", Longitude 103°44'29.6" NAD83  
Eddy County, New Mexico , Hydrologic Unit 13070001  
Well depth: 1016 feet  
Land surface altitude: 3,460.00 feet above NGVD29.  
Well completed in "Other aquifers" (N9999OTHER) national aquifer.  
Well completed in "Rustler Formation" (312RSLR) local aquifer

### AVAILABLE DATA:

Data Type	Begin Date	End Date	Count
<a href="#">Field groundwater-level measurements</a>	1966-08-18	1976-01-28	2
<a href="#">Revisions</a>	Unavailable (site:0) (timeseries:0)		

### OPERATION:

Record for this site is maintained by the USGS New Mexico Water Science Center  
Email questions about this site to [New Mexico Water Science Center Water-Data Inquiries](#)

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**Title: NWIS Site Information for USA: Site Inventory**

**URL: [https://waterdata.usgs.gov/nwis/inventory?](https://waterdata.usgs.gov/nwis/inventory?agency_code=USGS&site_no=320932103443801)**

**[agency\\_code=USGS&site\\_no=320932103443801](https://waterdata.usgs.gov/nwis/inventory?agency_code=USGS&site_no=320932103443801)**



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0.27 0.26 vaww01



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Data Category:  
Groundwater

Geographic Area:  
United States

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**i** Important: [Next Generation Monitoring Location Page](#)

Search Results -- 1 sites found

Agency code = usgs  
site\_no list =

- 320424103415401

Minimum number of levels = 1

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

USGS 320424103415401 26S.31E.01.421322

Eddy County, New Mexico  
Latitude 32°04'24", Longitude 103°41'54" NAD27  
Land-surface elevation 3,294 feet above NAVD88  
This well is completed in the Other aquifers (N9999OTHER) national aquifer.  
This well is completed in the Santa Rosa Sandstone (231SNRS) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measur
1983-01-26			D 62610		3002.25	NGVD29	1		Z	
1983-01-26			D 62611		3003.88	NAVD88	1		Z	
1983-01-26			D 72019	290.12			1		Z	
1983-02-14			D 62610		3002.95	NGVD29	1		Z	
1983-02-14			D 62611		3004.58	NAVD88	1		Z	
1983-02-14			D 72019	289.42			1		Z	
1987-10-21			D 62610		3002.47	NGVD29	1		Z	
1987-10-21			D 62611		3004.10	NAVD88	1		Z	
1987-10-21			D 72019	289.90			1		Z	

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet

Section	Code	Description
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

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**Title: Groundwater for USA: Water Levels**  
**URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>**



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0.29   0.25 nadww01





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Data Category:  
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Search Results -- 1 sites found

Agency code = usgs  
site\_no list =

- 320932103443801

Minimum number of levels = 1

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

USGS 320932103443801 25S.31E.02.23441

Eddy County, New Mexico  
Latitude 32°09'37.4", Longitude 103°44'29.6" NAD83  
Land-surface elevation 3,460.00 feet above NGVD29  
The depth of the well is 1,016 feet below land surface.  
This well is completed in the Other aquifers (N9999OTHER) national aquifer.  
This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measu
1966-08-18			D	62610	3060.00	NGVD29	1	Z		
1966-08-18			D	62611	3061.71	NAVD88	1	Z		
1966-08-18			D	72019	400.00		1	Z		
1976-01-28			D	62610	3069.73	NGVD29	1	Z		
1976-01-28			D	62611	3071.44	NAVD88	1	Z		
1976-01-28			D	72019	390.27		1	Z		

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929

Section	Code	Description
Status	1	Static
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

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**Title:** Groundwater for USA: Water Levels  
**URL:** <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>



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0.32 0.29 nadww02

## Attachment III Field Data



Haz Mat Special Services



Soil Profile

Date: 4-21-22

Project: Cotton Draw Pipeline  
Latitude: 32.112443      Longitude: -103.718743

Depth (ft. bgs)	Description
1 1'	Top Soil
2 2'	Top Soil
3 3'	Top Soil
4 4'	Calichi
5 5'	Calichi
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
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35	
36	
37	
38	
39	
40	



HMSS



## Sample Log

Date: 4-22-22Project: Cotton DrawLatitude: 0Longitude: 0Sampler: Kyle Guss

Sample ID	Depth	PID/Odor	Chloride	GPS
SW 6	Surface	.5	265 X4 = 1,060	12:00 pm 32.11215 -103.71870
SW 6	1'	.2	331 X4 = 1,324	12:00 pm 32.11215 -103.71870
SW 6	2'	0	410 X4 = 1,640	12:15 pm ↓ ↓
SW 6	3'	0	331 X4 = 1,324	12:15 pm ↓ ↓
SW 6	4'	0	356 X4 = 1,424	12:30 pm
SW 6	5'	0	356 X4 = 1,424	12:30 pm
SW 6	6'	0	382 X4 = 1,528	12:45 pm
Background	Surface	0	32 X4 = 128	1:00 pm 32.11226 -103.71852
SW 6	7'	0	472 X4 = 1,888	1:10 pm
SP5	Surface	5.4	382 X4 = 1,528	1:45 pm 32.11226 -103.71873
SP5	2'	.9	474 X4 = 3,896	1:45 pm ↓ ↓
SP5	4'	0	32 X4 = 128	2:00 pm
SP3	Surface	4.2	507 X4 = 2,028	2:15 pm 32.11277 -103.71886
SP3	5'	1,200	472 X4 = 1,888	2:30 pm ↓ ↓
SP3	6'	—	Refusal	
SP4	Surface	3	32 X4 = 128	2:45 32.11296 -103.71866
SP4	2'	1.9	32 X4 = 128	3:00 ↓ ↓
SW 3	Surface	1	32 X4 = 128	3:30 32.11305 -103.71868
SW 3	1'	1	32 X4 = 128	3:45 ↓ ↓
SW 7	Surface	.7	32 X4 = 128	10:30 32.11228 -103.71876
SW 7	1'	.2	32 X4 = 128	10:30
SW 8	Surface	.2	32 X4 = 128	10:45 32.11247 -103.71901
SW 8	1'	0	32 X4 = 128	10:45
SW 4	Surface	.3	32 X4 = 128	11:00 32.11257 -103.71907
SW 4	1'	0	32 X4 = 128	11:00
SW 2	Surface	.1	32 X4 = 128	11:15 32.11277 -103.71880
SW 2	1'	.1	32 X4 = 128	11:15
SP 2	Surface	100.3	1056 X4 = 4,224	11:30 32.11266 -103.71826
SP 2	2'	366	694 X4 = 2,776	11:45
SP 2	4'	1788.4	426 X4 = 1,704	11:55
SP 1	Surface	.1	29 X4 = 116	12:05 32.11262 -103.71842
SP 1	2'	1	29 X4 = 116	12:05
SP 3W 26	8'	0	32 X4 = 128	

Sample Point = SP1 @ ## etc

Floor = FL1 etc

Sidewall = SW1 etc

Horizontal = HZ1 etc

Refusal = SP1 @ 4'-R

GPS Sample Points, Center of Comp Areas

Test Trench = TT1 @ ##

Resamples = SP1b @ 5' or SW #1b

Stockpile = Stockpile #1

## **Attachment IV Laboratory Analytical Reports**



Haz Mat Special Services



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

May 09, 2022

LINDSEY NEVELS

HAZMAT SPECIAL SERVICES

8610 S EUNICE HWY

HOBBS, NM 88240

RE: COTTON DRAW

Enclosed are the results of analyses for samples received by the laboratory on 05/03/22 12:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

