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Remediation and Closure Report

State 1 #002
Incident# nAPP2221573389
Lea County, New Mexico

Prepared For:

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

Prepared By:

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

October 06, 2022

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

Subject: **Remediation ation and Closure Report**
State 1 #002
Lea County, NM

Dear Mrs. Nobui,

Cimarex Energy Co. of Colorado 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 reclamation activities are contained herein.

Site Information

The State 1 #002 is located approximately 28.3 miles Northwest of Jal, New Mexico. The legal location for this release is Unit Letter B, Section 2, Township 24 South and Range 34 East in Lea County, New Mexico. More specifically the latitude and longitude for the release are 32.25191 North and -103.43868 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 fine sands 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

According to The New Mexico Office of the State Engineer web site there no current groundwater data in the vicinity of the release location. Due to no groundwater data being available, an exploratory water bore was done on the reclaimed State 1 #001 location 0.5-miles to the Southwest on September 13, 2022. See Water Bore Map and Soil Bore Log in [Appendix II](#) for reference. The water bore was drilled to a depth of 55-feet BGS. No groundwater was present on the day of drilling, nor was groundwater present when gauging was performed 72-hours later on September 16, 2022.

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	>50 Feet/BGS
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<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Within 300 feet of any continuously flowing watercourse or any other significant watercourse
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Within 200 feet of any lakebed, sinkhole, or a playa lake
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Within 300 feet from an occupied permanent residence, school, hospital, institution, or church
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Within 500 feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Within 1000 feet of any freshwater well or spring
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Within incorporated municipal boundaries or within a defined municipal freshwater well field covered under a municipal ordinance adopted pursuant to Section 3-2703 NMSA 1978
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Within 300 feet of a wetland
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Within the area overlying a subsurface mine
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Within an unstable area
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Within a 100-year floodplain

As this is a remediation in an area with a depth to groundwater of greater than 50-feet BGS, the closure criteria for this site are as follows:

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

Incident Description

On August 08, 2022, it was discovered that 75 barrels (bbls) of crude oil was released into the gravel-lined containment due to a hole in the bottom of the production tank. 0 bbls were recovered.

Site Assessment and Remediation Activities

On August 16, 2022, H&R mobilized personnel to begin site assessment and sampling activities of the release area. Grab samples were obtained by way of hand auger in the release area. Samples were transported to Cardinal Laboratories for analysis. The results of that analysis are presented in the following table. Initial site assessment sampling locations are illustrated on Site Assessment Map, [Appendix I](#). Based on the results from our assessment, further sampling was needed for delineation. On September 13, 2022, delineation samples were obtained by way of air rotary drill and transported to Cardinal Laboratories for analysis. The results of that analysis are presented in Table 2. Bore hole locations can be found on Bore Hole Map in [Appendix I](#). Complete laboratory reports can be found in [Appendix V](#).

Table 1: Initial Assessment Soil Samples Analysis

Sample ID	Sample Date	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
NMOCD Table 1 Closure Criteria 19.15.29 NMAC			50 mg/kg	10 mg/kg	1000 mg/kg		2500 mg/kg	2500 mg/kg	mg/kg
S-1	8/16/2022	0-1'	ND	ND	ND	ND	ND	0	32
		2'	ND	ND	ND	ND	ND	0	32
		3'	ND	ND	ND	ND	ND	0	16
		4'	ND	ND	ND	ND	ND	0	32
S-2	8/16/2022	0-1'	287	0.431	4550	9200	257	14007	32
		2'	26.5	ND	309	1050	39.4	1398.4	16
		3'	3.39	ND	35.3	214	13.6	262.9	16
		4'	ND	ND	36.4	329	ND	365.4	64
S-3	8/16/2022	0-1'	438	ND	11500	21100	498	33098	16
		2'	229	ND	4040	7630	203	11873	32
		3'	364	ND	5320	7430	184	12934	32
		4'	5.01	ND	185	678	15.2	878.2	16
S-4	8/16/2022	0-1'	632	5.35	9850	6860	ND	16710	16
		2'	580	4.52	11400	8080	163	19643	32
		3'	547	4.43	12400	9500	200	22100	16
		4'	499	4.03	8200	6370	136	14706	16
S-5	8/16/2022	0-1'	579	3.32	8640	8640	172	17452	80
		2'	712	8.18	14300	9490	195	23985	ND
		3'	735	9.05	17000	11200	182	28382	ND
		4'	908	11.2	13500	9110	159	22769	16
S-6	8/16/2022	0-1'	850	5.22	18400	16600	324	35324	16
		2'	557	3.44	8870	8020	193	17083	ND
		3'	575	4.07	12900	10900	206	24006	ND
		4'	582	3.74	12800	11000	193	23993	ND
S-7	8/16/2022	0-1'	ND	ND	20.7	ND	ND	20.7	16
		2'	ND	ND	ND	ND	ND	0	16
		3'	ND	ND	ND	ND	ND	0	16
		4'	ND	ND	ND	ND	ND	0	16
BG	8/16/2022	0-1'	0.971	ND	ND	ND	ND	0	16

ND = Analyte Not Detected BG = Background

Table 2: Bore Hole Soil Samples Analysis

Sample ID	Sample Date	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
NMOCD Table 1 Closure Criteria 19.15.29 NMAC			50 mg/kg	10 mg/kg	1000 mg/kg		2500 mg/kg	2500 mg/kg	10,000mg/kg
BH-1	9/13/2022	5'	ND	ND	ND	ND	ND	0	32
		10'	ND	ND	ND	ND	ND	0	64
		15'	ND	ND	ND	ND	ND	0	32
		20'	ND	ND	ND	69.2	ND	69.2	32
BH-2	9/13/2022	5'	ND	ND	ND	46.3	ND	46.3	16
		10'	ND	ND	ND	ND	ND	0	16
		15'	ND	ND	ND	ND	ND	0	16
		20'	ND	ND	ND	40.1	ND	40.1	32
BH-3	9/13/2022	5'	235	1.36	3690	6120	157	9967	32
		10'	101	0.745	1290	2690	49.5	4029.5	32
		15'	256	0.984	5340	10800	187	16327	16
		20'	56.8	ND	1030	5110	146	6286	16
		25'	0.586	ND	11.3	338	ND	349.3	32
		30'	ND	ND	ND	140	ND	140	16
		35'	ND	ND	ND	201	ND	201	16
		40'	ND	ND	ND	75.9	ND	75.9	ND
BH-4	9/13/2022	5'	90.5	ND	1820	4060	86.7	5966.7	ND
		10'	ND	ND	ND	60.7	ND	60.7	32
		15'	ND	ND	ND	ND	ND	0	32
		20'	ND	ND	ND	28.7	ND	28.7	32
BH-5	9/13/2022	5'	165	0.359	1910	4480	137	6527	32
		10'	98.3	0.573	735	2830	92.4	3657.4	32
		15'	5.29	ND	137	688	25.7	850.7	32
		20'	5.72	ND	91.4	360	10.9	462.3	48
		25'	ND	ND	ND	56.9	ND	56.9	32
		30'	ND	ND	ND	26.8	ND	26.8	32
		35'	ND	ND	ND	18.2	ND	18.2	32
		40'	0.351	ND	ND	33.6	ND	33.6	32

