



[MCollier@H-R\\_Enterprises.com](mailto:MCollier@H-R_Enterprises.com) 575-909-0326

## Remediation and Closure Report

Triste Draw 25 CTB  
Incident# nAPP2300631557  
Lea County, New Mexico

### Prepared For:

Cimarex Energy Co.  
600 Marienfeld St.  
Midland, TX 79701

### Prepared By:

H&R Enterprises, LLC  
5120 W. Kansas St.  
Hobbs, New Mexico 88242

**March 03, 2023**

Mrs. Jennifer Nobui  
**NMOCD**  
1220 S. St. Francis Dr.  
Santa Fe, NM 87505

Subject: **Remediation and Closure Report**  
Triste Draw 25 CTB  
Lea County, NM

Dear Mrs. Nobui,

Cimarex Energy Co. has contracted H&R Enterprises (H&R) to perform site assessment and remediation services at the above-referenced location. The results of our site assessment and remediation activities are contained herein.

### **Site Information**

The Triste Draw 25 CTB is located approximately 30.6 miles West of Jal, New Mexico. The legal location for this release is Unit Letter P, Section 25, Township 23 South and Range 32 East in Lea County, New Mexico. More specifically the latitude and longitude for the release are 32.26939 North and -103.62188 West. Site plans are presented in [Appendix I](#).

According to the soil survey provided by the United States Department of Agriculture Natural Resources Conservation Service, the soil in this area is made up of Pyote and Maljamar fine sands, 0 to 3 percent slopes. The referenced soil data is attached in [Appendix II](#). Drainage courses in this area are typically dry. The project site is not located in a high Karst potential area (Karst Map, [Appendix I](#)).

## Groundwater and Site Characterization

The New Mexico Office of the State Engineer (NMOSE) web site indicates that the nearest reported depth to groundwater is 400-feet below ground surface (BGS). See [Appendix II](#) for the referenced groundwater data.

If a release occurs within the following areas, the responsible party must treat the release as if it occurred less than 50 feet to the groundwater in Table I, New Mexico Oil Conservation Division (NMOCD) Rule 19.15.29, NMAC.

<b>Approximate Depth to Groundwater</b>	<b>400 Feet/BGS</b>
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<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Within 300 feet of any continuously flowing watercourse or any other significant watercourse
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Within 200 feet of any lakebed, sinkhole, or a playa lake
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Within 300 feet from an occupied permanent residence, school, hospital, institution, or church
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Within 500 feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Within 1000 feet of any freshwater well or spring
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Within incorporated municipal boundaries or within a defined municipal freshwater well field covered under a municipal ordinance adopted pursuant to Section 3-2703 NMSA 1978
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Within 300 feet of a wetland
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Within the area overlying a subsurface mine
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Within an unstable area
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Within a 100-year floodplain

Due to groundwater data from the NMOSE not being current an exploratory water bore was drilled to a total depth of 55-feet BGS on the Triste Draw 25 Federal #002H well pad approximately 0.24 miles to the east of the release area. As no groundwater was present, the closure criteria for this site are as follows:

Table I			
Closure Criteria for Soils Impacted by a Release			
Minimum depth below any point within the horizontal boundary of the release to ground water less than 10,000 mg/l TDS	Constituent	Method*	Limit**
51-100 feet	Chloride **	EPA 300.0 or SM4500 CIB	10,000 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	2,500 mg/kg
	DRO+GRO	EPA SW-846 Method 8015	1,000 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

### Incident Description

On January 5, 2023, the top gasket on a heater treater water leg failed and released fluid out of the top of the water leg. A total of 43 barrels (bbls) of fluid were released into the lined falcon containment and 7 bbls sprayed onto the well pad.

### Site Assessment and Remediation Activities

H&R mobilized personnel to begin site assessment, sampling, and remediation activities of the location. Grab samples were obtained by way of hand auger. Samples were transported to Cardinal Laboratory for analysis. The results of that analysis are presented in the following data table. Initial site assessment locations are illustrated on Site Assessment Map, [Appendix I](#). Before, during, and after photographs of the location are attached in [Appendix IV](#). Complete laboratory reports can be found in [Appendix V](#).

Table 1: Initial Soil Samples Analysis

Sample ID	Sample Date	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
NMOCD Table 1 Closure Criteria 19.15.29 NMAC			50 mg/kg	10 mg/kg	1000 mg/kg		2500 mg/kg	2500 mg/kg	10,000 mg/kg
S-1	1/27/2023	0-0.5'	ND	ND	ND	ND	ND	0	96
		1'	ND	ND	ND	ND	ND	0	48
		2'	ND	ND	ND	ND	ND	0	48
S-2	1/27/2023	0-0.5'	0.958	ND	12.3	31.3	ND	43.6	112
		1'	0.343	ND	ND	ND	ND	0	64
		2'	ND	ND	ND	ND	ND	0	96
S-3	1/27/2023	0-0.5'	2.35	ND	32.7	124	22.2	178.9	48
		1'	ND	ND	ND	ND	ND	0	48
		2'	ND	ND	ND	ND	ND	0	32
S-4	1/27/2023	0-0.5'	ND	ND	ND	ND	ND	0	32
		1'	ND	ND	ND	ND	ND	0	32
		2'	ND	ND	ND	ND	ND	0	32
S-5	1/27/2023	0-0.5'	148	ND	467	490	469	1426	32
		1'	0.543	ND	ND	17.2	21.5	38.7	32
		2'	ND	ND	ND	ND	ND	0	48
S-6	1/27/2023	0-0.5'	ND	ND	ND	ND	ND	0	32
		1'	ND	ND	ND	ND	ND	0	32
		2'	ND	ND	ND	ND	ND	0	16
S-7	1/27/2023	0-0.5'	319	4.21	1850	3830	609	6289	16
		1'	3.27	ND	75.6	571	118	764.6	32
		2'	ND	ND	ND	12.9	ND	12.9	16
S-8	1/27/2023	0-0.5'	304	14.3	3710	11000	1850	16560	272
		1'	ND	ND	ND	29	26.1	55.1	16
		2'	ND	ND	ND	30.8	ND	30.8	16
S-9	1/27/2023	0-0.5'	508	16.7	3810	6400	1240	11450	208
		1'	4.14	ND	15.1	121	49.8	185.9	128
		2'	0.535	ND	ND	70.2	13.7	83.9	32
S-10	1/27/2023	0-0.5'	ND	ND	ND	118	21.7	139.7	64
		1'	ND	ND	ND	ND	ND	0	16
		2'	ND	ND	ND	ND	ND	0	32
S-11	1/27/2023	0-0.5'	ND	ND	ND	ND	ND	0	96
		1'	ND	ND	ND	ND	ND	0	32
		2'	ND	ND	ND	ND	ND	0	32
S-12	2/22/2023	0-1'	0.0147	0.00715	ND	ND	ND	0	63.1
S-13	2/22/2023	0-1'	ND	ND	ND	ND	ND	0	64.8
S-14	2/22/2023	0-1'	ND	ND	ND	ND	ND	0	62.9

ND = Analyte Not Detected

Based on the results of our site assessment and upon client authorization, excavation activities of the impacted areas began. Confirmation composite samples were collected from the sidewalls and bottoms of the excavated area to confirm that NMOCD closure criteria had been met, the results of which can be found in the following data table. Confirmation sample locations and excavation dimensions can be found on Confirmation Sample Map in [Appendix I](#). Complete laboratory reports are attached in [Appendix V](#).

Table 2: Confirmation Soil Sample Analysis

Sample ID	Sample Date	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
NMOCD Table 1 Closure Criteria 19.15.29 NMAC			50 mg/kg	10 mg/kg	1000 mg/kg		2500 mg/kg	2500 mg/kg	mg/kg
S-1	2/22/2023	1'	ND	ND	ND	ND	ND	0	59.2
S-2	2/22/2023	1'	ND	ND	ND	ND	ND	0	49.1
S-3	2/22/2023	1'	ND	ND	ND	ND	ND	0	50.6
S-4	2/22/2023	1'	ND	ND	ND	ND	ND	0	48.5
SW-1	2/22/2023	1'	ND	ND	ND	ND	ND	0	49.9
SW-2	2/22/2023	1'	ND	ND	ND	ND	ND	0	68.8
SW-3	2/22/2023	1'	ND	ND	ND	ND	ND	0	54.3
SW-4	2/22/2023	1'	ND	ND	ND	ND	ND	0	53.6

ND = Analyte Not Detected SW = Sidewall

## Remedial Actions

- The impacted areas in the vicinity of initial assessment sample points S-7 through S-9 were excavated to a total depth of 1-foot BGS.
- Composite confirmation samples were obtained from the sidewalls and bottom of the excavation every 200sqft. to verify that all contaminants above closure criteria had been removed.
- All of the excavated material was hauled to Lea Land, a NMOCD approved solid waste disposal facility.
- The excavated areas on the well pad were backfilled with new caliche at depth and brought to grade, machine compacted and contoured to match the surrounding location.
- The Final C-141 formally documenting the remedial actions is attached in [Appendix III](#).

## Closure

Based on the site assessment, remedial actions and confirmation sampling results completed for this project, on behalf of Cimarex Energy Co. we request that no further actions be required, and that closure of this incident be granted.

Should you have any questions or if further information is required, please do not hesitate to contact our office at 575-909-0326.

Respectfully submitted,

H&R Enterprises, LLC



Michael Collier  
Environmental Project Manager

### Attachments:

- Appendix I Site Maps
- Appendix II Soil Survey, Groundwater Data
- Appendix III Initial and Final C-141
- Appendix IV Photographic Documentation
- Appendix V Laboratory Reports



# **APPENDIX I**

## **SITE MAPS**

### **KARST MAP**

### **TOPOGRAPHIC MAP**

### **LOCATOR MAP**

# Triste Draw 25 CTB

Cimarex Energy Co.  
Incident# nAPP2300631557  
Lea County, NM  
Site Assessment Map

## Legend

- Assessment Sample Point
- Initial Spill Boundary





80 ft

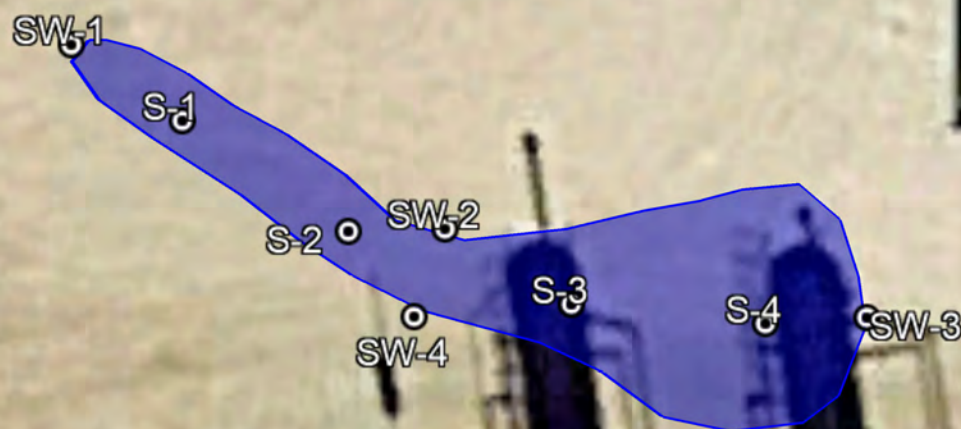


## Triste Draw 25 CTB

Cimarex Energy Co.  
Incident# nAPP2300631557  
Lea County, NM  
Confirmation Sample Map

### Legend

-  1ft. Excavation
-  Confirmation Composite Sample



50 ft



# Triste Draw 25 CTB

Cimarex Energy Co.  
Incident# nAPP2300631557  
Lea County, NM  
Karst Map

## Legend

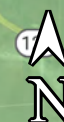
- High
- Low
- Medium
- Triste Draw 25 CTB

Triste Draw 25 CTB

128

128

128



9 mi


Google Earth

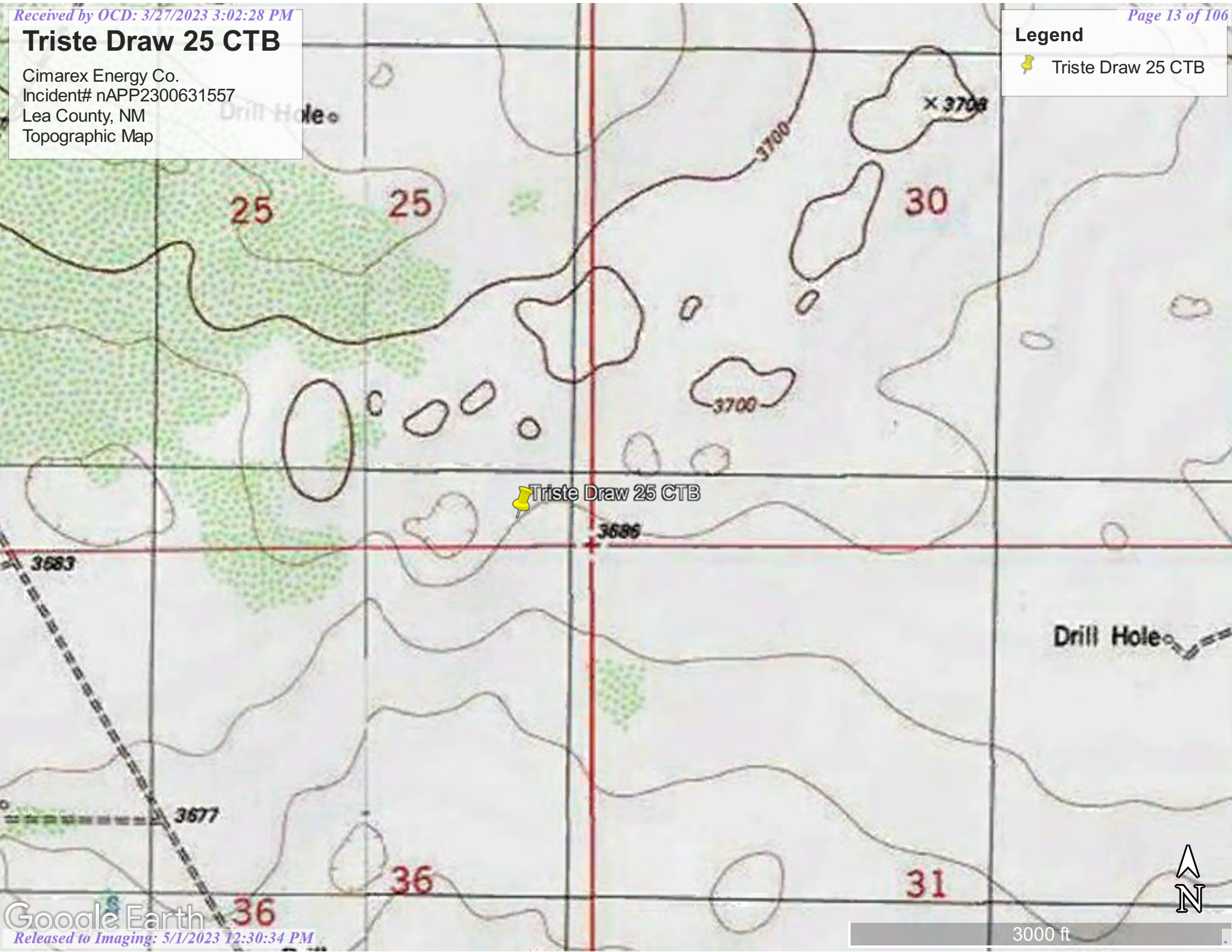


# Triste Draw 25 CTB

Cimarex Energy Co.  
Incident# nAPP2300631557  
Lea County, NM  
Topographic Map

## Legend

 Triste Draw 25 CTB







# Triste Draw 25 CTB

Cimarex Energy Co.  
Incident# nAPP2300631557  
Lea County, NM  
Locator Map

## Legend

 Triste Draw 25 CTB

 Triste Draw 25 CTB

128

128

128



9 mi

Google Earth

Released to Imaging: 5/1/2023 12:30:34 PM



## **APPENDIX II**

### **GROUNDWATER DATA**

### **SOIL SURVEY**

### **FEMA FLOOD ZONE**

### **WATER BORE MAP**

### **SOIL BORE LOG**



# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
<a href="#">C_04551</a> <a href="#">POD1</a>		CUB	LE	4	4	3	31	23S	33E	630671	3569556	1763			
<a href="#">C_02276</a>		CUB	LE	3	1	4	19	23S	33E	630848	3573154*	2296	650	400	250
<a href="#">C_02275</a>		CUB	LE	3	3	2	19	23S	33E	630843	3573557*	2660	650	400	250

Average Depth to Water: **400 feet**

Minimum Depth: **400 feet**

Maximum Depth: **400 feet**

**Record Count:** 3

**Basin/County Search:**

**County:** Lea

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

**Easting (X):** 629818.93

**Northing (Y):** 3571100.95

**Radius:** 3000

\*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.