HAZMAT SPECIAL SERVICES  
LINDSEY NEVELS  
8610 S EUNICE HWY  
HOBBS NM, 88240  
Fax To:

Received: 05/03/2022  
Reported: 05/09/2022  
Project Name: COTTON DRAW  
Project Number: NOT GIVEN  
Project Location: ETC

Sampling Date: 04/28/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: SP1 - SURFACE (H221827-01)**

BTEX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/06/2022	ND	2.18	109	2.00	0.291	
Toluene*	<0.050	0.050	05/06/2022	ND	2.15	107	2.00	0.217	
Ethylbenzene*	<0.050	0.050	05/06/2022	ND	2.12	106	2.00	0.636	
Total Xylenes*	<0.150	0.150	05/06/2022	ND	6.59	110	6.00	1.08	
Total BTEX	<0.300	0.300	05/06/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	05/05/2022	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	05/05/2022	ND	194	96.9	200	0.272	
DRO >C10-C28*	<10.0	10.0	05/05/2022	ND	190	95.0	200	0.758	
EXT DRO >C28-C36	<10.0	10.0	05/05/2022	ND					

Surrogate: 1-Chlorooctane 77.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 78.6 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

HAZMAT SPECIAL SERVICES  
LINDSEY NEVELS  
8610 S EUNICE HWY  
HOBBS NM, 88240  
Fax To:

Received: 05/03/2022  
Reported: 05/09/2022  
Project Name: COTTON DRAW  
Project Number: NOT GIVEN  
Project Location: ETC

Sampling Date: 04/28/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: SP1 - 2' (H221827-02)**

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	05/06/2022	ND	2.18	109	2.00	0.291	
Toluene*	<0.050	0.050	05/06/2022	ND	2.15	107	2.00	0.217	
Ethylbenzene*	<0.050	0.050	05/06/2022	ND	2.12	106	2.00	0.636	
Total Xylenes*	<0.150	0.150	05/06/2022	ND	6.59	110	6.00	1.08	
Total BTEX	<0.300	0.300	05/06/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

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	05/05/2022	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	05/05/2022	ND	194	96.9	200	0.272	
DRO >C10-C28*	<10.0	10.0	05/05/2022	ND	190	95.0	200	0.758	
EXT DRO >C28-C36	<10.0	10.0	05/05/2022	ND					

Surrogate: 1-Chlorooctane 86.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 88.5 % 59.5-142

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

HAZMAT SPECIAL SERVICES  
LINDSEY NEVELS  
8610 S EUNICE HWY  
HOBBS NM, 88240  
Fax To:

Received: 05/03/2022  
Reported: 05/09/2022  
Project Name: COTTON DRAW  
Project Number: NOT GIVEN  
Project Location: ETC

Sampling Date: 04/28/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: SP2 - SURFACE (H221827-03)**

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	05/06/2022	ND	2.18	109	2.00	0.291		
Toluene*	0.084	0.050	05/06/2022	ND	2.15	107	2.00	0.217	GC-NC1	
Ethylbenzene*	<0.050	0.050	05/06/2022	ND	2.12	106	2.00	0.636		
Total Xylenes*	3.89	0.150	05/06/2022	ND	6.59	110	6.00	1.08		
Total BTEx	3.97	0.300	05/06/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	38400	16.0	05/05/2022	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*	114	100	05/06/2022	ND	194	96.9	200	0.272	
DRO >C10-C28*	34300	100	05/06/2022	ND	190	95.0	200	0.758	
EXT DRO >C28-C36	1980	100	05/06/2022	ND					

Surrogate: 1-Chlorooctane 124 % 66.9-136

Surrogate: 1-Chlorooctadecane 1050 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

HAZMAT SPECIAL SERVICES  
LINDSEY NEVELS  
8610 S EUNICE HWY  
HOBBS NM, 88240  
Fax To:

Received: 05/03/2022  
Reported: 05/09/2022  
Project Name: COTTON DRAW  
Project Number: NOT GIVEN  
Project Location: ETC

Sampling Date: 04/28/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: SP2 - 4' (H221827-04)**

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	05/06/2022	ND	2.18	109	2.00	0.291		
Toluene*	<0.050	0.050	05/06/2022	ND	2.15	107	2.00	0.217		
Ethylbenzene*	<0.050	0.050	05/06/2022	ND	2.12	106	2.00	0.636		
Total Xylenes*	<0.150	0.150	05/06/2022	ND	6.59	110	6.00	1.08		
Total BTEX	<0.300	0.300	05/06/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2800	16.0	05/05/2022	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*	16.4	10.0	05/06/2022	ND	194	96.9	200	0.272	
DRO >C10-C28*	147	10.0	05/06/2022	ND	190	95.0	200	0.758	
EXT DRO >C28-C36	<10.0	10.0	05/06/2022	ND					

Surrogate: 1-Chlorooctane 91.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 88.7 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



7 WBS # E-72017-041-71300131

<sup>†</sup> Cardinal cannot accept verbal changes. Please email changes to [celey.keene@cardinallabsum.com](mailto:celey.keene@cardinallabsum.com)



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

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

CTO

ETC Texas pipeline  
Lindsey Nevels

	P.O.#:

**BILL TO**

[illegible]

REQUEST	
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[illegible]

Address:

City:

Phone #:

Project #:

Project Name:

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Journal of Management Education 33(1)

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7WB5 #E-77017-G1-71200121-

Page 24 of 26



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

### Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
GC-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

HAZMAT SPECIAL SERVICES  
LINDSEY NEVELS  
8610 S EUNICE HWY  
HOBBS NM, 88240  
Fax To:

Received: 05/03/2022  
Reported: 05/09/2022  
Project Name: COTTON DRAW  
Project Number: NOT GIVEN  
Project Location: ETC

Sampling Date: 04/28/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: HZ8 - 1' (H221827-21)**

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	05/06/2022	ND	2.13	106	2.00	2.90		
Toluene*	<0.050	0.050	05/06/2022	ND	2.08	104	2.00	3.51		
Ethylbenzene*	<0.050	0.050	05/06/2022	ND	2.03	102	2.00	3.03		
Total Xylenes*	<0.150	0.150	05/06/2022	ND	6.32	105	6.00	3.00		
Total BTEx	<0.300	0.300	05/06/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

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	05/05/2022	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	05/05/2022	ND	205	103	200	7.55	
DRO >C10-C28*	<10.0	10.0	05/05/2022	ND	197	98.4	200	7.96	
EXT DRO >C28-C36	<10.0	10.0	05/05/2022	ND					

Surrogate: 1-Chlorooctane 88.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 91.2 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

HAZMAT SPECIAL SERVICES  
LINDSEY NEVELS  
8610 S EUNICE HWY  
HOBBS NM, 88240  
Fax To:

Received: 05/03/2022  
Reported: 05/09/2022  
Project Name: COTTON DRAW  
Project Number: NOT GIVEN  
Project Location: ETC

Sampling Date: 04/28/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: HZ8 - SURFACE (H221827-20)**

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	05/06/2022	ND	2.13	106	2.00	2.90		
Toluene*	<0.050	0.050	05/06/2022	ND	2.08	104	2.00	3.51		
Ethylbenzene*	<0.050	0.050	05/06/2022	ND	2.03	102	2.00	3.03		
Total Xylenes*	<0.150	0.150	05/06/2022	ND	6.32	105	6.00	3.00		
Total BTEx	<0.300	0.300	05/06/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