ND = Analyte Not Detected BH = Bore Hole

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

Table 3: Confirmation Soil Sample Analysis

Sample ID	Sample Date	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
NMOCD Table 1 Closure Criteria 19.15.29 NMAC			50 mg/kg	10 mg/kg	1000 mg/kg		2500 mg/kg	2500 mg/kg	10000 mg/kg
S-1	9/29/2022	5'	ND	ND	ND	32.6	S-8	32.6	48
S-2	9/29/2022	5'	ND	ND	21.9	585	16.3	623.2	80
S-3	9/29/2022	5'	0.442	ND	15.4	265	ND	280.4	32
S-4	9/29/2022	10'	ND	ND	ND	26.6	ND	26.6	32
S-5	9/29/2022	10'	ND	ND	ND	ND	ND	0	64
S-6	9/29/2022	15'	ND	ND	ND	ND	ND	0	48
S-7	9/29/2022	15'	ND	ND	ND	ND	ND	0	32
S-8	9/29/2022	25'	ND	ND	ND	46	ND	46	32
S-9	9/29/2022	25'	ND	ND	ND	32	ND	32	64
S-10	9/29/2022	25'	2.37	ND	47.8	326	ND	373.8	32
S-11	9/29/2022	25'	2.29	ND	53.1	411	ND	464.1	32
SW-1	9/29/2022	5'	ND	ND	ND	141	ND	141	48
SW-2	9/29/2022	5'	ND	ND	ND	145	ND	145	48
SW-3	9/29/2022	5'	ND	ND	ND	13	ND	13	32
SW-4	9/29/2022	10'	ND	ND	ND	46.4	ND	46.4	112
SW-5	9/29/2022	10'	ND	ND	ND	ND	ND	0	32
SW-6	9/29/2022	15'	ND	ND	ND	ND	ND	0	48
SW-7	9/29/2022	15'	ND	ND	ND	ND	ND	0	ND
SW-8	9/29/2022	25'	ND	ND	ND	33.2	ND	33.2	16
SW-9	9/29/2022	25'	ND	ND	ND	37.5	ND	37.5	32
SW-10	9/29/2022	25'	ND	ND	ND	ND	ND	0	160
SW-11	9/29/2022	25'	ND	ND	ND	40.7	ND	40.7	16
SW-12	9/29/2022	25'	2.15	ND	31.7	306	ND	337.7	16
SW-13	9/29/2022	25'	1.27	ND	31.3	318	ND	349.3	16
SW-14	9/29/2022	25'	2.04	ND	37.8	305	ND	342.8	ND
SW-15	9/29/2022	25'	1.72	ND	35.3	300	ND	335.3	112
BG-1	9/29/2022	0-1'	ND	ND	ND	ND	ND	0	Nd
BG-2	9/29/2022	0-1'	ND	ND	ND	ND	ND	0	ND
BG-3	9/29/2022	0-1'	ND	ND	ND	ND	ND	0	ND
BG-4	9/29/2022	0-1'	ND	ND	ND	ND	ND	0	ND

ND = Analyte Not Detected SW = Sidewall S- Composit Sample BG = Back Ground

Remedial Actions

- The impacted areas in the vicinity of sample points S-1 through S-3 were excavated to a total depth of 5-feet BGS.
- The impacted areas near sample points S-4 and S-5 were excavated to 10-feet BGS.
- The impacted areas near sample points S-6 and S-7 were excavated to 15-feet BGS.
- The impacted areas near sample points S-8 through S-11 were excavated to 25-feet BGS.
- Composite confirmation samples were obtained from the sidewalls and bottoms of the excavated areas to verify that all contaminants above closure criteria had been removed. The results are shown on Table 3 and the corresponding lab reports may be found in [Appendix V](#).
- All the excavated material (1,916yds) was hauled to NGL North Ranch, 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](#).
- Before, during, and after photographic documentation is attached in [Appendix IV](#).

Closure

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

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

Respectfully submitted,

H&R Enterprises, LLC



Michael Collier
Environmental Project Manager

Attachments:

Appendix I Site Maps

Appendix II Soil Survey, Groundwater Data, Water Bore Map, Soil Bore Log

Appendix III Initial and Final C-141, NMOCD Correspondence

Appendix IV Photographic Documentation

Appendix V Laboratory Reports

APPENDIX I

SITE MAPS

KARST MAP

TOPOGRAPHIC MAP

LOCATOR MAP

State 1 #002

Cimarex Energy Co. of Colorado
AP# 30-025-337774
Lea County, NM
Site Assessment Map

Legend

- ⊙ Hand Auger Sample
- 📌 State 1 #002

📌 State 1 #002



⊙ BG



State 1 #002

Cimarex Energy Co. of Colorado
Incident# nAPP2221573389
Lea County, NM
Bore Hole Map

Legend

◆ Bore Hole



BH-1

BH-2

BH-3

BH-4

BH-5



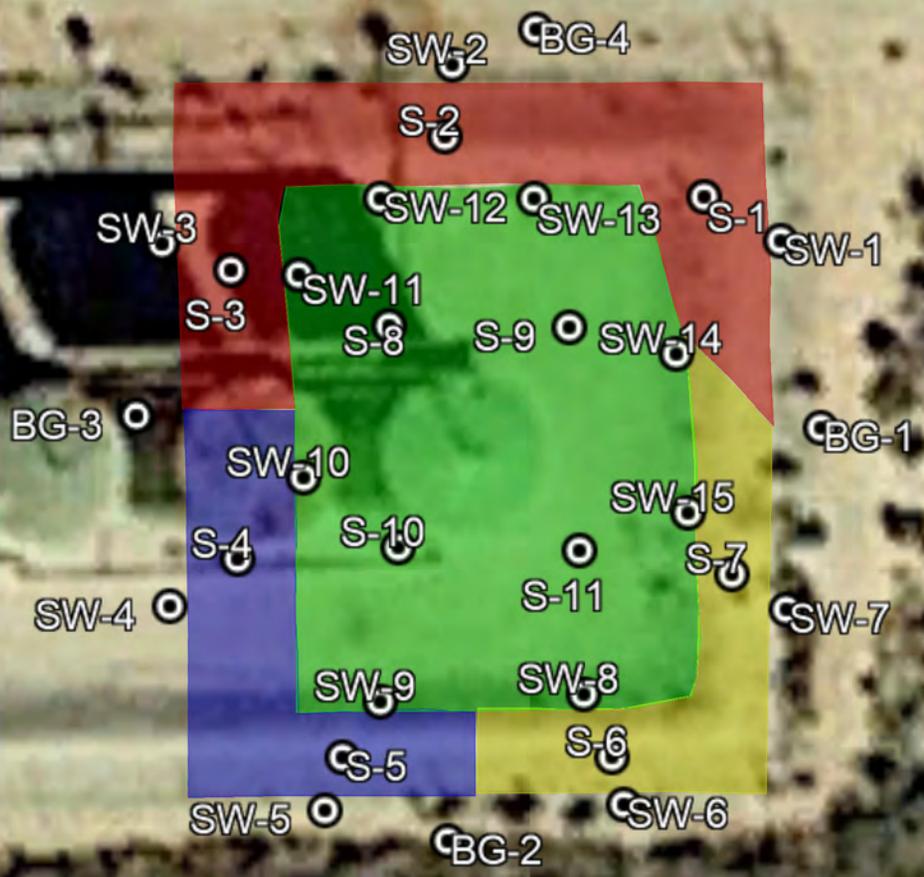
60 ft

State 1 #002

Cimarex Energy Co. of Colorado
Incident# nAPP2221573389
Lea County, NM
Confirmation Sample Map

Legend

-  10ft. Excavation
-  15ft. Excavation
-  25ft. Excavation
-  5ft. Excavation
-  Composite Confirmation Sample