3/2/23 9:55 AM

WATER COLUMN/ AVERAGE DEPTH TO  
WATER



# Triste Draw 25 CTB

Cimarex Energy Co.  
Incident# nAPP2300631557  
Lea County, NM  
Exploratory Water Bore Map

## Legend

- 0.24 miles
- Triste Draw 25 CTB
- Triste Draw Exploratory Water Bore

Triste Draw Exploratory Water Bore

Triste Draw 25 CTB



700 ft





Project Name :	Cimarex - Triste Draw 25 ROW	Date :	Wednesday, October 27th, 2021
Project No. :	214707	Sampler :	Nick Hart
Location :	Lea Co, New Mexico	Driller :	Scarborough Drilling
Coordinates :	32.269008°, -103.625727°	Method :	Air Rotary
Elevation :	3,625'		

Depth (ft.)	WL	Soil Description	Lithology	Depth (ft.)	WL	Soil Description	Lithology
0		(0') - Yellowish orange, coarse-grained loose sand and white caliche gravel in equal amounts. (SP). Dry		50		(50') - Yellowish orange, loose alluvial sand and gravel. Pebble size chert fragments. Chert is white to medium gray, angular to subrounded. >50% fine grained sand w/ 20% chert. (SW) Dry	
5		(3') - Reddish brown, coarse-grained to fine-grained, angular to rounded loose sand (SM). Dry		55		(55') - GWDB terminated @ 11:00 (MT) to a TD of 55' bgs	
10				60			
15		(15') - Yellowish orange, alluvial sand and gravelk. Well-graded fine-grained sand with <10% cobble sized white caliche (SW). Dry		65			
20				70			
25				75			
30				80			
35				85			
40				90			
45		(45') - Yellowish orange, rounded to angular loose sand with <10% caliche gravel. (SW) Dry		95			
50				105			

Comments : Total Depth 55' bgs  
Drilling Terminated @ 11:00 MT No groundwater present

Check for presence of groundwater on 11/01/2021

Map Unit Description: Pyote and Maljamar fine sands---Lea County, New Mexico

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## Lea County, New Mexico

### PU—Pyote and Maljamar fine sands

#### Map Unit Setting

*National map unit symbol:* dmqq

*Elevation:* 3,000 to 3,900 feet

*Mean annual precipitation:* 10 to 12 inches

*Mean annual air temperature:* 60 to 62 degrees F

*Frost-free period:* 190 to 205 days

*Farmland classification:* Not prime farmland

#### Map Unit Composition

*Pyote and similar soils:* 46 percent

*Maljamar and similar soils:* 44 percent

*Minor components:* 10 percent

*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### Description of Pyote

##### Setting

*Landform:* Plains

*Landform position (three-dimensional):* Rise

*Down-slope shape:* Linear

*Across-slope shape:* Linear

*Parent material:* Sandy eolian deposits derived from sedimentary rock

##### Typical profile

*A - 0 to 30 inches:* fine sand

*Bt - 30 to 60 inches:* fine sandy loam

##### Properties and qualities

*Slope:* 0 to 3 percent

*Depth to restrictive feature:* More than 80 inches

*Drainage class:* Well drained

*Runoff class:* Negligible

*Capacity of the most limiting layer to transmit water (Ksat):* High  
(2.00 to 6.00 in/hr)

*Depth to water table:* More than 80 inches

*Frequency of flooding:* None

*Frequency of ponding:* None

*Calcium carbonate, maximum content:* 5 percent

*Gypsum, maximum content:* 1 percent

*Maximum salinity:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

*Sodium adsorption ratio, maximum:* 2.0

*Available water supply, 0 to 60 inches:* Low (about 5.1 inches)

##### Interpretive groups

*Land capability classification (irrigated):* 6e

Map Unit Description: Pyote and Maljamar fine sands---Lea County, New Mexico

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*Land capability classification (nonirrigated): 7s*  
*Hydrologic Soil Group: A*  
*Ecological site: R070BD003NM - Loamy Sand*  
*Hydric soil rating: No*

## Description of Maljamar

### Setting

*Landform: Plains*  
*Landform position (three-dimensional): Rise*  
*Down-slope shape: Linear*  
*Across-slope shape: Linear*  
*Parent material: Sandy eolian deposits derived from sedimentary rock*

### Typical profile

*A - 0 to 24 inches: fine sand*  
*Bt - 24 to 50 inches: sandy clay loam*  
*Bkm - 50 to 60 inches: cemented material*

### Properties and qualities

*Slope: 0 to 3 percent*  
*Depth to restrictive feature: 40 to 60 inches to petrocalcic*  
*Drainage class: Well drained*  
*Runoff class: Very low*  
*Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)*  
*Depth to water table: More than 80 inches*  
*Frequency of flooding: None*  
*Frequency of ponding: None*  
*Calcium carbonate, maximum content: 5 percent*  
*Gypsum, maximum content: 1 percent*  
*Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)*  
*Sodium adsorption ratio, maximum: 2.0*  
*Available water supply, 0 to 60 inches: Low (about 5.6 inches)*

### Interpretive groups

*Land capability classification (irrigated): 6e*  
*Land capability classification (nonirrigated): 7e*  
*Hydrologic Soil Group: B*  
*Ecological site: R070BD003NM - Loamy Sand*  
*Hydric soil rating: No*

## Minor Components

### Kermit

*Percent of map unit: 10 percent*  
*Ecological site: R070BC022NM - Sandhills*

Map Unit Description: Pyote and Maljamar fine sands---Lea County, New Mexico

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*Hydric soil rating:* No

## Data Source Information

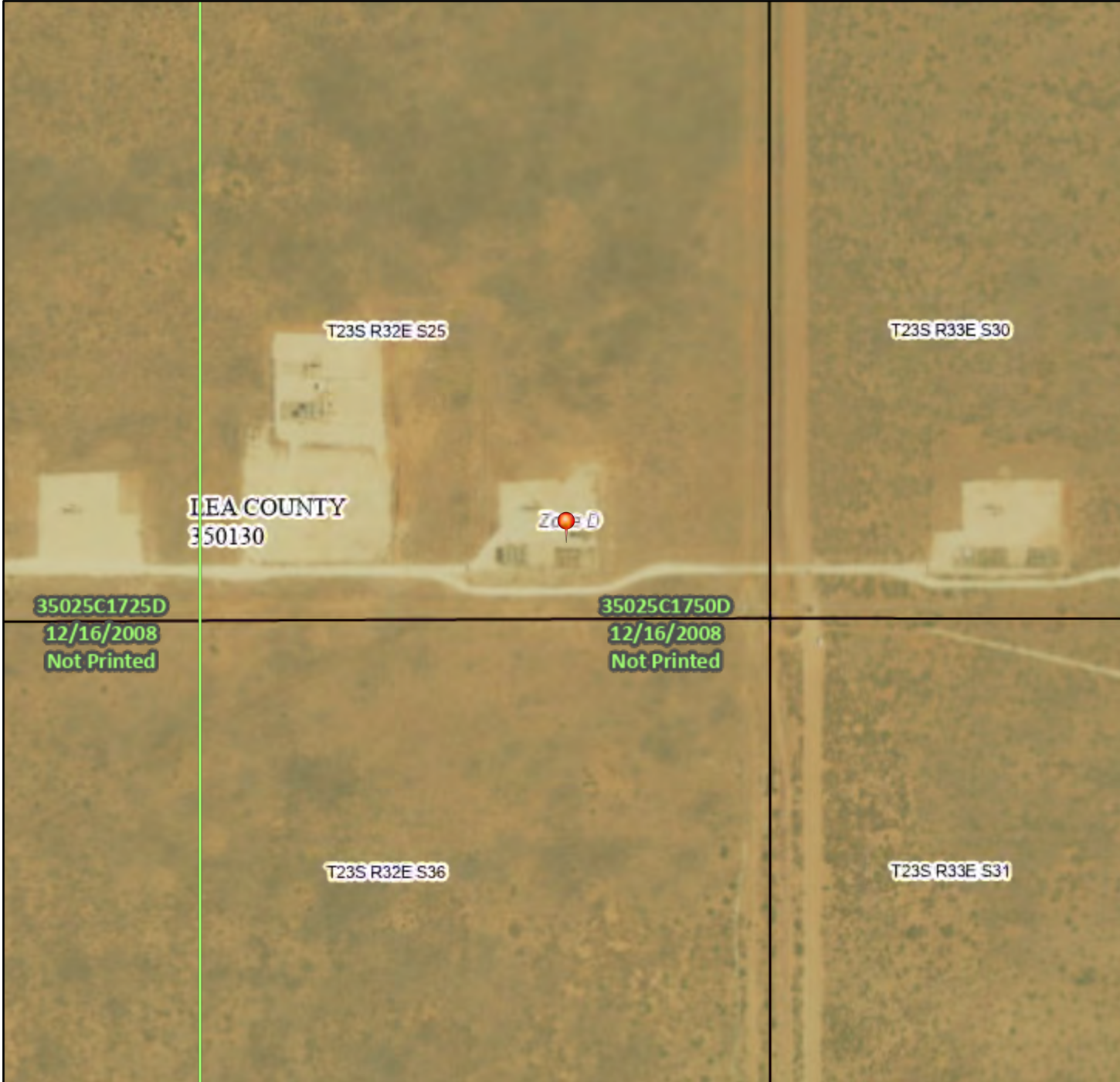
Soil Survey Area: Lea County, New Mexico

Survey Area Data: Version 19, Sep 8, 2022

# National Flood Hazard Layer FIRMette



103°37'37"W 32°16'24"N



## Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped



The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 3/2/2023 at 11:59 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

# **APPENDIX III**

## **INITIAL C-141 AND FINAL C-141**



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

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

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

Incident ID	nAPP2300631557
District RP	
Facility ID	fAPP2132651560
Application ID	

## Release Notification

### Responsible Party

Responsible Party: Cimarex Energy Co.	OGRID: 215099
Contact Name: Laci Luig	Contact Telephone: (432) 571-7800
Contact email: laci.luig@coterra.com	Incident # (assigned by OCD) nAPP2300631557
Contact mailing address: 600 N Marienfeld Street, Ste. 600 Midland, TX 79701	

### Location of Release Source

Latitude 32.26939 \_\_\_\_\_ Longitude -103.62188 \_\_\_\_\_  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Triste Draw 25 Federal	Site Type: Battery
Date Release Discovered: 1/5/2023	API# (if applicable)

Unit Letter	Section	Township	Range	County
P	25	23S	32E	Lea

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 checked="" type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" 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 type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

#### Cause of Release: Equipment Failure

The top gasket on a heater treater water leg failed and released fluid out of the top of the water leg. A total of 43 barrels was released into the lined containment and 7 barrels onto the well pad. A vac truck recovered all fluid from the lined containment. The vessel was isolated and taken out of service until repairs are made. The impacted soils are being scraped up from the well pad and hauled to an approved disposal site. Any further remediation will take place in the coming weeks. The containment will be washed and a liner inspection scheduled.

Spilled: 50 barrels (15 barrels oil + 35 barrels water)

Recovered: 43 barrels (8 barrels oil + 35 barrels water)



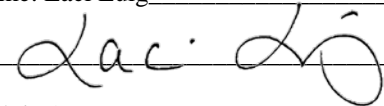
State of New Mexico  
Oil Conservation Division

Incident ID	nAPP2300631557
District RP	
Facility ID	fAPP2132651560
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?  <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? Total amount released is greater than 25 barrels.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? By: Laci Luig To: OCD Enviro., BLM By: Email	

### 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: Laci Luig	Title: ESH Specialist
Signature: 	Date: 1/6/2023
email: laci.luig@coterra.com	Telephone: (432) 208-3035
<b><u>OCD Only</u></b>	
Received by: Jocelyn Harimon	Date: 03/27/2023

Incident ID	nAPP2300631557
District RP	
Facility ID	fAPP2132651560
Application ID	

## Site Assessment/Characterization

*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?	>55 (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

### **Characterization Report Checklist:** *Each of the following items must be included in the report.*

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☐ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☒ Boring or excavation logs
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

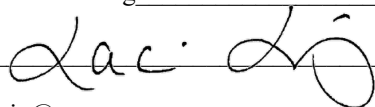
State of New Mexico  
Oil Conservation Division

Page 4

Incident ID	nAPP2300631557
District RP	
Facility ID	fAPP2132651560
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: Laci Luig \_\_\_\_\_ Title: ESH Specialist \_\_\_\_\_

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

Date: 3/27/2023 \_\_\_\_\_

email: laci.luig@coterra.com \_\_\_\_\_

Telephone: (432) 208-3035 \_\_\_\_\_

**OCD Only**Received by: Jocelyn Harimon \_\_\_\_\_Date: 03/27/2023 \_\_\_\_\_

Incident ID	nAPP2300631557
District RP	
Facility ID	fAPP2132651560
Application ID	

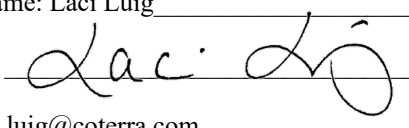
## Closure

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: Laci Luig \_\_\_\_\_ Title: ESH Specialist \_\_\_\_\_  
Signature:  \_\_\_\_\_ Date: 3/27/2023 \_\_\_\_\_  
email: laci.luig@coterra.com \_\_\_\_\_ Telephone: (432) 208-3035 \_\_\_\_\_

**OCD Only**

Received by: Jocelyn Harimon \_\_\_\_\_ Date: 03/27/2023 \_\_\_\_\_

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: 05/01/2023 \_\_\_\_\_  
Printed Name: Jennifer Nobui \_\_\_\_\_ Title: Environmental Specialist A \_\_\_\_\_

**From:** [Enviro, OCD, EMNRD](#)  
**To:** [Laci Luig](#)  
**Cc:** [Nobui, Jennifer, EMNRD](#); [Mike Carmona](#)  
**Subject:** RE: [EXTERNAL] nAPP2300631557 Triste Draw 25 Federal 1,2,7 sample notification  
**Date:** Thursday, February 16, 2023 11:44:54 AM  
**Attachments:** [image002.jpg](#)  
[image003.jpg](#)  
[0.jpg](#)

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**WARNING:** This email originated from outside of Coterra Energy. Do not click links or open attachments unless you recognize the sender, are expecting the content and know it is safe.