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	05/05/2022	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	05/05/2022	ND	205	103	200	7.55	
DRO >C10-C28*	<10.0	10.0	05/05/2022	ND	197	98.4	200	7.96	
EXT DRO >C28-C36	<10.0	10.0	05/05/2022	ND					

Surrogate: 1-Chlorooctane 97.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 102 % 59.5-142

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

**Analytical Results For:**

HAZMAT SPECIAL SERVICES  
LINDSEY NEVELS  
8610 S EUNICE HWY  
HOBBS NM, 88240  
Fax To:

Received: 05/03/2022  
Reported: 05/09/2022  
Project Name: COTTON DRAW  
Project Number: NOT GIVEN  
Project Location: ETC

Sampling Date: 04/28/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: HZ7 - 1' (H221827-19)**

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	05/06/2022	ND	2.13	106	2.00	2.90		
Toluene*	<0.050	0.050	05/06/2022	ND	2.08	104	2.00	3.51		
Ethylbenzene*	<0.050	0.050	05/06/2022	ND	2.03	102	2.00	3.03		
Total Xylenes*	<0.150	0.150	05/06/2022	ND	6.32	105	6.00	3.00		
Total BTEx	<0.300	0.300	05/06/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

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	05/05/2022	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	05/05/2022	ND	205	103	200	7.55	
DRO >C10-C28*	<10.0	10.0	05/05/2022	ND	197	98.4	200	7.96	
EXT DRO >C28-C36	<10.0	10.0	05/05/2022	ND					

Surrogate: 1-Chlorooctane 90.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 97.3 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

HAZMAT SPECIAL SERVICES  
LINDSEY NEVELS  
8610 S EUNICE HWY  
HOBBS NM, 88240  
Fax To:

Received: 05/03/2022  
Reported: 05/09/2022  
Project Name: COTTON DRAW  
Project Number: NOT GIVEN  
Project Location: ETC

Sampling Date: 04/28/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: HZ7 - SURFACE (H221827-18)**

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	05/06/2022	ND	2.13	106	2.00	2.90		
Toluene*	<0.050	0.050	05/06/2022	ND	2.08	104	2.00	3.51		
Ethylbenzene*	<0.050	0.050	05/06/2022	ND	2.03	102	2.00	3.03		
Total Xylenes*	<0.150	0.150	05/06/2022	ND	6.32	105	6.00	3.00		
Total BTEx	<0.300	0.300	05/06/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

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	05/05/2022	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	05/05/2022	ND	205	103	200	7.55	
DRO >C10-C28*	<10.0	10.0	05/05/2022	ND	197	98.4	200	7.96	
EXT DRO >C28-C36	<10.0	10.0	05/05/2022	ND					

Surrogate: 1-Chlorooctane 106 % 66.9-136

Surrogate: 1-Chlorooctadecane 110 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

HAZMAT SPECIAL SERVICES  
LINDSEY NEVELS  
8610 S EUNICE HWY  
HOBBS NM, 88240  
Fax To:

Received: 05/03/2022  
Reported: 05/09/2022  
Project Name: COTTON DRAW  
Project Number: NOT GIVEN  
Project Location: ETC

Sampling Date: 04/28/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: HZ6 - 8' (H221827-17)**

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	05/06/2022	ND	2.13	106	2.00	2.90		
Toluene*	<0.050	0.050	05/06/2022	ND	2.08	104	2.00	3.51		
Ethylbenzene*	<0.050	0.050	05/06/2022	ND	2.03	102	2.00	3.03		
Total Xylenes*	<0.150	0.150	05/06/2022	ND	6.32	105	6.00	3.00		
Total BTEx	<0.300	0.300	05/06/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

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	05/05/2022	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	05/05/2022	ND	205	103	200	7.55	
DRO >C10-C28*	<10.0	10.0	05/05/2022	ND	197	98.4	200	7.96	
EXT DRO >C28-C36	<10.0	10.0	05/05/2022	ND					

Surrogate: 1-Chlorooctane 89.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 94.1 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

HAZMAT SPECIAL SERVICES  
LINDSEY NEVELS  
8610 S EUNICE HWY  
HOBBS NM, 88240  
Fax To:

Received: 05/03/2022  
Reported: 05/09/2022  
Project Name: COTTON DRAW  
Project Number: NOT GIVEN  
Project Location: ETC

Sampling Date: 04/28/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: HZ6 - SURFACE (H221827-16)**

BTEx 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/06/2022	ND	2.13	106	2.00	2.90	
Toluene*	<0.050	0.050	05/06/2022	ND	2.08	104	2.00	3.51	
Ethylbenzene*	<0.050	0.050	05/06/2022	ND	2.03	102	2.00	3.03	
Total Xylenes*	<0.150	0.150	05/06/2022	ND	6.32	105	6.00	3.00	
Total BTEx	<0.300	0.300	05/06/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1420	16.0	05/05/2022	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	05/05/2022	ND	205	103	200	7.55	
DRO >C10-C28*	16.4	10.0	05/05/2022	ND	197	98.4	200	7.96	
EXT DRO >C28-C36	<10.0	10.0	05/05/2022	ND					

Surrogate: 1-Chlorooctane 100 % 66.9-136

Surrogate: 1-Chlorooctadecane 107 % 59.5-142

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

HAZMAT SPECIAL SERVICES  
LINDSEY NEVELS  
8610 S EUNICE HWY  
HOBBS NM, 88240  
Fax To:

Received: 05/03/2022  
Reported: 05/09/2022  
Project Name: COTTON DRAW  
Project Number: NOT GIVEN  
Project Location: ETC

Sampling Date: 04/28/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: HZ3 - 1' (H221827-15)**

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	05/06/2022	ND	2.13	106	2.00	2.90		
Toluene*	<0.050	0.050	05/06/2022	ND	2.08	104	2.00	3.51		
Ethylbenzene*	<0.050	0.050	05/06/2022	ND	2.03	102	2.00	3.03		
Total Xylenes*	<0.150	0.150	05/06/2022	ND	6.32	105	6.00	3.00		
Total BTEX	<0.300	0.300	05/06/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

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	05/05/2022	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	05/05/2022	ND	194	96.9	200	0.272	
DRO >C10-C28*	<10.0	10.0	05/05/2022	ND	190	95.0	200	0.758	
EXT DRO >C28-C36	<10.0	10.0	05/05/2022	ND					

Surrogate: 1-Chlorooctane 83.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 84.8 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

HAZMAT SPECIAL SERVICES  
LINDSEY NEVELS  
8610 S EUNICE HWY  
HOBBS NM, 88240  
Fax To:

Received: 05/03/2022  
Reported: 05/09/2022  
Project Name: COTTON DRAW  
Project Number: NOT GIVEN  
Project Location: ETC

Sampling Date: 04/28/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: HZ3 - SURFACE (H221827-14)**

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	05/06/2022	ND	2.13	106	2.00	2.90		
Toluene*	<0.050	0.050	05/06/2022	ND	2.08	104	2.00	3.51		
Ethylbenzene*	<0.050	0.050	05/06/2022	ND	2.03	102	2.00	3.03		
Total Xylenes*	<0.150	0.150	05/06/2022	ND	6.32	105	6.00	3.00		
Total BTEx	<0.300	0.300	05/06/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

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	05/05/2022	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	05/05/2022	ND	194	96.9	200	0.272	
DRO >C10-C28*	<10.0	10.0	05/05/2022	ND	190	95.0	200	0.758	
EXT DRO >C28-C36	<10.0	10.0	05/05/2022	ND					

Surrogate: 1-Chlorooctane 90.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 91.2 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

