

MCollier@H-R Enterprises.com 575-909-0326

## **Remediation and Closure Report**

Vaca Draw 20-17 Federal #012H Incident# nAPP2135426735 Lea County, New Mexico

## **Prepared For:**

Cimarex Energy Co. 6001 Deauville Blvd. Suite 300N Midland, TX 79706

## **Prepared By:**

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

June 2, 2023

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

Subject: **Remediation and Closure Report** 

Vaca Draw 20-17 Federal #012H

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 Vaca Draw 20-17 Federal #012H is located approximately 40.9 miles West of Jal, New Mexico. The legal location for this release is Unit Letter N, Section 20, Township 25 South and Range 33 East in Lea County, New Mexico. More specifically the latitude and longitude for the release are 32.109742 North and -103.596228 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 Berino-Cacique association, 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 web site indicates that the nearest reported depth to groundwater is 280-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.

#### **Approximate Depth to Groundwater** 280 Feet/BGS ⊠No Yes Within 300 feet of any continuously flowing watercourse or any other significant watercourse No Yes Within 200 feet of any lakebed, sinkhole, or a playa lake ⊠No Yes Within 300 feet from an occupied permanent residence, school, hospital, institution, or church ⊠No Within 500 feet of a spring or a private, domestic fresh water well Yes used by less than five households for domestic or stock watering purposes ⊠No Yes Within 1000 feet of any freshwater well or spring Yes ⊠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 Yes No Within 300 feet of a wetland No Yes Within the area overlying a subsurface mine Yes No Within an unstable area Yes $\boxtimes$ No Within a 100-year floodplain

Due to groundwater data not being within the recommended 0.5-mile distance, an exploratory groundwater bore was drilled on the same well pad as this release to a depth of 55-feet BGS. See Soil Bore Log in Appendix II. No groundwater was encountered on the date of drilling nor 5-days after, so the closure criteria for this site are as follows:

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

#### **Incident Description**

On December 17, 2021, a frac crew was unhooking an 8-inch line from a boost pump to repair a seal on the Victaulic component, it was noticed that the upstream valve was not holding and the line could not be stabbed back onto the manifold where it had been disconnected. This caused 16 barrels (bbls) of produced water to be released into the containment, 6 bbls of which spilled onto the ground. A vacuum pod recovered all fluids inside the containment as well as the 5 bbls released onto the ground. 1 bbl of fluid was unrecoverable.

#### **Site Assessment and Remediation Activities**

H&R mobilized personnel to begin site assessment, sampling, and remediation activities of the release area. Grab samples were obtained by way of drilling bore holes within and outside of the release area to fully delineate the release. Assessment samples collected were transported to Cardinal Laboratory for analysis and the results of that analysis are presented in Table 1 below. Initial site assessment sampling locations are illustrated on Site Assessment Map, Appendix I. Photographic documentation of the remediation is attached in Appendix IV. Complete laboratory reports can be found in Appendix V.

Table 1: Initial Soil Samples Analysis

Sample ID	Sample Date	Depth	BTEX	Benzene	GRO	DRO	MRO	Total TPH	Cl
Sample 1D	Sample Date	(BGS)	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
NMOCD Tabl	le 1 Closure Crit	teria 19.15.29	50 mg/kg	10 mg/kg	1000 ו	mg/kg	2500 mg/kg	2500 mg/kg	10,000 mg/kg
	0-1'	ND	ND	ND	ND	ND	0	352	
		2'	ND	ND	ND	ND	ND	0	352
BH-1	9/21/2022	3'	ND	ND	ND	ND	ND	0	176
		4'	ND	ND	ND	ND	ND	0	112
		0-1'	ND	ND	ND	ND	ND	0	224
	0/04/0000	2'	ND	ND	ND	ND	ND	0	288
BH-2	9/21/2022	3'	ND	ND	ND	ND	ND	0	128
		4'	ND	ND	ND	ND	ND	0	48
		0-1'	ND	ND	ND	ND	ND	0	352
DI 2	0/24/2022	2'	ND	ND	ND	ND	ND	0	208
BH-3	9/21/2022	3'	ND	ND	ND	ND	ND	0	128
		4'	ND	ND	ND	ND	ND	0	32
		0-1'	ND	ND	ND	ND	ND	0	2340
<b>BH-4</b> 9/21/	9/21/2022	2'	ND	ND	ND	ND	ND	0	3720
		3'	ND	ND	ND	ND	ND	0	4000
		0-1'	ND	ND	ND	ND	ND	0	10600
		2'	ND	ND	ND	33.3	ND	33.3	4720
		3'	ND	ND	ND	21.9	ND	21.9	2800
BH-5	9/21/2022	4'	ND	ND	ND	ND	ND	0	1540
		6'	ND	ND	ND	18.8	ND	18.8	640
		8'	ND	ND	ND	14.2	ND	14.2	176
		10'	ND	ND	ND	15.7	ND	15.7	144
		0-1'	ND	ND	ND	772	295	1067	36000
		2'	ND	ND	ND	ND	ND	0	560
		3'	ND	ND	ND	ND	ND	0	208
BH-6	9/21/2022	4'	ND	ND	ND	ND	ND	0	80
		6'	ND	ND	ND	ND	ND	0	64
		8'	ND	ND	ND	ND	ND	0	48
		10'	ND	ND	ND	ND	ND	0	32
		0-1'	ND	ND	ND	ND	ND	0	32
BH-7	5/25/2023	2'	ND	ND	ND	ND	ND	0	48
BH-7	3/ 23/ 2023	3'	ND	ND	ND	ND	ND	0	80
		4'	ND	ND	ND	ND	ND	0	64
			ND = Analy	te Not Detecte	d BH = Bore Ho	ole Sample	,		

Based on the results of our site assessment and upon client authorization, further excavation activities of the impacted area began. Confirmation composite samples were collected from the bottom and sidewalls of the excavation to confirm that NMOCD closure criteria had been met, the results of which can be found in the following data table. Confirmation composite 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

Table 2. Commination Son 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 Tab	le 1 Closure Crit NMAC	teria 19.15.29	50 mg/kg	10 mg/kg	1000 r	ng/kg	2500 mg/kg	2500 mg/kg	10,000 mg/kg	
S-1	5/26/2023	1.5'	ND	ND	ND	ND	ND	0	768	
S-2	5/26/2023	1.5'	ND	ND	ND	ND	ND	0	752	
S-3	5/26/2023	1.5'	ND	ND	ND	ND	ND	0	704	
S-4	5/26/2023	1.5'	ND	ND	ND	ND	ND	0	816	
S-5	5/26/2023	1.5'	ND	ND	ND	ND	ND	0	896	
S-6	5/26/2023	1.5'	ND	ND	ND	ND	ND	0	784	
S-7	5/26/2023	1.5'	ND	ND	ND	ND	ND	0	800	
S-8	5/26/2023	1.5'	ND	ND	ND	ND	ND	0	912	
S-9	5/26/2023	1.5'	ND	ND	ND	ND	ND	0	864	
S-10	5/26/2023	1.5'	ND	ND	ND	ND	ND	0	832	
S-11	5/26/2023	1.5'	ND	ND	ND	ND	ND	0	1020	
S-12	5/26/2023	1.5'	ND	ND	ND	ND	ND	0	864	
S-13	5/26/2023	1.5'	ND	ND	ND	ND	ND	0	992	
S-14	5/26/2023	1.5'	ND	ND	ND	ND	ND	0	1010	
SW-1	5/26/2023	1.5'	ND	ND	ND	ND	ND	0	416	
SW-2	5/26/2023	1.5'	ND	ND	ND	ND	ND	0	432	
SW-3	5/26/2023	1.5'	ND	ND	ND	ND	ND	0	416	
SW-4	5/26/2023	1.5'	ND	ND	ND	ND	ND	0	384	

- The impacted areas in the vicinity of sample points BH-5 and BH-6 were excavated to a total depth of 1.5-feet BGS.
- Confirmation composite samples were obtained from the bottom and sidewalls of the excavated area to verify that all contaminants above closure criteria had been removed.
- All the excavated material was hauled to R360, 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.

H&R Enterprises, LLC (575) 909-0326 / (575) 605-3471

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#### 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** 

Michael Collier

#### Attachments:

Appendix I Site Maps

Appendix II Soil Survey, Groundwater Data, FEMA Flood Zone, Water Bore Map, Soil Bore Log