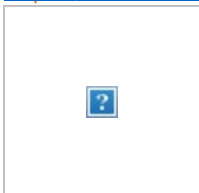


Laci,

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

JH

**Jocelyn Harimon** • Environmental Specialist  
Environmental Bureau  
EMNRD - Oil Conservation Division  
1220 South St. Francis Drive | Santa Fe, NM 87505  
(505)469-2821 | [Jocelyn.Harimon@emnrd.nm.gov](mailto:Jocelyn.Harimon@emnrd.nm.gov)  
<http://www.emnrd.nm.gov>



---

**From:** Laci Luig <[Laci.Luig@coterra.com](mailto:Laci.Luig@coterra.com)>  
**Sent:** Thursday, February 16, 2023 8:08 AM  
**To:** Enviro, OCD, EMNRD <[OCD.Enviro@emnrd.nm.gov](mailto:OCD.Enviro@emnrd.nm.gov)>; BLM Spill Notifications <[blm\\_nm\\_cfo\\_spill@blm.gov](mailto:blm_nm_cfo_spill@blm.gov)>  
**Cc:** Michael Collier <[mcollier@h-r-enterprises.com](mailto:mcollier@h-r-enterprises.com)>  
**Subject:** [EXTERNAL] nAPP2300631557 Triste Draw 25 Federal 1,2,7 sample notification

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good morning,

This email serves as notification for confirmation sampling on the Triste Draw Federal  
th

1,27. Sampling is scheduled to begin as early as Monday, February 20 . H&R Enterprises will be onsite to collect the confirmation samples.

Thank you,



**Laci Luig** | Environmental, Health & Safety Specialist  
T: 432.571.7810 | M: 432.208.3035 | [laci.luig@coterra.com](mailto:laci.luig@coterra.com) | [www.coterra.com](http://www.coterra.com)  
Coterra Energy Inc. | 600 N. Marienfeld Street, Suite 600 | Midland, TX 79701

Coterra Energy Inc. is the result of the merger of Cimarex Energy Co. and Cabot Oil & Gas Corporation on October 1, 2021.

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# **APPENDIX IV**

## **PHOTOGRAPHIC DOCUMENTATION**



PHOTOGRAPHIC DOCUMENTATION

INITIAL PHOTOGRAPHS



EXCAVATION PHOTOGRAPHS





PHOTOGRAPHIC DOCUMENTATION



FINAL PHOTOGRAPHS



# **APPENDIX V**

## **LABORATORY REPORTS**



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

February 03, 2023

MICHAEL COLLIER

H & R ENTERPRISES

1010 GAMBLIN ROAD

HOBBS, NM 88240

RE: TRISTY DRAW 25 CTB (TRISTY)

Enclosed are the results of analyses for samples received by the laboratory on 01/27/23 14:35.

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:**

H & R ENTERPRISES  
 MICHAEL COLLIER  
 1010 GAMBLIN ROAD  
 HOBBS NM, 88240  
 Fax To: NONE

Received:	01/27/2023	Sampling Date:	01/27/2023
Reported:	02/03/2023	Sampling Type:	Soil
Project Name:	TRISTY DRAW 25 CTB (TRISTY)	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA COUNTY		

**Sample ID: S - 1 0-.5' (H230414-01)**

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	1.99	99.6	2.00	6.44		
Toluene*	<0.050	0.050	01/31/2023	ND	2.12	106	2.00	6.09		
Ethylbenzene*	<0.050	0.050	01/31/2023	ND	2.12	106	2.00	9.42		
Total Xylenes*	<0.150	0.150	01/31/2023	ND	6.57	109	6.00	9.68		
Total BTEx	<0.300	0.300	01/31/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	96.0	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 97.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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:**

H & R ENTERPRISES  
 MICHAEL COLLIER  
 1010 GAMBLIN ROAD  
 HOBBS NM, 88240  
 Fax To: NONE

Received: 01/27/2023  
 Reported: 02/03/2023  
 Project Name: TRISTY DRAW 25 CTB (TRISTY)  
 Project Number: NOT GIVEN  
 Project Location: CIMAREX - LEA COUNTY

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

**Sample ID: S - 1 1' (H230414-02)**

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	1.99	99.6	2.00	6.44		
Toluene*	<0.050	0.050	01/31/2023	ND	2.12	106	2.00	6.09		
Ethylbenzene*	<0.050	0.050	01/31/2023	ND	2.12	106	2.00	9.42		
Total Xylenes*	<0.150	0.150	01/31/2023	ND	6.57	109	6.00	9.68		
Total BTEX	<0.300	0.300	01/31/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	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 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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:**

H & R ENTERPRISES  
 MICHAEL COLLIER  
 1010 GAMBLIN ROAD  
 HOBBS NM, 88240  
 Fax To: NONE

Received: 01/27/2023  
 Reported: 02/03/2023  
 Project Name: TRISTY DRAW 25 CTB (TRISTY)  
 Project Number: NOT GIVEN  
 Project Location: CIMAREX - LEA COUNTY

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

**Sample ID: S - 1 2' (H230414-03)**

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	1.99	99.6	2.00	6.44		
Toluene*	<0.050	0.050	01/31/2023	ND	2.12	106	2.00	6.09		
Ethylbenzene*	<0.050	0.050	01/31/2023	ND	2.12	106	2.00	9.42		
Total Xylenes*	<0.150	0.150	01/31/2023	ND	6.57	109	6.00	9.68		
Total BTEX	<0.300	0.300	01/31/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	48.0	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 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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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:**

H & R ENTERPRISES  
 MICHAEL COLLIER  
 1010 GAMBLIN ROAD  
 HOBBS NM, 88240  
 Fax To: NONE

Received: 01/27/2023  
 Reported: 02/03/2023  
 Project Name: TRISTY DRAW 25 CTB (TRISTY)  
 Project Number: NOT GIVEN  
 Project Location: CIMAREX - LEA COUNTY

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

**Sample ID: S - 2 0-.5' (H230414-05)**

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	1.99	99.6	2.00	6.44	
Toluene*	0.073	0.050	01/31/2023	ND	2.12	106	2.00	6.09	
Ethylbenzene*	0.113	0.050	01/31/2023	ND	2.12	106	2.00	9.42	
Total Xylenes*	0.772	0.150	01/31/2023	ND	6.57	109	6.00	9.68	
Total BTEX	0.958	0.300	01/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 124 % 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	112	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*	12.3	10.0	01/31/2023	ND	197	98.6	200	2.76	
DRO >C10-C28*	31.3	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 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

H & R ENTERPRISES  
 MICHAEL COLLIER  
 1010 GAMBLIN ROAD  
 HOBBS NM, 88240  
 Fax To: NONE

Received: 01/27/2023  
 Reported: 02/03/2023  
 Project Name: TRISTY DRAW 25 CTB (TRISTY)  
 Project Number: NOT GIVEN  
 Project Location: CIMAREX - LEA COUNTY

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

**Sample ID: S - 2 1' (H230414-06)**

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	1.99	99.6	2.00	6.44	
Toluene*	0.113	0.050	01/31/2023	ND	2.12	106	2.00	6.09	
Ethylbenzene*	<0.050	0.050	01/31/2023	ND	2.12	106	2.00	9.42	
Total Xylenes*	0.230	0.150	01/31/2023	ND	6.57	109	6.00	9.68	
Total BTEX	0.343	0.300	01/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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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:**

H & R ENTERPRISES  
 MICHAEL COLLIER  
 1010 GAMBLIN ROAD  
 HOBBS NM, 88240  
 Fax To: NONE

Received: 01/27/2023  
 Reported: 02/03/2023  
 Project Name: TRISTY DRAW 25 CTB (TRISTY)  
 Project Number: NOT GIVEN  
 Project Location: CIMAREX - LEA COUNTY

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

**Sample ID: S - 2 2' (H230414-07)**

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	1.99	99.6	2.00	6.44		
Toluene*	<0.050	0.050	01/31/2023	ND	2.12	106	2.00	6.09		
Ethylbenzene*	<0.050	0.050	01/31/2023	ND	2.12	106	2.00	9.42		
Total Xylenes*	<0.150	0.150	01/31/2023	ND	6.57	109	6.00	9.68		
Total BTEX	<0.300	0.300	01/31/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	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 106 % 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



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

**Analytical Results For:**

H & R ENTERPRISES  
 MICHAEL COLLIER  
 1010 GAMBLIN ROAD  
 HOBBS NM, 88240  
 Fax To: NONE

Received: 01/27/2023  
 Reported: 02/03/2023  
 Project Name: TRISTY DRAW 25 CTB (TRISTY)  
 Project Number: NOT GIVEN  
 Project Location: CIMAREX - LEA COUNTY

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

**Sample ID: S - 3 0-.5' (H230414-09)**

BTEx 8021B		mg/kg	Analyzed By: JH/					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/31/2023	ND	1.99	99.6	2.00	6.44	
Toluene*	<b>0.111</b>	0.050	01/31/2023	ND	2.12	106	2.00	6.09	
Ethylbenzene*	<b>0.286</b>	0.050	01/31/2023	ND	2.12	106	2.00	9.42	
Total Xylenes*	<b>1.95</b>	0.150	01/31/2023	ND	6.57	109	6.00	9.68	
Total BTEX	<b>2.35</b>	0.300	01/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 140 % 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	<b>48.0</b>	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*	<b>32.7</b>	10.0	01/31/2023	ND	197	98.6	200	2.76	
DRO >C10-C28*	<b>124</b>	10.0	01/31/2023	ND	188	94.1	200	7.72	
EXT DRO >C28-C36	<b>22.2</b>	10.0	01/31/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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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:**

H & R ENTERPRISES  
 MICHAEL COLLIER  
 1010 GAMBLIN ROAD  
 HOBBS NM, 88240  
 Fax To: NONE

Received: 01/27/2023  
 Reported: 02/03/2023  
 Project Name: TRISTY DRAW 25 CTB (TRISTY)  
 Project Number: NOT GIVEN  
 Project Location: CIMAREX - LEA COUNTY

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

**Sample ID: S - 3 1' (H230414-10)**

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	1.99	99.6	2.00	6.44		
Toluene*	<0.050	0.050	01/31/2023	ND	2.12	106	2.00	6.09		
Ethylbenzene*	<0.050	0.050	01/31/2023	ND	2.12	106	2.00	9.42		
Total Xylenes*	<0.150	0.150	01/31/2023	ND	6.57	109	6.00	9.68		
Total BTEX	<0.300	0.300	01/31/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	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 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

H & R ENTERPRISES  
 MICHAEL COLLIER  
 1010 GAMBLIN ROAD  
 HOBBS NM, 88240  
 Fax To: NONE

Received: 01/27/2023  
 Reported: 02/03/2023  
 Project Name: TRISTY DRAW 25 CTB (TRISTY)  
 Project Number: NOT GIVEN  
 Project Location: CIMAREX - LEA COUNTY

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

**Sample ID: S - 3 2' (H230414-11)**

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	1.99	99.6	2.00	6.44		
Toluene*	<0.050	0.050	01/31/2023	ND	2.12	106	2.00	6.09		
Ethylbenzene*	<0.050	0.050	01/31/2023	ND	2.12	106	2.00	9.42		
Total Xylenes*	<0.150	0.150	01/31/2023	ND	6.57	109	6.00	9.68		
Total BTEx	<0.300	0.300	01/31/2023	ND						

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

Chloride, SM4500CI-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 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

H & R ENTERPRISES  
 MICHAEL COLLIER  
 1010 GAMBLIN ROAD  
 HOBBS NM, 88240  
 Fax To: NONE

Received: 01/27/2023  
 Reported: 02/03/2023  
 Project Name: TRISTY DRAW 25 CTB (TRISTY)  
 Project Number: NOT GIVEN  
 Project Location: CIMAREX - LEA COUNTY

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

**Sample ID: S - 4 0-.5' (H230414-13)**

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	1.99	99.6	2.00	6.44		
Toluene*	<0.050	0.050	01/31/2023	ND	2.12	106	2.00	6.09		
Ethylbenzene*	<0.050	0.050	01/31/2023	ND	2.12	106	2.00	9.42		
Total Xylenes*	<0.150	0.150	01/31/2023	ND	6.57	109	6.00	9.68		
Total BTEX	<0.300	0.300	01/31/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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 99.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

H & R ENTERPRISES  
 MICHAEL COLLIER  
 1010 GAMBLIN ROAD  
 HOBBS NM, 88240  
 Fax To: NONE

Received: 01/27/2023  
 Reported: 02/03/2023  
 Project Name: TRISTY DRAW 25 CTB (TRISTY)  
 Project Number: NOT GIVEN  
 Project Location: CIMAREX - LEA COUNTY

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

**Sample ID: S - 4 1' (H230414-14)**

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	1.99	99.6	2.00	6.44		
Toluene*	<0.050	0.050	01/31/2023	ND	2.12	106	2.00	6.09		
Ethylbenzene*	<0.050	0.050	01/31/2023	ND	2.12	106	2.00	9.42		
Total Xylenes*	<0.150	0.150	01/31/2023	ND	6.57	109	6.00	9.68		
Total BTEx	<0.300	0.300	01/31/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500CI-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 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

H & R ENTERPRISES  
 MICHAEL COLLIER  
 1010 GAMBLIN ROAD  
 HOBBS NM, 88240  
 Fax To: NONE

Received: 01/27/2023  
 Reported: 02/03/2023  
 Project Name: TRISTY DRAW 25 CTB (TRISTY)  
 Project Number: NOT GIVEN  
 Project Location: CIMAREX - LEA COUNTY