HAZMAT SPECIAL SERVICES  
LINDSEY NEVELS  
8610 S EUNICE HWY  
HOBBS NM, 88240  
Fax To:

Received: 05/03/2022  
Reported: 05/09/2022  
Project Name: COTTON DRAW  
Project Number: NOT GIVEN  
Project Location: ETC

Sampling Date: 04/28/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: HZ2 - 1' (H221827-13)**

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	05/06/2022	ND	2.13	106	2.00	2.90		
Toluene*	<0.050	0.050	05/06/2022	ND	2.08	104	2.00	3.51		
Ethylbenzene*	<0.050	0.050	05/06/2022	ND	2.03	102	2.00	3.03		
Total Xylenes*	<0.150	0.150	05/06/2022	ND	6.32	105	6.00	3.00		
Total BTEX	<0.300	0.300	05/06/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

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	05/05/2022	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	05/05/2022	ND	194	96.9	200	0.272	
DRO >C10-C28*	<10.0	10.0	05/05/2022	ND	190	95.0	200	0.758	
EXT DRO >C28-C36	<10.0	10.0	05/05/2022	ND					

Surrogate: 1-Chlorooctane 80.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 80.3 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

HAZMAT SPECIAL SERVICES  
LINDSEY NEVELS  
8610 S EUNICE HWY  
HOBBS NM, 88240  
Fax To:

Received: 05/03/2022  
Reported: 05/09/2022  
Project Name: COTTON DRAW  
Project Number: NOT GIVEN  
Project Location: ETC

Sampling Date: 04/28/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: HZ2 - SURFACE (H221827-12)**

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	05/06/2022	ND	2.13	106	2.00	2.90		
Toluene*	<0.050	0.050	05/06/2022	ND	2.08	104	2.00	3.51		
Ethylbenzene*	<0.050	0.050	05/06/2022	ND	2.03	102	2.00	3.03		
Total Xylenes*	<0.150	0.150	05/06/2022	ND	6.32	105	6.00	3.00		
Total BTEx	<0.300	0.300	05/06/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

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	05/05/2022	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	05/05/2022	ND	194	96.9	200	0.272	
DRO >C10-C28*	<10.0	10.0	05/05/2022	ND	190	95.0	200	0.758	
EXT DRO >C28-C36	<10.0	10.0	05/05/2022	ND					

Surrogate: 1-Chlorooctane 78.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 78.3 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

HAZMAT SPECIAL SERVICES  
LINDSEY NEVELS  
8610 S EUNICE HWY  
HOBBS NM, 88240  
Fax To:

Received: 05/03/2022  
Reported: 05/09/2022  
Project Name: COTTON DRAW  
Project Number: NOT GIVEN  
Project Location: ETC

Sampling Date: 04/28/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: HZ1 - 1' (H221827-11)**

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	05/06/2022	ND	2.13	106	2.00	2.90	
Toluene*	<0.050	0.050	05/06/2022	ND	2.08	104	2.00	3.51	
Ethylbenzene*	<0.050	0.050	05/06/2022	ND	2.03	102	2.00	3.03	
Total Xylenes*	<0.150	0.150	05/06/2022	ND	6.32	105	6.00	3.00	
Total BTEX	<0.300	0.300	05/06/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

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	05/05/2022	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	05/05/2022	ND	194	96.9	200	0.272	
DRO >C10-C28*	<10.0	10.0	05/05/2022	ND	190	95.0	200	0.758	
EXT DRO >C28-C36	<10.0	10.0	05/05/2022	ND					

Surrogate: 1-Chlorooctane 80.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 81.7 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

HAZMAT SPECIAL SERVICES  
LINDSEY NEVELS  
8610 S EUNICE HWY  
HOBBS NM, 88240  
Fax To:

Received: 05/03/2022  
Reported: 05/09/2022  
Project Name: COTTON DRAW  
Project Number: NOT GIVEN  
Project Location: ETC

Sampling Date: 04/28/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: HZ1 - SURFACE (H221827-10)**

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	05/06/2022	ND	2.13	106	2.00	2.90		
Toluene*	<0.050	0.050	05/06/2022	ND	2.08	104	2.00	3.51		
Ethylbenzene*	<0.050	0.050	05/06/2022	ND	2.03	102	2.00	3.03		
Total Xylenes*	<0.150	0.150	05/06/2022	ND	6.32	105	6.00	3.00		
Total BTEx	<0.300	0.300	05/06/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

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	05/05/2022	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	05/05/2022	ND	194	96.9	200	0.272	
DRO >C10-C28*	<10.0	10.0	05/05/2022	ND	190	95.0	200	0.758	
EXT DRO >C28-C36	<10.0	10.0	05/05/2022	ND					

Surrogate: 1-Chlorooctane 74.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 74.8 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

HAZMAT SPECIAL SERVICES  
LINDSEY NEVELS  
8610 S EUNICE HWY  
HOBBS NM, 88240  
Fax To:

Received: 05/03/2022  
Reported: 05/09/2022  
Project Name: COTTON DRAW  
Project Number: NOT GIVEN  
Project Location: ETC

Sampling Date: 04/28/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: BACKGROUND (H221827-09)**

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	05/06/2022	ND	2.18	109	2.00	0.291		
Toluene*	<0.050	0.050	05/06/2022	ND	2.15	107	2.00	0.217		
Ethylbenzene*	<0.050	0.050	05/06/2022	ND	2.12	106	2.00	0.636		
Total Xylenes*	<0.150	0.150	05/06/2022	ND	6.59	110	6.00	1.08		
Total BTEx	<0.300	0.300	05/06/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

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	05/05/2022	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	05/05/2022	ND	194	96.9	200	0.272	
DRO >C10-C28*	<10.0	10.0	05/05/2022	ND	190	95.0	200	0.758	
EXT DRO >C28-C36	<10.0	10.0	05/05/2022	ND					

Surrogate: 1-Chlorooctane 82.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 83.5 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

HAZMAT SPECIAL SERVICES  
LINDSEY NEVELS  
8610 S EUNICE HWY  
HOBBS NM, 88240  
Fax To:

Received: 05/03/2022  
Reported: 05/09/2022  
Project Name: COTTON DRAW  
Project Number: NOT GIVEN  
Project Location: ETC

Sampling Date: 04/28/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: SP4 - 2' (H221827-08)**

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	05/06/2022	ND	2.18	109	2.00	0.291		
Toluene*	<0.050	0.050	05/06/2022	ND	2.15	107	2.00	0.217		
Ethylbenzene*	<0.050	0.050	05/06/2022	ND	2.12	106	2.00	0.636		
Total Xylenes*	<0.150	0.150	05/06/2022	ND	6.59	110	6.00	1.08		
Total BTEx	<0.300	0.300	05/06/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

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	05/05/2022	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	05/05/2022	ND	194	96.9	200	0.272	
DRO >C10-C28*	<10.0	10.0	05/05/2022	ND	190	95.0	200	0.758	
EXT DRO >C28-C36	<10.0	10.0	05/05/2022	ND					

Surrogate: 1-Chlorooctane 77.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 78.3 % 59.5-142

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

HAZMAT SPECIAL SERVICES  
LINDSEY NEVELS  
8610 S EUNICE HWY  
HOBBS NM, 88240  
Fax To:

Received: 05/03/2022  
Reported: 05/09/2022  
Project Name: COTTON DRAW  
Project Number: NOT GIVEN  
Project Location: ETC

Sampling Date: 04/28/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: SP4 - SURFACE (H221827-07)**