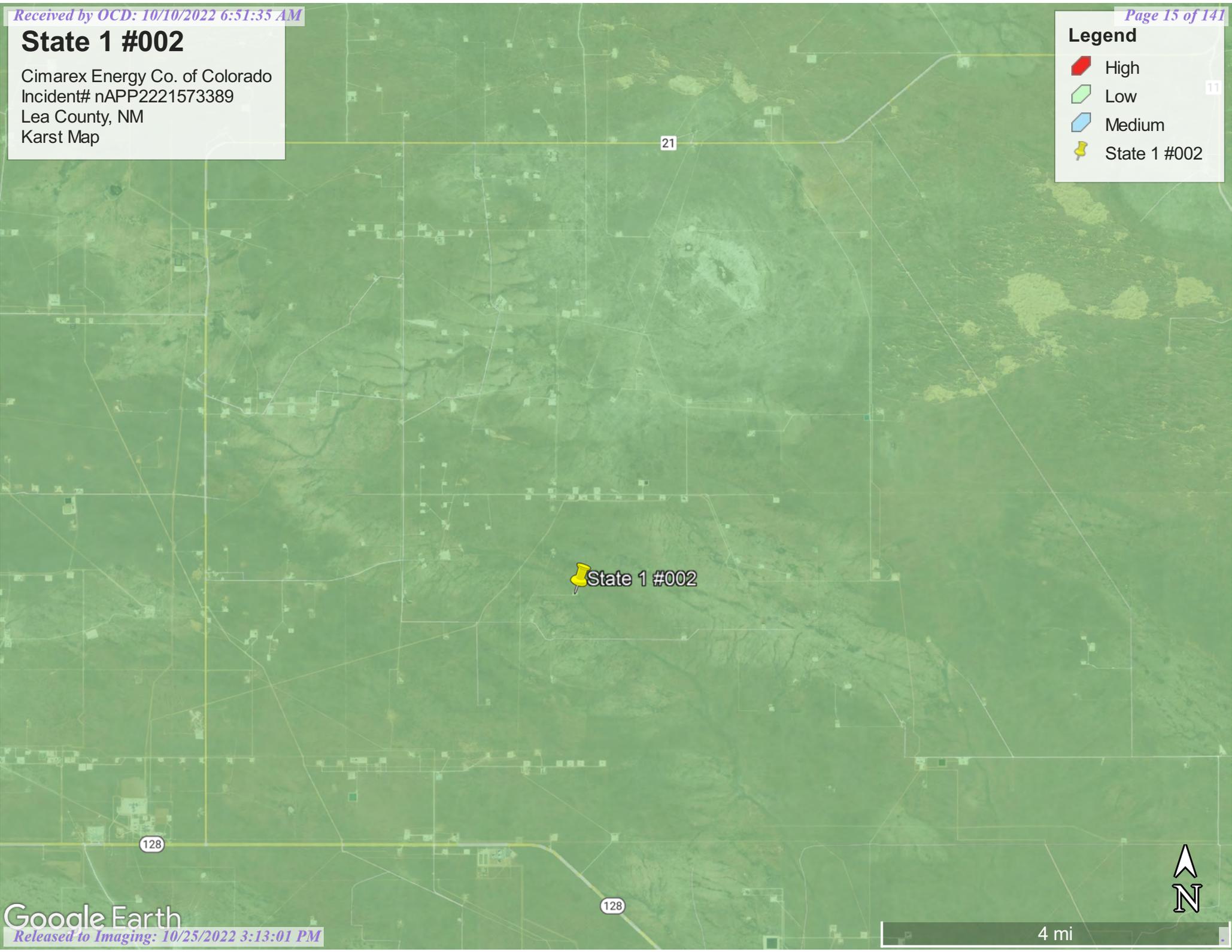


State 1 #002

Cimarex Energy Co. of Colorado
Incident# nAPP2221573389
Lea County, NM
Karst Map

Legend

-  High
-  Low
-  Medium
-  State 1 #002

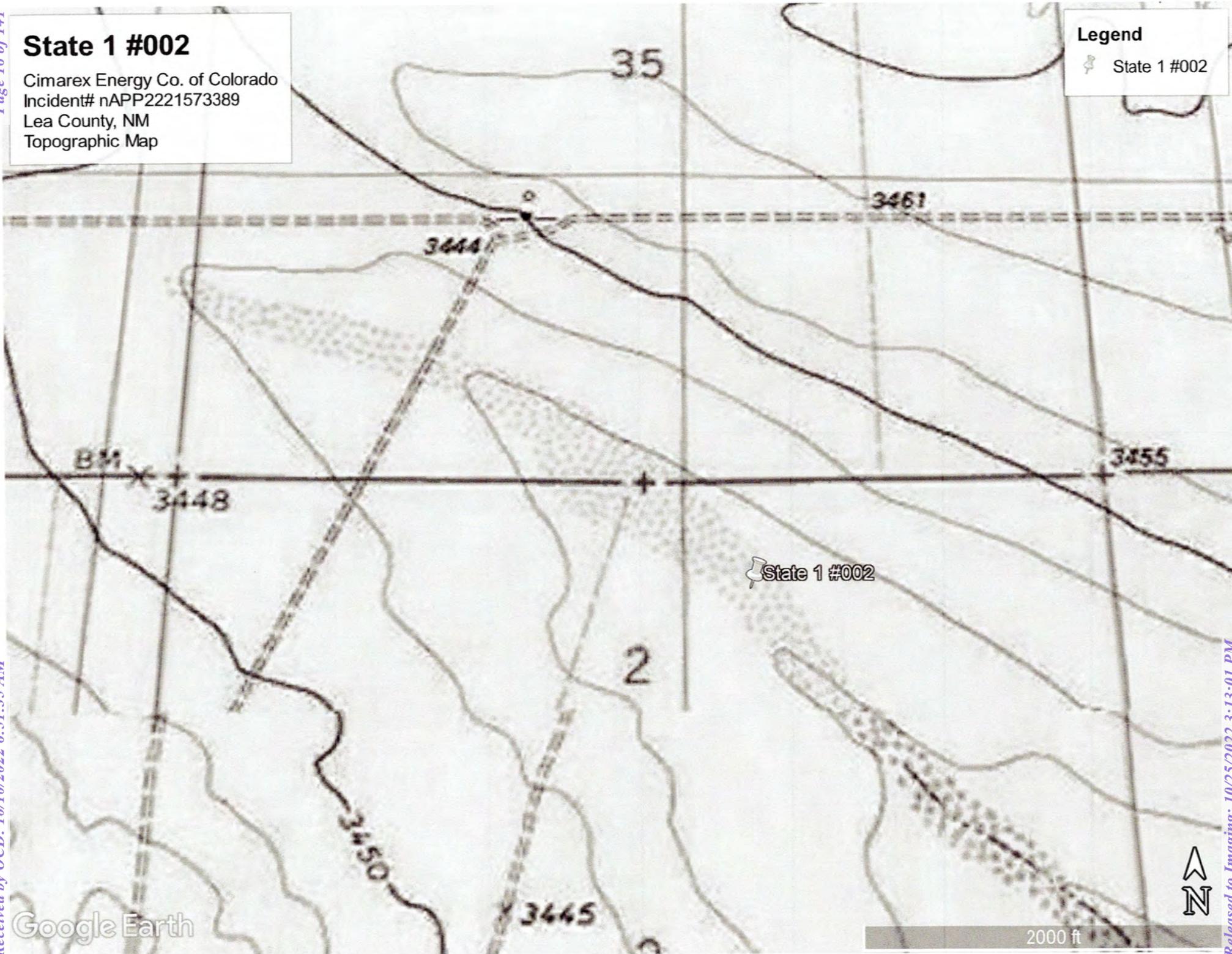


State 1 #002

Cimarex Energy Co. of Colorado
Incident# nAPP2221573389
Lea County, NM
Topographic Map

Legend

 State 1 #002

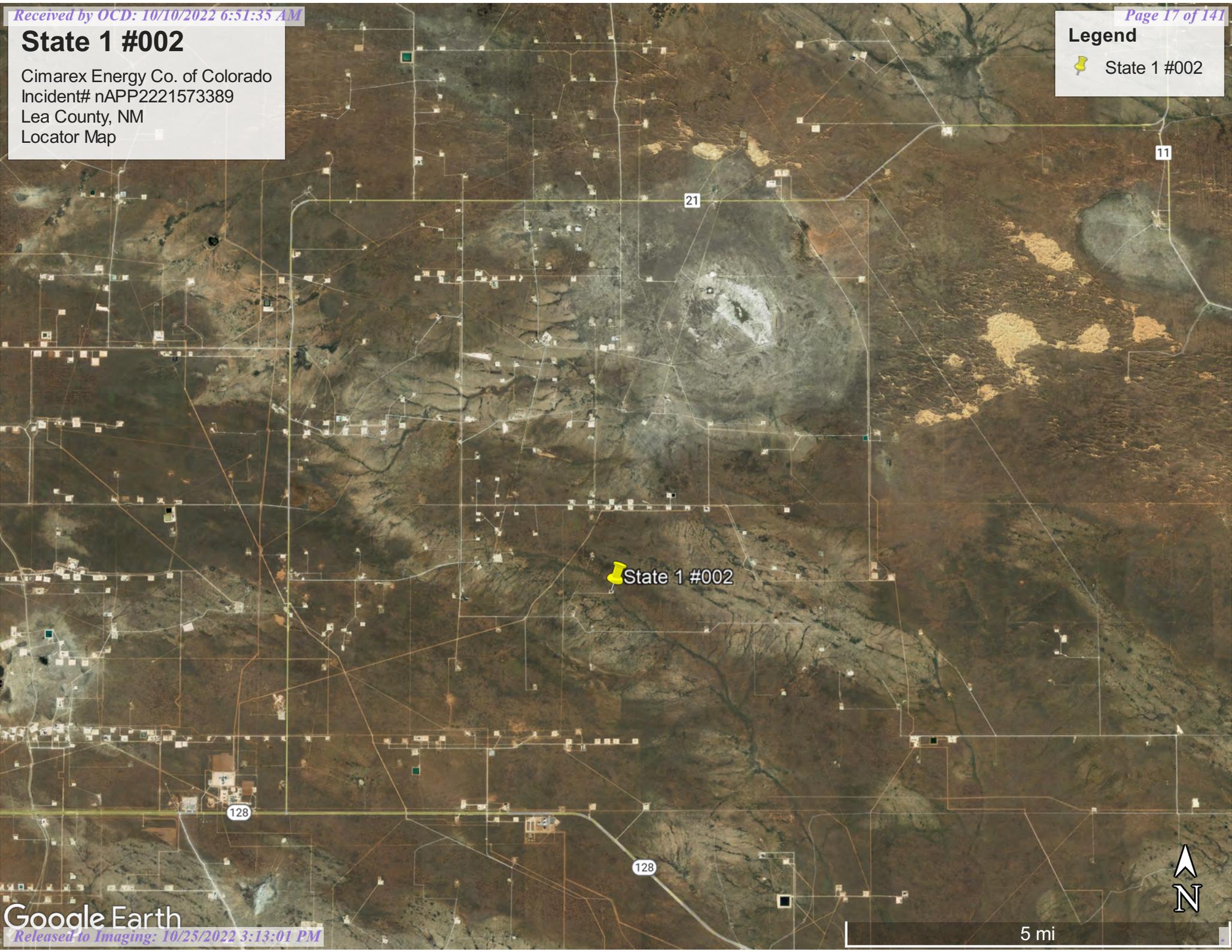


State 1 #002

Cimarex Energy Co. of Colorado
Incident# nAPP2221573389
Lea County, NM
Locator Map