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

**Sample ID: S - 4 2' (H230414-15)**

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	1.99	99.6	2.00	6.44		
Toluene*	<0.050	0.050	01/31/2023	ND	2.12	106	2.00	6.09		
Ethylbenzene*	<0.050	0.050	01/31/2023	ND	2.12	106	2.00	9.42		
Total Xylenes*	<0.150	0.150	01/31/2023	ND	6.57	109	6.00	9.68		
Total BTEx	<0.300	0.300	01/31/2023	ND						

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

Chloride, SM4500CI-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 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

H & R ENTERPRISES  
 MICHAEL COLLIER  
 1010 GAMBLIN ROAD  
 HOBBS NM, 88240  
 Fax To: NONE

Received: 01/27/2023  
 Reported: 02/03/2023  
 Project Name: TRISTY DRAW 25 CTB (TRISTY)  
 Project Number: NOT GIVEN  
 Project Location: CIMAREX - LEA COUNTY

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

**Sample ID: S - 5 0-.5' (H230414-17)**

BTEx 8021B		mg/kg	Analyzed By: JH/					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	01/31/2023	ND	1.99	99.6	2.00	6.44	
Toluene*	31.3	0.500	01/31/2023	ND	2.12	106	2.00	6.09	
Ethylbenzene*	20.0	0.500	01/31/2023	ND	2.12	106	2.00	9.42	
Total Xylenes*	97.2	1.50	01/31/2023	ND	6.57	109	6.00	9.68	
Total BTEX	148	3.00	01/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 147 % 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*	467	10.0	01/31/2023	ND	190	94.9	200	0.466	QM-07
DRO >C10-C28*	490	10.0	01/31/2023	ND	187	93.3	200	0.00428	QM-07
EXT DRO >C28-C36	169	10.0	01/31/2023	ND					

Surrogate: 1-Chlorooctane 95.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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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:**

H & R ENTERPRISES  
 MICHAEL COLLIER  
 1010 GAMBLIN ROAD  
 HOBBS NM, 88240  
 Fax To: NONE

Received: 01/27/2023  
 Reported: 02/03/2023  
 Project Name: TRISTY DRAW 25 CTB (TRISTY)  
 Project Number: NOT GIVEN  
 Project Location: CIMAREX - LEA COUNTY

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

**Sample ID: S - 5 1' (H230414-18)**

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	1.99	99.6	2.00	6.44	
Toluene*	0.152	0.050	01/31/2023	ND	2.12	106	2.00	6.09	
Ethylbenzene*	0.063	0.050	01/31/2023	ND	2.12	106	2.00	9.42	
Total Xylenes*	0.328	0.150	01/31/2023	ND	6.57	109	6.00	9.68	
Total BTEX	0.543	0.300	01/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	190	94.9	200	0.466	
DRO >C10-C28*	17.2	10.0	01/31/2023	ND	187	93.3	200	0.00428	
EXT DRO >C28-C36	21.5	10.0	01/31/2023	ND					

Surrogate: 1-Chlorooctane 84.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.6 % 49.1-148

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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:**

H & R ENTERPRISES  
 MICHAEL COLLIER  
 1010 GAMBLIN ROAD  
 HOBBS NM, 88240  
 Fax To: NONE

Received: 01/27/2023  
 Reported: 02/03/2023  
 Project Name: TRISTY DRAW 25 CTB (TRISTY)  
 Project Number: NOT GIVEN  
 Project Location: CIMAREX - LEA COUNTY

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

**Sample ID: S - 5 2' (H230414-19)**

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 (PID) 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	48.0	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	190	94.9	200	0.466	
DRO >C10-C28*	<10.0	10.0	01/31/2023	ND	187	93.3	200	0.00428	
EXT DRO >C28-C36	<10.0	10.0	01/31/2023	ND					

Surrogate: 1-Chlorooctane 80.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.0 % 49.1-148

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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:**

H & R ENTERPRISES  
 MICHAEL COLLIER  
 1010 GAMBLIN ROAD  
 HOBBS NM, 88240  
 Fax To: NONE

Received: 01/27/2023  
 Reported: 02/03/2023  
 Project Name: TRISTY DRAW 25 CTB (TRISTY)  
 Project Number: NOT GIVEN  
 Project Location: CIMAREX - LEA COUNTY

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

**Sample ID: S - 6 0-5' (H230414-21)**

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 (PID) 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	190	94.9	200	0.466	
DRO >C10-C28*	<10.0	10.0	01/31/2023	ND	187	93.3	200	0.00428	
EXT DRO >C28-C36	<10.0	10.0	01/31/2023	ND					

Surrogate: 1-Chlorooctane 85.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

H & R ENTERPRISES  
 MICHAEL COLLIER  
 1010 GAMBLIN ROAD  
 HOBBS NM, 88240  
 Fax To: NONE

Received: 01/27/2023  
 Reported: 02/03/2023  
 Project Name: TRISTY DRAW 25 CTB (TRISTY)  
 Project Number: NOT GIVEN  
 Project Location: CIMAREX - LEA COUNTY

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

**Sample ID: S - 6 1' (H230414-22)**

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	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 BTX	<0.300	0.300	01/31/2023	ND					

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

Chloride, SM4500CI-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	190	94.9	200	0.466	
DRO >C10-C28*	<10.0	10.0	01/31/2023	ND	187	93.3	200	0.00428	
EXT DRO >C28-C36	<10.0	10.0	01/31/2023	ND					

Surrogate: 1-Chlorooctane 88.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

H & R ENTERPRISES  
 MICHAEL COLLIER  
 1010 GAMBLIN ROAD  
 HOBBS NM, 88240  
 Fax To: NONE

Received: 01/27/2023  
 Reported: 02/03/2023  
 Project Name: TRISTY DRAW 25 CTB (TRISTY)  
 Project Number: NOT GIVEN  
 Project Location: CIMAREX - LEA COUNTY

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

**Sample ID: S - 6 2' (H230414-23)**

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	01/31/2023	ND	2.00	99.9	2.00	1.45		
Toluene*	0.125	0.050	01/31/2023	ND	2.12	106	2.00	1.38		
Ethylbenzene*	<0.050	0.050	01/31/2023	ND	2.09	104	2.00	1.13		
Total Xylenes*	<0.150	0.150	01/31/2023	ND	6.44	107	6.00	1.67		
Total BTEx	<0.300	0.300	01/31/2023	ND						

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

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	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	01/31/2023	ND	190	94.9	200	0.466	
DRO >C10-C28*	<10.0	10.0	01/31/2023	ND	187	93.3	200	0.00428	
EXT DRO >C28-C36	<10.0	10.0	01/31/2023	ND					

Surrogate: 1-Chlorooctane 85.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

H & R ENTERPRISES  
 MICHAEL COLLIER  
 1010 GAMBLIN ROAD  
 HOBBS NM, 88240  
 Fax To: NONE

Received: 01/27/2023  
 Reported: 02/03/2023  
 Project Name: TRISTY DRAW 25 CTB (TRISTY)  
 Project Number: NOT GIVEN  
 Project Location: CIMAREX - LEA COUNTY

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

**Sample ID: S - 7 0-5' (H230414-25)**

BTEx 8021B		mg/kg	Analyzed By: JH/					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>4.21</b>	0.500	01/31/2023	ND	2.00	99.9	2.00	1.45	
<b>Toluene*</b>	<b>93.9</b>	0.500	01/31/2023	ND	2.12	106	2.00	1.38	
<b>Ethylbenzene*</b>	<b>38.4</b>	0.500	01/31/2023	ND	2.09	104	2.00	1.13	
<b>Total Xylenes*</b>	<b>182</b>	1.50	01/31/2023	ND	6.44	107	6.00	1.67	
<b>Total BTEX</b>	<b>319</b>	3.00	01/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 197 % 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
<b>Chloride</b>	<b>16.0</b>	16.0	01/31/2023	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>1850</b>	10.0	01/31/2023	ND	190	94.9	200	0.466	
<b>DRO &gt;C10-C28*</b>	<b>3830</b>	10.0	01/31/2023	ND	187	93.3	200	0.00428	
<b>EXT DRO &gt;C28-C36</b>	<b>609</b>	10.0	01/31/2023	ND					

Surrogate: 1-Chlorooctane 171 % 48.2-134

Surrogate: 1-Chlorooctadecane 206 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

H & R ENTERPRISES  
 MICHAEL COLLIER  
 1010 GAMBLIN ROAD  
 HOBBS NM, 88240  
 Fax To: NONE

Received: 01/27/2023  
 Reported: 02/03/2023  
 Project Name: TRISTY DRAW 25 CTB (TRISTY)  
 Project Number: NOT GIVEN  
 Project Location: CIMAREX - LEA COUNTY

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

**Sample ID: S - 7 1' (H230414-26)**

BTEx 8021B		mg/kg	Analyzed By: JH/					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/31/2023	ND	2.00	99.9	2.00	1.45	
Toluene*	<b>0.311</b>	0.050	01/31/2023	ND	2.12	106	2.00	1.38	
Ethylbenzene*	<b>0.410</b>	0.050	01/31/2023	ND	2.09	104	2.00	1.13	
Total Xylenes*	<b>2.55</b>	0.150	01/31/2023	ND	6.44	107	6.00	1.67	
Total BTEX	<b>3.27</b>	0.300	01/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 142 % 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	<b>32.0</b>	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*	<b>75.6</b>	10.0	01/31/2023	ND	190	94.9	200	0.466	
DRO >C10-C28*	<b>571</b>	10.0	01/31/2023	ND	187	93.3	200	0.00428	
EXT DRO >C28-C36	<b>118</b>	10.0	01/31/2023	ND					

Surrogate: 1-Chlorooctane 124 % 48.2-134

Surrogate: 1-Chlorooctadecane 145 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

H & R ENTERPRISES  
 MICHAEL COLLIER  
 1010 GAMBLIN ROAD  
 HOBBS NM, 88240  
 Fax To: NONE

Received: 01/27/2023  
 Reported: 02/03/2023  
 Project Name: TRISTY DRAW 25 CTB (TRISTY)  
 Project Number: NOT GIVEN  
 Project Location: CIMAREX - LEA COUNTY

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

**Sample ID: S - 7 2' (H230414-27)**

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	01/31/2023	ND	2.00	99.9	2.00	1.45	
Toluene*	<0.050	0.050	01/31/2023	ND	2.12	106	2.00	1.38	
Ethylbenzene*	<0.050	0.050	01/31/2023	ND	2.09	104	2.00	1.13	
Total Xylenes*	<0.150	0.150	01/31/2023	ND	6.44	107	6.00	1.67	
Total BTX	<0.300	0.300	01/31/2023	ND					

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

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	01/31/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/31/2023	ND	190	94.9	200	0.466	
DRO >C10-C28*	12.9	10.0	01/31/2023	ND	187	93.3	200	0.00428	
EXT DRO >C28-C36	<10.0	10.0	01/31/2023	ND					

Surrogate: 1-Chlorooctane 232 % 48.2-134

Surrogate: 1-Chlorooctadecane 250 % 49.1-148

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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:**

H & R ENTERPRISES  
 MICHAEL COLLIER  
 1010 GAMBLIN ROAD  
 HOBBS NM, 88240  
 Fax To: NONE

Received: 01/27/2023  
 Reported: 02/03/2023  
 Project Name: TRISTY DRAW 25 CTB (TRISTY)  
 Project Number: NOT GIVEN  
 Project Location: CIMAREX - LEA COUNTY

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

**Sample ID: S - 8 0-5' (H230414-29)**

BTEx 8021B		mg/kg		Analyzed By: JH/				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	14.3	1.00	02/01/2023	ND	2.00	99.9	2.00	1.45	
Toluene*	106	1.00	02/01/2023	ND	2.12	106	2.00	1.38	
Ethylbenzene*	31.6	1.00	02/01/2023	ND	2.09	104	2.00	1.13	
Total Xylenes*	153	3.00	02/01/2023	ND	6.44	107	6.00	1.67	
Total BTEX	304	6.00	02/01/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 146 % 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
<b>Chloride</b>	<b>272</b>	16.0	01/31/2023	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*	3710	50.0	01/31/2023	ND	190	94.9	200	0.466	
DRO >C10-C28*	11000	50.0	01/31/2023	ND	187	93.3	200	0.00428	
EXT DRO >C28-C36	1850	50.0	01/31/2023	ND					

Surrogate: 1-Chlorooctane 436 % 48.2-134

Surrogate: 1-Chlorooctadecane 525 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

H & R ENTERPRISES  
 MICHAEL COLLIER  
 1010 GAMBLIN ROAD  
 HOBBS NM, 88240  
 Fax To: NONE

Received: 01/27/2023  
 Reported: 02/03/2023  
 Project Name: TRISTY DRAW 25 CTB (TRISTY)  
 Project Number: NOT GIVEN  
 Project Location: CIMAREX - LEA COUNTY

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

**Sample ID: S - 8 1' (H230414-30)**

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	2.00	99.9	2.00	1.45		
Toluene*	0.118	0.050	01/31/2023	ND	2.12	106	2.00	1.38		
Ethylbenzene*	<0.050	0.050	01/31/2023	ND	2.09	104	2.00	1.13		
Total Xylenes*	<0.150	0.150	01/31/2023	ND	6.44	107	6.00	1.67		
Total BTEx	<0.300	0.300	01/31/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

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	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	01/31/2023	ND	190	94.9	200	0.466	
DRO >C10-C28*	29.0	10.0	01/31/2023	ND	187	93.3	200	0.00428	
EXT DRO >C28-C36	26.1	10.0	01/31/2023	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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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:**

H & R ENTERPRISES  
 MICHAEL COLLIER  
 1010 GAMBLIN ROAD  
 HOBBS NM, 88240  
 Fax To: NONE

Received: 01/27/2023  
 Reported: 02/03/2023  
 Project Name: TRISTY DRAW 25 CTB (TRISTY)  
 Project Number: NOT GIVEN  
 Project Location: CIMAREX - LEA COUNTY

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

**Sample ID: S - 8 2' (H230414-31)**

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	2.00	99.9	2.00	1.45	
Toluene*	<0.050	0.050	01/31/2023	ND	2.12	106	2.00	1.38	
Ethylbenzene*	<0.050	0.050	01/31/2023	ND	2.09	104	2.00	1.13	
<b>Total Xylenes*</b>	<b>0.159</b>	0.150	01/31/2023	ND	6.44	107	6.00	1.67	
Total BTEx	<0.300	0.300	01/31/2023	ND					

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

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	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	01/31/2023	ND	190	94.9	200	0.466	
DRO >C10-C28*	30.8	10.0	01/31/2023	ND	187	93.3	200	0.00428	
EXT DRO >C28-C36	<10.0	10.0	01/31/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

H & R ENTERPRISES  
 MICHAEL COLLIER  
 1010 GAMBLIN ROAD  
 HOBBS NM, 88240  
 Fax To: NONE

Received: 01/27/2023  
 Reported: 02/03/2023  
 Project Name: TRISTY DRAW 25 CTB (TRISTY)  
 Project Number: NOT GIVEN  
 Project Location: CIMAREX - LEA COUNTY