Appendix III Initial and Final C-141

Appendix IV Photographic Documentation

Appendix V Laboratory Reports

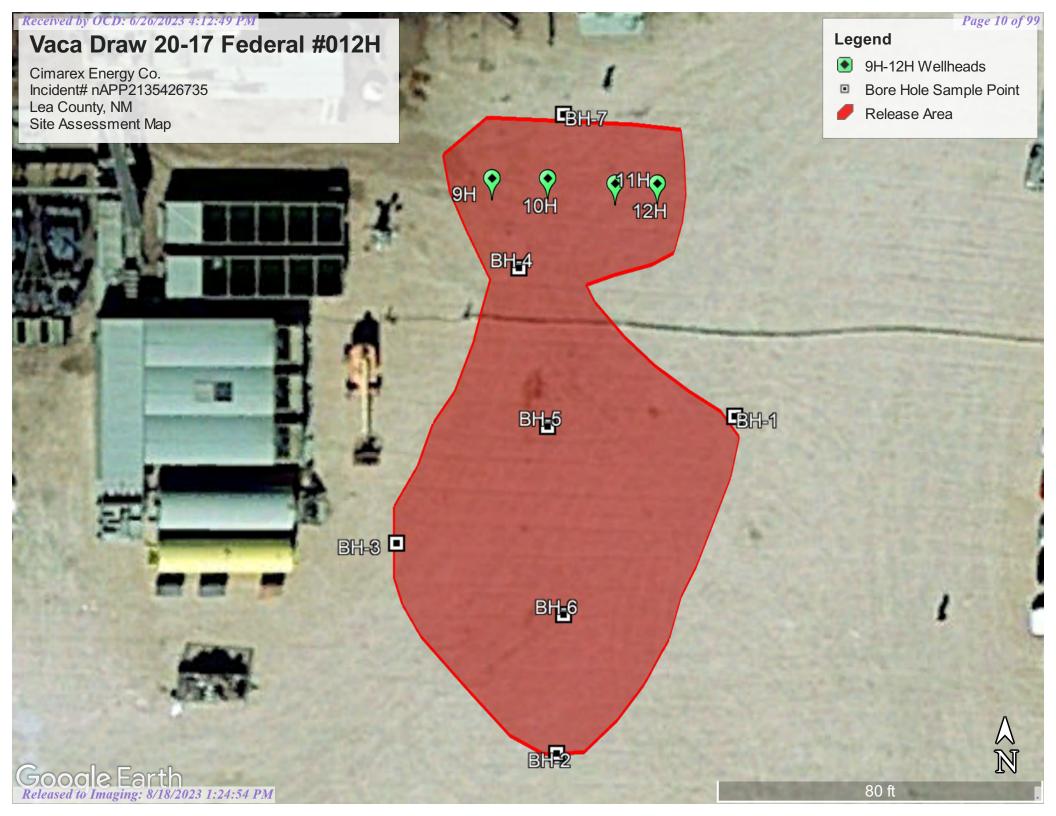
# **APPENDIX I**

**SITE MAPS** 

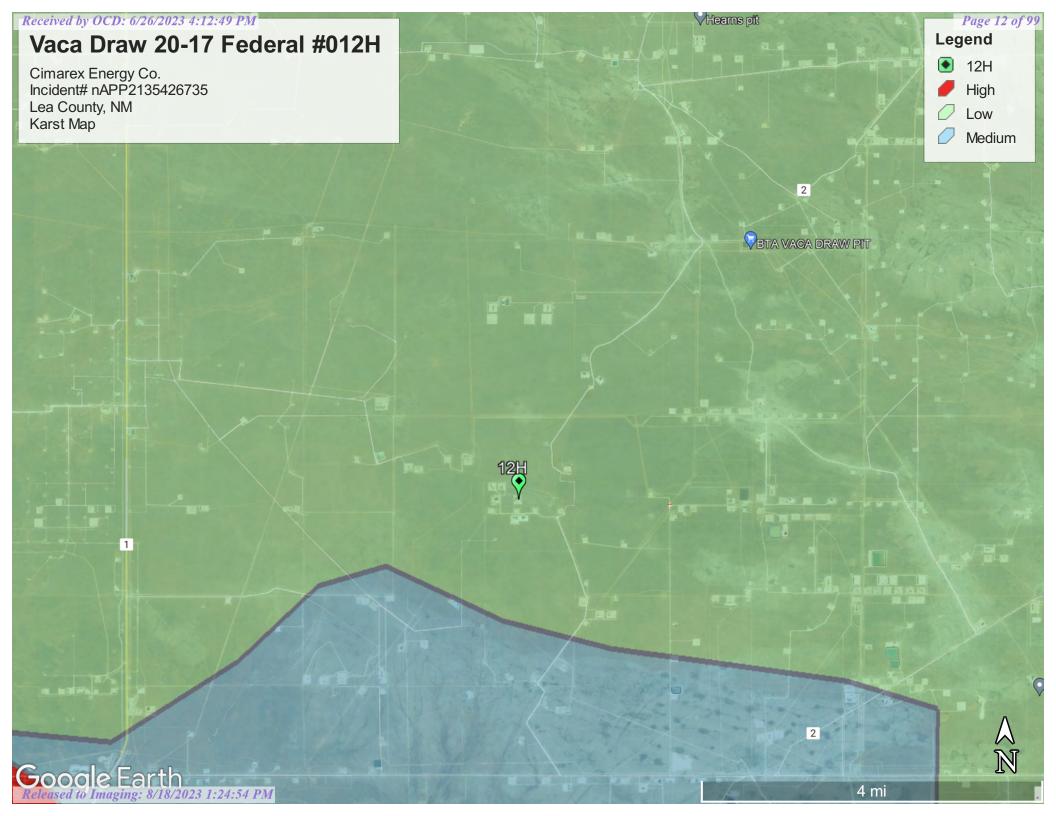
**KARST MAP** 

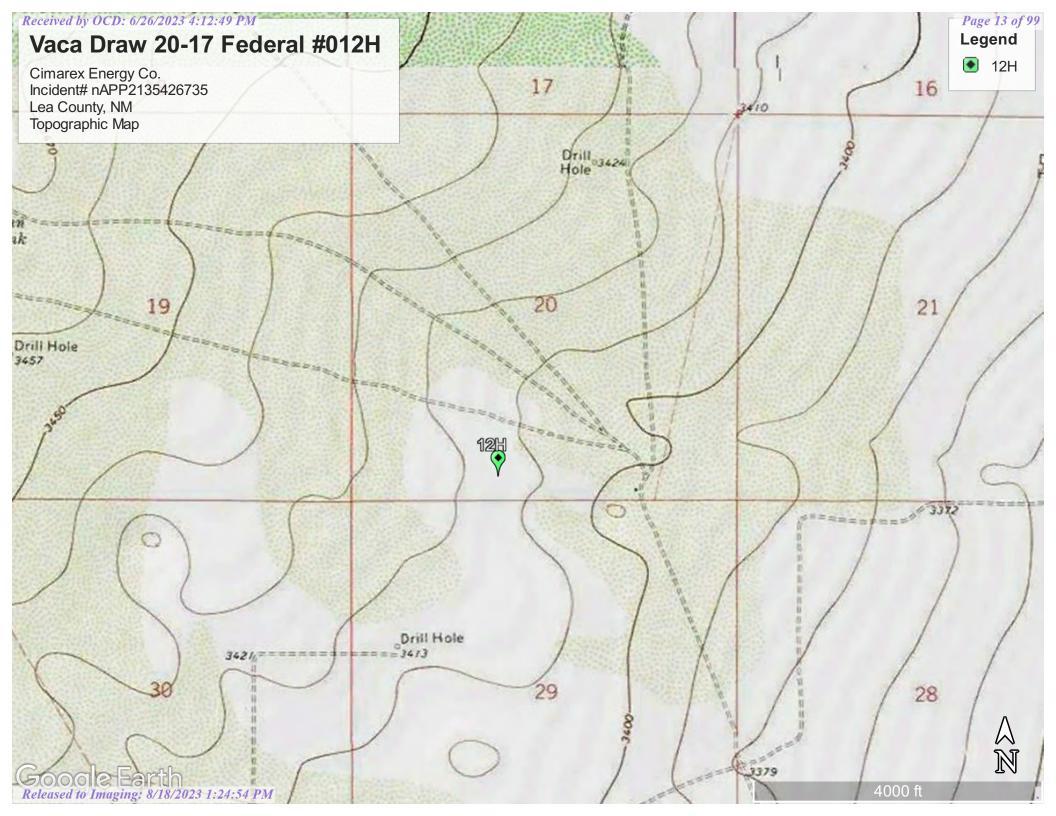
**TOPOGRAPHIC MAP** 

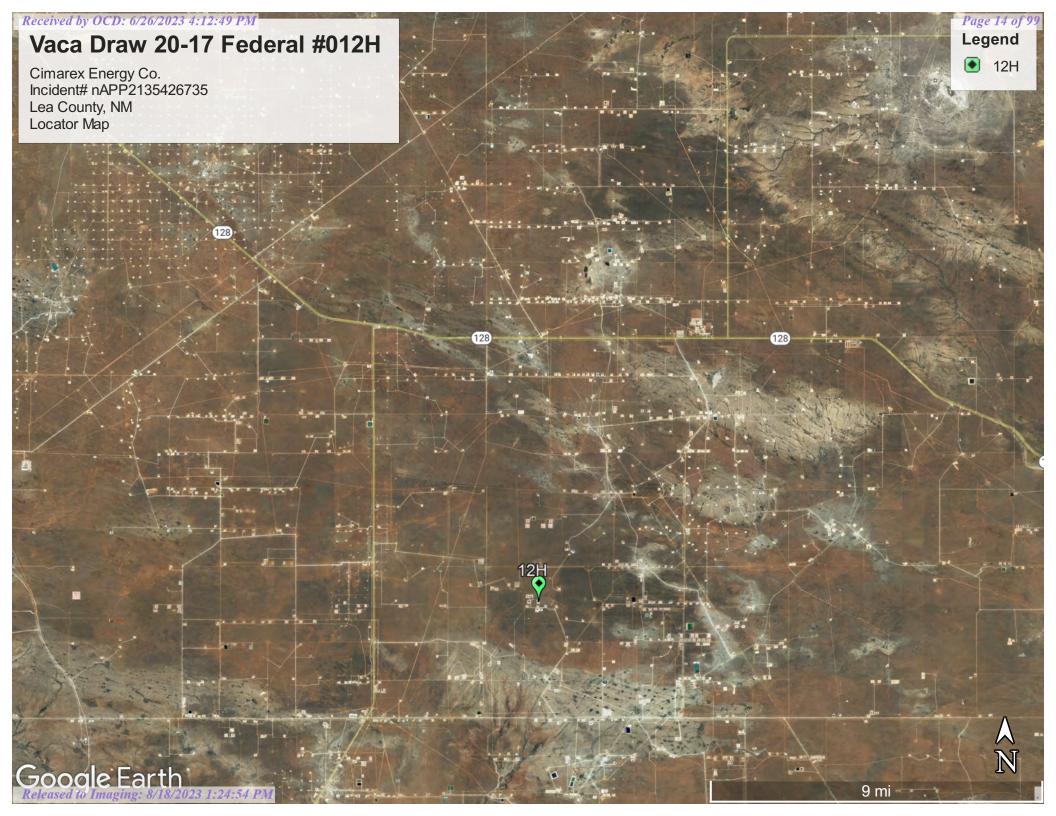
**LOCATOR MAP** 











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

closed) (quarters are smallest to largest)

(NAD83 UTM in meters) (In feet)

		POD													
		Sub-		Q	Q	Q								•	Water
POD Number	Code	basin	County	64	16	4	Sec	Tws	Rng	X	Y	DistanceDep	thWellDe	pthWater C	Column
C 04627 POD1		CUB	LE	3	3	4	08	25S	33E	632665	3556725	3268			
C 04537 POD1		C	LE	4	4	4	31	25S	33E	631847	3550243	3273	500	280	220
<u>C 02313</u>		CUB	LE	2	3	3	26	25S	33E	636971	3552098*	4746	150	110	40

Average Depth to Water:

195 feet

Minimum Depth:

110 feet

Maximum Depth: 280 feet

Record Count: 3

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

**Easting (X):** 632425.45 **Northing (Y):** 3553465.38 **Radius:** 5000

\*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.

6/2/23 2:34 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER

#### Lea County, New Mexico

#### BH—Berino-Cacique association, hummocky

#### **Map Unit Setting**

National map unit symbol: dmpg Elevation: 3,000 to 4,400 feet

Mean annual precipitation: 10 to 13 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**

Berino and similar soils: 50 percent Cacique and similar soils: 40 percent Minor components: 10 percent

Estimates are based on observations, descriptions, and transects of

the mapunit.

#### **Description of Berino**

#### 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 over calcareous sandy alluvium derived from sedimentary

rock

#### Typical profile

A - 0 to 10 inches: fine sand

Btk - 10 to 60 inches: sandy clay loam

#### **Properties and qualities**

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: Low

Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 40 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: Moderate (about 8.5

inches)

#### Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7c

Hydrologic Soil Group: B

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

#### **Description of Cacique**

#### Setting

Landform: Plains

Landform position (three-dimensional): Rise

Down-slope shape: Linear Across-slope shape: Linear

Parent material: Calcareous eolian deposits derived from

sedimentary rock

#### **Typical profile**

A - 0 to 7 inches: fine sand

Bt - 7 to 28 inches: sandy clay loam
Bkm - 28 to 38 inches: cemented material

#### **Properties and qualities**

Slope: 0 to 3 percent

Depth to restrictive feature: 20 to 40 inches to petrocalcic

Drainage class: Well drained

Runoff class: High

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: 40 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 3.6 inches)

#### Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7c

Hydrologic Soil Group: C

Ecological site: R070BD004NM - Sandy

Hydric soil rating: No

#### **Minor Components**

#### Kermit

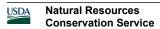
Percent of map unit: 4 percent

Ecological site: R070BD005NM - Deep Sand

Hydric soil rating: No

#### **Maljamar**

Percent of map unit: 3 percent



Ecological site: R077CY028TX - Limy Upland 16-21" PZ

Hydric soil rating: No

#### **Palomas**

Percent of map unit: 2 percent

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

#### **Dune land**

Percent of map unit: 1 percent Hydric soil rating: No

#### **Data Source Information**

Soil Survey Area: Lea County, New Mexico Survey Area Data: Version 19, Sep 8, 2022

# Received by OCD: 6/26/2023 4:12:49 PM National Flood Hazard Layer FIRMette





SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT Without Base Flood Elevation (BFE)

SPECIAL FLOOD HAZARD AREAS With BFE or Depth Zone AE, AO, AH, VE, AR

Regulatory Floodway



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

Area with Flood Risk due to Levee Zone D

**Future Conditions 1% Annual** Chance Flood Hazard Zone X Area with Reduced Flood Risk due to Levee. See Notes. Zone X

OTHER AREAS OF FLOOD HAZARD

NO SCREEN Area of Minimal Flood Hazard Zone X

Effective LOMRs

OTHER AREAS

Area of Undetermined Flood Hazard Zone D

**GENERAL** 

- - - Channel, Culvert, or Storm Sewer STRUCTURES | LILLIL Levee, Dike, or Floodwall

20.2 Cross Sections with 1% Annual Chance 17.5 Water Surface Elevation **Coastal Transect** 

Base Flood Elevation Line (BFE) Limit of Study

**Jurisdiction Boundary** -- Coastal Transect Baseline

OTHER **FEATURES** 

**Profile Baseline** Hydrographic Feature

Digital Data Available

No Digital Data Available

MAP PANELS

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 6/5/2023 at 11:19 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.





SOIL BORE LOG								
Project:	Vaca Draw 20-17 Federal #012 H	Date:	September 21, 2022					
Type:	Exploratory Water Bore	Location:	Vaca Draw 20-17 Fed #12H					

Depth	Soil Type	Classification	Comments
0-5′	Caliche	N/A	
5-10′	Fine Red Sand	N/A	
10-15′	Fine Red Sand	N/A	
15-20′	Fine Red Sand	N/A	
20-25′	Caliche	N/A	
25-30′	Caliche	N/A	
30-35′	Caliche	N/A	
35-40′	Caliche	N/A	
40-45′	Caliche	N/A	
45-50′	Caliche	N/A	
50-55′	Caliche	N/A	
Total Depth 55'			No groundwater 9/21/2022 No groundwater 9/26/2022
			GPS: 32.108981,-103.595653

# **APPENDIX III**

**INITIAL C-141** 

**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	nAPP2135426735
District RP	
Facility ID	
Application ID	

## **Release Notification**

### **Responsible Party**

			•	_	·			
Responsible Party: Cimarex Energy Co.				OGRID: 2	15099			
Contact Name:	: Laci Luig	<b>y</b>			Contact To	elephone: (432) 571-7800		
Contact email:	lluig@cin	narex.com			Incident #	(assigned by OCD) nAPP2135426735		
Contact mailin Midland, TX 7		600 N Marienfelo	d Street, Ste. 600					
			Location	of R	elease S	ource		
Latitude 32.109	9742		(NAD 83 in d	lecimal de	Longitude - grees to 5 decir	-103.596228 mal places)		
Site Name: Vac	ca Draw 20	)-17 Federal 12H			Site Type:	Well Pad		
Date Release D	iscovered:	12/17/2021			API# (if app	plicable)		
Unit Letter	Section	Township	Range		Cour	nty		
	20	25S	33E	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)							
Crude Oil		Volume Release				Volume Recovered (bbls)		
Produced W	Vater	Volume Release				Volume Recovered (bbls) 15		
		Is the concentration produced water	tion of dissolved >10,000 mg/l?	chloride	e in the	☐ Yes ☐ No		
Condensate	<b>;</b>	Volume Release	ed (bbls)			Volume Recovered (bbls)		
Natural Gas	S	Volume Release	ed (Mcf)			Volume Recovered (Mcf)		
Other (desc	Other (describe) Volume/Weight Released (provide units			de units)	S) Volume/Weight Recovered (provide units)			
valve was not hegan getting to	ns unhooking and the vacuum to the gro	ng an 8" line from d the line could no n pods running to	ot be stabbed bac recover spilled fl	k onto tl uid. A v	ne manifold acuum pod 1	ictaulic component it was noticed that the upstream where it had been disconnected. The crew immediately recovered all fluids inside containment plus 5 barrels that January, at which time we will move in to recover the		

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Incident ID	nAPP2135426735
District RP	
Facility ID	
Application ID	

Was this a major release as defined by	If YES, for what reason(s) does the re	sponsible party consider this a major release?
19.15.29.7(A) NMAC?		
☐ Yes ⊠ No		
TCATEG ' 1'		1 0 W
By: Tell Montoya	otice given to the OCD? By whom? To	o whom? When and by what means (phone, email, etc)?
To: Mike Bratcher, Chad By: Email	Hensley, Robert Hamlet and BLM	
	Initial	Dognongo
Tri II		Response
The responsible p	party must undertake the following actions immed	diately unless they could create a safety hazard that would result in injury
The source of the rele	ease has been stopped.	
☐ The impacted area ha	s been secured to protect human health	and the environment.
Released materials ha	ave been contained via the use of berms	or dikes, absorbent pads, or other containment devices.
All free liquids and re	ecoverable materials have been remove	d and managed appropriately.
If all the actions described	d above have <u>not</u> been undertaken, expl	ain why:
has begun, please attach	a narrative of actions to date. If remed	ice remediation immediately after discovery of a release. If remediation dial efforts have been successfully completed or if the release occurred C), please attach all information needed for closure evaluation.
		the best of my knowledge and understand that pursuant to OCD rules and notifications and perform corrective actions for releases which may endanger
public health or the environr	nent. The acceptance of a C-141 report by	the OCD does not relieve the operator of liability should their operations have threat to groundwater, surface water, human health or the environment. In
		or of responsibility for compliance with any other federal, state, or local laws
Printed Name: Laci Luig		Title: ESH Specialist
	· 4	
	$\circ$	
email: lluig@cimarex.cor	n	Telephone: (432) 208-3035
OCD Only		
Received by:		Date:

Received by OCD: 6/26/2023 4:12:49 PM Form C-141 State of New Mexico Page 3 Oil Conservation Division

	Page 26 of 99
Incident ID	
District RP	
Facility ID	
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?	(ft bgs)					
Did this release impact groundwater or surface water?	☐ Yes ☐ No					
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☐ 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)?	☐ Yes ☐ No					
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☐ 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?	☐ Yes ☐ No					
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☐ No					
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☐ No					
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☐ No					
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☐ No					
Are the lateral extents of the release overlying an unstable area such as karst geology?						
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☐ No					
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	☐ Yes ☐ 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.