Legend

-  State 1 #002



 State 1 #002

128

128

11

21

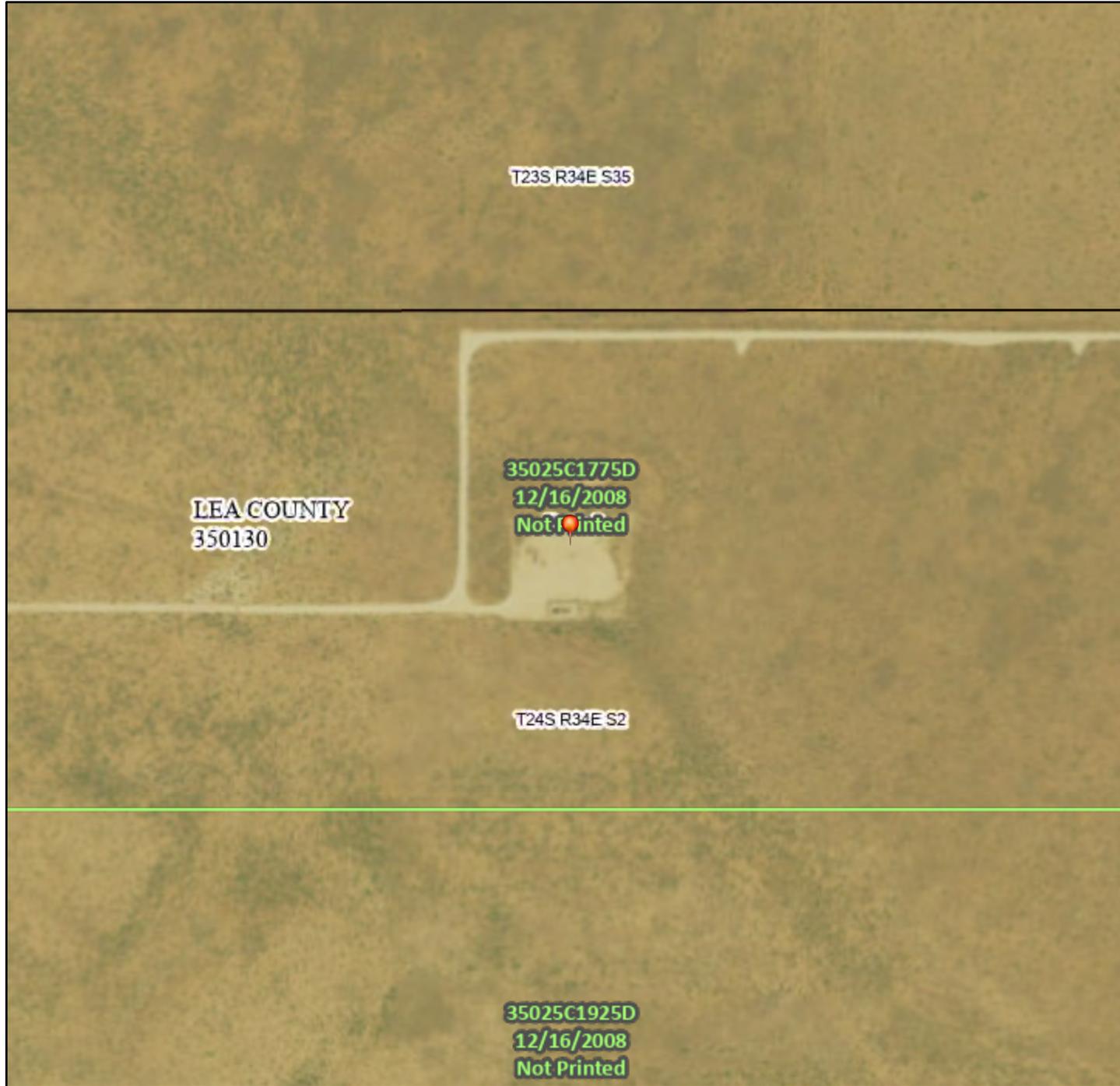


5 mi

National Flood Hazard Layer FIRMMette



103°26'38"W 32°15'23"N



Legend

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

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



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

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 10/5/2022 at 12:14 PM 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.



103°26'1"W 32°14'52"N

APPENDIX II

GROUNDWATER DATA

SOIL SURVEY

WATER BORE MAP

SOIL BORE LOG

SOIL BORE LOG

Project:	State 1 #002 Incident# nAPP2221573389	Date:	September 13, 2022
Type:	Exploratory Water Bore	Location:	State 1 #001

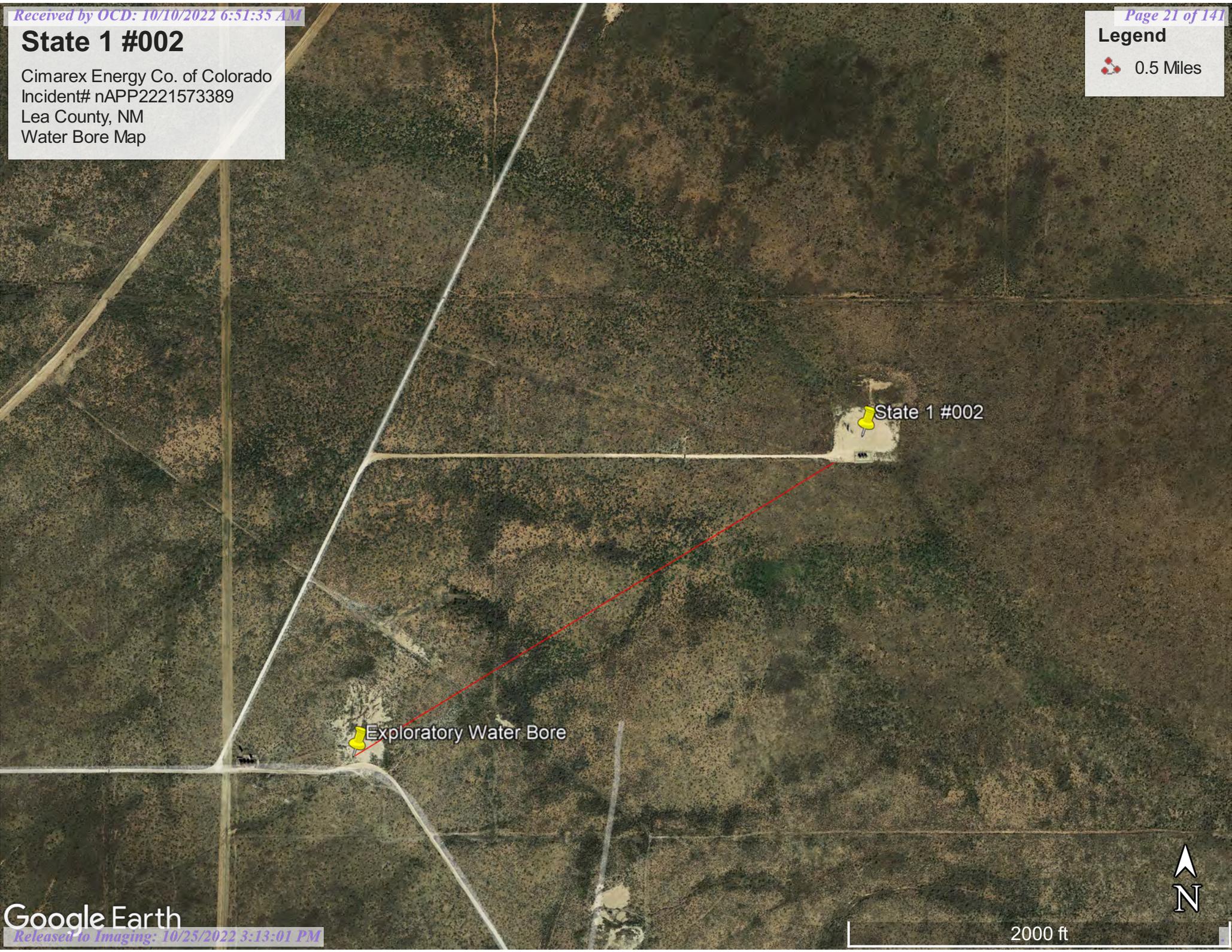
Depth	Soil Type	Classification	Comments
0-5'	Caliche	N/A	
5-10'	Sand/Caliche mix	N/A	Sand 90% / Caliche 10%
10-15'	Sand/Caliche mix	N/A	Sand 90% / Caliche 10%
15-20'	Sand/Caliche mix	N/A	Sand 70% / Caliche 30%
20-25'	Sand/Caliche mix	N/A	Sand 70% / Caliche 30%
25-30'	Sand	N/A	
30-35'	Sand/Red Clay mix	N/A	Sand 90% / Red Clay 10%
35-40'	Sand/Red Clay mix	N/A	Sand 50% / Red Clay 50%
40-45'	Red Clay	N/A	
45-50'	Red Clay	N/A	
50-55'	Red Clay	N/A	No Groundwater Present- 9/13/22-9/16/22