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

**Sample ID: S - 9 0-5' (H230414-33)**

BTEx 8021B		mg/kg		Analyzed By: JH/				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>16.7</b>	1.00	01/31/2023	ND	2.00	99.9	2.00	1.45	
<b>Toluene*</b>	<b>179</b>	1.00	01/31/2023	ND	2.12	106	2.00	1.38	
<b>Ethylbenzene*</b>	<b>55.8</b>	1.00	01/31/2023	ND	2.09	104	2.00	1.13	
<b>Total Xylenes*</b>	<b>257</b>	3.00	01/31/2023	ND	6.44	107	6.00	1.67	
<b>Total BTEX</b>	<b>508</b>	6.00	01/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 162 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>208</b>	16.0	01/31/2023	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>3810</b>	10.0	01/31/2023	ND	190	94.9	200	0.466	
<b>DRO &gt;C10-C28*</b>	<b>6400</b>	10.0	01/31/2023	ND	187	93.3	200	0.00428	
<b>EXT DRO &gt;C28-C36</b>	<b>1240</b>	10.0	01/31/2023	ND					

Surrogate: 1-Chlorooctane 267 % 48.2-134

Surrogate: 1-Chlorooctadecane 293 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

H & R ENTERPRISES  
 MICHAEL COLLIER  
 1010 GAMBLIN ROAD  
 HOBBS NM, 88240  
 Fax To: NONE

Received: 01/27/2023  
 Reported: 02/03/2023  
 Project Name: TRISTY DRAW 25 CTB (TRISTY)  
 Project Number: NOT GIVEN  
 Project Location: CIMAREX - LEA COUNTY

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

**Sample ID: S - 9 1' (H230414-34)**

BTEx 8021B		mg/kg		Analyzed By: JH/				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/31/2023	ND	2.00	99.9	2.00	1.45	
Toluene*	0.479	0.050	01/31/2023	ND	2.12	106	2.00	1.38	
Ethylbenzene*	0.531	0.050	01/31/2023	ND	2.09	104	2.00	1.13	
Total Xylenes*	3.13	0.150	01/31/2023	ND	6.44	107	6.00	1.67	
Total BTEX	4.14	0.300	01/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 143 % 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	128	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*	15.1	10.0	01/31/2023	ND	190	94.9	200	0.466	
DRO >C10-C28*	121	10.0	01/31/2023	ND	187	93.3	200	0.00428	
EXT DRO >C28-C36	49.8	10.0	01/31/2023	ND					

Surrogate: 1-Chlorooctane 90.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

H & R ENTERPRISES  
 MICHAEL COLLIER  
 1010 GAMBLIN ROAD  
 HOBBS NM, 88240  
 Fax To: NONE

Received: 01/27/2023  
 Reported: 02/03/2023  
 Project Name: TRISTY DRAW 25 CTB (TRISTY)  
 Project Number: NOT GIVEN  
 Project Location: CIMAREX - LEA COUNTY

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

**Sample ID: S - 9 2' (H230414-35)**

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	2.00	99.9	2.00	1.45	
Toluene*	0.107	0.050	01/31/2023	ND	2.12	106	2.00	1.38	
Ethylbenzene*	<0.050	0.050	01/31/2023	ND	2.09	104	2.00	1.13	
Total Xylenes*	0.428	0.150	01/31/2023	ND	6.44	107	6.00	1.67	
Total BTEX	0.535	0.300	01/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 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	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	01/31/2023	ND	190	94.9	200	0.466	
DRO >C10-C28*	70.2	10.0	01/31/2023	ND	187	93.3	200	0.00428	
EXT DRO >C28-C36	13.7	10.0	01/31/2023	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

H & R ENTERPRISES  
 MICHAEL COLLIER  
 1010 GAMBLIN ROAD  
 HOBBS NM, 88240  
 Fax To: NONE

Received: 01/27/2023  
 Reported: 02/03/2023  
 Project Name: TRISTY DRAW 25 CTB (TRISTY)  
 Project Number: NOT GIVEN  
 Project Location: CIMAREX - LEA COUNTY

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

**Sample ID: S - 10 0-.5' (H230414-37)**

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	01/31/2023	ND	2.00	99.9	2.00	1.45	
Toluene*	<0.050	0.050	01/31/2023	ND	2.12	106	2.00	1.38	
Ethylbenzene*	<0.050	0.050	01/31/2023	ND	2.09	104	2.00	1.13	
Total Xylenes*	<0.150	0.150	01/31/2023	ND	6.44	107	6.00	1.67	
Total BTX	<0.300	0.300	01/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 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	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	01/31/2023	ND	190	94.9	200	0.466	
DRO >C10-C28*	118	10.0	01/31/2023	ND	187	93.3	200	0.00428	
EXT DRO >C28-C36	21.7	10.0	01/31/2023	ND					

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 128 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

H & R ENTERPRISES  
 MICHAEL COLLIER  
 1010 GAMBLIN ROAD  
 HOBBS NM, 88240  
 Fax To: NONE

Received: 01/27/2023  
 Reported: 02/03/2023  
 Project Name: TRISTY DRAW 25 CTB (TRISTY)  
 Project Number: NOT GIVEN  
 Project Location: CIMAREX - LEA COUNTY

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

**Sample ID: S - 10 1' (H230414-38)**

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	01/31/2023	ND	2.00	99.9	2.00	1.45	
Toluene*	<0.050	0.050	01/31/2023	ND	2.12	106	2.00	1.38	
Ethylbenzene*	<0.050	0.050	01/31/2023	ND	2.09	104	2.00	1.13	
Total Xylenes*	<0.150	0.150	01/31/2023	ND	6.44	107	6.00	1.67	
Total BTX	<0.300	0.300	01/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

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	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	01/31/2023	ND	190	94.9	200	0.466	
DRO >C10-C28*	<10.0	10.0	01/31/2023	ND	187	93.3	200	0.00428	
EXT DRO >C28-C36	<10.0	10.0	01/31/2023	ND					

Surrogate: 1-Chlorooctane 91.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

H & R ENTERPRISES  
 MICHAEL COLLIER  
 1010 GAMBLIN ROAD  
 HOBBS NM, 88240  
 Fax To: NONE

Received: 01/27/2023  
 Reported: 02/03/2023  
 Project Name: TRISTY DRAW 25 CTB (TRISTY)  
 Project Number: NOT GIVEN  
 Project Location: CIMAREX - LEA COUNTY

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

**Sample ID: S - 10 2' (H230414-39)**

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	01/31/2023	ND	2.00	99.9	2.00	1.45		
Toluene*	<0.050	0.050	01/31/2023	ND	2.12	106	2.00	1.38		
Ethylbenzene*	<0.050	0.050	01/31/2023	ND	2.09	104	2.00	1.13		
Total Xylenes*	<0.150	0.150	01/31/2023	ND	6.44	107	6.00	1.67		
Total BTX	<0.300	0.300	01/31/2023	ND						

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

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	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	01/31/2023	ND	190	94.9	200	0.466	
DRO >C10-C28*	<10.0	10.0	01/31/2023	ND	187	93.3	200	0.00428	
EXT DRO >C28-C36	<10.0	10.0	01/31/2023	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

H & R ENTERPRISES  
 MICHAEL COLLIER  
 1010 GAMBLIN ROAD  
 HOBBS NM, 88240  
 Fax To: NONE

Received: 01/27/2023  
 Reported: 02/03/2023  
 Project Name: TRISTY DRAW 25 CTB (TRISTY)  
 Project Number: NOT GIVEN  
 Project Location: CIMAREX - LEA COUNTY

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

**Sample ID: S - 11 0-.5' (H230414-41)**

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	02/02/2023	ND	2.00	99.9	2.00	1.45		
Toluene*	<0.050	0.050	02/02/2023	ND	2.12	106	2.00	1.38		
Ethylbenzene*	<0.050	0.050	02/02/2023	ND	2.09	104	2.00	1.13		
Total Xylenes*	<0.150	0.150	02/02/2023	ND	6.44	107	6.00	1.67		
Total BTEX	<0.300	0.300	02/02/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 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	96.0	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	01/31/2023	ND	190	94.9	200	0.466	
DRO >C10-C28*	<10.0	10.0	01/31/2023	ND	187	93.3	200	0.00428	
EXT DRO >C28-C36	<10.0	10.0	01/31/2023	ND					

Surrogate: 1-Chlorooctane 92.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

H & R ENTERPRISES  
 MICHAEL COLLIER  
 1010 GAMBLIN ROAD  
 HOBBS NM, 88240  
 Fax To: NONE

Received: 01/27/2023  
 Reported: 02/03/2023  
 Project Name: TRISTY DRAW 25 CTB (TRISTY)  
 Project Number: NOT GIVEN  
 Project Location: CIMAREX - LEA COUNTY

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

**Sample ID: S - 11 1' (H230414-42)**

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	02/02/2023	ND	2.00	99.9	2.00	1.45	
Toluene*	<0.050	0.050	02/02/2023	ND	2.12	106	2.00	1.38	
Ethylbenzene*	<0.050	0.050	02/02/2023	ND	2.09	104	2.00	1.13	
Total Xylenes*	<0.150	0.150	02/02/2023	ND	6.44	107	6.00	1.67	
Total BTEx	<0.300	0.300	02/02/2023	ND					

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

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	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	02/02/2023	ND	190	94.9	200	0.466	
DRO >C10-C28*	<10.0	10.0	02/02/2023	ND	187	93.3	200	0.00428	
EXT DRO >C28-C36	<10.0	10.0	02/02/2023	ND					

Surrogate: 1-Chlorooctane 73.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

H & R ENTERPRISES  
 MICHAEL COLLIER  
 1010 GAMBLIN ROAD  
 HOBBS NM, 88240  
 Fax To: NONE

Received: 01/27/2023  
 Reported: 02/03/2023  
 Project Name: TRISTY DRAW 25 CTB (TRISTY)  
 Project Number: NOT GIVEN  
 Project Location: CIMAREX - LEA COUNTY

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

**Sample ID: S - 11 2' (H230414-43)**

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	2.00	99.9	2.00	1.45	
Toluene*	<0.050	0.050	01/31/2023	ND	2.12	106	2.00	1.38	
Ethylbenzene*	<0.050	0.050	01/31/2023	ND	2.09	104	2.00	1.13	
Total Xylenes*	<0.150	0.150	01/31/2023	ND	6.44	107	6.00	1.67	
Total BTEx	<0.300	0.300	01/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

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	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	193	96.3	200	1.03	
DRO >C10-C28*	<10.0	10.0	01/30/2023	ND	200	100	200	1.74	
EXT DRO >C28-C36	<10.0	10.0	01/30/2023	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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.
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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]





### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: H&R Enterprises Project Manager: Michael Collier Address: City: State: Zip: Phone #: Fax #: Project #: Project Owner: Project Name: Tristis Draw 25 CTB (Tristis) Project Location: Lea County Sample Name: R. Bell				<b>BILL TO</b> P.O. #: Company: Cimarex Energy Attn: Laci Lulig Address: City: State: Zip: Phone #: Fax #:				<b>ANALYSIS REQUEST</b>			
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Observed Temp. °C Corrected Temp. °C		Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/>		CHECKED BY: (Initials)		Turnaround Time: Standard <input checked="" type="checkbox"/> Expedite (only) Sample Condition: <input type="checkbox"/>		Add'l Phone #:	
Relinquished By:		Date: 12-23 Time: 1435		Received By:		Virtual Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		All Results are emailed. Please provide Email address:		Add'l Phone #:	
Relinquished By:		Date: 12-23 Time: 1435		Received By:		REMARKS:		Turnaround Time: Expedite <input checked="" type="checkbox"/> Standard <input type="checkbox"/>		Add'l Phone #:	
Relinquished By:		Date: 12-23 Time: 1435		Received By:		REMARKS:		Turnaround Time: Expedite <input checked="" type="checkbox"/> Standard <input type="checkbox"/>		Add'l Phone #:	

Lab I.D.	FOR LAB USE ONLY	MATRIX	PRESERV.	SAMPLING	BTX	TPH	Chlorides
H230414	(G)RAB OR (C)OMP.	GROUNDWATER					
11	S-3 2'	WASTEWATER					
12	S-3 3' Hold	SOIL					
13	S-4 0-5'	OIL					
14	S-4 1'	SLUDGE					
15	S-4 2'	OTHER : ACID/BASE:					
16	S-4 3' Hold	ICE / COOL					
17	S-5 0-5'	OTHER :					
18	S-5 1'						
19	S-5 2'						
20	S-5 3' Hold						

LAB USE ONLY: Labile and volatile organic compounds (VOCs) and semi-volatile organic compounds (SVOCs) must be analyzed within 60 days of collection. All other compounds must be analyzed within 90 days of collection. All samples must be analyzed within 90 days of collection. All samples must be analyzed within 90 days of collection. All samples must be analyzed within 90 days of collection.



### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]





### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

<b>Company Name:</b> H&R Enterprises <b>Project Manager:</b> Michael Collier <b>Address:</b> <b>City:</b> <b>State:</b> <b>Zip:</b> <b>Phone #:</b> <b>Fax #:</b> <b>Project #:</b> <b>Project Owner:</b> <b>Project Name:</b> Tristy Draw 28 CTB (Tristy) <b>Project Location:</b> Lea County <b>Sampler Name:</b> R. Bell <b>Lab I.D.:</b>										<b>BILL TO</b> <b>P.O. #:</b> <b>Company:</b> Cimarex Energy <b>Attn:</b> Laci Lullig <b>Address:</b> <b>City:</b> <b>State:</b> <b>Zip:</b> <b>Phone #:</b> <b>Fax #:</b>										<b>ANALYSIS REQUEST</b>									
<b>Relinquished By:</b> <i>[Signature]</i> <b>Relinquished Date:</b> 12/23/2011 <b>Time:</b> 4:35 PM <b>Received By:</b> <i>[Signature]</i> <b>Received Date:</b> 12/23/2011 <b>Time:</b> 4:35 PM										<b>Verbal Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <b>Remarks:</b> pg 5 of 5 <b>Additional Phone #:</b>																			
<b>Delivered By:</b> (Circle One) Sample - UPS - Bus - Other:										<b>Observed Temp. °C:</b> 0.8 <b>Corrected Temp. °C:</b> 0.2 <b>Sample Condition:</b> Cool <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> <b>Checked By:</b> <i>[Signature]</i> <b>Thermometer ID:</b> #113 <b>Correction Factor:</b> 2.5°C <b>Thermometer Type:</b> <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Backup (only) Sample Condition <b>Observed Temp. °C:</b> <b>Corrected Temp. °C:</b>																			
<b>FOR LAB USE ONLY</b> <b>Lab I.D.:</b>										<b>FOR LAB USE ONLY</b> <b>Lab I.D.:</b>																			
<b>Matrix:</b> (G) RAB OR (C) COMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :										<b>Matrix:</b> (G) RAB OR (C) COMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :																			
<b>DATE</b> <b>TIME</b>										<b>DATE</b> <b>TIME</b>																			
<b>BTEX</b> <b>TPH</b> <b>Chlorides</b>										<b>BTEX</b> <b>TPH</b> <b>Chlorides</b>																			



Environment Testing

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# ANALYTICAL REPORT

## PREPARED FOR

Attn: Michael Collier  
H & R Enterprises  
5120 W Kansas St  
Hobbs, New Mexico 88242

Generated 3/6/2023 2:08:52 PM

## JOB DESCRIPTION

Triste Draw 25 CTB  
SDG NUMBER Lea County NM

## JOB NUMBER

890-4169-1

Eurofins Carlsbad  
1089 N Canal St.  
Carlsbad NM 88220



**Eurofins Carlsbad****Job Notes**

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

**Authorization**

Generated  
3/6/2023 2:08:52 PM

Authorized for release by  
Jessica Kramer, Project Manager  
[Jessica.Kramer@et.eurofinsus.com](mailto:Jessica.Kramer@et.eurofinsus.com)  
(432)704-5440

Client: H & R Enterprises  
Project/Site: Triste Draw 25 CTB

Laboratory Job ID: 890-4169-1  
SDG: Lea County NM

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## Definitions/Glossary

Client: H & R Enterprises  
Project/Site: Triste Draw 25 CTB

Job ID: 890-4169-1  
SDG: Lea County NM

## Qualifiers

## GC VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*1	LCS/LCSD RPD exceeds control limits.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

## GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

## HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

## Case Narrative

Client: H & R Enterprises  
Project/Site: Triste Draw 25 CTB

Job ID: 890-4169-1  
SDG: Lea County NM

**Job ID: 890-4169-1**

**Laboratory: Eurofins Carlsbad**

**Narrative**

**Job Narrative  
890-4169-1**

**Receipt**

The samples were received on 2/22/2023 9:31 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.4°C

**Receipt Exceptions**

The following samples were received and analyzed from an unpreserved bulk soil jar: S-1 (890-4169-1), S-2 (890-4169-2), S-3 (890-4169-3), S-4 (890-4169-4), SW-1 (890-4169-5), SW-2 (890-4169-6), SW-3 (890-4169-7) and SW-4 (890-4169-8).