Received by OCD: 6/26/2023 4:12:49 PM Form C-141 State of New Mexico Page 4 Oil Conservation Division

	Page 27 of	99
Incident ID		
District RP		
Facility ID		
Application ID		

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		
Printed Name:		
Signature:	Date:	
email:	Telephone:	
OCD Only		
Received by: Shelly Wells	Date: <u>6/27/2023</u>	

Page 28 of 99

Incident ID		
District RP		
Facility ID		
Application ID		

## Closure

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

Closure Report Attachment Checklist: Each of the following ite	ems 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				
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of a should their operations have failed to adequately investigate and rem human health or the environment. In addition, OCD acceptance of a compliance with any other federal, state, or local laws and/or regulat restore, reclaim, and re-vegetate the impacted surface area to the con accordance with 19.15.29.13 NMAC including notification to the OC	nediate contamination that pose a threat to groundwater, surface water, a C-141 report does not relieve the operator of responsibility for cions. The responsible party acknowledges they must substantially aditions that existed prior to the release or their final land use in CD when reclamation and re-vegetation are complete.			
Printed Name:	Title:			
Printed Name:  Signature:	Date:			
email:	Telephone:			
OCD Only				
Received by: Shelly Wells	Date: 6/27/2023			
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: 8/18/2023			
Printed Name: Jocelyn Harimon	Title: Environmental Specialist			

#### **Ashton Thielke**

From: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>

**Sent:** Tuesday, May 23, 2023 5:25 PM

**To:** Ashton Thielke

Cc: Bratcher, Michael, EMNRD; Velez, Nelson, EMNRD

**Subject:** RE: [EXTERNAL] nAPP2135426735 & nAPP2200321420 - Vaca Draw 20-17 Federal

9H-12H - Confirmation Sample Notification

**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.

Ashton,

Please be aware that notification requirements are **two business days**, per rule. You may proceed on your schedule. This, and all correspondence, should be included in the closure report to insure inclusion 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

http:// www.emnrd.nm.gov



From: Ashton Thielke <Ashton.Thielke@coterra.com>

Sent: Tuesday, May 23, 2023 2:19 PM

To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>

Cc: Laci Luig < Laci.Luig@coterra.com>

Subject: [EXTERNAL] nAPP2135426735 & nAPP2200321420 - Vaca Draw 20-17 Federal 9H-12H - Confirmation Sample

Notification

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

Good afternoon,

This email serves as 48+ hour notification for confirmation sampling on the Vaca Draw 20-17 Federal 9H-12H. Sampling is scheduled to begin as early as 3:00pm (MST) Thursday, May 25<sup>th</sup>, weather and soil conditions permitting. H&R Enterprises will be on site to collect the confirmation samples.

Incident ID: nAPP2135426735 & nAPP2200321420

Coordinates: 32.109742, -103.596228

Thank you,



Ashton Thielke | PBU - Environmental Consultant
T: 432.813.8988 | M: 281.753.5659 | Ashton.Thielke@coterra.com | www.coterra.com
Coterra Energy Inc. | 6000 Deauville Blvd., Suite 300N | Midland, TX 79706

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

#### **EXCAVATION PHOTOGRAPHS**





#### PHOTOGRAPHIC DOCUMENTATION

#### **FINAL PHOTOGRAPHS**





#### PHOTOGRAPHIC DOCUMENTATION

### **EXPLORATORY WATER BORE PHOTOGRAPHS**





# **APPENDIX V**

# LABORATORY REPORTS



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

September 27, 2022

MICHAEL COLLIER
H & R ENTERPRISES
1010 GAMBLIN ROAD
HOBBS, NM 88240

RE: VACA DRAW 20-17 FEDERAL 9H (VACA)

Enclosed are the results of analyses for samples received by the laboratory on 09/23/22 15:35.

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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

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

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

Celey D. Keine

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



## Analytical Results For:

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

Received: 09/23/2022 Reported:

09/27/2022

Project Name: VACA DRAW 20-17 FEDERAL 9H (VACA) Project Number: NONE GIVEN

Project Location: CIMAREX - LEA CO NM Sampling Date: 09/21/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

Sample ID: BH - 1 0-1' (H224439-01)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/26/2022	ND	1.99	99.5	2.00	7.14	
Toluene*	<0.050	0.050	09/26/2022	ND	1.91	95.3	2.00	6.74	
Ethylbenzene*	<0.050	0.050	09/26/2022	ND	1.85	92.6	2.00	6.80	
Total Xylenes*	<0.150	0.150	09/26/2022	ND	5.67	94.5	6.00	6.34	
Total BTEX	<0.300	0.300	09/26/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.4	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	09/26/2022	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2022	ND	202	101	200	0.874	
DRO >C10-C28*	<10.0	10.0	09/26/2022	ND	195	97.5	200	2.67	
EXT DRO >C28-C36	<10.0	10.0	09/26/2022	ND					
Surrogate: 1-Chlorooctane	105	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	113 9	% 46.3-17	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



## Analytical Results For:

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

Received: 09/23/2022 Reported: 09/27/2022

09/27/2022 VACA DRAW 20-17 FEDERAL 9H (VACA)

Project Name: VACA DRAW : Project Number: NONE GIVEN

Project Location: CIMAREX - LEA CO NM

Sampling Date: 09/21/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

# Sample ID: BH - 1 2' (H224439-02)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/26/2022	ND	1.99	99.5	2.00	7.14	
Toluene*	<0.050	0.050	09/26/2022	ND	1.91	95.3	2.00	6.74	
Ethylbenzene*	<0.050	0.050	09/26/2022	ND	1.85	92.6	2.00	6.80	
Total Xylenes*	<0.150	0.150	09/26/2022	ND	5.67	94.5	6.00	6.34	
Total BTEX	<0.300	0.300	09/26/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.3	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	09/26/2022	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2022	ND	202	101	200	0.874	
DRO >C10-C28*	<10.0	10.0	09/26/2022	ND	195	97.5	200	2.67	
EXT DRO >C28-C36	<10.0	10.0	09/26/2022	ND					
Surrogate: 1-Chlorooctane	103	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	111	% 46.3-17	78						

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Celey D. Keine



Cool & Intact

Tamara Oldaker

## Analytical Results For:

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

Received: 09/23/2022 Reported: 09/27/2022

 09/23/2022
 Sampling Date:
 09/21/2022

 09/27/2022
 Sampling Type:
 Soil

Sampling Condition:

Project Name: VACA DRAW 20-17 FEDERAL 9H (VACA)
Project Number: NONE GIVEN

Project Number: NONE GIVEN Sample Received By:
Project Location: CIMAREX - LEA CO NM

## Sample ID: BH - 1 3' (H224439-03)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/26/2022	ND	1.99	99.5	2.00	7.14	
Toluene*	<0.050	0.050	09/26/2022	ND	1.91	95.3	2.00	6.74	
Ethylbenzene*	<0.050	0.050	09/26/2022	ND	1.85	92.6	2.00	6.80	
Total Xylenes*	<0.150	0.150	09/26/2022	ND	5.67	94.5	6.00	6.34	
Total BTEX	<0.300	0.300	09/26/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	09/26/2022	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2022	ND	202	101	200	0.874	
DRO >C10-C28*	<10.0	10.0	09/26/2022	ND	195	97.5	200	2.67	
EXT DRO >C28-C36	<10.0	10.0	09/26/2022	ND					
Surrogate: 1-Chlorooctane	107	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	120	% 46.3-17	8						

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Celey D. Keine



## Analytical Results For:

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

Received: 09/23/2022 Reported:

09/27/2022 VACA DRAW 20-17 FEDERAL 9H (VACA)

Project Name: Project Number: NONE GIVEN

Project Location: CIMAREX - LEA CO NM Sampling Date: 09/21/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

# Sample ID: BH - 1 4' (H224439-04)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/26/2022	ND	1.99	99.5	2.00	7.14	
Toluene*	<0.050	0.050	09/26/2022	ND	1.91	95.3	2.00	6.74	
Ethylbenzene*	<0.050	0.050	09/26/2022	ND	1.85	92.6	2.00	6.80	
Total Xylenes*	<0.150	0.150	09/26/2022	ND	5.67	94.5	6.00	6.34	
Total BTEX	<0.300	0.300	09/26/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.4	% 69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	09/26/2022	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2022	ND	202	101	200	0.874	
DRO >C10-C28*	<10.0	10.0	09/26/2022	ND	195	97.5	200	2.67	
EXT DRO >C28-C36	<10.0	10.0	09/26/2022	ND					
Surrogate: 1-Chlorooctane	106 9	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	118 9	6 46.3-17	8						

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Celey D. Keene



## Analytical Results For:

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

Received: 09/23/2022 Reported:

09/27/2022

VACA DRAW 20-17 FEDERAL 9H (VACA)

Project Number: NONE GIVEN

Project Name:

Project Location: CIMAREX - LEA CO NM Sampling Date: 09/21/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact Tamara Oldaker Sample Received By:

# Sample ID: BH - 2 0-1' (H224439-05)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/26/2022	ND	1.99	99.5	2.00	7.14	
Toluene*	<0.050	0.050	09/26/2022	ND	1.91	95.3	2.00	6.74	
Ethylbenzene*	<0.050	0.050	09/26/2022	ND	1.85	92.6	2.00	6.80	
Total Xylenes*	<0.150	0.150	09/26/2022	ND	5.67	94.5	6.00	6.34	
Total BTEX	<0.300	0.300	09/26/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.4	% 69.9-14	0						
Chloride, SM4500CI-B	mg/	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	09/26/2022	ND	400	100	400	3.92	
TPH 8015M	mg/	'kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2022	ND	202	101	200	0.874	
DRO >C10-C28*	<10.0	10.0	09/26/2022	ND	195	97.5	200	2.67	
EXT DRO >C28-C36	<10.0	10.0	09/26/2022	ND					
Surrogate: 1-Chlorooctane	99.9	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	109	% 46.3-17	8						

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Celey D. Keene



## Analytical Results For:

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

Received: 09/23/2022 Reported:

09/27/2022

Project Name: VACA DRAW 20-17 FEDERAL 9H (VACA) Project Number:

Project Location:

NONE GIVEN

CIMAREX - LEA CO NM

Sampling Date: 09/21/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

Sample ID: BH - 2 2' (H224439-06)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/26/2022	ND	1.99	99.5	2.00	7.14	
Toluene*	<0.050	0.050	09/26/2022	ND	1.91	95.3	2.00	6.74	
Ethylbenzene*	<0.050	0.050	09/26/2022	ND	1.85	92.6	2.00	6.80	
Total Xylenes*	<0.150	0.150	09/26/2022	ND	5.67	94.5	6.00	6.34	
Total BTEX	<0.300	0.300	09/26/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.2	% 69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	09/26/2022	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2022	ND	202	101	200	0.874	
DRO >C10-C28*	<10.0	10.0	09/26/2022	ND	195	97.5	200	2.67	
EXT DRO >C28-C36	<10.0	10.0	09/26/2022	ND					
Surrogate: 1-Chlorooctane	89.9	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	98.1	% 46.3-17	8						

Cardinal Laboratories \*=Accredited Analyte

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## Analytical Results For:

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

Received: 09/23/2022 Reported:

09/27/2022

Project Name: VACA DRAW 20-17 FEDERAL 9H (VACA) Project Number: NONE GIVEN

Project Location: CIMAREX - LEA CO NM Sampling Date: 09/21/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

# Sample ID: BH - 2 3' (H224439-07)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/26/2022	ND	1.99	99.5	2.00	7.14	
Toluene*	<0.050	0.050	09/26/2022	ND	1.91	95.3	2.00	6.74	
Ethylbenzene*	<0.050	0.050	09/26/2022	ND	1.85	92.6	2.00	6.80	
Total Xylenes*	<0.150	0.150	09/26/2022	ND	5.67	94.5	6.00	6.34	
Total BTEX	<0.300	0.300	09/26/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.4	% 69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	09/26/2022	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2022	ND	202	101	200	0.874	
DRO >C10-C28*	<10.0	10.0	09/26/2022	ND	195	97.5	200	2.67	
EXT DRO >C28-C36	<10.0	10.0	09/26/2022	ND					
Surrogate: 1-Chlorooctane	111 %	6 45.3-16	1						
Surrogate: 1-Chlorooctadecane	120 9	46.3-17	8						

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# Analytical Results For:

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

Received: 09/23/2022 Reported:

09/27/2022 Sampling Type: VACA DRAW 20-17 FEDERAL 9H (VACA)

Project Name: Project Number: NONE GIVEN

Project Location: CIMAREX - LEA CO NM Sampling Date: 09/21/2022

Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

# Sample ID: BH - 2 4' (H224439-08)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/26/2022	ND	1.99	99.5	2.00	7.14	
Toluene*	<0.050	0.050	09/26/2022	ND	1.91	95.3	2.00	6.74	
Ethylbenzene*	<0.050	0.050	09/26/2022	ND	1.85	92.6	2.00	6.80	
Total Xylenes*	<0.150	0.150	09/26/2022	ND	5.67	94.5	6.00	6.34	
Total BTEX	<0.300	0.300	09/26/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.8	% 69.9-14	0						
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	09/26/2022	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2022	ND	202	101	200	0.874	
DRO >C10-C28*	<10.0	10.0	09/26/2022	ND	195	97.5	200	2.67	
EXT DRO >C28-C36	<10.0	10.0	09/26/2022	ND					
Surrogate: 1-Chlorooctane	102 9	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	113 %	6 46.3-17	8						