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	05/06/2022	ND	2.18	109	2.00	0.291		
Toluene*	<0.050	0.050	05/06/2022	ND	2.15	107	2.00	0.217		
Ethylbenzene*	<0.050	0.050	05/06/2022	ND	2.12	106	2.00	0.636		
Total Xylenes*	<0.150	0.150	05/06/2022	ND	6.59	110	6.00	1.08		
Total BTEx	<0.300	0.300	05/06/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

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	05/05/2022	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	05/05/2022	ND	194	96.9	200	0.272	
DRO >C10-C28*	107	10.0	05/05/2022	ND	190	95.0	200	0.758	
EXT DRO >C28-C36	10.2	10.0	05/05/2022	ND					

Surrogate: 1-Chlorooctane 91.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 87.6 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

HAZMAT SPECIAL SERVICES  
LINDSEY NEVELS  
8610 S EUNICE HWY  
HOBBS NM, 88240  
Fax To:

Received: 05/03/2022  
Reported: 05/09/2022  
Project Name: COTTON DRAW  
Project Number: NOT GIVEN  
Project Location: ETC

Sampling Date: 04/28/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: SP3 - 5' (H221827-06)**

BTX 8021B		mg/kg	Analyzed By: MS\					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.131</b>	0.050	05/06/2022	ND	2.18	109	2.00	0.291	
<b>Toluene*</b>	<b>5.09</b>	0.050	05/06/2022	ND	2.15	107	2.00	0.217	GC-NC1
Ethylbenzene*	<0.050	0.050	05/06/2022	ND	2.12	106	2.00	0.636	
<b>Total Xylenes*</b>	<b>20.8</b>	0.150	05/06/2022	ND	6.59	110	6.00	1.08	GC-NC1
<b>Total BTX</b>	<b>26.1</b>	0.300	05/06/2022	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 310 % 69.9-140

Chloride, SM4500CI-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>2680</b>	16.0	05/05/2022	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
<b>GRO C6-C10*</b>	<b>746</b>	10.0	05/05/2022	ND	194	96.9	200	0.272	
<b>DRO &gt;C10-C28*</b>	<b>4470</b>	10.0	05/05/2022	ND	190	95.0	200	0.758	
<b>EXT DRO &gt;C28-C36</b>	<b>194</b>	10.0	05/05/2022	ND					

Surrogate: 1-Chlorooctane 241 % 66.9-136

Surrogate: 1-Chlorooctadecane 134 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

HAZMAT SPECIAL SERVICES  
LINDSEY NEVELS  
8610 S EUNICE HWY  
HOBBS NM, 88240  
Fax To:

Received: 05/03/2022  
Reported: 05/09/2022  
Project Name: COTTON DRAW  
Project Number: NOT GIVEN  
Project Location: ETC

Sampling Date: 04/28/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: SP3 - SURFACE (H221827-05)**

BTEx 8021B		mg/kg	Analyzed By: MS\					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	05/06/2022	ND	2.18	109	2.00	0.291	
<b>Toluene*</b>	<b>4.59</b>	0.200	05/06/2022	ND	2.15	107	2.00	0.217	GC-NC1
Ethylbenzene*	<0.200	0.200	05/06/2022	ND	2.12	106	2.00	0.636	
<b>Total Xylenes*</b>	<b>24.4</b>	0.600	05/06/2022	ND	6.59	110	6.00	1.08	GC-NC1
<b>Total BTEX</b>	<b>29.0</b>	1.20	05/06/2022	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 188 % 69.9-140

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>2640</b>	16.0	05/05/2022	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
<b>GRO C6-C10*</b>	<b>1110</b>	10.0	05/05/2022	ND	194	96.9	200	0.272	
<b>DRO &gt;C10-C28*</b>	<b>6020</b>	10.0	05/05/2022	ND	190	95.0	200	0.758	
<b>EXT DRO &gt;C28-C36</b>	<b>293</b>	10.0	05/05/2022	ND					

Surrogate: 1-Chlorooctane 286 % 66.9-136

Surrogate: 1-Chlorooctadecane 172 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager





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

May 23, 2022

EDDIE GAYTAN

HAZMAT SPECIAL SERVICES

8610 S EUNICE HWY

HOBBS, NM 88240

RE: COTTON DRAW

Enclosed are the results of analyses for samples received by the laboratory on 05/18/22 15:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

HAZMAT SPECIAL SERVICES  
 EDDIE GAYTAN  
 8610 S EUNICE HWY  
 HOBBS NM, 88240  
 Fax To:

Received: 05/18/2022  
 Reported: 05/23/2022  
 Project Name: COTTON DRAW  
 Project Number: NOT GIVEN  
 Project Location: ETC

Sampling Date: 05/13/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 2 - SURFACE (H222115-01)**

BTEx 8021B		mg/kg		Analyzed By: MS/				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/19/2022	ND	2.00	99.8	2.00	1.90	
Toluene*	0.884	0.050	05/19/2022	ND	2.00	100	2.00	2.45	GC-NC1
Ethylbenzene*	0.794	0.050	05/19/2022	ND	1.90	94.9	2.00	2.54	
Total Xylenes*	17.6	0.150	05/19/2022	ND	5.91	98.5	6.00	2.88	
Total BTEx	19.2	0.300	05/19/2022	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 155 % 69.9-140

Chloride, SM4500Cl-B			mg/kg					Analyzed By: AC	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>2240</b>	16.0	05/19/2022	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*	359	10.0	05/19/2022	ND	206	103	200	7.07	
DRO >C10-C28*	2650	10.0	05/19/2022	ND	195	97.7	200	2.65	
EXT DRO >C28-C36	36.6	10.0	05/19/2022	ND					

Surrogate: 1-Chlorooctane 166 % 66.9-136

Surrogate: 1-Chlorooctadecane 134 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

HAZMAT SPECIAL SERVICES  
 EDDIE GAYTAN  
 8610 S EUNICE HWY  
 HOBBS NM, 88240  
 Fax To:

Received: 05/18/2022  
 Reported: 05/23/2022  
 Project Name: COTTON DRAW  
 Project Number: NOT GIVEN  
 Project Location: ETC

Sampling Date: 05/13/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 2 - 4' (H222115-02)**

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	05/19/2022	ND	2.00	99.8	2.00	1.90		
Toluene*	<0.050	0.050	05/19/2022	ND	2.00	100	2.00	2.45		
Ethylbenzene*	<0.050	0.050	05/19/2022	ND	1.90	94.9	2.00	2.54		
Total Xylenes*	<0.150	0.150	05/19/2022	ND	5.91	98.5	6.00	2.88		
Total BTEX	<0.300	0.300	05/19/2022	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/19/2022	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	05/19/2022	ND	206	103	200	7.07	
DRO >C10-C28*	<10.0	10.0	05/19/2022	ND	195	97.7	200	2.65	
EXT DRO >C28-C36	<10.0	10.0	05/19/2022	ND					

Surrogate: 1-Chlorooctane 106 % 66.9-136

Surrogate: 1-Chlorooctadecane 111 % 59.5-142

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

HAZMAT SPECIAL SERVICES  
 EDDIE GAYTAN  
 8610 S EUNICE HWY  
 HOBBS NM, 88240  
 Fax To:

Received: 05/18/2022  
 Reported: 05/23/2022  
 Project Name: COTTON DRAW  
 Project Number: NOT GIVEN  
 Project Location: ETC

Sampling Date: 05/13/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 3 - 5' (H222115-03)**