**GC VOA**

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-47633 and analytical batch 880-47785 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8021B: Spike compounds were inadvertently omitted during the extraction process for the matrix spike/matrix spike duplicate (MS/MSD); therefore, matrix spike recoveries are unavailable for preparation batch 880-47633 and analytical batch 880-47785. The associated laboratory control sample (LCS) met acceptance criteria.

Method 8021B: The spiking solution was inadvertently omitted during the extraction process for the laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) associated with preparation batch 880-47633; therefore, percent recoveries are unavailable. Due to only needing an LCS or LCSD for qualification, the affected samples were not re-prepared and/or re-analyzed, and the results have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

**GC Semi VOA**

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

**HPLC/IC**

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

## Client Sample Results

Client: H & R Enterprises  
Project/Site: Triste Draw 25 CTB

Job ID: 890-4169-1  
SDG: Lea County NM

## Client Sample ID: S-1

Lab Sample ID: 890-4169-1

Date Collected: 02/22/23 08:00

Matrix: Solid

Date Received: 02/22/23 09:31

Sample Depth: 1'

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *- *1 F1	0.00200		mg/Kg		03/02/23 11:45	03/05/23 00:29	1
Toluene	<0.00200	U F1 *- *1	0.00200		mg/Kg		03/02/23 11:45	03/05/23 00:29	1
Ethylbenzene	<0.00200	U F1 *- *1	0.00200		mg/Kg		03/02/23 11:45	03/05/23 00:29	1
m-Xylene & p-Xylene	<0.00401	U *- *1 F1	0.00401		mg/Kg		03/02/23 11:45	03/05/23 00:29	1
o-Xylene	<0.00200	U *- F1 F2	0.00200		mg/Kg		03/02/23 11:45	03/05/23 00:29	1
Xylenes, Total	<0.00401	U *- F1	0.00401		mg/Kg		03/02/23 11:45	03/05/23 00:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	03/02/23 11:45	03/05/23 00:29	1
1,4-Difluorobenzene (Surr)	87		70 - 130	03/02/23 11:45	03/05/23 00:29	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			03/06/23 14:55	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/27/23 12:20	1

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/24/23 15:20	02/25/23 03:38	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/24/23 15:20	02/25/23 03:38	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/24/23 15:20	02/25/23 03:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130	02/24/23 15:20	02/25/23 03:38	1
o-Terphenyl	89		70 - 130	02/24/23 15:20	02/25/23 03:38	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	59.2		5.00		mg/Kg			02/27/23 23:51	1

## Client Sample ID: S-2

Lab Sample ID: 890-4169-2

Date Collected: 02/22/23 08:00

Matrix: Solid

Date Received: 02/22/23 09:31

Sample Depth: 1'

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U *- *1	0.00202		mg/Kg		03/02/23 11:45	03/05/23 00:55	1
Toluene	<0.00202	U *- *1	0.00202		mg/Kg		03/02/23 11:45	03/05/23 00:55	1
Ethylbenzene	<0.00202	U *- *1	0.00202		mg/Kg		03/02/23 11:45	03/05/23 00:55	1
m-Xylene & p-Xylene	<0.00403	U *- *1	0.00403		mg/Kg		03/02/23 11:45	03/05/23 00:55	1
o-Xylene	<0.00202	U *-	0.00202		mg/Kg		03/02/23 11:45	03/05/23 00:55	1
Xylenes, Total	<0.00403	U *-	0.00403		mg/Kg		03/02/23 11:45	03/05/23 00:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130	03/02/23 11:45	03/05/23 00:55	1

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## Client Sample Results

Client: H & R Enterprises  
Project/Site: Triste Draw 25 CTB

Job ID: 890-4169-1  
SDG: Lea County NM

## Client Sample ID: S-2

## Lab Sample ID: 890-4169-2

Date Collected: 02/22/23 08:00

Matrix: Solid

Date Received: 02/22/23 09:31

Sample Depth: 1'

## Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	90		70 - 130	03/02/23 11:45	03/05/23 00:55	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			03/06/23 14:55	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/27/23 12:20	1

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/24/23 15:20	02/25/23 04:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/24/23 15:20	02/25/23 04:00	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/24/23 15:20	02/25/23 04:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130				02/24/23 15:20	02/25/23 04:00	1
o-Terphenyl	91		70 - 130				02/24/23 15:20	02/25/23 04:00	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	49.1		4.99		mg/Kg			02/27/23 23:57	1

## Client Sample ID: S-3

## Lab Sample ID: 890-4169-3

Date Collected: 02/22/23 08:00

Matrix: Solid

Date Received: 02/22/23 09:31

Sample Depth: 1'

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *- *1	0.00199		mg/Kg		03/02/23 11:45	03/05/23 01:21	1
Toluene	<0.00199	U *- *1	0.00199		mg/Kg		03/02/23 11:45	03/05/23 01:21	1
Ethylbenzene	<0.00199	U *- *1	0.00199		mg/Kg		03/02/23 11:45	03/05/23 01:21	1
m-Xylene & p-Xylene	<0.00398	U *- *1	0.00398		mg/Kg		03/02/23 11:45	03/05/23 01:21	1
o-Xylene	<0.00199	U *-	0.00199		mg/Kg		03/02/23 11:45	03/05/23 01:21	1
Xylenes, Total	<0.00398	U *-	0.00398		mg/Kg		03/02/23 11:45	03/05/23 01:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	03/02/23 11:45	03/05/23 01:21	1
1,4-Difluorobenzene (Surr)	94		70 - 130	03/02/23 11:45	03/05/23 01:21	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/06/23 14:55	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/27/23 12:20	1

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## Client Sample Results

Client: H & R Enterprises  
Project/Site: Triste Draw 25 CTB

Job ID: 890-4169-1  
SDG: Lea County NM

## Client Sample ID: S-3

Lab Sample ID: 890-4169-3

Date Collected: 02/22/23 08:00

Matrix: Solid

Date Received: 02/22/23 09:31

Sample Depth: 1'

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/24/23 15:20	02/25/23 04:23	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/24/23 15:20	02/25/23 04:23	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/24/23 15:20	02/25/23 04:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130				02/24/23 15:20	02/25/23 04:23	1
o-Terphenyl	89		70 - 130				02/24/23 15:20	02/25/23 04:23	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	50.6		4.95		mg/Kg			02/28/23 00:15	1

## Client Sample ID: S-4

Lab Sample ID: 890-4169-4

Date Collected: 02/22/23 08:00

Matrix: Solid

Date Received: 02/22/23 09:31

Sample Depth: 1'

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *- *1	0.00199		mg/Kg		03/02/23 11:45	03/05/23 01:47	1
Toluene	<0.00199	U *- *1	0.00199		mg/Kg		03/02/23 11:45	03/05/23 01:47	1
Ethylbenzene	<0.00199	U *- *1	0.00199		mg/Kg		03/02/23 11:45	03/05/23 01:47	1
m-Xylene & p-Xylene	<0.00398	U *- *1	0.00398		mg/Kg		03/02/23 11:45	03/05/23 01:47	1
o-Xylene	<0.00199	U *-	0.00199		mg/Kg		03/02/23 11:45	03/05/23 01:47	1
Xylenes, Total	<0.00398	U *-	0.00398		mg/Kg		03/02/23 11:45	03/05/23 01:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				03/02/23 11:45	03/05/23 01:47	1
1,4-Difluorobenzene (Surr)	81		70 - 130				03/02/23 11:45	03/05/23 01:47	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/06/23 14:55	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/27/23 12:20	1

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/24/23 15:20	02/25/23 04:45	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/24/23 15:20	02/25/23 04:45	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/24/23 15:20	02/25/23 04:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130				02/24/23 15:20	02/25/23 04:45	1
o-Terphenyl	86		70 - 130				02/24/23 15:20	02/25/23 04:45	1

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## Client Sample Results

Client: H & R Enterprises  
Project/Site: Triste Draw 25 CTB

Job ID: 890-4169-1  
SDG: Lea County NM

## Client Sample ID: S-4

Lab Sample ID: 890-4169-4

Date Collected: 02/22/23 08:00

Matrix: Solid

Date Received: 02/22/23 09:31

Sample Depth: 1'

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	48.5		4.95		mg/Kg			02/28/23 00:21	1

## Client Sample ID: SW-1

Lab Sample ID: 890-4169-5

Date Collected: 02/22/23 08:00

Matrix: Solid

Date Received: 02/22/23 09:31

Sample Depth: 1'

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *- *1	0.00200		mg/Kg		03/02/23 11:45	03/05/23 02:14	1
Toluene	<0.00200	U *- *1	0.00200		mg/Kg		03/02/23 11:45	03/05/23 02:14	1
Ethylbenzene	<0.00200	U *- *1	0.00200		mg/Kg		03/02/23 11:45	03/05/23 02:14	1
m-Xylene & p-Xylene	<0.00399	U *- *1	0.00399		mg/Kg		03/02/23 11:45	03/05/23 02:14	1
o-Xylene	<0.00200	U *-	0.00200		mg/Kg		03/02/23 11:45	03/05/23 02:14	1
Xylenes, Total	<0.00399	U *-	0.00399		mg/Kg		03/02/23 11:45	03/05/23 02:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130				03/02/23 11:45	03/05/23 02:14	1
1,4-Difluorobenzene (Surr)	88		70 - 130				03/02/23 11:45	03/05/23 02:14	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			03/06/23 14:55	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/27/23 12:20	1

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/24/23 15:20	02/25/23 05:06	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/24/23 15:20	02/25/23 05:06	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/24/23 15:20	02/25/23 05:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130				02/24/23 15:20	02/25/23 05:06	1
o-Terphenyl	85		70 - 130				02/24/23 15:20	02/25/23 05:06	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	49.9		4.97		mg/Kg			02/28/23 00:28	1

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## Client Sample Results

Client: H & R Enterprises  
Project/Site: Triste Draw 25 CTB

Job ID: 890-4169-1  
SDG: Lea County NM

Client Sample ID: SW-2

Lab Sample ID: 890-4169-6

Date Collected: 02/22/23 08:00

Matrix: Solid

Date Received: 02/22/23 09:31

Sample Depth: 1'

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U *- *1	0.00201		mg/Kg		03/02/23 11:45	03/05/23 02:40	1
Toluene	<0.00201	U *- *1	0.00201		mg/Kg		03/02/23 11:45	03/05/23 02:40	1
Ethylbenzene	<0.00201	U *- *1	0.00201		mg/Kg		03/02/23 11:45	03/05/23 02:40	1
m-Xylene & p-Xylene	<0.00402	U *- *1	0.00402		mg/Kg		03/02/23 11:45	03/05/23 02:40	1
o-Xylene	<0.00201	U *-	0.00201		mg/Kg		03/02/23 11:45	03/05/23 02:40	1
Xylenes, Total	<0.00402	U *-	0.00402		mg/Kg		03/02/23 11:45	03/05/23 02:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	03/02/23 11:45	03/05/23 02:40	1
1,4-Difluorobenzene (Surr)	88		70 - 130	03/02/23 11:45	03/05/23 02:40	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			03/06/23 14:55	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/27/23 12:20	1

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/24/23 15:20	02/25/23 05:28	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/24/23 15:20	02/25/23 05:28	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/24/23 15:20	02/25/23 05:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130	02/24/23 15:20	02/25/23 05:28	1
o-Terphenyl	86		70 - 130	02/24/23 15:20	02/25/23 05:28	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	68.8		5.04		mg/Kg			02/28/23 00:34	1

Client Sample ID: SW-3

Lab Sample ID: 890-4169-7

Date Collected: 02/22/23 08:00

Matrix: Solid

Date Received: 02/22/23 09:31

Sample Depth: 1'

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *- *1	0.00199		mg/Kg		03/02/23 11:45	03/05/23 03:06	1
Toluene	<0.00199	U *- *1	0.00199		mg/Kg		03/02/23 11:45	03/05/23 03:06	1
Ethylbenzene	<0.00199	U *- *1	0.00199		mg/Kg		03/02/23 11:45	03/05/23 03:06	1
m-Xylene & p-Xylene	<0.00398	U *- *1	0.00398		mg/Kg		03/02/23 11:45	03/05/23 03:06	1
o-Xylene	<0.00199	U *-	0.00199		mg/Kg		03/02/23 11:45	03/05/23 03:06	1
Xylenes, Total	<0.00398	U *-	0.00398		mg/Kg		03/02/23 11:45	03/05/23 03:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130	03/02/23 11:45	03/05/23 03:06	1

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## Client Sample Results

Client: H & R Enterprises  
Project/Site: Triste Draw 25 CTB

Job ID: 890-4169-1  
SDG: Lea County NM

## Client Sample ID: SW-3

## Lab Sample ID: 890-4169-7

Date Collected: 02/22/23 08:00

Matrix: Solid

Date Received: 02/22/23 09:31

Sample Depth: 1'

## Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	102		70 - 130	03/02/23 11:45	03/05/23 03:06	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/06/23 14:55	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/27/23 12:20	1