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## Analytical Results For:

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

Received: 09/23/2022 Reported:

09/27/2022

VACA DRAW 20-17 FEDERAL 9H (VACA)

Project Number: Project Location:

Project Name:

NONE GIVEN CIMAREX - LEA CO NM Sampling Date:

09/21/2022

Sampling Type: Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

# Sample ID: BH - 3 0-1' (H224439-09)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/26/2022	ND	1.99	99.5	2.00	7.14	
Toluene*	<0.050	0.050	09/26/2022	ND	1.91	95.3	2.00	6.74	
Ethylbenzene*	<0.050	0.050	09/26/2022	ND	1.85	92.6	2.00	6.80	
Total Xylenes*	<0.150	0.150	09/26/2022	ND	5.67	94.5	6.00	6.34	
Total BTEX	<0.300	0.300	09/26/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.8	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	09/26/2022	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2022	ND	202	101	200	0.874	
DRO >C10-C28*	<10.0	10.0	09/26/2022	ND	195	97.5	200	2.67	
EXT DRO >C28-C36	<10.0	10.0	09/26/2022	ND					
Surrogate: 1-Chlorooctane	90.4	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	99.6	% 46.3-17	8						

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## Analytical Results For:

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

Received: 09/23/2022 Reported:

09/27/2022

ma/ka

Project Name: VACA DRAW 20-17 FEDERAL 9H (VACA) Project Number: NONE GIVEN

Project Location: CIMAREX - LEA CO NM Sampling Date: 09/21/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

Sample ID: BH - 3 2' (H224439-10)

RTFY 8021R

BIEX 8021B	mg	/ <b>kg</b>	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/26/2022	ND	1.99	99.5	2.00	7.14	
Toluene*	<0.050	0.050	09/26/2022	ND	1.91	95.3	2.00	6.74	
Ethylbenzene*	<0.050	0.050	09/26/2022	ND	1.85	92.6	2.00	6.80	
Total Xylenes*	<0.150	0.150	09/26/2022	ND	5.67	94.5	6.00	6.34	
Total BTEX	<0.300	0.300	09/26/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.2	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	09/26/2022	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2022	ND	209	105	200	4.11	
DRO >C10-C28*	<10.0	10.0	09/26/2022	ND	187	93.3	200	3.23	
EXT DRO >C28-C36	<10.0	10.0	09/26/2022	ND					
Surrogate: 1-Chlorooctane	82.6	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	96.5	% 46.3-17	78						

Applyzod By: 14

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## Analytical Results For:

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

Received: 09/23/2022 Reported:

09/27/2022

Project Name: VACA DRAW 20-17 FEDERAL 9H (VACA) Project Number: NONE GIVEN

Project Location: CIMAREX - LEA CO NM Sampling Date: 09/21/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

# Sample ID: BH - 3 3' (H224439-11)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/26/2022	ND	1.99	99.5	2.00	7.14	
Toluene*	<0.050	0.050	09/26/2022	ND	1.91	95.3	2.00	6.74	
Ethylbenzene*	<0.050	0.050	09/26/2022	ND	1.85	92.6	2.00	6.80	
Total Xylenes*	<0.150	0.150	09/26/2022	ND	5.67	94.5	6.00	6.34	
Total BTEX	<0.300	0.300	09/26/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.0	% 69.9-14	0						
Chloride, SM4500CI-B	mg/	'kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	09/26/2022	ND	400	100	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2022	ND	209	105	200	4.11	
DRO >C10-C28*	<10.0	10.0	09/26/2022	ND	187	93.3	200	3.23	
EXT DRO >C28-C36	<10.0	10.0	09/26/2022	ND					
Surrogate: 1-Chlorooctane	74.7	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	82.0	% 46.3-17	8						

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## Analytical Results For:

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

Received: 09/23/2022 Reported:

09/27/2022 VACA DRAW 20-17 FEDERAL 9H (VACA)

Project Name: Project Number: NONE GIVEN

Project Location: CIMAREX - LEA CO NM Sampling Date: 09/21/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

# Sample ID: BH - 3 4' (H224439-12)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/26/2022	ND	1.99	99.5	2.00	7.14	
Toluene*	<0.050	0.050	09/26/2022	ND	1.91	95.3	2.00	6.74	
Ethylbenzene*	<0.050	0.050	09/26/2022	ND	1.85	92.6	2.00	6.80	
Total Xylenes*	<0.150	0.150	09/26/2022	ND	5.67	94.5	6.00	6.34	
Total BTEX	<0.300	0.300	09/26/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.4	% 69.9-14	0						
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	09/26/2022	ND	400	100	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2022	ND	209	105	200	4.11	
DRO >C10-C28*	<10.0	10.0	09/26/2022	ND	187	93.3	200	3.23	
EXT DRO >C28-C36	<10.0	10.0	09/26/2022	ND					
Surrogate: 1-Chlorooctane	60.1	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	67.3	% 46.3-17	8						

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## Analytical Results For:

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

Received: 09/23/2022 Reported: 09/27/2022

09/27/2022 VACA DRAW 20-17 FEDERAL 9H (VACA)

Project Name: VACA DRAW : Project Number: NONE GIVEN

Project Location: CIMAREX - LEA CO NM

Sampling Date: 09/21/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

# Sample ID: BH - 4 0-1' (H224439-13)

BTEX 8021B	mg	/kg	Analyze	ed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/26/2022	ND	1.96	97.8	2.00	4.62	
Toluene*	<0.050	0.050	09/26/2022	ND	1.94	96.8	2.00	5.87	
Ethylbenzene*	<0.050	0.050	09/26/2022	ND	1.89	94.7	2.00	5.40	
Total Xylenes*	<0.150	0.150	09/26/2022	ND	5.92	98.6	6.00	5.59	
Total BTEX	<0.300	0.300	09/26/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2340	16.0	09/26/2022	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2022	ND	209	105	200	4.11	
DRO >C10-C28*	<10.0	10.0	09/26/2022	ND	187	93.3	200	3.23	
EXT DRO >C28-C36	<10.0	10.0	09/26/2022	ND					
Surrogate: 1-Chlorooctane	75.0	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	84.7	% 46.3-17	8						

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## Analytical Results For:

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

Received: 09/23/2022 Reported:

09/27/2022

Project Name: VACA DRAW 20-17 FEDERAL 9H (VACA) Project Number: NONE GIVEN

Project Location: CIMAREX - LEA CO NM Sampling Date: 09/21/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

## Sample ID: BH - 4 2' (H224439-14)

BTEX 8021B	mg	/kg	Analyze	ed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/26/2022	ND	1.96	97.8	2.00	4.62	
Toluene*	<0.050	0.050	09/26/2022	ND	1.94	96.8	2.00	5.87	
Ethylbenzene*	<0.050	0.050	09/26/2022	ND	1.89	94.7	2.00	5.40	
Total Xylenes*	<0.150	0.150	09/26/2022	ND	5.92	98.6	6.00	5.59	
Total BTEX	<0.300	0.300	09/26/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3720	16.0	09/26/2022	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2022	ND	209	105	200	4.11	
DRO >C10-C28*	<10.0	10.0	09/26/2022	ND	187	93.3	200	3.23	
EXT DRO >C28-C36	<10.0	10.0	09/26/2022	ND					
Surrogate: 1-Chlorooctane	79.3	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	88.2	% 46.3-17	<i>'</i> 8						

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## Analytical Results For:

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

Received: 09/23/2022 Reported:

09/27/2022

NONE GIVEN

ma/ka

VACA DRAW 20-17 FEDERAL 9H (VACA)

Project Number: Project Location:

Project Name:

RTFY 8021R

CIMAREX - LEA CO NM

Sampling Date: 09/21/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact Tamara Oldaker Sample Received By:

Sample ID: BH - 4 3' (H224439-15)

BIEX 8021B	mg	/ kg	Anaiyze	a By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/26/2022	ND	1.96	97.8	2.00	4.62	
Toluene*	<0.050	0.050	09/26/2022	ND	1.94	96.8	2.00	5.87	
Ethylbenzene*	<0.050	0.050	09/26/2022	ND	1.89	94.7	2.00	5.40	
Total Xylenes*	<0.150	0.150	09/26/2022	ND	5.92	98.6	6.00	5.59	
Total BTEX	<0.300	0.300	09/26/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 69.9-14	0						
Chloride, SM4500CI-B	mg	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4000	16.0	09/26/2022	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: CK					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2022	ND	209	105	200	4.11	
DRO >C10-C28*	813	10.0	09/26/2022	ND	187	93.3	200	3.23	
EXT DRO >C28-C36	51.3	10.0	09/26/2022	ND					
Surrogate: 1-Chlorooctane	69.0	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	283	% 46.3-17	8						

Applyzod By: 1H /

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## Analytical Results For:

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

Received: 09/23/2022 Reported:

09/27/2022

Project Name: VACA DRAW 20-17 FEDERAL 9H (VACA) Project Number: NONE GIVEN

Project Location: CIMAREX - LEA CO NM Sampling Date: 09/21/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

# Sample ID: BH - 5 0-1' (H224439-16)

BTEX 8021B	mg	/kg	Analyze	ed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/26/2022	ND	1.96	97.8	2.00	4.62	
Toluene*	<0.050	0.050	09/26/2022	ND	1.94	96.8	2.00	5.87	
Ethylbenzene*	<0.050	0.050	09/26/2022	ND	1.89	94.7	2.00	5.40	
Total Xylenes*	<0.150	0.150	09/26/2022	ND	5.92	98.6	6.00	5.59	
Total BTEX	<0.300	0.300	09/26/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10600	16.0	09/26/2022	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2022	ND	209	105	200	4.11	
DRO >C10-C28*	423	10.0	09/26/2022	ND	187	93.3	200	3.23	
EXT DRO >C28-C36	191	10.0	09/26/2022	ND					
Surrogate: 1-Chlorooctane	76.7	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	93.2	% 46.3-17	78						

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## Analytical Results For:

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

Received: 09/23/2022 Reported:

09/27/2022

Project Name: VACA DRAW 20-17 FEDERAL 9H (VACA) Project Number: NONE GIVEN

Project Location: CIMAREX - LEA CO NM Sampling Date: 09/21/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

# Sample ID: BH - 5 2' (H224439-17)

BTEX 8021B	mg	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/26/2022	ND	1.96	97.8	2.00	4.62	
Toluene*	<0.050	0.050	09/26/2022	ND	1.94	96.8	2.00	5.87	
Ethylbenzene*	<0.050	0.050	09/26/2022	ND	1.89	94.7	2.00	5.40	
Total Xylenes*	<0.150	0.150	09/26/2022	ND	5.92	98.6	6.00	5.59	
Total BTEX	<0.300	0.300	09/26/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4720	16.0	09/26/2022	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2022	ND	209	105	200	4.11	
DRO >C10-C28*	33.3	10.0	09/26/2022	ND	187	93.3	200	3.23	
EXT DRO >C28-C36	<10.0	10.0	09/26/2022	ND					
Surrogate: 1-Chlorooctane	75.0	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	82.9	% 46.3-17	8						

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## Analytical Results For:

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

Received: 09/23/2022 Reported:

09/27/2022

VACA DRAW 20-17 FEDERAL 9H (VACA)

Project Number: NONE GIVEN

Project Location: CIMAREX - LEA CO NM Sampling Date: 09/21/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

# Sample ID: BH - 5 3' (H224439-18)

Project Name:

BTEX 8021B	mg	/kg	Analyze	ed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/26/2022	ND	1.96	97.8	2.00	4.62	
Toluene*	<0.050	0.050	09/26/2022	ND	1.94	96.8	2.00	5.87	
Ethylbenzene*	<0.050	0.050	09/26/2022	ND	1.89	94.7	2.00	5.40	
Total Xylenes*	<0.150	0.150	09/26/2022	ND	5.92	98.6	6.00	5.59	
Total BTEX	<0.300	0.300	09/26/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2800	16.0	09/26/2022	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2022	ND	195	97.7	200	0.590	
DRO >C10-C28*	21.9	10.0	09/26/2022	ND	212	106	200	3.51	
EXT DRO >C28-C36	<10.0	10.0	09/26/2022	ND					
Surrogate: 1-Chlorooctane	83.0	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	88.3	% 46.3-17	78						

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## Analytical Results For:

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

Received: 09/23/2022 Reported:

09/27/2022

NONE GIVEN

ma/ka

VACA DRAW 20-17 FEDERAL 9H (VACA)

CIMAREX - LEA CO NM

Project Location:

Project Name:

RTFY 8021R

Project Number:

Sampling Type:

Applyzod By: 1H /

Sampling Condition: Sample Received By:

Sampling Date:

Cool & Intact Tamara Oldaker

09/21/2022

Soil

Sample ID: BH - 5 4' (H224439-19)

BIEX 8021B	mg	/кд	Anaiyze	a By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/26/2022	ND	1.96	97.8	2.00	4.62	
Toluene*	<0.050	0.050	09/26/2022	ND	1.94	96.8	2.00	5.87	
Ethylbenzene*	<0.050	0.050	09/26/2022	ND	1.89	94.7	2.00	5.40	
Total Xylenes*	<0.150	0.150	09/26/2022	ND	5.92	98.6	6.00	5.59	
Total BTEX	<0.300	0.300	09/26/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.9-14	0						
Chloride, SM4500CI-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1540	16.0	09/26/2022	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2022	ND	195	97.7	200	0.590	
DRO >C10-C28*	<10.0	10.0	09/26/2022	ND	212	106	200	3.51	
EXT DRO >C28-C36	<10.0	10.0	09/26/2022	ND					
Surrogate: 1-Chlorooctane	84.1	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	87.9	% 46.3-17	8						

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## Analytical Results For:

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

Received: 09/23/2022 Reported: 09/27/2022

09/27/2022 VACA DRAW 20-17 FEDERAL 9H (VACA)