BTEx 8021B		mg/kg	Analyzed By: MS/					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	05/20/2022	ND	2.00	99.8	2.00	1.90	
<b>Toluene*</b>	<b>10.8</b>	0.500	05/20/2022	ND	2.00	100	2.00	2.45	GC-NC1
<b>Ethylbenzene*</b>	<b>6.89</b>	0.500	05/20/2022	ND	1.90	94.9	2.00	2.54	
<b>Total Xylenes*</b>	<b>136</b>	1.50	05/20/2022	ND	5.91	98.5	6.00	2.88	
<b>Total BTEx</b>	<b>153</b>	3.00	05/20/2022	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 171 % 69.9-140

Chloride, SM4500CI-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>32.0</b>	16.0	05/19/2022	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
<b>GRO C6-C10*</b>	<b>3170</b>	10.0	05/19/2022	ND	206	103	200	7.07	
<b>DRO &gt;C10-C28*</b>	<b>5080</b>	10.0	05/19/2022	ND	195	97.7	200	2.65	
<b>EXT DRO &gt;C28-C36</b>	<b>182</b>	10.0	05/19/2022	ND					

Surrogate: 1-Chlorooctane 501 % 66.9-136

Surrogate: 1-Chlorooctadecane 173 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

HAZMAT SPECIAL SERVICES  
 EDDIE GAYTAN  
 8610 S EUNICE HWY  
 HOBBS NM, 88240  
 Fax To:

Received: 05/18/2022  
 Reported: 05/23/2022  
 Project Name: COTTON DRAW  
 Project Number: NOT GIVEN  
 Project Location: ETC

Sampling Date: 05/13/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 3 - 6' (H222115-04)**

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	05/19/2022	ND	2.00	99.8	2.00	1.90	
Toluene*	<0.050	0.050	05/19/2022	ND	2.00	100	2.00	2.45	
Ethylbenzene*	<0.050	0.050	05/19/2022	ND	1.90	94.9	2.00	2.54	
Total Xylenes*	<0.150	0.150	05/19/2022	ND	5.91	98.5	6.00	2.88	
Total BTEX	<0.300	0.300	05/19/2022	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 101 % 69.9-140

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	05/19/2022	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	05/19/2022	ND	206	103	200	7.07	
DRO >C10-C28*	<10.0	10.0	05/19/2022	ND	195	97.7	200	2.65	
EXT DRO >C28-C36	<10.0	10.0	05/19/2022	ND					

Surrogate: 1-Chlorooctane 108 % 66.9-136

Surrogate: 1-Chlorooctadecane 114 % 59.5-142

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

HAZMAT SPECIAL SERVICES  
 EDDIE GAYTAN  
 8610 S EUNICE HWY  
 HOBBS NM, 88240  
 Fax To:

Received: 05/18/2022  
 Reported: 05/23/2022  
 Project Name: COTTON DRAW  
 Project Number: NOT GIVEN  
 Project Location: ETC

Sampling Date: 05/13/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: HZ 4 - SURFACE (H222115-05)**

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	05/19/2022	ND	2.00	99.8	2.00	1.90		
Toluene*	<0.050	0.050	05/19/2022	ND	2.00	100	2.00	2.45		
Ethylbenzene*	<0.050	0.050	05/19/2022	ND	1.90	94.9	2.00	2.54		
Total Xylenes*	<0.150	0.150	05/19/2022	ND	5.91	98.5	6.00	2.88		
Total BTEX	<0.300	0.300	05/19/2022	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	05/19/2022	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*	10.5	10.0	05/19/2022	ND	206	103	200	7.07	
DRO >C10-C28*	23.7	10.0	05/19/2022	ND	195	97.7	200	2.65	
EXT DRO >C28-C36	<10.0	10.0	05/19/2022	ND					

Surrogate: 1-Chlorooctane 125 % 66.9-136

Surrogate: 1-Chlorooctadecane 129 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

HAZMAT SPECIAL SERVICES  
 EDDIE GAYTAN  
 8610 S EUNICE HWY  
 HOBBS NM, 88240  
 Fax To:

Received: 05/18/2022  
 Reported: 05/23/2022  
 Project Name: COTTON DRAW  
 Project Number: NOT GIVEN  
 Project Location: ETC

Sampling Date: 05/13/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: HZ 4 - 1' (H222115-06)**

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	05/19/2022	ND	2.00	99.8	2.00	1.90	
Toluene*	<0.050	0.050	05/19/2022	ND	2.00	100	2.00	2.45	
Ethylbenzene*	<0.050	0.050	05/19/2022	ND	1.90	94.9	2.00	2.54	
Total Xylenes*	<0.150	0.150	05/19/2022	ND	5.91	98.5	6.00	2.88	
Total BTEX	<0.300	0.300	05/19/2022	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 103 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/19/2022	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*	11.6	10.0	05/19/2022	ND	206	103	200	7.07	
DRO >C10-C28*	39.7	10.0	05/19/2022	ND	195	97.7	200	2.65	
EXT DRO >C28-C36	<10.0	10.0	05/19/2022	ND					

Surrogate: 1-Chlorooctane 137 % 66.9-136

Surrogate: 1-Chlorooctadecane 139 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

HAZMAT SPECIAL SERVICES  
 EDDIE GAYTAN  
 8610 S EUNICE HWY  
 HOBBS NM, 88240  
 Fax To:

Received: 05/18/2022  
 Reported: 05/23/2022  
 Project Name: COTTON DRAW  
 Project Number: NOT GIVEN  
 Project Location: ETC

Sampling Date: 05/13/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: HZ 5 - SURFACE (H222115-07)**

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	05/19/2022	ND	2.00	99.8	2.00	1.90		
Toluene*	<0.050	0.050	05/19/2022	ND	2.00	100	2.00	2.45		
Ethylbenzene*	<0.050	0.050	05/19/2022	ND	1.90	94.9	2.00	2.54		
Total Xylenes*	<0.150	0.150	05/19/2022	ND	5.91	98.5	6.00	2.88		
Total BTEX	<0.300	0.300	05/19/2022	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 103 % 69.9-140

Chloride, SM4500CI-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	05/19/2022	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	05/19/2022	ND	207	103	200	6.09	
DRO >C10-C28*	37.7	10.0	05/19/2022	ND	215	107	200	8.55	
EXT DRO >C28-C36	<10.0	10.0	05/19/2022	ND					

Surrogate: 1-Chlorooctane 102 % 66.9-136

Surrogate: 1-Chlorooctadecane 110 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

HAZMAT SPECIAL SERVICES  
 EDDIE GAYTAN  
 8610 S EUNICE HWY  
 HOBBS NM, 88240  
 Fax To:

Received: 05/18/2022  
 Reported: 05/23/2022  
 Project Name: COTTON DRAW  
 Project Number: NOT GIVEN  
 Project Location: ETC

Sampling Date: 05/13/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: HZ 5 - 1' (H222115-08)**

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	05/19/2022	ND	2.00	99.8	2.00	1.90		
Toluene*	<0.050	0.050	05/19/2022	ND	2.00	100	2.00	2.45		
Ethylbenzene*	<0.050	0.050	05/19/2022	ND	1.90	94.9	2.00	2.54		
Total Xylenes*	<0.150	0.150	05/19/2022	ND	5.91	98.5	6.00	2.88		
Total BTEX	<0.300	0.300	05/19/2022	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/19/2022	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	05/19/2022	ND	207	103	200	6.09	
DRO >C10-C28*	33.0	10.0	05/19/2022	ND	215	107	200	8.55	
EXT DRO >C28-C36	<10.0	10.0	05/19/2022	ND					