State 1 #002

Cimarex Energy Co. of Colorado
Incident# nAPP2221573389
Lea County, NM
Water Bore Map

Legend

 0.5 Miles



State 1 #002

Exploratory Water Bore



Map Unit Description: Berino-Cacique loamy fine sands association---Lea County, New Mexico

Lea County, New Mexico

BE—Berino-Cacique loamy fine sands association

Map Unit Setting

National map unit symbol: dmpd
Elevation: 3,000 to 3,900 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 6 inches: loamy fine sand
Btk - 6 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 8.7 inches)

Map Unit Description: Berino-Cacique loamy fine sands association---Lea County, New Mexico

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 12 inches: loamy fine sand
Bt - 12 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: 5 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: Low (about 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

Maljamar

Percent of map unit: 6 percent
Ecological site: R077CY028TX - Limy Upland 16-21" PZ
Hydric soil rating: No

Map Unit Description: Berino-Cacique loamy fine sands association---Lea County, New Mexico

Palomas

Percent of map unit: 4 percent

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

Data Source Information

Soil Survey Area: Lea County, New Mexico

Survey Area Data: Version 19, Sep 8, 2022

APPENDIX III

INITIAL C-141

FINAL C-141

NMOCD CORRESPONDENCE

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	nAPP2221573389
District RP	
Facility ID	fAPP2202655228
Application ID	

Release Notification

Responsible Party

Responsible Party: Cimarex Energy Co. of Colorado	OGRID: 162683
Contact Name: Laci Luig	Contact Telephone: (432) 571-7800
Contact email: laci.luig@coterra.com	Incident # (assigned by OCD) nAPP2221573389
Contact mailing address: 600 N Marienfeld Street, Ste. 600 Midland, TX 79701	

Location of Release Source

Latitude 32.25191 _____ Longitude -103.43868 _____
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: State 1-2	Site Type: Battery
Date Release Discovered: 8/2/2022	API# (if applicable)

Unit Letter	Section	Township	Range	County
B	2	24S	34E	Lea

Surface Owner: State Federal Tribal Private (Name: _____)

Nature and Volume of Release

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

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 75	Volume Recovered (bbls) 0
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: Equipment Failure

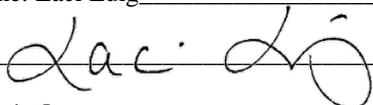
We released 75 barrels of crude oil into a gravel-lined containment, and 0 barrels were recovered. A hole was found in the bottom of the production tank. All impacted gravel will be removed and disposed of. A liner inspection will be scheduled.

Incident ID	nAPP2221573389
District RP	
Facility ID	fAPP2202655228
Application ID	

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

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.
If all the actions described above have <u>not</u> been undertaken, explain why:
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.
Printed Name: Laci Luig _____ Title: ESH Specialist _____ Signature:  _____ Date: 8/3/2022 _____ email: laci.luig@coterra.com _____ Telephone: (432) 208-3035 _____
<u>OCD Only</u> Received by: <u>Jocelyn Harimon</u> _____ Date: <u>10/10/2022</u> _____

Incident ID	nAPP2221573389
District RP	
Facility ID	fAPP2202655228
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?	>50 (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

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

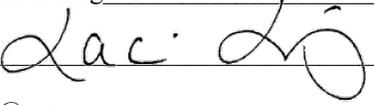
If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods,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

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	nAPP2221573389
District RP	
Facility ID	fAPP2202655228
Application ID	

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

Printed Name: Laci Luig _____ Title: ESH Specialist _____
 Signature:  _____ Date: 10/6/2022 _____
 email: laci.luig@coterra.com _____ Telephone: (432) 208-3035 _____

OCD Only

Received by: Jocelyn Harimon _____ Date: 10/10/2022 _____

Incident ID	nAPP2221573389
District RP	
Facility ID	fAPP2202655228
Application ID	

Closure

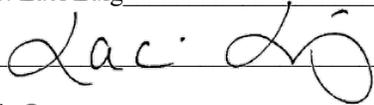
The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled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

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

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

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

Printed Name: Laci Luig Title: ESH Specialist

Signature:  Date: 10/6/2022

email: laci.luig@coterra.com Telephone: (432) 208-3035

OCD Only

Received by: Jocelyn Harimon Date: 10/10/2022

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: 10/25/2022

Printed Name: Jennifer Nobui Title: Environmental Specialist A

From: [Laci Luig](#)
To: [Michael Collier](#); [Jim Hawley](#)
Subject: FW: [EXTERNAL] nAPP2221573389 - State 1-2 confirmation sampling
Date: Monday, September 26, 2022 2:05:02 PM

[Laci Luig](#)
(432) 208-3035

From: Nobui, Jennifer, EMNRD <Jennifer.Nobui@emnrd.nm.gov>
Sent: Monday, September 26, 2022 2:43 PM
To: Laci Luig <Laci.Luig@coterra.com>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>; Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@emnrd.nm.gov>
Subject: FW: [EXTERNAL] nAPP2221573389 - State 1-2 confirmation sampling

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

Laci

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

Thanks,
Jennifer Nobui

From: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Sent: Monday, September 26, 2022 1:38 PM
To: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Nobui, Jennifer, EMNRD <Jennifer.Nobui@emnrd.nm.gov>; Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@emnrd.nm.gov>; Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>; Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Subject: Fw: [EXTERNAL] nAPP2221573389 - State 1-2 confirmation sampling

From: Laci Luig <Laci.Luig@coterra.com>
Sent: Monday, September 26, 2022 12:58 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; Ryan Mann - NM SLO <rmann@slo.state.nm.us>
Subject: [EXTERNAL] nAPP2221573389 - State 1-2 confirmation sampling

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

Good afternoon,

This email serves as notification for excavation and confirmation sampling on the State 1-2. Sampling is scheduled to begin September 29th. H&R Enterprises will be onsite for field and confirmation sampling.

Thank you,



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

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

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This message may contain confidential and/or privileged information. If you are not the addressee or authorized to receive this for the addressee, you must not use, copy, disclose or take any action based on this message or any information herein. If you have received this message in error, please advise the sender immediately by reply e-mail and delete this message.

APPENDIX IV

PHOTOGRAPHIC DOCUMENTATION

PHOTOGRAPHIC DOCUMENTATION

STATE 1 #002 INITIAL PHOTOGRAPHS



Northeast corner of the tank battery
looking Southwest



Southeast corner of the tank battery
looking West



Southwest corner of the tank battery
looking East



Northwest corner of the tank battery
looking East

PHOTOGRAPHIC DOCUMENTATION

STATE 1 #002 EXCAVATION PHOTOGRAPHS



Aerial photograph of the excavation #1



Aerial photograph of the excavation #2



10-foot, 15-foot, and 25-foot



25-foot



5-foot

PHOTOGRAPHIC DOCUMENTATION

STATE 1 #002 FINAL PHOTOGRAPHS



Aerial photograph looking East



Aerial photograph from directly above #1



Aerial photograph from directly above #2

PHOTOGRAPHIC DOCUMENTATION

STATE 1 #002 EXPLORATORY WATER BORE PHOTOGRAPHS



Exploratory water bore



Soil collected for soil logging

APPENDIX V

LABORATORY

REPORTS



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

August 17, 2022

JIM HAWLEY
H & R ENTERPRISES
1010 GAMBLIN ROAD
HOBBS, NM 88240

RE: STATE 1-2

Enclosed are the results of analyses for samples received by the laboratory on 08/16/22 15:01.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

H & R ENTERPRISES
 JIM HAWLEY
 1010 GAMBLIN ROAD
 HOBBS NM, 88240
 Fax To: NONE

Received:	08/16/2022	Sampling Date:	08/16/2022
Reported:	08/17/2022	Sampling Type:	Soil
Project Name:	STATE 1-2	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Shalyn Rodriguez
Project Location:	JAL, NM		