Project Name: VACA DRAW : Project Number: NONE GIVEN

Project Location: CIMAREX - LEA CO NM

Sampling Date: 09/21/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

# Sample ID: BH - 5 6' (H224439-20)

BTEX 8021B	mg	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/26/2022	ND	1.96	97.8	2.00	4.62	
Toluene*	<0.050	0.050	09/26/2022	ND	1.94	96.8	2.00	5.87	
Ethylbenzene*	<0.050	0.050	09/26/2022	ND	1.89	94.7	2.00	5.40	
Total Xylenes*	<0.150	0.150	09/26/2022	ND	5.92	98.6	6.00	5.59	
Total BTEX	<0.300	0.300	09/26/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	09/26/2022	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2022	ND	195	97.7	200	0.590	
DRO >C10-C28*	18.8	10.0	09/26/2022	ND	212	106	200	3.51	
EXT DRO >C28-C36	<10.0	10.0	09/26/2022	ND					
Surrogate: 1-Chlorooctane	91.4	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	96.1	% 46.3-17	<i>'</i> 8						

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## Analytical Results For:

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

Received: 09/23/2022 Reported:

09/27/2022

Project Name: VACA DRAW 20-17 FEDERAL 9H (VACA) Project Number: NONE GIVEN

Project Location: CIMAREX - LEA CO NM Sampling Date: 09/21/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

# Sample ID: BH - 5 8' (H224439-21)

BTEX 8021B	mg	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/26/2022	ND	1.96	97.8	2.00	4.62	
Toluene*	<0.050	0.050	09/26/2022	ND	1.94	96.8	2.00	5.87	
Ethylbenzene*	<0.050	0.050	09/26/2022	ND	1.89	94.7	2.00	5.40	
Total Xylenes*	<0.150	0.150	09/26/2022	ND	5.92	98.6	6.00	5.59	
Total BTEX	<0.300	0.300	09/26/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	09/26/2022	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2022	ND	195	97.7	200	0.590	
DRO >C10-C28*	14.2	10.0	09/26/2022	ND	212	106	200	3.51	
EXT DRO >C28-C36	<10.0	10.0	09/26/2022	ND					
Surrogate: 1-Chlorooctane	88.2	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	94.1	% 46.3-17	'8						

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## Analytical Results For:

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

Received: 09/23/2022 Reported:

09/27/2022 VACA DRAW 20-17 FEDERAL 9H (VACA)

Project Name: Project Number: NONE GIVEN

Project Location: CIMAREX - LEA CO NM Sampling Date: 09/21/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact Tamara Oldaker Sample Received By:

# Sample ID: BH - 5 10' (H224439-22)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/26/2022	ND	1.96	97.8	2.00	4.62	
Toluene*	<0.050	0.050	09/26/2022	ND	1.94	96.8	2.00	5.87	
Ethylbenzene*	<0.050	0.050	09/26/2022	ND	1.89	94.7	2.00	5.40	
Total Xylenes*	<0.150	0.150	09/26/2022	ND	5.92	98.6	6.00	5.59	
Total BTEX	<0.300	0.300	09/26/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	09/26/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2022	ND	195	97.7	200	0.590	
DRO >C10-C28*	15.7	10.0	09/26/2022	ND	212	106	200	3.51	
EXT DRO >C28-C36	<10.0	10.0	09/26/2022	ND					
Surrogate: 1-Chlorooctane	88.6	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	95.1	% 46.3-17	8						

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## Analytical Results For:

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

Received: 09/23/2022 Reported:

09/27/2022

NONE GIVEN

VACA DRAW 20-17 FEDERAL 9H (VACA)

Project Number:

Project Name:

Project Location: CIMAREX - LEA CO NM Sampling Date: 09/21/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

# Sample ID: BH - 6 0-1' (H224439-23)

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/26/2022	ND	1.96	97.8	2.00	4.62	
Toluene*	0.060	0.050	09/26/2022	ND	1.94	96.8	2.00	5.87	
Ethylbenzene*	0.055	0.050	09/26/2022	ND	1.89	94.7	2.00	5.40	
Total Xylenes*	<0.150	0.150	09/26/2022	ND	5.92	98.6	6.00	5.59	
Total BTEX	<0.300	0.300	09/26/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 69.9-14	0						
Chloride, SM4500CI-B	mg/	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	36000	16.0	09/26/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2022	ND	195	97.7	200	0.590	
DRO >C10-C28*	772	10.0	09/26/2022	ND	212	106	200	3.51	
EXT DRO >C28-C36	295	10.0	09/26/2022	ND					
Surrogate: 1-Chlorooctane	75.8	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	85.2	% 46.3-17	8						

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Celeg D. Keene



## Analytical Results For:

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

Received: 09/23/2022 Reported: 09/27/2022

09/27/2022 VACA DRAW 20-17 FEDERAL 9H (VACA)

Project Name: VACA DRAW
Project Number: NONE GIVEN

Project Location: CIMAREX - LEA CO NM

Sampling Date: 09/21/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

# Sample ID: BH - 6 2' (H224439-24)

BTEX 8021B	mg/kg Ai			nalyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/26/2022	ND	1.96	97.8	2.00	4.62	
Toluene*	<0.050	0.050	09/26/2022	ND	1.94	96.8	2.00	5.87	
Ethylbenzene*	<0.050	0.050	09/26/2022	ND	1.89	94.7	2.00	5.40	
Total Xylenes*	<0.150	0.150	09/26/2022	ND	5.92	98.6	6.00	5.59	
Total BTEX	<0.300	0.300	09/26/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	09/26/2022	ND	416	104	400	3.77	
TPH 8015M	mg,	'kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2022	ND	195	97.7	200	0.590	
DRO >C10-C28*	<10.0	10.0	09/26/2022	ND	212	106	200	3.51	
EXT DRO >C28-C36	<10.0	10.0	09/26/2022	ND					
Surrogate: 1-Chlorooctane	89.1	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	95.0	% 46.3-17	8						

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Celeg D. Freene



## Analytical Results For:

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

Received: 09/23/2022 Reported: 09/27/2022

09/27/2022 VACA DRAW 20-17 FEDERAL 9H (VACA)

Project Number: NONE GIVEN

Project Location: CIMAREX - LEA CO NM

ma/ka

Sampling Date: 09/21/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

# Sample ID: BH - 6 3' (H224439-25)

Project Name:

RTFY 8021R

BIEX 8021B	mg	<sup>и</sup> кд	Anaiyze	ea By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/26/2022	ND	1.96	97.8	2.00	4.62	
Toluene*	<0.050	0.050	09/26/2022	ND	1.94	96.8	2.00	5.87	
Ethylbenzene*	<0.050	0.050	09/26/2022	ND	1.89	94.7	2.00	5.40	
Total Xylenes*	<0.150	0.150	09/26/2022	ND	5.92	98.6	6.00	5.59	
Total BTEX	<0.300	0.300	09/26/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	09/26/2022	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2022	ND	195	97.7	200	0.590	
DRO >C10-C28*	<10.0	10.0	09/26/2022	ND	212	106	200	3.51	
EXT DRO >C28-C36	<10.0	10.0	09/26/2022	ND					
Surrogate: 1-Chlorooctane	84.4	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	91.3	% 46.3-17	8						

Applyzod By: 1H /

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Celey D. Kreine



## Analytical Results For:

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

Received: 09/23/2022 Reported:

09/27/2022

ma/ka

Project Name: VACA DRAW 20-17 FEDERAL 9H (VACA) Project Number: NONE GIVEN

Project Location: CIMAREX - LEA CO NM Sampling Date: 09/21/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

# Sample ID: BH - 6 4' (H224439-26)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/26/2022	ND	1.96	97.8	2.00	4.62	
Toluene*	<0.050	0.050	09/26/2022	ND	1.94	96.8	2.00	5.87	
Ethylbenzene*	<0.050	0.050	09/26/2022	ND	1.89	94.7	2.00	5.40	
Total Xylenes*	<0.150	0.150	09/26/2022	ND	5.92	98.6	6.00	5.59	
Total BTEX	<0.300	0.300	09/26/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	09/26/2022	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2022	ND	195	97.7	200	0.590	
DRO >C10-C28*	<10.0	10.0	09/26/2022	ND	212	106	200	3.51	
EXT DRO >C28-C36	<10.0	10.0	09/26/2022	ND					
Surrogate: 1-Chlorooctane	85.4	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	92.4	% 46.3-17	8						

Applyzod By: 1H /

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Celey D. Keene



## Analytical Results For:

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

Received: 09/23/2022 Reported:

09/27/2022

VACA DRAW 20-17 FEDERAL 9H (VACA) NONE GIVEN

Project Location: CIMAREX - LEA CO NM

Project Name:

Project Number:

Sampling Date: 09/21/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

# Sample ID: BH - 6 6' (H224439-27)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/26/2022	ND	1.96	97.8	2.00	4.62	
Toluene*	<0.050	0.050	09/26/2022	ND	1.94	96.8	2.00	5.87	
Ethylbenzene*	<0.050	0.050	09/26/2022	ND	1.89	94.7	2.00	5.40	
Total Xylenes*	<0.150	0.150	09/26/2022	ND	5.92	98.6	6.00	5.59	
Total BTEX	<0.300	0.300	09/26/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/26/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2022	ND	195	97.7	200	0.590	
DRO >C10-C28*	<10.0	10.0	09/26/2022	ND	212	106	200	3.51	
EXT DRO >C28-C36	<10.0	10.0	09/26/2022	ND					
Surrogate: 1-Chlorooctane	78.8	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	84.3	% 46.3-17	8						

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## Analytical Results For:

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

Received: 09/23/2022 Reported: 09/27/2022

09/27/2022 VACA DRAW 20-17 FEDERAL 9H (VACA)

Project Name: VACA DRAW : Project Number: NONE GIVEN

Project Location: CIMAREX - LEA CO NM

Sampling Date: 09/21/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

# Sample ID: BH - 6 8' (H224439-28)

BTEX 8021B	mg	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/26/2022	ND	1.96	97.8	2.00	4.62	
Toluene*	<0.050	0.050	09/26/2022	ND	1.94	96.8	2.00	5.87	
Ethylbenzene*	<0.050	0.050	09/26/2022	ND	1.89	94.7	2.00	5.40	
Total Xylenes*	<0.150	0.150	09/26/2022	ND	5.92	98.6	6.00	5.59	
Total BTEX	<0.300	0.300	09/26/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/26/2022	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2022	ND	195	97.7	200	0.590	
DRO >C10-C28*	<10.0	10.0	09/26/2022	ND	212	106	200	3.51	
EXT DRO >C28-C36	<10.0	10.0	09/26/2022	ND					
Surrogate: 1-Chlorooctane	80.9	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	87.7	% 46.3-17	8						

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Celeg & Freene



## Analytical Results For:

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

Received: 09/23/2022 Reported:

09/27/2022

Project Name: VACA DRAW 20-17 FEDERAL 9H (VACA) Project Number: NONE GIVEN

Project Location: CIMAREX - LEA CO NM Sampling Date: 09/21/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

# Sample ID: BH - 6 10' (H224439-29)

BTEX 8021B	mg	/kg	Analyze	ed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/26/2022	ND	1.96	97.8	2.00	4.62	
Toluene*	<0.050	0.050	09/26/2022	ND	1.94	96.8	2.00	5.87	
Ethylbenzene*	<0.050	0.050	09/26/2022	ND	1.89	94.7	2.00	5.40	
Total Xylenes*	<0.150	0.150	09/26/2022	ND	5.92	98.6	6.00	5.59	
Total BTEX	<0.300	0.300	09/26/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/26/2022	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2022	ND	195	97.7	200	0.590	
DRO >C10-C28*	<10.0	10.0	09/26/2022	ND	212	106	200	3.51	
EXT DRO >C28-C36	<10.0	10.0	09/26/2022	ND					
Surrogate: 1-Chlorooctane	68.4	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	73.4	% 46.3-17	78						

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## **Notes and Definitions**

C 0.4	TI .		COLUMN TO A THE SECTION OF	1
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

ecovery.

BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.