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/24/23 15:20	02/25/23 05:49	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/24/23 15:20	02/25/23 05:49	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/24/23 15:20	02/25/23 05:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				02/24/23 15:20	02/25/23 05:49	1
o-Terphenyl	94		70 - 130				02/24/23 15:20	02/25/23 05:49	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	54.3		4.99		mg/Kg			02/28/23 00:40	1

## Client Sample ID: SW-4

## Lab Sample ID: 890-4169-8

Date Collected: 02/22/23 08:00

Matrix: Solid

Date Received: 02/22/23 09:31

Sample Depth: 1'

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *- *1	0.00199		mg/Kg		03/02/23 11:45	03/05/23 03:33	1
Toluene	<0.00199	U *- *1	0.00199		mg/Kg		03/02/23 11:45	03/05/23 03:33	1
Ethylbenzene	<0.00199	U *- *1	0.00199		mg/Kg		03/02/23 11:45	03/05/23 03:33	1
m-Xylene & p-Xylene	<0.00398	U *- *1	0.00398		mg/Kg		03/02/23 11:45	03/05/23 03:33	1
o-Xylene	<0.00199	U *-	0.00199		mg/Kg		03/02/23 11:45	03/05/23 03:33	1
Xylenes, Total	<0.00398	U *-	0.00398		mg/Kg		03/02/23 11:45	03/05/23 03:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	03/02/23 11:45	03/05/23 03:33	1
1,4-Difluorobenzene (Surr)	98		70 - 130	03/02/23 11:45	03/05/23 03:33	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/06/23 14:55	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/27/23 12:20	1

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## Client Sample Results

Client: H & R Enterprises  
Project/Site: Triste Draw 25 CTB

Job ID: 890-4169-1  
SDG: Lea County NM

Client Sample ID: SW-4

Lab Sample ID: 890-4169-8

Date Collected: 02/22/23 08:00

Matrix: Solid

Date Received: 02/22/23 09:31

Sample Depth: 1'

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/24/23 15:20	02/25/23 06:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/24/23 15:20	02/25/23 06:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/24/23 15:20	02/25/23 06:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130				02/24/23 15:20	02/25/23 06:10	1
o-Terphenyl	85		70 - 130				02/24/23 15:20	02/25/23 06:10	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	53.6		4.96		mg/Kg			02/28/23 00:46	1

## Surrogate Summary

Client: H & R Enterprises  
Project/Site: Triste Draw 25 CTB

Job ID: 890-4169-1  
SDG: Lea County NM

## Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
890-4169-1	S-1	106	87
890-4169-1 MS	S-1	109	101
890-4169-1 MSD	S-1	17145	21742
		S1+	S1+
890-4169-2	S-2	129	90
890-4169-3	S-3	121	94
890-4169-4	S-4	108	81
890-4169-5	SW-1	128	88
890-4169-6	SW-2	116	88
890-4169-7	SW-3	131 S1+	102
890-4169-8	SW-4	119	98
LCS 880-47633/1-A	Lab Control Sample	119	94
LCSD 880-47633/2-A	Lab Control Sample Dup	119	96
MB 880-47632/5-A	Method Blank	67 S1-	85
MB 880-47633/5-A	Method Blank	71	82
<b>Surrogate Legend</b>			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-130)	OTPH1 (70-130)
890-4169-1	S-1	86	89
890-4169-2	S-2	88	91
890-4169-3	S-3	88	89
890-4169-4	S-4	84	86
890-4169-5	SW-1	82	85
890-4169-6	SW-2	83	86
890-4169-7	SW-3	99	94
890-4169-8	SW-4	82	85
LCS 880-47206/2-A	Lab Control Sample	111	103
LCSD 880-47206/3-A	Lab Control Sample Dup	113	104
MB 880-47206/1-A	Method Blank	118	121
<b>Surrogate Legend</b>			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

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## QC Sample Results

Client: H & R Enterprises  
Project/Site: Triste Draw 25 CTB

Job ID: 890-4169-1  
SDG: Lea County NM

## Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-47632/5-A

Matrix: Solid

Analysis Batch: 47785

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 47632

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/02/23 11:31	03/04/23 10:38	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/02/23 11:31	03/04/23 10:38	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/02/23 11:31	03/04/23 10:38	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/02/23 11:31	03/04/23 10:38	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/02/23 11:31	03/04/23 10:38	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/02/23 11:31	03/04/23 10:38	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	67	S1-	70 - 130	03/02/23 11:31	03/04/23 10:38	1
1,4-Difluorobenzene (Surr)	85		70 - 130	03/02/23 11:31	03/04/23 10:38	1

Lab Sample ID: MB 880-47633/5-A

Matrix: Solid

Analysis Batch: 47785

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 47633

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/02/23 11:45	03/05/23 00:03	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/02/23 11:45	03/05/23 00:03	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/02/23 11:45	03/05/23 00:03	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/02/23 11:45	03/05/23 00:03	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/02/23 11:45	03/05/23 00:03	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/02/23 11:45	03/05/23 00:03	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	71		70 - 130	03/02/23 11:45	03/05/23 00:03	1
1,4-Difluorobenzene (Surr)	82		70 - 130	03/02/23 11:45	03/05/23 00:03	1

Lab Sample ID: LCS 880-47633/1-A

Matrix: Solid

Analysis Batch: 47785

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 47633

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09295		mg/Kg		93	70 - 130
Toluene	0.100	0.08689		mg/Kg		87	70 - 130
Ethylbenzene	0.100	0.09172		mg/Kg		92	70 - 130
m-Xylene & p-Xylene	0.200	0.1968		mg/Kg		98	70 - 130
o-Xylene	0.100	0.09291		mg/Kg		93	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	119		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: LCSD 880-47633/2-A

Matrix: Solid

Analysis Batch: 47785

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 47633

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.05116	*- *1	mg/Kg		51	70 - 130	58	35

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## QC Sample Results

Client: H & R Enterprises  
Project/Site: Triste Draw 25 CTB

Job ID: 890-4169-1  
SDG: Lea County NM

## Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-47633/2-A

Matrix: Solid

Analysis Batch: 47785

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 47633

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.03518	*- *1	mg/Kg		35	70 - 130	85	35
Ethylbenzene	0.100	0.009089	*- *1	mg/Kg		9	70 - 130	164	35
m-Xylene & p-Xylene	0.200	0.1357	*- *1	mg/Kg		68	70 - 130	37	35
o-Xylene	0.100	0.06679	*-	mg/Kg		67	70 - 130	33	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	119		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: 890-4169-1 MS

Matrix: Solid

Analysis Batch: 47785

Client Sample ID: S-1

Prep Type: Total/NA

Prep Batch: 47633

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U *- *1 F1	0.100	0.07714		mg/Kg		77	70 - 130
Toluene	<0.00200	U F1 *- *1	0.100	0.04719	F1	mg/Kg		47	70 - 130
Ethylbenzene	<0.00200	U F1 *- *1	0.100	0.01702	F1	mg/Kg		17	70 - 130
m-Xylene & p-Xylene	<0.00401	U *- *1 F1	0.200	0.1643		mg/Kg		82	70 - 130
o-Xylene	<0.00200	U *- F1 F2	0.100	0.08334		mg/Kg		83	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 890-4169-1 MSD

Matrix: Solid

Analysis Batch: 47785

Client Sample ID: S-1

Prep Type: Total/NA

Prep Batch: 47633

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U *- *1 F1	0.0990	<0.00198	U F1	mg/Kg		0	70 - 130	NC	35
Toluene	<0.00200	U F1 *- *1	0.0990	<0.00198	U F1	mg/Kg		0	70 - 130	NC	35
Ethylbenzene	<0.00200	U F1 *- *1	0.0990	<0.00198	U F1	mg/Kg		0	70 - 130	NC	35
m-Xylene & p-Xylene	<0.00401	U *- *1 F1	0.198	<0.00396	U F1	mg/Kg		0	70 - 130	NC	35
o-Xylene	<0.00200	U *- F1 F2	0.0990	<0.00198	U F1 F2	mg/Kg		2	70 - 130	191	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	17145	S1+	70 - 130
1,4-Difluorobenzene (Surr)	21742	S1+	70 - 130

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-47206/1-A

Matrix: Solid

Analysis Batch: 47130

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 47206

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/24/23 15:20	02/24/23 21:07	1

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## QC Sample Results

Client: H & R Enterprises  
Project/Site: Triste Draw 25 CTB

Job ID: 890-4169-1  
SDG: Lea County NM

## Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-47206/1-A

Matrix: Solid

Analysis Batch: 47130

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 47206

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/24/23 15:20	02/24/23 21:07	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/24/23 15:20	02/24/23 21:07	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130				02/24/23 15:20	02/24/23 21:07	1
o-Terphenyl	121		70 - 130				02/24/23 15:20	02/24/23 21:07	1

Lab Sample ID: LCS 880-47206/2-A

Matrix: Solid

Analysis Batch: 47130

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 47206

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	885.5		mg/Kg		89	70 - 130
Diesel Range Organics (Over C10-C28)	1000	947.5		mg/Kg		95	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	111		70 - 130				
o-Terphenyl	103		70 - 130				

Lab Sample ID: LCSD 880-47206/3-A

Matrix: Solid

Analysis Batch: 47130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 47206

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	949.5		mg/Kg		95	70 - 130	7	20
Diesel Range Organics (Over C10-C28)	1000	955.5		mg/Kg		96	70 - 130	1	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	113		70 - 130						
o-Terphenyl	104		70 - 130						

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-47154/1-A

Matrix: Solid

Analysis Batch: 47417

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			02/27/23 21:47	1

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QC Sample Results

Client: H & R Enterprises  
Project/Site: Triste Draw 25 CTB

Job ID: 890-4169-1  
SDG: Lea County NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-47154/2-A					Client Sample ID: Lab Control Sample				
Matrix: Solid					Prep Type: Soluble				
Analysis Batch: 47417									
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	250	243.6		mg/Kg		97	90 - 110		

Lab Sample ID: LCSD 880-47154/3-A					Client Sample ID: Lab Control Sample Dup				
Matrix: Solid					Prep Type: Soluble				
Analysis Batch: 47417									
Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	241.2		mg/Kg		96	90 - 110	1	20

## QC Association Summary

Client: H & R Enterprises  
Project/Site: Triste Draw 25 CTB

Job ID: 890-4169-1  
SDG: Lea County NM

## GC VOA

## Prep Batch: 47632

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-47632/5-A	Method Blank	Total/NA	Solid	5035	

## Prep Batch: 47633

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4169-1	S-1	Total/NA	Solid	5035	
890-4169-2	S-2	Total/NA	Solid	5035	
890-4169-3	S-3	Total/NA	Solid	5035	
890-4169-4	S-4	Total/NA	Solid	5035	
890-4169-5	SW-1	Total/NA	Solid	5035	
890-4169-6	SW-2	Total/NA	Solid	5035	
890-4169-7	SW-3	Total/NA	Solid	5035	
890-4169-8	SW-4	Total/NA	Solid	5035	
MB 880-47633/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-47633/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-47633/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4169-1 MS	S-1	Total/NA	Solid	5035	
890-4169-1 MSD	S-1	Total/NA	Solid	5035	

## Analysis Batch: 47785

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4169-1	S-1	Total/NA	Solid	8021B	47633
890-4169-2	S-2	Total/NA	Solid	8021B	47633
890-4169-3	S-3	Total/NA	Solid	8021B	47633
890-4169-4	S-4	Total/NA	Solid	8021B	47633
890-4169-5	SW-1	Total/NA	Solid	8021B	47633
890-4169-6	SW-2	Total/NA	Solid	8021B	47633
890-4169-7	SW-3	Total/NA	Solid	8021B	47633
890-4169-8	SW-4	Total/NA	Solid	8021B	47633
MB 880-47632/5-A	Method Blank	Total/NA	Solid	8021B	47632
MB 880-47633/5-A	Method Blank	Total/NA	Solid	8021B	47633
LCS 880-47633/1-A	Lab Control Sample	Total/NA	Solid	8021B	47633
LCSD 880-47633/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	47633
890-4169-1 MS	S-1	Total/NA	Solid	8021B	47633
890-4169-1 MSD	S-1	Total/NA	Solid	8021B	47633

## Analysis Batch: 47955

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4169-1	S-1	Total/NA	Solid	Total BTEX	
890-4169-2	S-2	Total/NA	Solid	Total BTEX	
890-4169-3	S-3	Total/NA	Solid	Total BTEX	
890-4169-4	S-4	Total/NA	Solid	Total BTEX	
890-4169-5	SW-1	Total/NA	Solid	Total BTEX	
890-4169-6	SW-2	Total/NA	Solid	Total BTEX	
890-4169-7	SW-3	Total/NA	Solid	Total BTEX	
890-4169-8	SW-4	Total/NA	Solid	Total BTEX	

## GC Semi VOA

## Analysis Batch: 47130

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4169-1	S-1	Total/NA	Solid	8015B NM	47206

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## QC Association Summary

Client: H & R Enterprises  
Project/Site: Triste Draw 25 CTB

Job ID: 890-4169-1  
SDG: Lea County NM

## GC Semi VOA (Continued)

## Analysis Batch: 47130 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4169-2	S-2	Total/NA	Solid	8015B NM	47206
890-4169-3	S-3	Total/NA	Solid	8015B NM	47206
890-4169-4	S-4	Total/NA	Solid	8015B NM	47206
890-4169-5	SW-1	Total/NA	Solid	8015B NM	47206
890-4169-6	SW-2	Total/NA	Solid	8015B NM	47206
890-4169-7	SW-3	Total/NA	Solid	8015B NM	47206
890-4169-8	SW-4	Total/NA	Solid	8015B NM	47206
MB 880-47206/1-A	Method Blank	Total/NA	Solid	8015B NM	47206
LCS 880-47206/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	47206
LCSD 880-47206/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	47206

## Prep Batch: 47206

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4169-1	S-1	Total/NA	Solid	8015NM Prep	
890-4169-2	S-2	Total/NA	Solid	8015NM Prep	
890-4169-3	S-3	Total/NA	Solid	8015NM Prep	
890-4169-4	S-4	Total/NA	Solid	8015NM Prep	
890-4169-5	SW-1	Total/NA	Solid	8015NM Prep	
890-4169-6	SW-2	Total/NA	Solid	8015NM Prep	
890-4169-7	SW-3	Total/NA	Solid	8015NM Prep	
890-4169-8	SW-4	Total/NA	Solid	8015NM Prep	
MB 880-47206/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-47206/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-47206/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

## Analysis Batch: 47322

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4169-1	S-1	Total/NA	Solid	8015 NM	
890-4169-2	S-2	Total/NA	Solid	8015 NM	
890-4169-3	S-3	Total/NA	Solid	8015 NM	
890-4169-4	S-4	Total/NA	Solid	8015 NM	
890-4169-5	SW-1	Total/NA	Solid	8015 NM	
890-4169-6	SW-2	Total/NA	Solid	8015 NM	
890-4169-7	SW-3	Total/NA	Solid	8015 NM	
890-4169-8	SW-4	Total/NA	Solid	8015 NM	