Sample ID: S-1 0-1' (H223744-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2022	ND	2.04	102	2.00	1.92	
Toluene*	<0.050	0.050	08/16/2022	ND	1.98	99.2	2.00	2.31	
Ethylbenzene*	<0.050	0.050	08/16/2022	ND	1.93	96.4	2.00	2.72	
Total Xylenes*	<0.150	0.150	08/16/2022	ND	5.96	99.3	6.00	3.05	
Total BTEX	<0.300	0.300	08/16/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/17/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/17/2022	ND	196	98.1	200	9.66	
DRO >C10-C28*	<10.0	10.0	08/17/2022	ND	202	101	200	7.26	
EXT DRO >C28-C36	<10.0	10.0	08/17/2022	ND					

Surrogate: 1-Chlorooctane 99.3 % 43-149

Surrogate: 1-Chlorooctadecane 104 % 42.5-161

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

H & R ENTERPRISES
 JIM HAWLEY
 1010 GAMBLIN ROAD
 HOBBS NM, 88240
 Fax To: NONE

Received: 08/16/2022
 Reported: 08/17/2022
 Project Name: STATE 1-2
 Project Number: CIMAREX
 Project Location: JAL, NM

Sampling Date: 08/16/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: S-1 2' (H223744-02)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/16/2022	ND	2.04	102	2.00	1.92		
Toluene*	<0.050	0.050	08/16/2022	ND	1.98	99.2	2.00	2.31		
Ethylbenzene*	<0.050	0.050	08/16/2022	ND	1.93	96.4	2.00	2.72		
Total Xylenes*	<0.150	0.150	08/16/2022	ND	5.96	99.3	6.00	3.05		
Total BTEX	<0.300	0.300	08/16/2022	ND						

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

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	08/17/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/17/2022	ND	196	98.1	200	9.66		
DRO >C10-C28*	<10.0	10.0	08/17/2022	ND	202	101	200	7.26		
EXT DRO >C28-C36	<10.0	10.0	08/17/2022	ND						

Surrogate: 1-Chlorooctane 106 % 43-149

Surrogate: 1-Chlorooctadecane 117 % 42.5-161

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

H & R ENTERPRISES
 JIM HAWLEY
 1010 GAMBLIN ROAD
 HOBBS NM, 88240
 Fax To: NONE

Received: 08/16/2022
 Reported: 08/17/2022
 Project Name: STATE 1-2
 Project Number: CIMAREX
 Project Location: JAL, NM

Sampling Date: 08/16/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: S-1 3' (H223744-03)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2022	ND	2.04	102	2.00	1.92	
Toluene*	<0.050	0.050	08/16/2022	ND	1.98	99.2	2.00	2.31	
Ethylbenzene*	<0.050	0.050	08/16/2022	ND	1.93	96.4	2.00	2.72	
Total Xylenes*	<0.150	0.150	08/16/2022	ND	5.96	99.3	6.00	3.05	
Total BTEX	<0.300	0.300	08/16/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/17/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/17/2022	ND	196	98.1	200	9.66	
DRO >C10-C28*	<10.0	10.0	08/17/2022	ND	202	101	200	7.26	
EXT DRO >C28-C36	<10.0	10.0	08/17/2022	ND					

Surrogate: 1-Chlorooctane 101 % 43-149

Surrogate: 1-Chlorooctadecane 109 % 42.5-161

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

H & R ENTERPRISES
 JIM HAWLEY
 1010 GAMBLIN ROAD
 HOBBS NM, 88240
 Fax To: NONE

Received: 08/16/2022
 Reported: 08/17/2022
 Project Name: STATE 1-2
 Project Number: CIMAREX
 Project Location: JAL, NM

Sampling Date: 08/16/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: S-1 4' (H223744-04)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/16/2022	ND	2.04	102	2.00	1.92		
Toluene*	<0.050	0.050	08/16/2022	ND	1.98	99.2	2.00	2.31		
Ethylbenzene*	<0.050	0.050	08/16/2022	ND	1.93	96.4	2.00	2.72		
Total Xylenes*	<0.150	0.150	08/16/2022	ND	5.96	99.3	6.00	3.05		
Total BTEX	<0.300	0.300	08/16/2022	ND						

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

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	08/17/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/17/2022	ND	196	98.1	200	9.66		
DRO >C10-C28*	<10.0	10.0	08/17/2022	ND	202	101	200	7.26		
EXT DRO >C28-C36	<10.0	10.0	08/17/2022	ND						

Surrogate: 1-Chlorooctane 101 % 43-149

Surrogate: 1-Chlorooctadecane 109 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

H & R ENTERPRISES
 JIM HAWLEY
 1010 GAMBLIN ROAD
 HOBBS NM, 88240
 Fax To: NONE

Received:	08/16/2022	Sampling Date:	08/16/2022
Reported:	08/17/2022	Sampling Type:	Soil
Project Name:	STATE 1-2	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Shalyn Rodriguez
Project Location:	JAL, NM		

Sample ID: S-2 0-1' (H223744-05)

BTEX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.431	0.250	08/16/2022	ND	2.04	102	2.00	1.92	
Toluene*	39.2	0.500	08/16/2022	ND	1.98	99.2	2.00	2.31	
Ethylbenzene*	18.5	0.500	08/16/2022	ND	1.93	96.4	2.00	2.72	
Total Xylenes*	229	1.50	08/16/2022	ND	5.96	99.3	6.00	3.05	
Total BTEX	287	2.75	08/16/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 175 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/17/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	4550	10.0	08/17/2022	ND	196	98.1	200	9.66	
DRO >C10-C28*	9200	10.0	08/17/2022	ND	202	101	200	7.26	
EXT DRO >C28-C36	257	10.0	08/17/2022	ND					

Surrogate: 1-Chlorooctane 958 % 43-149

Surrogate: 1-Chlorooctadecane 190 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

H & R ENTERPRISES
 JIM HAWLEY
 1010 GAMBLIN ROAD
 HOBBS NM, 88240
 Fax To: NONE

Received:	08/16/2022	Sampling Date:	08/16/2022
Reported:	08/17/2022	Sampling Type:	Soil
Project Name:	STATE 1-2	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Shalyn Rodriguez
Project Location:	JAL, NM		

Sample ID: S-2 2' (H223744-06)

BTEX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2022	ND	2.04	102	2.00	1.92	
Toluene*	2.51	0.050	08/16/2022	ND	1.98	99.2	2.00	2.31	
Ethylbenzene*	1.73	0.050	08/16/2022	ND	1.93	96.4	2.00	2.72	
Total Xylenes*	22.2	0.150	08/16/2022	ND	5.96	99.3	6.00	3.05	
Total BTEX	26.5	0.300	08/16/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 222 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/17/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	309	10.0	08/17/2022	ND	196	98.1	200	9.66	
DRO >C10-C28*	1050	10.0	08/17/2022	ND	202	101	200	7.26	
EXT DRO >C28-C36	39.4	10.0	08/17/2022	ND					

Surrogate: 1-Chlorooctane 132 % 43-149

Surrogate: 1-Chlorooctadecane 97.3 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

H & R ENTERPRISES
 JIM HAWLEY
 1010 GAMBLIN ROAD
 HOBBS NM, 88240
 Fax To: NONE

Received:	08/16/2022	Sampling Date:	08/16/2022
Reported:	08/17/2022	Sampling Type:	Soil
Project Name:	STATE 1-2	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Shalyn Rodriguez
Project Location:	JAL, NM		

Sample ID: S-2 3' (H223744-07)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2022	ND	2.04	102	2.00	1.92	
Toluene*	0.209	0.050	08/16/2022	ND	1.98	99.2	2.00	2.31	
Ethylbenzene*	0.182	0.050	08/16/2022	ND	1.93	96.4	2.00	2.72	
Total Xylenes*	3.00	0.150	08/16/2022	ND	5.96	99.3	6.00	3.05	
Total BTEX	3.39	0.300	08/16/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 132 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/17/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	35.3	10.0	08/17/2022	ND	196	98.1	200	9.66	
DRO >C10-C28*	214	10.0	08/17/2022	ND	202	101	200	7.26	
EXT DRO >C28-C36	13.6	10.0	08/17/2022	ND					

Surrogate: 1-Chlorooctane 109 % 43-149

Surrogate: 1-Chlorooctadecane 121 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

H & R ENTERPRISES
 JIM HAWLEY
 1010 GAMBLIN ROAD
 HOBBS NM, 88240
 Fax To: NONE

Received:	08/16/2022	Sampling Date:	08/16/2022
Reported:	08/17/2022	Sampling Type:	Soil
Project Name:	STATE 1-2	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Shalyn Rodriguez
Project Location:	JAL, NM		