Surrogate: 1-Chlorooctane 95.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 110 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

HAZMAT SPECIAL SERVICES  
 EDDIE GAYTAN  
 8610 S EUNICE HWY  
 HOBBS NM, 88240  
 Fax To:

Received: 05/18/2022  
 Reported: 05/23/2022  
 Project Name: COTTON DRAW  
 Project Number: NOT GIVEN  
 Project Location: ETC

Sampling Date: 05/13/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: HZ 6 - A - SURFACE (H222115-09)**

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	05/19/2022	ND	2.04	102	2.00	2.82		
Toluene*	<0.050	0.050	05/19/2022	ND	2.01	101	2.00	2.85		
Ethylbenzene*	<0.050	0.050	05/19/2022	ND	1.97	98.7	2.00	3.29		
Total Xylenes*	<0.150	0.150	05/19/2022	ND	6.07	101	6.00	3.60		
Total BTEX	<0.300	0.300	05/19/2022	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 102 % 69.9-140

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	05/19/2022	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	05/19/2022	ND	207	103	200	6.09	
DRO >C10-C28*	20.8	10.0	05/19/2022	ND	215	107	200	8.55	
EXT DRO >C28-C36	<10.0	10.0	05/19/2022	ND					

Surrogate: 1-Chlorooctane 104 % 66.9-136

Surrogate: 1-Chlorooctadecane 116 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

HAZMAT SPECIAL SERVICES  
 EDDIE GAYTAN  
 8610 S EUNICE HWY  
 HOBBS NM, 88240  
 Fax To:

Received: 05/18/2022  
 Reported: 05/23/2022  
 Project Name: COTTON DRAW  
 Project Number: NOT GIVEN  
 Project Location: ETC

Sampling Date: 05/13/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: HZ 6 - A - 1' (H222115-10)**

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	05/19/2022	ND	2.04	102	2.00	2.82		
Toluene*	<0.050	0.050	05/19/2022	ND	2.01	101	2.00	2.85		
Ethylbenzene*	<0.050	0.050	05/19/2022	ND	1.97	98.7	2.00	3.29		
Total Xylenes*	<0.150	0.150	05/19/2022	ND	6.07	101	6.00	3.60		
Total BTEX	<0.300	0.300	05/19/2022	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 102 % 69.9-140

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	05/19/2022	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	05/19/2022	ND	207	103	200	6.09	
DRO >C10-C28*	23.6	10.0	05/19/2022	ND	215	107	200	8.55	
EXT DRO >C28-C36	<10.0	10.0	05/19/2022	ND					

Surrogate: 1-Chlorooctane 97.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 111 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

HAZMAT SPECIAL SERVICES  
 EDDIE GAYTAN  
 8610 S EUNICE HWY  
 HOBBS NM, 88240  
 Fax To:

Received: 05/18/2022  
 Reported: 05/23/2022  
 Project Name: COTTON DRAW  
 Project Number: NOT GIVEN  
 Project Location: ETC

Sampling Date: 05/13/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 5 - SURFACE (H222115-11)**

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	05/19/2022	ND	2.04	102	2.00	2.82	
Toluene*	<0.050	0.050	05/19/2022	ND	2.01	101	2.00	2.85	
Ethylbenzene*	<0.050	0.050	05/19/2022	ND	1.97	98.7	2.00	3.29	
Total Xylenes*	<0.150	0.150	05/19/2022	ND	6.07	101	6.00	3.60	
Total BTEX	<0.300	0.300	05/19/2022	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 102 % 69.9-140

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	05/19/2022	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	05/19/2022	ND	207	103	200	6.09	
DRO >C10-C28*	<10.0	10.0	05/19/2022	ND	215	107	200	8.55	
EXT DRO >C28-C36	<10.0	10.0	05/19/2022	ND					

Surrogate: 1-Chlorooctane 87.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 99.8 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

HAZMAT SPECIAL SERVICES  
 EDDIE GAYTAN  
 8610 S EUNICE HWY  
 HOBBS NM, 88240  
 Fax To:

Received: 05/18/2022  
 Reported: 05/23/2022  
 Project Name: COTTON DRAW  
 Project Number: NOT GIVEN  
 Project Location: ETC

Sampling Date: 05/13/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 5 - 5' (H222115-12)**

BTEx 8021B		mg/kg	Analyzed By: MS\					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/19/2022	ND	2.04	102	2.00	2.82	
<b>Toluene*</b>	<b>2.01</b>	0.050	05/19/2022	ND	2.01	101	2.00	2.85	GC-NC1
<b>Ethylbenzene*</b>	<b>1.28</b>	0.050	05/19/2022	ND	1.97	98.7	2.00	3.29	
<b>Total Xylenes*</b>	<b>24.3</b>	0.150	05/19/2022	ND	6.07	101	6.00	3.60	
<b>Total BTEX</b>	<b>27.6</b>	0.300	05/19/2022	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 273 % 69.9-140

Chloride, SM4500CI-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>64.0</b>	16.0	05/19/2022	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
<b>GRO C6-C10*</b>	<b>704</b>	10.0	05/19/2022	ND	207	103	200	6.09	
<b>DRO &gt;C10-C28*</b>	<b>1990</b>	10.0	05/19/2022	ND	215	107	200	8.55	
<b>EXT DRO &gt;C28-C36</b>	<b>62.5</b>	10.0	05/19/2022	ND					

Surrogate: 1-Chlorooctane 254 % 66.9-136

Surrogate: 1-Chlorooctadecane 148 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- S-04            The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- GC-NC1        8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
- ND             Analyte NOT DETECTED at or above the reporting limit
- RPD            Relative Percent Difference
- \*\*              Samples not received at proper temperature of 6°C or below.
- \*\*\*             Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
- Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in blue ink that reads "C. D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

<b>Company Name:</b> ETC TEXAS PIPELINE <b>Project Manager:</b> EDDIE GAYTAN <b>Address:</b> 8610 S EUNICE HWY <b>City:</b> HOBBS <b>Phone #:</b> 575441-0212 <b>State:</b> NM <b>Zip:</b> 88240 <b>Project #:</b>				<b>P.O. #:</b> E-22012-GL-21300136 <b>Company:</b> ETC TEXAS PIPELINE <b>Attn:</b> DEAN ERICSON <b>Address:</b>				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>			
<b>Project Name:</b> COTTONDRAW <b>Project Location:</b>				<b>City:</b> State: Zip:				<b>Phone #:</b> (432) 238-2142 <b>Fax #:</b>							
<b>Sampler Name:</b> KYLE GARCIA <small>FOR LAB USE ONLY</small>				<b>Matrix:</b>				<b>Preserv.</b>				<b>Sampling</b>			
<b>Lab I.D.</b> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <b>Sample I.D.</b> </div>				(G)RAB OR (C)OMP.				# CONTAINERS				DATE TIME			
				GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER :				ACID/BASE: ICE / COOL OTHER :				CHLORIDE BTEX TPH			
1 SP2-SURFACE				X				5-13				X X X			
2 SP2-4'				X				5-13				X X X			
3 SP3-5'				X				5-13				X X X			
4 SP3-6'				X				5-13				X X X			
5 HZ4-SURFACE				X				5-13				X X X			
6 HZ4-1'				X				5-13				X X X			
7 HZ5-SURFACE				X				5-13				X X X			
8 HZ5-1'				X				5-13				X X X			
9 HZ6-A-SURFACE				X				5-13				X X X			
10 HZ6-A-1'				X				5-13				X X X			