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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# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(575) 393-2326 FAX (575) 393-2476	(575) 393-2326 FAX (575) 393-2476			
Company Name: H&R Enterprises		BILL TO	ANA	ANALYSIS REQUEST
Project Manager: Michael Collier		P.O. #:		
Address:		Company: Cimarex Energy		
City:	State: Zip:	Attn: Laci Luig		
Phone #:	Fax #:	Address:		
Project #:	Project Owner: Cimarex Energy	City:		
Project Name: Vaca Draw 20-17 Federal 9H (Vaca)	I 9H (Vaca)	State: Zip:		
Project Location: Lea County, NM		Phone #:		
Sampler Name: Roy Bell		Fax#:		
ATMO JIST BYT BOJ	MATRIX	X PRESERV. SAMPLING	NG	
Lab I.D.	S ER			
Sample I.D.	G)RAB OR (C)C CONTAINERS ROUNDWATE WASTEWATER	THER: CID/BASE: CE / COOL THER:	BTEX  TPH  Chlorides	
RH-1 0-1	1 ×	X	X X X	
7 BH-1 2'	-		-	
3 BH-1 3'				
← BH-2 0-1"				
⟨ BH-2 2'				
7 BH-2 3'				
S BH-2 4'				
9 BH-3 0-1'				
// BH-3 2* PLEASE NOTE: Liability and Danuages. Carditud's sublinguated observations and Cardinal be liable for incidental or consequential demagns award shall Cardinal be liable for incidental or consequential demagns.	10 BH-3 2'  PALASE ROTE: Liability and Demonstra. Consequential duranges, including without institute to base in consequence or tox, data in should be to execute paid by the clear to the a service paid by the clear to the cl	alysin. All claims	including those for regispence and any other cause what	somer shall be deemed waised unless made in writing and received by Cardinal within 30 days after
Relinquished By:	Deta: 23-22 Received By	2	Verbal Result: ☐ Yes ☐ No ☐ Add'i Phr Alj Results are emailed. Please provide Email address:	Add'i Phone 8: nail address:
Relipquished By:	Date: Received By:	7	REMARK 72 HR RUS	Eus H
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Connected Temp. "C 5, 3 Sample Condition Cool Intact 7 Rep. "C 4, 7 Rep. Rep. Rep. Rep. Rep. Rep. Rep. Rep.	CHECKED BY: (Initials)	Tensecund Trac: Standard Bachris (ovly)  Resil Cool Inter: Observed Temp. 'C.  Thermometer ID #113  Correction Factor -0.5°C	*C



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(575) 393-	(575) 393-2326 FAX (575) 393-2476		73		THE WAS DECLIEDED
Company Name: H&K Enterprises		BILL 10		-	ANALIGIO DEGOLO:
Project Manager: Michael Collier		F.O. #:			
Address:		Company: Cimarex Energy	у	_	
City:	State: Zip:	Attn: Laci Luig		_	
Phone #:	Fax #:	Address:		_	
Project #:	Project Owner: Cimarex Energy	City:			
Project Name: Vaca Draw 20-17 Federal 9H (Vaca)	al 9H (Vaca)	State: Zip:			
Project Location: Lea County, NM		Phone #:			
Sampler Name: Roy Bell		Fax #:			
NOW THE ROSE ONTA	MATRIX	PRESERV. SAME	SAMPLING		
Lab I.D. Sample I.D.	B OR (C)OMP. ITAINERS INDWATER EWATER	BASE: COOL R:		I orides	
H224139	# CO		TIME	TP	
// BH-3 3'	G 1 X	x 4-11-12	X	X	
/2 BH-3 4'			-		
14 BH-4 2'					
/ S BH-4 3'					
/6 BH-5 0-1					
7 BH-5 2'					
/ 8 BH-5 3'			-		
/9 BH-5 4'					
PLEASE NOTE: Liability and Dumages. Cardinal's fability and client's end-	exclusive remesty for any claims actually existing to board in contract or fort, shall be limited to that are	neart paid by the client for the artifyses. All claims cured by client, its subsidiaries.	ms including those for negligence and any other cause	e and any other cause whatso	sever shall be deemed valued unlast made in writing and received by Cardinal within 30 days after o
Relinquished By:	Relinquished By:  Date: 3-72 Received By:		Verbal Result: ☐ Yes ☐ No	☐ Yes ☐ No nailed. Please provide	Add'l Phone #: e Email address:
hash	Time; 535 101110	MYCOON IN			
Religional Shed By:	Date: Received By:		REMARK: 77	72 HR RWSH	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. *C 5, 5 Sample Condition Corrected Temp. *C 4, 7 Cool Intact  Cool Intact	CHECKED BY: (Initials)	Rush Cool intect Thermometer ID #113 Correction Factor -0.5°C	d Observ	Bucteria (cohy) Sampiè Condition ed Temp.*C
FORM-006 R 3.2 10/07/21		changes. Please email char	nges to celey,keens	@cardinallabsnr	m.com
FORM-006 R 3.2 10/07/21	† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com	changes. Please email char	Correction Factor -0.5	@cardinallabsnn	No Corrected Temp

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# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: H&R Enterprises	Enterprises		BILL TO		ANALTSIS REQUEST	
Project Manager: Michael Collier	ael Collier		P.O.#:			
Address:			Company: Cimarex Energy			
City:	State:	Zip:	Attn: Laci Luig			
Phone #:	Fax#:		Address:			
Project #:	Project O	Project Owner: Cimarex Energy	City:			
Project Name: Vaca Dr	Project Name: Vaca Draw 20-17 Federal 9H (Vaca)		State: Zip:			
Project Location: Lea County, NM	County, NM		Phone #:			
Sampler Name: Roy Bell	ell		Fax#:			
FOR IAB USE ONLY		MATRIX	PRESERV. SAMPLING	ING		
Lab I.D.		R	1			
	Sample I.D.	AB OR (C)(C)(C) NTAINERS UNDWATE CEWATER	R: BASE: COOL		orides	
1774438		# COI	OTHE	BT	Chi	
-	BH-5 8'	1 X		X X	X	
100	BH-5 10'		-			
	BH-6 0-1'					
_	BH-6 2'					
)	BH-6 3'					
`	BH-6 4'					
27 ВН	BH-6 6'					
4	BH-6 8'					
29 BH	BH-6 10'	-	-	-		
PLEASE NOTE: Liability and Damugas.  event shall Cardinal be flable for incide affiliates or successions arising out of o	R_BASE HOTE: Liabilly and Demagna. Cestimat's initiality and disert's exclusion records for way inlies unlong elementary location in record as the control product of the embed to be an explicated or consumptants of samples, including whether initialities are injuried to injury and of the embedded of the professionation of the embedded in the embedded in the professionation of the embedded in the embedded in the professionation of the embedded in th	ibether based in contract or loot, whalf ha limited to the or siness interruptions, loss of use, or loss of profits for , regardless of whether such claim is based upon a	mount paid by the offset for the analysies. All claims curred by client, its subaddantes. my of the above stated ressure or otherwise.	including those for regigence and any other cause with	ESPONSE PARTY CAN COMMUNICATIONS AND	
Relinquished By:	Time:	Received By:	1	Verbal Result: ☐ Yes ☐ No Add'l Ph. All Results are emailed. Please provide Email address:	No Add'i Phone #: provide Email address:	
Reliagershed By:	Date: Time:	Racgived By:	Can my	REMARK: 72 HR RUSH	40	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	e) Observed Temp. "C Other: Corrected Temp. "C	S.3 Sample Condition Cool Mate: 47 D/w D/w 1 wo 1 wo	on CHECKED BY: (Initials)	Tenanoual Ties: Standard Consecution Code Hact Obese Contraction Factor -0.5°C	Bacteria (only) Sample Condition	Corrected Temp. *C



June 01, 2023

MICHAEL COLLIER
H & R ENTERPRISES
1010 GAMBLIN ROAD
HOBBS, NM 88240

RE: VACA DRAW 20-17 FEDERAL #012H (VACA)

Enclosed are the results of analyses for samples received by the laboratory on 05/26/23 10:50.

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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



## Analytical Results For:

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

Received: 05/26/2023 Reported:

06/01/2023

VACA DRAW 20-17 FEDERAL #012H (VA NONE GIVEN

Project Number:

Project Name:

Project Location: CIMAREX - LEA CO NM Sampling Date: 05/25/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

# Sample ID: BH - 7 0-1' (H232692-01)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/26/2023	ND	1.98	98.8	2.00	1.43	
Toluene*	<0.050	0.050	05/26/2023	ND	2.06	103	2.00	1.84	
Ethylbenzene*	<0.050	0.050	05/26/2023	ND	1.96	98.0	2.00	2.49	
Total Xylenes*	<0.150	0.150	05/26/2023	ND	6.07	101	6.00	3.43	
Total BTEX	<0.300	0.300	05/26/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/26/2023	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/26/2023	ND	198	98.9	200	1.93	
DRO >C10-C28*	<10.0	10.0	05/26/2023	ND	215	108	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	05/26/2023	ND					
Surrogate: 1-Chlorooctane	104	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	124	% 49.1-14	8						

A ..... d D. ... 311 /

#### Cardinal Laboratories \*=Accredited Analyte

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

Celeg D. Keene



## Analytical Results For:

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

Received: 05/26/2023 Reported: 06/01/2023

VACA DRAW 20-17 FEDERAL #012H (VA

Project Number: NONE GIVEN

Project Location: CIMAREX - LEA CO NM

ma/ka

Sampling Date: 05/25/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

# Sample ID: BH - 7 2' (H232692-02)

Project Name:

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	a By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/26/2023	ND	1.98	98.8	2.00	1.43	
Toluene*	<0.050	0.050	05/26/2023	ND	2.06	103	2.00	1.84	
Ethylbenzene*	<0.050	0.050	05/26/2023	ND	1.96	98.0	2.00	2.49	
Total Xylenes*	<0.150	0.150	05/26/2023	ND	6.07	101	6.00	3.43	
Total BTEX	<0.300	0.300	05/26/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/26/2023	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/26/2023	ND	198	98.9	200	1.93	
DRO >C10-C28*	<10.0	10.0	05/26/2023	ND	215	108	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	05/26/2023	ND					
Surrogate: 1-Chlorooctane	96.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	113	% 49.1-14	8						

Analyzed By: 1H /

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Celey D. Keene



### Analytical Results For:

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

Received: 05/26/2023 Reported:

06/01/2023 VACA DRAW 20-17 FEDERAL #012H (VA

Project Name: Project Number: NONE GIVEN

Project Location: CIMAREX - LEA CO NM Sampling Date: 05/25/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

# Sample ID: BH - 7 3' (H232692-03)

BTEX 8021B	mg/	'kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/26/2023	ND	1.98	98.8	2.00	1.43	
Toluene*	<0.050	0.050	05/26/2023	ND	2.06	103	2.00	1.84	
Ethylbenzene*	<0.050	0.050	05/26/2023	ND	1.96	98.0	2.00	2.49	
Total Xylenes*	<0.150	0.150	05/26/2023	ND	6.07	101	6.00	3.43	
Total BTEX	<0.300	0.300	05/26/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/26/2023	ND	400	100	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/26/2023	ND	198	98.9	200	1.93	
DRO >C10-C28*	<10.0	10.0	05/26/2023	ND	215	108	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	05/26/2023	ND					
Surrogate: 1-Chlorooctane	109 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	130 9	% 49.1-14	8						

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Celey D. Keene



### Analytical Results For:

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

Received: 05/26/2023 Reported: 06/01/2023

06/01/2023 VACA DRAW 20-17 FEDERAL #012H (VA

mg/kg

Project Name: VACA DRAW : Project Number: NONE GIVEN

Project Location: CIMAREX - LEA CO NM

Sampling Date: 05/25/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

# Sample ID: BH - 7 4' (H232692-04)

BTEX 8021B

	9/	9	7	7: 5::.,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/26/2023	ND	1.98	98.8	2.00	1.43	
Toluene*	<0.050	0.050	05/26/2023	ND	2.06	103	2.00	1.84	
Ethylbenzene*	<0.050	0.050	05/26/2023	ND	1.96	98.0	2.00	2.49	
Total Xylenes*	<0.150	0.150	05/26/2023	ND	6.07	101	6.00	3.43	
Total BTEX	<0.300	0.300	05/26/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/26/2023	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/26/2023	ND	198	98.9	200	1.93	
DRO >C10-C28*	<10.0	10.0	05/26/2023	ND	215	108	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	05/26/2023	ND					
Surrogate: 1-Chlorooctane	103	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	122	% 49.1-14	8						

Analyzed By: JH/

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



### **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celeg D. Freene

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



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: H&R Enterprises	I&R Enterprises		- 1				- 1					BI	5	BILL TO		-			A	ANALYSIS REQUEST	S	EQ	EST						
Project Manager: Michael Collier	Michael Collier								P.C	P.O. #:								1	1	+	+	4				-			
Address:			- 1				- 1		S	mpa	ny:	Cin	are	Company: Cimarex Energy	rgy					_	_					_			_
City:	State:	Zip:	8						Att	Attn: Laci Luig	aci	Ei.		1						_	_	_				_			_
Phone #:	Fax#:		-1						Ad	Address:										_	_								_
Project #:	Project Owner: Cimarex Energy	wner: 0	ima	rex	Ene	rgy		- 1	City:	×	- [		- 1	1				_		_						_			_
roject Name: Vac	Project Name: Vaca Draw 20-17 Federal #012H (Vaca)								State:	e:			Zip:					_		_						_			_
Project Location: Lea County, NM	ea County, NM								Ph	Phone #:	#	-						_		_	_					_			_
Sampler Name: R. Bell	Bell					1	-		Fax #:	#											_					_			
FOR LAB USE ONLY		-	٦	П	П	MA	MATRIX		Ļ	PRESERV.	SER\			SAM	SAMPLING					-						-			
4722182		G)RAB OR (C)OMP.	CONTAINERS	ROUNDWATER	ASTEWATER	OIL	IL	LUDGE	THER:	CID/BASE:	E / COOL	THER:	,	7		STEX	РН	Chlorides											
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AND HOUSE LINES OF THE PARTY OF											H	$\square$							П	Н	H	$\Box$				H	$\Box$		++
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Relinquished By:	Date: 20-23	Received By	ceive	ad B	1/4		9	7	1	11	M	11/1	1	8/	Verbal Result: ☐ Yes ☐ No All Results are emailed. Please provide Email	☐ Yes	d. Plea	□ No	/ide Em		Add'I Phone #: address:	**							
Relinquished By:	Date:	R	Received By:	8	×	8		-	1	4		R	1	1	REMARKS: PG,1 of	303	53	7	200	32	3	A	7	Sa	Sample	TO	H	30	5
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	One) Observed Temp. °C Corrected Temp. °C	35		100	Cool	Sample Cond Cool Intact	Sample Condition Cool Infact	tion			유	(Initials)	CHECKED BY: (Initials)		Turnaround Time:	Standard Gool Intact	901	Bacteria (on Observed Temp. 'G	Bacteria (only) Samplered Temp. 'C	angle Con	3		-	R	9	1	+	1	10
						F   F	8			0	1	4	,	,	Thermometer ID #113 Correction Factor -0.5°C	#113					0 0	ON OSA OSA	Corre	Corrected Temp. 'C	ď				

Page 7 of 7



June 01, 2023

MICHAEL COLLIER
H & R ENTERPRISES
1010 GAMBLIN ROAD
HOBBS, NM 88240

RE: VACA DRAW 20-17 FEDERAL #012H (VACA)

Enclosed are the results of analyses for samples received by the laboratory on 05/26/23 10:50.