Sample ID: S-2 4' (H223744-08)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/16/2022	ND	2.04	102	2.00	1.92		
Toluene*	<0.050	0.050	08/16/2022	ND	1.98	99.2	2.00	2.31		
Ethylbenzene*	<0.050	0.050	08/16/2022	ND	1.93	96.4	2.00	2.72		
Total Xylenes*	0.163	0.150	08/16/2022	ND	5.96	99.3	6.00	3.05		
Total BTEX	<0.300	0.300	08/16/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	08/17/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	36.4	10.0	08/17/2022	ND	196	98.1	200	9.66		
DRO >C10-C28*	329	10.0	08/17/2022	ND	202	101	200	7.26		
EXT DRO >C28-C36	<10.0	10.0	08/17/2022	ND						

Surrogate: 1-Chlorooctane 125 % 43-149

Surrogate: 1-Chlorooctadecane 134 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

H & R ENTERPRISES
 JIM HAWLEY
 1010 GAMBLIN ROAD
 HOBBS NM, 88240
 Fax To: NONE

Received:	08/16/2022	Sampling Date:	08/16/2022
Reported:	08/17/2022	Sampling Type:	Soil
Project Name:	STATE 1-2	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Shalyn Rodriguez
Project Location:	JAL, NM		

Sample ID: S-3 0-1' (H223744-09)

BTEX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	08/16/2022	ND	2.04	102	2.00	1.92	
Toluene*	55.0	1.00	08/16/2022	ND	1.98	99.2	2.00	2.31	
Ethylbenzene*	28.1	1.00	08/16/2022	ND	1.93	96.4	2.00	2.72	
Total Xylenes*	355	3.00	08/16/2022	ND	5.96	99.3	6.00	3.05	
Total BTEX	438	6.00	08/16/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 158 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/17/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	11500	100	08/17/2022	ND	196	98.1	200	9.66	
DRO >C10-C28*	21100	100	08/17/2022	ND	202	101	200	7.26	
EXT DRO >C28-C36	498	100	08/17/2022	ND					

Surrogate: 1-Chlorooctane 2420 % 43-149

Surrogate: 1-Chlorooctadecane 555 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

H & R ENTERPRISES
 JIM HAWLEY
 1010 GAMBLIN ROAD
 HOBBS NM, 88240
 Fax To: NONE

Received:	08/16/2022	Sampling Date:	08/16/2022
Reported:	08/17/2022	Sampling Type:	Soil
Project Name:	STATE 1-2	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Shalyn Rodriguez
Project Location:	JAL, NM		

Sample ID: S-3 2' (H223744-10)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	08/16/2022	ND	2.04	102	2.00	1.92	
Toluene*	21.4	1.00	08/16/2022	ND	1.98	99.2	2.00	2.31	
Ethylbenzene*	14.9	1.00	08/16/2022	ND	1.93	96.4	2.00	2.72	
Total Xylenes*	193	3.00	08/16/2022	ND	5.96	99.3	6.00	3.05	
Total BTEX	229	6.00	08/16/2022	ND					

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

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	08/17/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	4040	10.0	08/17/2022	ND	196	98.1	200	9.66		
DRO >C10-C28*	7630	10.0	08/17/2022	ND	202	101	200	7.26		
EXT DRO >C28-C36	203	10.0	08/17/2022	ND						

Surrogate: 1-Chlorooctane 886 % 43-149

Surrogate: 1-Chlorooctadecane 131 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

H & R ENTERPRISES
 JIM HAWLEY
 1010 GAMBLIN ROAD
 HOBBS NM, 88240
 Fax To: NONE

Received:	08/16/2022	Sampling Date:	08/16/2022
Reported:	08/17/2022	Sampling Type:	Soil
Project Name:	STATE 1-2	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Shalyn Rodriguez
Project Location:	JAL, NM		

Sample ID: S-3 3' (H223744-11)

BTEX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	08/16/2022	ND	2.04	102	2.00	1.92	
Toluene*	42.2	1.00	08/16/2022	ND	1.98	99.2	2.00	2.31	
Ethylbenzene*	23.1	1.00	08/16/2022	ND	1.93	96.4	2.00	2.72	
Total Xylenes*	298	3.00	08/16/2022	ND	5.96	99.3	6.00	3.05	
Total BTEX	364	6.00	08/16/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 151 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/17/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	5320	10.0	08/17/2022	ND	196	98.1	200	9.66	
DRO >C10-C28*	7430	10.0	08/17/2022	ND	202	101	200	7.26	
EXT DRO >C28-C36	184	10.0	08/17/2022	ND					

Surrogate: 1-Chlorooctane 988 % 43-149

Surrogate: 1-Chlorooctadecane 130 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

H & R ENTERPRISES
 JIM HAWLEY
 1010 GAMBLIN ROAD
 HOBBS NM, 88240
 Fax To: NONE

Received:	08/16/2022	Sampling Date:	08/16/2022
Reported:	08/17/2022	Sampling Type:	Soil
Project Name:	STATE 1-2	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Shalyn Rodriguez
Project Location:	JAL, NM		

Sample ID: S-3 4' (H223744-12)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2022	ND	2.04	102	2.00	1.92	
Toluene*	0.648	0.050	08/16/2022	ND	1.98	99.2	2.00	2.31	
Ethylbenzene*	0.262	0.050	08/16/2022	ND	1.93	96.4	2.00	2.72	
Total Xylenes*	4.10	0.150	08/16/2022	ND	5.96	99.3	6.00	3.05	
Total BTEX	5.01	0.300	08/16/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 137 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/17/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	185	10.0	08/17/2022	ND	196	98.1	200	9.66	
DRO >C10-C28*	678	10.0	08/17/2022	ND	202	101	200	7.26	
EXT DRO >C28-C36	15.2	10.0	08/17/2022	ND					

Surrogate: 1-Chlorooctane 142 % 43-149

Surrogate: 1-Chlorooctadecane 118 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

H & R ENTERPRISES
 JIM HAWLEY
 1010 GAMBLIN ROAD
 HOBBS NM, 88240
 Fax To: NONE

Received:	08/16/2022	Sampling Date:	08/16/2022
Reported:	08/17/2022	Sampling Type:	Soil
Project Name:	STATE 1-2	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Shalyn Rodriguez
Project Location:	JAL, NM		

Sample ID: S-4 0-1' (H223744-13)

BTEX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	5.35	1.00	08/16/2022	ND	2.04	102	2.00	1.92	
Toluene*	136	1.00	08/16/2022	ND	1.98	99.2	2.00	2.31	
Ethylbenzene*	28.3	1.00	08/16/2022	ND	1.93	96.4	2.00	2.72	
Total Xylenes*	463	3.00	08/16/2022	ND	5.96	99.3	6.00	3.05	
Total BTEX	632	6.00	08/16/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 160 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/17/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	9850	100	08/17/2022	ND	196	98.1	200	9.66	
DRO >C10-C28*	6860	100	08/17/2022	ND	202	101	200	7.26	
EXT DRO >C28-C36	<100	100	08/17/2022	ND					

Surrogate: 1-Chlorooctane 1070 % 43-149

Surrogate: 1-Chlorooctadecane 127 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

H & R ENTERPRISES
 JIM HAWLEY
 1010 GAMBLIN ROAD
 HOBBS NM, 88240
 Fax To: NONE

Received:	08/16/2022	Sampling Date:	08/16/2022
Reported:	08/17/2022	Sampling Type:	Soil
Project Name:	STATE 1-2	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Shalyn Rodriguez
Project Location:	JAL, NM		

Sample ID: S-4 2' (H223744-14)

BTEX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	4.52	1.00	08/16/2022	ND	2.04	102	2.00	1.92	
Toluene*	121	1.00	08/16/2022	ND	1.98	99.2	2.00	2.31	
Ethylbenzene*	27.8	1.00	08/16/2022	ND	1.93	96.4	2.00	2.72	
Total Xylenes*	426	3.00	08/16/2022	ND	5.96	99.3	6.00	3.05	
Total BTEX	580	6.00	08/16/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 152 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/17/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	11400	100	08/17/2022	ND	196	98.1	200	9.66	
DRO >C10-C28*	8080	100	08/17/2022	ND	202	101	200	7.26	
EXT DRO >C28-C36	163	100	08/17/2022	ND					

Surrogate: 1-Chlorooctane 1240 % 43-149

Surrogate: 1-Chlorooctadecane 155 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

H & R ENTERPRISES
 JIM HAWLEY
 1010 GAMBLIN ROAD
 HOBBS NM, 88240
 Fax To: NONE

Received:	08/16/2022	Sampling Date:	08/16/2022
Reported:	08/17/2022	Sampling Type:	Soil
Project Name:	STATE 1-2	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Shalyn Rodriguez
Project Location:	JAL, NM		