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

<b>Relinquished By:</b> <i>[Signature]</i>				<b>Received By:</b> <i>[Signature]</i>				<b>Verbal Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Add'l Phone #:			
<b>Date:</b> 5-18-22 <b>Time:</b> 1505				<b>Date:</b> 5-18-22 <b>Time:</b> 1505				<b>Remarks:</b>			
<b>Relinquished By:</b> <i>[Signature]</i>				<b>Received By:</b> <i>[Signature]</i>				<b>Remarks:</b>			
<b>Turnaround Time:</b> Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>				<b>Thermometer ID #113</b>				<b>Bacteria (only) Sample Condition</b>			
<b>Corrected Temp. °C</b>				<b>Corrected Temp. °C</b>				<b>Corrected Temp. °C</b>			





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

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



## Attachment V

### NMOCD Form C-141 Remediation Pages



Haz Mat Special Services

Incident ID	
District RP	
Facility ID	
Application ID	

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

Printed Name: Dean D. Ericson Title: Sr. Environmental Specialist

Signature: Dean D. Ericson Date: 06/10/2022

email: dean.ericson@energytransfer.com Telephone: 432-238-2142

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

Incident ID	
District RP	
Facility ID	
Application ID	

## Remediation Plan

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

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

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

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

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

Printed Name: Dean D. Ericson Title: Sr. Environmental Specialist  
Signature: Dean D. Ericson Date: 06/10/2022  
email: dean.ericson@energytransfer.com Telephone: 432-238-2124

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

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

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Incident ID	
District RP	
Facility ID	
Application ID	

## Closure

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

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

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

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

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

email: \_\_\_\_\_ Telephone: \_\_\_\_\_

**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: \_\_\_\_\_



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**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

QUESTIONS  
  
Action 313550

QUESTIONS

Operator: ETC Texas Pipeline, Ltd. 8111 Westchester Drive Dallas, TX 75225	OGRID:	371183
	Action Number:	313550
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

<b>Prerequisites</b>	
Incident ID (n#)	nAPP2207343782
Incident Name	NAPP2207343782 COTTON DRAW PIPELINE @ 0
Incident Type	Natural Gas Release
Incident Status	Remediation Closure Report Received
Incident Facility	[fCH1828942393] ETC COTTON DRAW PIPELINE

<b>Location of Release Source</b>	
Please answer all the questions in this group.	
Site Name	COTTON DRAW PIPELINE
Date Release Discovered	03/02/2022
Surface Owner	Federal

<b>Incident Details</b>	
Please answer all the questions in this group.	
Incident Type	Natural Gas Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

<b>Nature and Volume of Release</b>	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	Not answered.
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Cause: Corrosion   Pipeline (Any)   Natural Gas Liquids   Released: 22 BBL   Recovered: 0 BBL   Lost: 22 BBL.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 313550

**QUESTIONS (continued)**

Operator: ETC Texas Pipeline, Ltd. 8111 Westchester Drive Dallas, TX 75225	OGRID:	371183
	Action Number:	313550
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
Is this a gas only submission (i.e. only significant Mcf values reported)	<b>No, according to supplied volumes this does not appear to be a "gas only" report.</b>
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	<b>No</b>
Reasons why this would be considered a submission for a notification of a major release	<i>Unavailable.</i>
<i>With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.</i>	

**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	<b>True</b>
The impacted area has been secured to protect human health and the environment	<b>True</b>
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	<b>True</b>
All free liquids and recoverable materials have been removed and managed appropriately	<b>True</b>
If all the actions described above have not been undertaken, explain why	<i>Not answered.</i>

*Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.*

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.

I hereby agree and sign off to the above statement	Name: Dean Ericson Title: Sr. Environmental Specialist Email: dean.ericson@energytransfer.com Date: 02/12/2024
--	---

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QUESTIONS, Page 3

Action 313550

**QUESTIONS (continued)**

Operator: ETC Texas Pipeline, Ltd. 8111 Westchester Drive Dallas, TX 75225	OGRID:	371183
	Action Number:	313550
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS****Site Characterization**

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Between 1 and 5 (mi.)
An (non-karst) unstable area	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

**Remediation Plan**

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
<b>Soil Contamination Sampling:</b> (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	4500
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	8015
GRO+DRO (EPA SW-846 Method 8015M)	8015
BTEX (EPA SW-846 Method 8021B or 8260B)	8021
Benzene (EPA SW-846 Method 8021B or 8260B)	8021

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

On what estimated date will the remediation commence	01/09/2023
On what date will (or did) the final sampling or liner inspection occur	07/12/2023
On what date will (or was) the remediation complete(d)	07/19/2023
What is the estimated surface area (in square feet) that will be reclaimed	2298
What is the estimated volume (in cubic yards) that will be reclaimed	2298
What is the estimated surface area (in square feet) that will be remediated	2721
What is the estimated volume (in cubic yards) that will be remediated	2721

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 4  
  
Action 313550

**QUESTIONS (continued)**

Operator:  ETC Texas Pipeline, Ltd. 8111 Westchester Drive Dallas, TX 75225	OGRID:  371183
	Action Number:  313550
	Action Type:  [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Remediation Plan (continued)</b>	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
<b>This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:</b>	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for <b>off-site</b> disposal	LEA LAND LANDFILL [fEEM0112342028]
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	No
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	No
(Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
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.	
I hereby agree and sign off to the above statement	Name: Dean Ericson Title: Sr. Environmental Specialist Email: dean.ericson@energytransfer.com Date: 02/12/2024
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	



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QUESTIONS, Page 5  
  
Action 313550

QUESTIONS (continued)

Operator:  ETC Texas Pipeline, Ltd. 8111 Westchester Drive Dallas, TX 75225	OGRID:	371183
	Action Number:	313550
	Action Type:	
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

<b>Deferral Requests Only</b>	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 313550

**QUESTIONS (continued)**

Operator: ETC Texas Pipeline, Ltd. 8111 Westchester Drive Dallas, TX 75225	OGRID:	371183
	Action Number:	313550
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

Sampling Event Information	
Last sampling notification (C-141N) recorded	313433
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	07/12/2023
What was the (estimated) number of samples that were to be gathered	59
What was the sampling surface area in square feet	200

**Remediation Closure Request**

*Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.*

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	2721
What was the total volume (cubic yards) remediated	2721
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	2298
What was the total volume (in cubic yards) reclaimed	2298
Summarize any additional remediation activities not included by answers (above)	February 2, 2024, vertical delineation sample SP5-5.5' was collected by use of hand-auger. and submitted to Cardinal laboratory. Laboratory analytical results indicated BTEX, TPH and chloride concentrations were below the applicable NMOCD Closure Criteria and/ or the NMOCD Reclamation Standard.

*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 (in .pdf format) 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.*

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.

I hereby agree and sign off to the above statement	Name: Dean Ericson Title: Sr. Environmental Specialist Email: dean.ericson@energytransfer.com Date: 02/12/2024
--	---

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720  
**District II**  
811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720  
**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

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

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Action 313550

**QUESTIONS (continued)**

Operator: ETC Texas Pipeline, Ltd. 8111 Westchester Drive Dallas, TX 75225	OGRID:	371183
	Action Number:	313550
	Action Type:	
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

**QUESTIONS**

<b>Reclamation Report</b>	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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CONDITIONS  
  
Action 313550

CONDITIONS

Operator: ETC Texas Pipeline, Ltd. 8111 Westchester Drive Dallas, TX 75225	OGRID: 371183
	Action Number: 313550
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
scwells	None	2/14/2024