## HPLC/IC

## Leach Batch: 47154

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4169-1	S-1	Soluble	Solid	DI Leach	
890-4169-2	S-2	Soluble	Solid	DI Leach	
890-4169-3	S-3	Soluble	Solid	DI Leach	
890-4169-4	S-4	Soluble	Solid	DI Leach	
890-4169-5	SW-1	Soluble	Solid	DI Leach	
890-4169-6	SW-2	Soluble	Solid	DI Leach	
890-4169-7	SW-3	Soluble	Solid	DI Leach	
890-4169-8	SW-4	Soluble	Solid	DI Leach	
MB 880-47154/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-47154/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-47154/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Eurofins Carlsbad

## QC Association Summary

Client: H & R Enterprises  
Project/Site: Triste Draw 25 CTB

Job ID: 890-4169-1  
SDG: Lea County NM

## HPLC/IC

## Analysis Batch: 47417

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4169-1	S-1	Soluble	Solid	300.0	47154
890-4169-2	S-2	Soluble	Solid	300.0	47154
890-4169-3	S-3	Soluble	Solid	300.0	47154
890-4169-4	S-4	Soluble	Solid	300.0	47154
890-4169-5	SW-1	Soluble	Solid	300.0	47154
890-4169-6	SW-2	Soluble	Solid	300.0	47154
890-4169-7	SW-3	Soluble	Solid	300.0	47154
890-4169-8	SW-4	Soluble	Solid	300.0	47154
MB 880-47154/1-A	Method Blank	Soluble	Solid	300.0	47154
LCS 880-47154/2-A	Lab Control Sample	Soluble	Solid	300.0	47154
LCSD 880-47154/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	47154

## Lab Chronicle

Client: H & R Enterprises  
Project/Site: Triste Draw 25 CTB

Job ID: 890-4169-1  
SDG: Lea County NM

## Client Sample ID: S-1

## Lab Sample ID: 890-4169-1

Date Collected: 02/22/23 08:00

Matrix: Solid

Date Received: 02/22/23 09:31

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	47633	03/02/23 11:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47785	03/05/23 00:29	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			47955	03/06/23 14:55	AJ	EET MID
Total/NA	Analysis	8015 NM		1			47322	02/27/23 12:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	47206	02/24/23 15:20	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47130	02/25/23 03:38	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	47154	02/24/23 10:36	KS	EET MID
Soluble	Analysis	300.0		1			47417	02/27/23 23:51	CH	EET MID

## Client Sample ID: S-2

## Lab Sample ID: 890-4169-2

Date Collected: 02/22/23 08:00

Matrix: Solid

Date Received: 02/22/23 09:31

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	47633	03/02/23 11:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47785	03/05/23 00:55	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			47955	03/06/23 14:55	AJ	EET MID
Total/NA	Analysis	8015 NM		1			47322	02/27/23 12:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	47206	02/24/23 15:20	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47130	02/25/23 04:00	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	47154	02/24/23 10:36	KS	EET MID
Soluble	Analysis	300.0		1			47417	02/27/23 23:57	CH	EET MID

## Client Sample ID: S-3

## Lab Sample ID: 890-4169-3

Date Collected: 02/22/23 08:00

Matrix: Solid

Date Received: 02/22/23 09:31

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	47633	03/02/23 11:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47785	03/05/23 01:21	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			47955	03/06/23 14:55	AJ	EET MID
Total/NA	Analysis	8015 NM		1			47322	02/27/23 12:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	47206	02/24/23 15:20	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47130	02/25/23 04:23	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	47154	02/24/23 10:36	KS	EET MID
Soluble	Analysis	300.0		1			47417	02/28/23 00:15	CH	EET MID

## Client Sample ID: S-4

## Lab Sample ID: 890-4169-4

Date Collected: 02/22/23 08:00

Matrix: Solid

Date Received: 02/22/23 09:31

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	47633	03/02/23 11:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47785	03/05/23 01:47	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			47955	03/06/23 14:55	AJ	EET MID

Eurofins Carlsbad



## Lab Chronicle

Client: H & R Enterprises  
Project/Site: Triste Draw 25 CTB

Job ID: 890-4169-1  
SDG: Lea County NM

## Client Sample ID: S-4

## Lab Sample ID: 890-4169-4

Date Collected: 02/22/23 08:00

Matrix: Solid

Date Received: 02/22/23 09:31

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			47322	02/27/23 12:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	47206	02/24/23 15:20	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47130	02/25/23 04:45	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	47154	02/24/23 10:36	KS	EET MID
Soluble	Analysis	300.0		1			47417	02/28/23 00:21	CH	EET MID

## Client Sample ID: SW-1

## Lab Sample ID: 890-4169-5

Date Collected: 02/22/23 08:00

Matrix: Solid

Date Received: 02/22/23 09:31

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	47633	03/02/23 11:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47785	03/05/23 02:14	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			47955	03/06/23 14:55	AJ	EET MID
Total/NA	Analysis	8015 NM		1			47322	02/27/23 12:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	47206	02/24/23 15:20	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47130	02/25/23 05:06	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	47154	02/24/23 10:36	KS	EET MID
Soluble	Analysis	300.0		1			47417	02/28/23 00:28	CH	EET MID

## Client Sample ID: SW-2

## Lab Sample ID: 890-4169-6

Date Collected: 02/22/23 08:00

Matrix: Solid

Date Received: 02/22/23 09:31

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	47633	03/02/23 11:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47785	03/05/23 02:40	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			47955	03/06/23 14:55	AJ	EET MID
Total/NA	Analysis	8015 NM		1			47322	02/27/23 12:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	47206	02/24/23 15:20	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47130	02/25/23 05:28	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	47154	02/24/23 10:36	KS	EET MID
Soluble	Analysis	300.0		1			47417	02/28/23 00:34	CH	EET MID

## Client Sample ID: SW-3

## Lab Sample ID: 890-4169-7

Date Collected: 02/22/23 08:00

Matrix: Solid

Date Received: 02/22/23 09:31

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	47633	03/02/23 11:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47785	03/05/23 03:06	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			47955	03/06/23 14:55	AJ	EET MID
Total/NA	Analysis	8015 NM		1			47322	02/27/23 12:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	47206	02/24/23 15:20	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47130	02/25/23 05:49	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: H & R Enterprises  
Project/Site: Triste Draw 25 CTB

Job ID: 890-4169-1  
SDG: Lea County NM

Client Sample ID: SW-3  
Date Collected: 02/22/23 08:00  
Date Received: 02/22/23 09:31

Lab Sample ID: 890-4169-7  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	47154	02/24/23 10:36	KS	EET MID
Soluble	Analysis	300.0		1			47417	02/28/23 00:40	CH	EET MID

Client Sample ID: SW-4  
Date Collected: 02/22/23 08:00  
Date Received: 02/22/23 09:31

Lab Sample ID: 890-4169-8  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	47633	03/02/23 11:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47785	03/05/23 03:33	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			47955	03/06/23 14:55	AJ	EET MID
Total/NA	Analysis	8015 NM		1			47322	02/27/23 12:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	47206	02/24/23 15:20	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47130	02/25/23 06:10	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	47154	02/24/23 10:36	KS	EET MID
Soluble	Analysis	300.0		1			47417	02/28/23 00:46	CH	EET MID

Laboratory References:  
EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: H & R Enterprises  
Project/Site: Triste Draw 25 CTB

Job ID: 890-4169-1  
SDG: Lea County NM

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

## Method Summary

Client: H & R Enterprises  
Project/Site: Triste Draw 25 CTB

Job ID: 890-4169-1  
SDG: Lea County NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

**Protocol References:**

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

**Laboratory References:**

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

## Sample Summary

Client: H & R Enterprises  
Project/Site: Triste Draw 25 CTB

Job ID: 890-4169-1  
SDG: Lea County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4169-1	S-1	Solid	02/22/23 08:00	02/22/23 09:31	1'
890-4169-2	S-2	Solid	02/22/23 08:00	02/22/23 09:31	1'
890-4169-3	S-3	Solid	02/22/23 08:00	02/22/23 09:31	1'
890-4169-4	S-4	Solid	02/22/23 08:00	02/22/23 09:31	1'
890-4169-5	SW-1	Solid	02/22/23 08:00	02/22/23 09:31	1'
890-4169-6	SW-2	Solid	02/22/23 08:00	02/22/23 09:31	1'
890-4169-7	SW-3	Solid	02/22/23 08:00	02/22/23 09:31	1'
890-4169-8	SW-4	Solid	02/22/23 08:00	02/22/23 09:31	1'





- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

## Eurofine Carlebad

1089 N Canal St  
Carlsbad, NM 88220  
Phone 575-988-3199 Fax 575-988-3199

## Chain of Custody Record



## Environmental Health

Client Information (Sub Contract Lab)						Sampler	Lab PM	Carter Tracking No(s)	COC No:	
Shipping/Receiving						Phone	Kramer Jessica		890-1144 1	
Eurofins Environment Testing South Cent'r						E-Mail	Jessica.Kramer@et.eurofins.com	State of Origin: New Mexico	Page: Page 1 of 1	
Address: 1211 W Florida Ave City: Midland State, Zip TX 79701 Phone: 432-704-5440(Tel) Email:						Due Date Requested 2/28/2023 TAT Requested (days)	Accreditations Required (See note). NELAP - Texas		Job #: 890-4169-1	
Project Name: Triste Draw 25 CTB Site						Project #: 89000108 SSOW#				Preservation Codes: A HCL B NaOH C Zn Acetate D Nitric Acid E NaHSO4 F MeOH G Amchlor H Ascorbic Acid I Ice J DI Water K EDTA L EDA Other:  M Hexane N None O AsNaO2 P Na2OAS Q Na2SO3 R Na2S2O3 S H2SO4 T TSP Decalcifyrate U Acetone V MCAA W pH 4-5 Y Trizma Z other (specify)
Sample Identification - Client ID (Lab ID)						Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)			Total Number of containers
S-1 (890-4169-1)	2/22/23	Mountain	08 00	Solid	X	X	X	X	X	1
S-2 (890-4169-2)	2/22/23	Mountain	08 00	Solid	X	X	X	X	X	1
S-3 (890-4169-3)	2/22/23	Mountain	08 00	Solid	X	X	X	X	X	1
S-4 (890-4169-4)	2/22/23	Mountain	08 00	Solid	X	X	X	X	X	1
SW-1 (890-4169-5)	2/22/23	Mountain	08 00	Solid	X	X	X	X	X	1
SW-2 (890-4169-6)	2/22/23	Mountain	08 00	Solid	X	X	X	X	X	1
SW-3 (890-4169-7)	2/22/23	Mountain	08 00	Solid	X	X	X	X	X	1
SW-4 (890-4169-8)	2/22/23	Mountain	08 00	Solid	X	X	X	X	X	1

Note: Since laboratory accreditations are subject to change Eurofins Environment Testing South Central, LLC places the ownership of method analyze & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/matrix being analyzed the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC

Possible Hazard Identification

Unconfirmed

Deliverable Requested | II III IV Other (specify) Primary Deliverable Rank 2

Empty Kit Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ Method of Shipment: \_\_\_\_\_

Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_ Received by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_

Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_ Received by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_

Custody Seals Intact: A Yes Δ No Custody Seal No \_\_\_\_\_ Cooler Temperature(s) °C and Other Remarks \_\_\_\_\_

Special Instructions/Note: \_\_\_\_\_

Special Instructions/QC Requirements

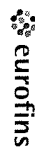
Return To Client Disposal By Lab Archive For \_\_\_\_\_ Months

Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)

Eurofins Carlsbad

1089 N Canal St  
Carlsbad NM 88220  
Phone 575-988-3199 Fax 575-988-3199

## Chain of Custody Record



## Environment Testing

Client Information (Sub Contract Lab)								
Company Eurofins Environment Testing South Cent						Sampler Lab PM Kramer Jessica	COC No 890-1144 2	
Address 1211 W Florida Ave City Midland State Zip TX 79701 Phone: 432-704-5440(Tel) Email: WO # Project Name Remuda 4 24 30 CTB Site SSOV#:						Phone E-Mail Jessica Kramer@et.eurofinsus.com Accreditations Required (See note): NELAP - Texas	Carrier Tracking No(s) New Mexico	
Due Date Requested 2/27/2023						TAT Requested (days):	Page: Page 2 of 2	
Analysis Requested								
						Total Number of containers	Job #: 890-4167-1	
Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No)						Preservation Codes	A HCL B NaOH C Zn Acetate D Nitric Acid E NaHSO4 F MeOH G Amchlor H Ascorbic Acid I Ice J DI Water K EDTA L EDA M Hexane N None O AshNaO2 P Na2OAS Q Na2SC3 R Na2S2O3 S H2SO4 T TSP Decacrylate U Acalone V MCAA W pH 4.5 Y Trizma Z other (specify)	
Sample Identification - Client ID (Lab ID)							Special Instructions/Note.	
FS10 (890-4167-10)	2/21/23	11 10 Mountain	Solid	X	X	X	X	1
SW01 (890-4167-11)	2/21/23	11 13 Mountain	Solid	X	X	X	X	1
SW02 (890-4167-12)	2/21/23	11 20 Mountain	Solid	X	X	X	X	1
SW03 (890-4167-13)	2/21/23	11 25 Mountain	Solid	X	X	X	X	1
SW04 (890-4167-14)	2/21/23	11 30 Mountain	Solid	X	X	X	X	1
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/testsmatrix being analyzed the samples must be shipped back to the Eurofins Environment Testing South Central LLC laboratory or other institutions will be provided Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately If all requested accreditations are current to date return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central LLC.								
Possible Hazard Identification								
Unconfirmed Deliverable Requested I II III IV Other (Specify) Primary Deliverable Rank: 2								
Empty Kit Relinquished by: _____ Date: _____ Time: _____ Method of Shipment: _____								
Relinquished by: _____ Date/Time: _____ Company: _____ Received By: _____ Date/Time: _____ Company: _____								
Custody Seals Intact: _____ Custody Seal No _____ Cooler Temperature(s) °C and Other Remarks _____								
Δ Yes Δ No								

## Login Sample Receipt Checklist

Client: H &amp; R Enterprises

Job Number: 890-4169-1

SDG Number: Lea County NM

Login Number: 4169

List Number: 1

Creator: Stutzman, Amanda

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



## Login Sample Receipt Checklist

Client: H &amp; R Enterprises

Job Number: 890-4169-1

SDG Number: Lea County NM

Login Number: 4169

List Number: 2

Creator: Teel, Brianna

List Source: Eurofins Midland

List Creation: 02/23/23 11:07 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

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

CONDITIONS

Action 201173

CONDITIONS

Operator: CIMAREX ENERGY CO. 600 N. Marienfeld Street Midland, TX 79701	OGRID: 215099
	Action Number: 201173
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved. Please note release was not entirely addressed. S-5 contained a TEX concentration of 148 mg/kg. Please address this location during P&A activities.	5/1/2023