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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

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

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

Celey D. Keine

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



### Analytical Results For:

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

Received: 05/26/2023 Reported:

06/01/2023

VACA DRAW 20-17 FEDERAL #012H (VA

Project Number:

Project Name:

NONE GIVEN

Project Location: CIMAREX - LEA CO NM Sampling Date: 05/26/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

Sample ID: S - 1 1.5' (H232691-01)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/27/2023	ND	1.98	98.9	2.00	1.22	
Toluene*	< 0.050	0.050	05/27/2023	ND	1.96	98.2	2.00	2.48	
Ethylbenzene*	< 0.050	0.050	05/27/2023	ND	2.06	103	2.00	1.76	
Total Xylenes*	< 0.150	0.150	05/27/2023	ND	6.14	102	6.00	1.31	
Total BTEX	<0.300	0.300	05/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	768	16.0	05/26/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d 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	05/26/2023	ND	213	106	200	0.634	
DRO >C10-C28*	<10.0	10.0	05/26/2023	ND	226	113	200	1.83	
EXT DRO >C28-C36	<10.0	10.0	05/26/2023	ND					
Surrogate: 1-Chlorooctane	135 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	152 9	% 49.1-14	8						

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

Celey D. Keine



### Analytical Results For:

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

Received: 05/26/2023 Reported: 06/01/2023

06/01/2023 VACA DRAW 20-17 FEDERAL #012H (VA

Project Number: NONE GIVEN

Project Location: CIMAREX - LEA CO NM

Sampling Date: 05/26/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

# Sample ID: S - 2 1.5' (H232691-02)

Project Name:

BTEX 8021B	mg	/kg	Analyze	ed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/27/2023	ND	1.98	98.9	2.00	1.22	
Toluene*	<0.050	0.050	05/27/2023	ND	1.96	98.2	2.00	2.48	
Ethylbenzene*	<0.050	0.050	05/27/2023	ND	2.06	103	2.00	1.76	
Total Xylenes*	<0.150	0.150	05/27/2023	ND	6.14	102	6.00	1.31	
Total BTEX	<0.300	0.300	05/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	110	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	752	16.0	05/26/2023	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/26/2023	ND	213	106	200	0.634	
DRO >C10-C28*	<10.0	10.0	05/26/2023	ND	226	113	200	1.83	
EXT DRO >C28-C36	<10.0	10.0	05/26/2023	ND					
Surrogate: 1-Chlorooctane	128	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	147	% 49.1-14	18						

# Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



### Analytical Results For:

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

Received: 05/26/2023 Reported: 06/01/2023

06/01/2023

mg/kg

132 %

149 %

48.2-134

49.1-148

Project Name: VACA DRAW 20-17 FEDERAL #012H (VA Project Number: NONE GIVEN

Project Location: CIMAREX - LEA CO NM

Sampling Date: 05/26/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S - 3 1.5' (H232691-03)

BTEX 8021B

Surrogate: 1-Chlorooctane

Surrogate: 1-Chlorooctadecane

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/27/2023	ND	1.98	98.9	2.00	1.22	
Toluene*	<0.050	0.050	05/27/2023	ND	1.96	98.2	2.00	2.48	
Ethylbenzene*	<0.050	0.050	05/27/2023	ND	2.06	103	2.00	1.76	
Total Xylenes*	<0.150	0.150	05/27/2023	ND	6.14	102	6.00	1.31	
Total BTEX	<0.300	0.300	05/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Analyte Chloride	Result	Reporting Limit 16.0	Analyzed 05/26/2023	Method Blank	BS 416	% Recovery	True Value QC 400	RPD 0.00	Qualifier
•		16.0	05/26/2023			,	•		Qualifier S-04
Chloride	704	16.0	05/26/2023	ND		,	•		•
Chloride TPH 8015M	704 mg/	16.0 <b>/kg</b>	05/26/2023 Analyze	ND d By: MS	416	104	400	0.00	S-04
Chloride TPH 8015M Analyte	704 mg/ Result	16.0 /kg Reporting Limit	05/26/2023  Analyze  Analyzed	ND d By: MS  Method Blank	416 BS	104 % Recovery	400 True Value QC	0.00	S-04
Chloride TPH 8015M  Analyte GRO C6-C10*	704 mg/ Result <10.0	16.0  /kg  Reporting Limit 10.0	05/26/2023 <b>Analyze</b> Analyzed  05/26/2023	ND d By: MS  Method Blank  ND	416 BS 213	104 % Recovery 106	400  True Value QC 200	0.00 RPD 0.634	S-04

Analyzed By: JH/

Cardinal Laboratories \*=Accredited Analyte

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Celeg D. Keene



### Analytical Results For:

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

Received: 05/26/2023 Reported:

06/01/2023 VACA DRAW 20-17 FEDERAL #012H (VA

Project Name: Project Number: NONE GIVEN

Project Location: CIMAREX - LEA CO NM Sampling Date: 05/26/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

# Sample ID: S - 4 1.5' (H232691-04)

BTEX 8021B	mg/	'kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/27/2023	ND	1.98	98.9	2.00	1.22	
Toluene*	<0.050	0.050	05/27/2023	ND	1.96	98.2	2.00	2.48	
Ethylbenzene*	<0.050	0.050	05/27/2023	ND	2.06	103	2.00	1.76	
Total Xylenes*	<0.150	0.150	05/27/2023	ND	6.14	102	6.00	1.31	
Total BTEX	<0.300	0.300	05/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	816	16.0	05/26/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/26/2023	ND	198	98.9	200	1.93	
DRO >C10-C28*	<10.0	10.0	05/26/2023	ND	215	108	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	05/26/2023	ND					
Surrogate: 1-Chlorooctane	123 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	145	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



### Analytical Results For:

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

Received: 05/26/2023 Reported: 06/01/2023

06/01/2023 VACA DRAW 20-17 FEDERAL #012H (VA

Project Name: VACA DRAW : Project Number: NONE GIVEN

Project Location: CIMAREX - LEA CO NM

Sampling Date: 05/26/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

# Sample ID: S - 5 1.5' (H232691-05)

BTEX 8021B	mg	/kg	Analyze	ed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/27/2023	ND	1.98	98.9	2.00	1.22	
Toluene*	<0.050	0.050	05/27/2023	ND	1.96	98.2	2.00	2.48	
Ethylbenzene*	<0.050	0.050	05/27/2023	ND	2.06	103	2.00	1.76	
Total Xylenes*	<0.150	0.150	05/27/2023	ND	6.14	102	6.00	1.31	
Total BTEX	<0.300	0.300	05/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	110	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	896	16.0	05/26/2023	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/26/2023	ND	198	98.9	200	1.93	
DRO >C10-C28*	<10.0	10.0	05/26/2023	ND	215	108	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	05/26/2023	ND					
Surrogate: 1-Chlorooctane	118	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	140	% 49.1-14	8						

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Celey D. Keine



### Analytical Results For:

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

Received: 05/26/2023 Reported: 06/01/2023

06/01/2023 VACA DRAW 20-17 FEDERAL #012H (VA

Project Name: VACA DRAW : Project Number: NONE GIVEN

Project Location: CIMAREX - LEA CO NM

mg/kg

Sampling Date: 05/26/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

# Sample ID: S - 6 1.5' (H232691-06)

BTEX 8021B

DILX GOZID	11197	, kg	Allulyzo	a by. 5117					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/27/2023	ND	1.98	98.9	2.00	1.22	
Toluene*	<0.050	0.050	05/27/2023	ND	1.96	98.2	2.00	2.48	
Ethylbenzene*	<0.050	0.050	05/27/2023	ND	2.06	103	2.00	1.76	
Total Xylenes*	<0.150	0.150	05/27/2023	ND	6.14	102	6.00	1.31	
Total BTEX	<0.300	0.300	05/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	784	16.0	05/26/2023	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/26/2023	ND	198	98.9	200	1.93	
DRO >C10-C28*	<10.0	10.0	05/26/2023	ND	215	108	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	05/26/2023	ND					
Surrogate: 1-Chlorooctane	120	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	143	% 49.1-14	8						

Analyzed By: JH/

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



### Analytical Results For:

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

Received: 05/26/2023 Reported: 06/01/2023

06/01/2023 VACA DRAW 20-17 FEDERAL #012H (VA

Project Name: VACA DRAW : Project Number: NONE GIVEN

Project Location: CIMAREX - LEA CO NM

Sampling Date: 05/26/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

# Sample ID: S - 7 1.5' (H232691-07)

BTEX 8021B	mg	/kg	Analyze	ed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/27/2023	ND	1.98	98.9	2.00	1.22	
Toluene*	<0.050	0.050	05/27/2023	ND	1.96	98.2	2.00	2.48	
Ethylbenzene*	<0.050	0.050	05/27/2023	ND	2.06	103	2.00	1.76	
Total Xylenes*	<0.150	0.150	05/27/2023	ND	6.14	102	6.00	1.31	
Total BTEX	<0.300	0.300	05/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	800	16.0	05/26/2023	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/26/2023	ND	198	98.9	200	1.93	
DRO >C10-C28*	<10.0	10.0	05/26/2023	ND	215	108	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	05/26/2023	ND					
Surrogate: 1-Chlorooctane	117	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	140	% 49.1-14	8						

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

\*=Accredited Analyte



### Analytical Results For:

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

Received: 05/26/2023 Reported:

06/01/2023 VACA DRAW 20-17 FEDERAL #012H (VA

Project Name: Project Number: NONE GIVEN

Project Location: CIMAREX - LEA CO NM Sampling Date: 05/26/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

# Sample ID: S - 8 1.5' (H232691-08)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/27/2023	ND	1.98	98.9	2.00	1.22	
Toluene*	<0.050	0.050	05/27/2023	ND	1.96	98.2	2.00	2.48	
Ethylbenzene*	<0.050	0.050	05/27/2023	ND	2.06	103	2.00	1.76	
Total Xylenes*	<0.150	0.150	05/27/2023	ND	6.14	102	6.00	1.31	
Total BTEX	<0.300	0.300	05/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	912	16.0	05/26/2023	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/26/2023	ND	198	98.9	200	1.93	
DRO >C10-C28*	<10.0	10.0	05/26/2023	ND	215	108	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	05/26/2023	ND					
Surrogate: 1-Chlorooctane	123 :	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	147	% 49.1-14	8						

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Celey D. Keene



### Analytical Results For:

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

Received: 05/26/2023 Reported: 06/01/2023

06/01/2023 VACA DRAW 20-17 FEDERAL #012H (VA

mg/kg

Project Name: VACA DRAW : Project Number: NONE GIVEN

Project Location: CIMAREX - LEA CO NM

Sampling Date: 05/26/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

# Sample ID: S - 9 1.5' (H232691-09)

BTEX 8021B

DILX GOZID	ıııg,	, kg	Alldiyzo	.u Dy. 3117					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/27/2023	ND	1.98	98.9	2.00	1.22	
Toluene*	<0.050	0.050	05/27/2023	ND	1.96	98.2	2.00	2.48	
Ethylbenzene*	<0.050	0.050	05/27/2023	ND	2.06	103	2.00	1.76	
Total Xylenes*	<0.150	0.150	05/27/2023	ND	6.14	102	6.00	1.31	
Total BTEX	<0.300	0.300	05/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	864	16.0	05/26/2023	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed 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	05/26/2023	ND	198	98.9	200	1.93	
DRO >C10-C28*	<10.0	10.0	05/26/2023	ND	215	108	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	05/26/2023	ND					
Surrogate: 1-Chlorooctane	126	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	151	% 49.1-14	8						

Analyzed By: JH/

Cardinal Laboratories \*=Accredited Analyte

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Celeg D. Freene



### Analytical Results For:

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

Received: 05/26/2023 Reported: 06/01/2023

VACA DRAW 20-17 FEDERAL #012H (V/

Project Number: NONE GIVEN

Project Location: CIMAREX - LEA CO NM

mg/kg

Sampling Date: 05/26/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

# Sample ID: S - 10 1.5' (H232691-10)

Project Name:

BTEX 8021B

	9/	9	7	7: 5::.,					
Analyte	Analyte Result Reporting Limit Analyzed		Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/27/2023	ND	1.98	98.9	2.00	1.22	
Toluene*	<0.050	0.050	05/27/2023	ND	1.96	98.2	2.00	2.48	
Ethylbenzene*	<0.050	0.050	05/27/2023	ND	2.06	103	2.00	1.76	
Total Xylenes*	<0.150	0.150	05/27/2023	ND	6.14	102	6.00	1.31	
Total BTEX	<0.300	0.300	05/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	832	16.0	05/26/2023	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed 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	05/26/2023	ND	198	98.9	200	1.93	
DRO >C10-C28*	<10.0	10.0	05/26/2023	ND	215	108	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	05/26/2023	ND					
Surrogate: 1-Chlorooctane	124	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	150	% 49.1-14	8						

Analyzed By: JH/

Cardinal Laboratories \*=Accredited Analyte

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### Analytical Results For:

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

Received: 05/26/2023 Reported:

06/01/2023

VACA DRAW 20-17 FEDERAL #012H (VA

Project Number:

Project Name:

NONE GIVEN

Project Location: CIMAREX - LEA CO NM Sampling Date: 05/26/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

# Sample ID: S - 11 1.5' (H232691-11)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/27/2023	ND	1.98	98.9	2.00	1.22	
Toluene*	<0.050	0.050	05/27/2023	ND	1.96	98.2	2.00	2.48	
Ethylbenzene*	< 0.050	0.050	05/27/2023	ND	2.06	103	2.00	1.76	
Total Xylenes*	<0.150	0.150	05/27/2023	ND	6.14	102	6.00	1.31	
Total BTEX	<0.300	0.300	05/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 %	6 71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1020	16.0	05/26/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/26/2023	ND	198	98.9	200	1.93	
DRO >C10-C28*	<10.0	10.0	05/26/2023	ND	215	108	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	05/26/2023	ND					
Surrogate: 1-Chlorooctane	123 9	6 48.2-13	4						
Surrogate: 1-Chlorooctadecane	147 9	6 49.1-14	8						

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### Analytical Results For:

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

Received: 05/26/2023 Reported: 06/01/2023

VACA DRAW 20-17 FEDERAL #012H (V/

Project Number: NONE GIVEN

Project Location: CIMAREX - LEA CO NM

mg/kg

Sampling Date: 05/26/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

# Sample ID: S - 12 1.5' (H232691-12)

Project Name:

BTEX 8021B

	9,	9	7	7: 5::.,					
Analyte	alyte Result Reporting Limit Analyzed Method Blan		Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/27/2023	ND	1.98	98.9	2.00	1.22	
Toluene*	<0.050	0.050	05/27/2023	ND	1.96	98.2	2.00	2.48	
Ethylbenzene*	<0.050	0.050	05/27/2023	ND	2.06	103	2.00	1.76	
Total Xylenes*	<0.150	0.150	05/27/2023	ND	6.14	102	6.00	1.31	
Total BTEX	<0.300	0.300	05/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	864	16.0	05/26/2023	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed 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	05/26/2023	ND	198	98.9	200	1.93	
DRO >C10-C28*	<10.0	10.0	05/26/2023	ND	215	108	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	05/26/2023	ND					
Surrogate: 1-Chlorooctane	126	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	152	% 49.1-14	8						

Analyzed By: JH/

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### Analytical Results For:

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

Received: 05/26/2023 Reported: 06/01/2023

VACA DRAW 20-17 FEDERAL #012H (VA

Project Name: Project Number: NONE GIVEN

Project Location: CIMAREX - LEA CO NM Sampling Date: 05/26/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

# Sample ID: S - 13 1.5' (H232691-13)

BTEX 8021B	B mg/kg Analyzed By: JH/								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/27/2023	ND	1.98	98.9	2.00	1.22	
Toluene*	<0.050	0.050	05/27/2023	ND	1.96	98.2	2.00	2.48	
Ethylbenzene*	<0.050	0.050	05/27/2023	ND	2.06	103	2.00	1.76	
Total Xylenes*	<0.150	0.150	05/27/2023	ND	6.14	102	6.00	1.31	
Total BTEX	<0.300	0.300	05/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	992	16.0	05/26/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d 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	05/26/2023	ND	198	98.9	200	1.93	
DRO >C10-C28*	<10.0	10.0	05/26/2023	ND	215	108	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	05/26/2023	ND					
Surrogate: 1-Chlorooctane	137 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	166 9	% 49.1-14	8						

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### Analytical Results For:

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

Received: 05/26/2023 Reported: 06/01/2023

VACA DRAW 20-17 FEDERAL #012H (VA

Project Name: VACA DRAW : Project Number: NONE GIVEN

Project Location: CIMAREX - LEA CO NM

Sampling Date: 05/26/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

# Sample ID: S - 14 1.5' (H232691-14)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/27/2023	ND	1.98	98.9	2.00	1.22	
Toluene*	<0.050	0.050	05/27/2023	ND	1.96	98.2	2.00	2.48	
Ethylbenzene*	<0.050	0.050	05/27/2023	ND	2.06	103	2.00	1.76	
Total Xylenes*	<0.150	0.150	05/27/2023	ND	6.14	102	6.00	1.31	
Total BTEX	<0.300	0.300	05/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1010	16.0	05/26/2023	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d 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	05/26/2023	ND	198	98.9	200	1.93	
DRO >C10-C28*	<10.0	10.0	05/26/2023	ND	215	108	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	05/26/2023	ND					
Surrogate: 1-Chlorooctane	123	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	150	% 49.1-14	8						

Applyzod By: 1H /

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### Analytical Results For:

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

Received: 05/26/2023 Reported:

06/01/2023

Project Name: VACA DRAW 20-17 FEDERAL #012H (VA

Project Number: NONE GIVEN

Project Location: CIMAREX - LEA CO NM Sampling Date: 05/26/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

Sample ID: SW - 1 1.5' (H232691-15)

BTEX 8021B

	9/	9	7	= 7. 5,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/27/2023	ND	1.98	98.9	2.00	1.22	
Toluene*	<0.050	0.050	05/27/2023	ND	1.96	98.2	2.00	2.48	
Ethylbenzene*	<0.050	0.050	05/27/2023	ND	2.06	103	2.00	1.76	
Total Xylenes*	<0.150	0.150	05/27/2023	ND	6.14	102	6.00	1.31	
Total BTEX	<0.300	0.300	05/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	05/26/2023	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/26/2023	ND	198	98.9	200	1.93	
DRO >C10-C28*	<10.0	10.0	05/26/2023	ND	215	108	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	05/26/2023	ND					
Surrogate: 1-Chlorooctane	115 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	145	% 49.1-14	8						

Analyzed By: JH/

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### Analytical Results For:

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

Received: 05/26/2023 Reported: 06/01/2023

06/01/2023 VACA DRAW 20-17 FEDERAL #012H (VA

Project Name: VACA DRAW : Project Number: NONE GIVEN

Project Location: CIMAREX - LEA CO NM

Sampling Date: 05/26/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

# Sample ID: SW - 2 1.5' (H232691-16)

BTEX 8021B	mg	/kg	Analyze	ed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/27/2023	ND	1.98	98.9	2.00	1.22	
Toluene*	<0.050	0.050	05/27/2023	ND	1.96	98.2	2.00	2.48	
Ethylbenzene*	<0.050	0.050	05/27/2023	ND	2.06	103	2.00	1.76	
Total Xylenes*	<0.150	0.150	05/27/2023	ND	6.14	102	6.00	1.31	
Total BTEX	<0.300	0.300	05/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	05/26/2023	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/26/2023	ND	198	98.9	200	1.93	
DRO >C10-C28*	<10.0	10.0	05/26/2023	ND	215	108	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	05/26/2023	ND					
Surrogate: 1-Chlorooctane	117	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	138	% 49.1-14	18						

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### Analytical Results For:

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

Received: 05/26/2023 Reported:

06/01/2023

Project Name: VACA DRAW 20-17 FEDERAL #012H (VA Project Number: NONE GIVEN

Project Location: CIMAREX - LEA CO NM Sampling Date: 05/26/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

# Sample ID: SW - 3 1.5' (H232691-17)

TEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/27/2023	ND	1.98	98.9	2.00	1.22	
Toluene*	<0.050	0.050	05/27/2023	ND	1.96	98.2	2.00	2.48	
Ethylbenzene*	<0.050	0.050	05/27/2023	ND	2.06	103	2.00	1.76	
Total Xylenes*	<0.150	0.150	05/27/2023	ND	6.14	102	6.00	1.31	
Total BTEX	<0.300	0.300	05/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	05/26/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d 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	05/26/2023	ND	198	98.9	200	1.93	
DRO >C10-C28*	<10.0	10.0	05/26/2023	ND	215	108	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	05/26/2023	ND					
Surrogate: 1-Chlorooctane	131 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	160 9	% 49.1-14	8						

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### Analytical Results For:

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

Received: 05/26/2023 Reported:

06/01/2023

Project Name: Project Number: NONE GIVEN

Project Location:

VACA DRAW 20-17 FEDERAL #012H (VA

125 %

151 %

48.2-134

49.1-148

CIMAREX - LEA CO NM

Sampling Date: 05/26/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

Sample ID: SW - 4 1.5' (H232691-18)

BTEX 8021B

Surrogate: 1-Chlorooctane

Surrogate: 1-Chlorooctadecane

Analyte	Result	Reporting Limit	Analyzed	Method Blank		% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/27/2023	/27/2023 ND		98.9	2.00	1.22	
Toluene*	<0.050	0.050	05/27/2023	ND	1.96	98.2	2.00	2.48	
Ethylbenzene*	<0.050	0.050	05/27/2023	ND	2.06	103	2.00	1.76	
Total Xylenes*	<0.150	0.150	05/27/2023	ND	6.14	102	6.00	1.31	
Total BTEX	<0.300	0.300	05/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 5	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Analyte Chloride	Result	Reporting Limit	Analyzed 05/26/2023	Method Blank	BS 416	% Recovery	True Value QC 400	RPD 0.00	Qualifier
•		16.0	05/26/2023			•	·		Qualifier S-04
Chloride	384	16.0	05/26/2023	ND		•	·		-
Chloride TPH 8015M	384 mg/	16.0 <b>'kg</b>	05/26/2023 Analyze	ND d By: MS	416	104	400	0.00	S-04
Chloride TPH 8015M Analyte	384 mg/ Result	16.0  (kg  Reporting Limit	05/26/2023  Analyze  Analyzed	ND d By: MS  Method Blank	416 BS	104 % Recovery	400 True Value QC	0.00	S-04
Chloride TPH 8015M  Analyte GRO C6-C10*	384 mg/ Result <10.0	16.0  Reporting Limit  10.0	05/26/2023 <b>Analyze</b> Analyzed  05/26/2023	ND d By: MS  Method Blank  ND	416 BS 198	104 % Recovery 98.9	400  True Value QC 200	0.00 RPD 1.93	S-04

Analyzed By: JH/

Cardinal Laboratories \*=Accredited Analyte

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Celeg D. Keine



### **Notes and Definitions**

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene



101 East Marland, Hobbs, NM 88240

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Relinquished By:  Relinquished By:  Date:  Received By:  Received By:	Relinquished By:	affiliates or successors arising out of or related to the performance	PLEASE NOTE: Labelly and Danielpes, Cardina's labelly and clerif's each	60	9 8-9 1.5	S-8 1.5'	6 8-6 1.5	S-5 1.5'	4 84 15	3 8-3 1.5	2 8-2 1.5'	i S-1 1.5'	Lab I.D.  H233291	2001481200000000000000000000000000000000	Sampler Name: R. Bell	Project Location: Lea County, NM	Project Name: Vaca Draw 20-17 Federal #012H (Vaca)	Project #:	Phone #:	City:	Address:	Project Manager: Michael Collier	Company Name: H&R Enterprises	(575) 39
Observed Temp. °C S 6 Corrected Temp. °C S 0	Date: Re	1 Sate: 24-23 Rec	mechanis immely for any stain among nonder travel is no get, including without limitation, business interruption a of services hereunder by Cerdinal, regardless of w									С	(G)RAB OR (C)OMP.				ral #012H ( Vaca)	Project Owner: Cimarex Energy	Fax#:	State: Zip:				(575) 393-2326 FAX (575) 393-2476
Sample Condition Cool Jutact  Cool Jutact  No No No	Received By:	Received By	a commun or not, south a invalid to the amount just by time pittons, loss of use, or loss of profits incurred by cliefot, of whether such cliem is based upon any of the stone									X	# CONTAINERS  GROUNDWATER  WASTEWATER  SOIL  OIL  ATRIX					imarex Energy		×				60
ion CHECKED BY: (Initials)	, 8	in Malah	recurred by clerk, its subsidiaries.  Any of the above stated reasons or offered										OTHER:  ACID/BASE:  ICE / COOL  OTHER:		Fax#:	Phone #:	State: Zip:	City:	Address:	Attn: Laci Luig	Company: Cimarex Energy	P.O. #:	BILL TO	
Transound Time: Standar  Rose Cod Into  Thermometer ID #113  Correction Factor -0.5°C	REMARKS: PG 1 of 2	Nerbal Result:   All Results are emailed.	to the state of the color of th									123	SAMPLING TIME								Energy		0	
2 4		0. 65	- Same									XX	BTEX	_					_		_			
Bacteris (not Observed Temp. 'G	72HR RUSH	Please provide	0.00			-				_	1	X	TPH Chlorides	_	_									
6y) Sample Conditi		Add'l Phone #:  de Email address:	SERVICES OF SERVICES	-										_	_						_		ANALYSIS REQUEST	
OF CONNECTED Temps, 'C		ne #:	de company of property of company	made in writing and appare																			REQUEST	
				Continue with 30 days after comp																				

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# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Project Manager Wilder Chiefprises	3	BILL TO	AN	ANALYSIS REQUEST
Address:		P.O.#:		THE COLOR
City:		Company: Cimarex Energy	_	
Phone #:	State: Zip:	Attn: Laci Luig		
Project #:		Address:		
Project Name: Vaca Draw 20-17 Federal #012H (Vaca)	ederal #012H (Vaca)			
Project Location: Lea County, NM		State: Zip:		
The state of the s		Phone #:		
Sampler Name: R. Bell		Fax#:	_	
OF THE COURT OF TH	MATRIX		_	
Lab I.D.	MP.	PRESERV. SAMPLING		
	AB OR (C)OMI NTAINERS JINDWATER TEWATER	BASE:	X rides	
11 00000	# C	_	BT	
12 8-12 15		x Shales	XX	
2 6 13 15			_	
48-14-15				
SW-1 1-8				
17 SW-3 1.5'				
/8 SW-4 1.5'				
Publis 1907E: Ladely and Davagas. Chedrain's ladely and delen's equi- eran's east Chedrail to allow for Problemat or consequented davagas, efficies or soccessors estimp out of or related to the performance of	ent'h estivate mened fer any siden andreg vitente it soomesid er sor, dealt an andaed te ten ensur judi te feu dealt te andaed te te ensur judi te feu dealt te ensur judi te feu dealt te en andaed te te ensur judi te feu dealt te en antajena. All dealt an beste feu dealt te en antajena. All dealt an beste feu dealt te en antajena. All dealt an beste dealt plan and of the access dated dealtes on dealter access de dealte	5	including those for negligation and any other cause virtualscener sho	of the downted valued unless made in writing and received by Cardinal within 30 days.
Reprinquished By:	Date: Received By:	1	Werbal Result: ☐ Yes ☐ No All Bresults are emailed. Please provide Email REMARKS: PG 2 of 2 17 THR RUSH	Add'  Phone #;   address:
B. D. D.	Time:	- Control of the Cont	S. F. G. A. OLA.	
Sampler - UPS - Bus - Other:	Observed Temp. 'C S. C Sample Condition Cool Infract  Cool Infract  Cool Infract  If 'va   4 va	CHECKED BY: Tunasound Tree. (Initials) Read Correction Fac	Turnavord Time: Standard Backets (coly) Samples  Read: Col Index: Claserved Temp. 'C  Thermometer ID #113  Correction Factor - 0.5°C	to Caudidizer

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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

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 233019

# **CONDITIONS**

Operator:	OGRID:
CIMAREX ENERGY CO.	215099
6001 Deauville Blvd	Action Number:
Midland, TX 79706	233019
	Action Type:
	[C-141] Release Corrective Action (C-141)

### CONDITIONS

Created By	Condition	Condition Date
jharimon	Final remediation and reclamation shall take place in accordance with 19.15.29.12 and 19.15.29.13 NMAC once the site is no longer being used for oil and gas operations.	8/18/2023