Sample ID: S-4 3' (H223744-15)

BTEX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	4.43	1.00	08/16/2022	ND	2.04	102	2.00	1.92	
Toluene*	125	1.00	08/16/2022	ND	1.98	99.2	2.00	2.31	
Ethylbenzene*	34.0	1.00	08/16/2022	ND	1.93	96.4	2.00	2.72	
Total Xylenes*	384	3.00	08/16/2022	ND	5.96	99.3	6.00	3.05	
Total BTEX	547	6.00	08/16/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 151 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/17/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	12400	100	08/17/2022	ND	196	98.1	200	9.66	
DRO >C10-C28*	9500	100	08/17/2022	ND	202	101	200	7.26	
EXT DRO >C28-C36	200	100	08/17/2022	ND					

Surrogate: 1-Chlorooctane 1430 % 43-149

Surrogate: 1-Chlorooctadecane 171 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

H & R ENTERPRISES
 JIM HAWLEY
 1010 GAMBLIN ROAD
 HOBBS NM, 88240
 Fax To: NONE

Received:	08/16/2022	Sampling Date:	08/16/2022
Reported:	08/17/2022	Sampling Type:	Soil
Project Name:	STATE 1-2	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Shalyn Rodriguez
Project Location:	JAL, NM		

Sample ID: S-4 4' (H223744-16)

BTEX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	4.03	1.00	08/16/2022	ND	2.04	102	2.00	1.92	
Toluene*	114	1.00	08/16/2022	ND	1.98	99.2	2.00	2.31	
Ethylbenzene*	31.1	1.00	08/16/2022	ND	1.93	96.4	2.00	2.72	
Total Xylenes*	350	3.00	08/16/2022	ND	5.96	99.3	6.00	3.05	
Total BTEX	499	6.00	08/16/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 148 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/17/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	8200	100	08/17/2022	ND	196	98.1	200	9.66	
DRO >C10-C28*	6370	100	08/17/2022	ND	202	101	200	7.26	
EXT DRO >C28-C36	136	100	08/17/2022	ND					

Surrogate: 1-Chlorooctane 950 % 43-149

Surrogate: 1-Chlorooctadecane 130 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

H & R ENTERPRISES
 JIM HAWLEY
 1010 GAMBLIN ROAD
 HOBBS NM, 88240
 Fax To: NONE

Received:	08/16/2022	Sampling Date:	08/16/2022
Reported:	08/17/2022	Sampling Type:	Soil
Project Name:	STATE 1-2	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Shalyn Rodriguez
Project Location:	JAL, NM		

Sample ID: S-5 0-1' (H223744-17)

BTEX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	3.32	1.00	08/16/2022	ND	2.04	102	2.00	1.92	
Toluene*	117	1.00	08/16/2022	ND	1.98	99.2	2.00	2.31	
Ethylbenzene*	35.5	1.00	08/16/2022	ND	1.93	96.4	2.00	2.72	
Total Xylenes*	423	3.00	08/16/2022	ND	5.96	99.3	6.00	3.05	
Total BTEX	579	6.00	08/16/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 161 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/17/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	8640	100	08/17/2022	ND	196	98.1	200	9.66	
DRO >C10-C28*	8640	100	08/17/2022	ND	202	101	200	7.26	
EXT DRO >C28-C36	172	100	08/17/2022	ND					

Surrogate: 1-Chlorooctane 1220 % 43-149

Surrogate: 1-Chlorooctadecane 137 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

H & R ENTERPRISES
 JIM HAWLEY
 1010 GAMBLIN ROAD
 HOBBS NM, 88240
 Fax To: NONE

Received:	08/16/2022	Sampling Date:	08/16/2022
Reported:	08/17/2022	Sampling Type:	Soil
Project Name:	STATE 1-2	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Shalyn Rodriguez
Project Location:	JAL, NM		

Sample ID: S-5 2' (H223744-18)

BTEX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	8.18	1.00	08/16/2022	ND	2.04	102	2.00	1.92	
Toluene*	180	1.00	08/16/2022	ND	1.98	99.2	2.00	2.31	
Ethylbenzene*	44.7	1.00	08/16/2022	ND	1.93	96.4	2.00	2.72	
Total Xylenes*	479	3.00	08/16/2022	ND	5.96	99.3	6.00	3.05	
Total BTEX	712	6.00	08/16/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 153 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/17/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	14300	100	08/17/2022	ND	197	98.7	200	1.14		
DRO >C10-C28*	9490	100	08/17/2022	ND	222	111	200	2.59		
EXT DRO >C28-C36	195	100	08/17/2022	ND						

Surrogate: 1-Chlorooctane 1100 % 43-149

Surrogate: 1-Chlorooctadecane 496 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

H & R ENTERPRISES
 JIM HAWLEY
 1010 GAMBLIN ROAD
 HOBBS NM, 88240
 Fax To: NONE

Received:	08/16/2022	Sampling Date:	08/16/2022
Reported:	08/17/2022	Sampling Type:	Soil
Project Name:	STATE 1-2	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Shalyn Rodriguez
Project Location:	JAL, NM		

Sample ID: S-5 3' (H223744-19)

BTEX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	9.05	1.00	08/16/2022	ND	2.04	102	2.00	1.92	
Toluene*	187	1.00	08/16/2022	ND	1.98	99.2	2.00	2.31	
Ethylbenzene*	46.4	1.00	08/16/2022	ND	1.93	96.4	2.00	2.72	
Total Xylenes*	492	3.00	08/16/2022	ND	5.96	99.3	6.00	3.05	
Total BTEX	735	6.00	08/16/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 157 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/17/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	17000	100	08/17/2022	ND	197	98.7	200	1.14	
DRO >C10-C28*	11200	100	08/17/2022	ND	222	111	200	2.59	
EXT DRO >C28-C36	182	100	08/17/2022	ND					

Surrogate: 1-Chlorooctane 964 % 43-149

Surrogate: 1-Chlorooctadecane 291 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

H & R ENTERPRISES
 JIM HAWLEY
 1010 GAMBLIN ROAD
 HOBBS NM, 88240
 Fax To: NONE

Received:	08/16/2022	Sampling Date:	08/16/2022
Reported:	08/17/2022	Sampling Type:	Soil
Project Name:	STATE 1-2	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Shalyn Rodriguez
Project Location:	JAL, NM		

Sample ID: S-5 4' (H223744-20)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	11.2	2.00	08/17/2022	ND	2.04	102	2.00	1.92	
Toluene*	239	2.00	08/17/2022	ND	1.98	99.2	2.00	2.31	
Ethylbenzene*	54.1	2.00	08/17/2022	ND	1.93	96.4	2.00	2.72	
Total Xylenes*	604	6.00	08/17/2022	ND	5.96	99.3	6.00	3.05	
Total BTEX	908	12.0	08/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 134 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/17/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	13500	100	08/17/2022	ND	197	98.7	200	1.14		
DRO >C10-C28*	9110	100	08/17/2022	ND	222	111	200	2.59		
EXT DRO >C28-C36	159	100	08/17/2022	ND						

Surrogate: 1-Chlorooctane 775 % 43-149

Surrogate: 1-Chlorooctadecane 145 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

H & R ENTERPRISES
 JIM HAWLEY
 1010 GAMBLIN ROAD
 HOBBS NM, 88240
 Fax To: NONE

Received:	08/16/2022	Sampling Date:	08/16/2022
Reported:	08/17/2022	Sampling Type:	Soil
Project Name:	STATE 1-2	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Shalyn Rodriguez
Project Location:	JAL, NM		

Sample ID: S-6 0-1' (H223744-21)

BTEX 8021B		mg/kg		Analyzed By: JH				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	5.22	2.00	08/17/2022	ND	2.03	102	2.00	11.7	QM-07	
Toluene*	182	2.00	08/17/2022	ND	1.98	98.8	2.00	11.2	QM-07	
Ethylbenzene*	52.6	2.00	08/17/2022	ND	1.91	95.6	2.00	11.4	QM-07	
Total Xylenes*	610	6.00	08/17/2022	ND	5.95	99.1	6.00	11.1	QM-07	
Total BTEX	850	12.0	08/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 141 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	08/17/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS				S-06		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	18400	100	08/17/2022	ND	197	98.7	200	1.14		
DRO >C10-C28*	16600	100	08/17/2022	ND	222	111	200	2.59		
EXT DRO >C28-C36	324	100	08/17/2022	ND						

Surrogate: 1-Chlorooctane 1310 % 43-149

Surrogate: 1-Chlorooctadecane 231 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

H & R ENTERPRISES
 JIM HAWLEY
 1010 GAMBLIN ROAD
 HOBBS NM, 88240
 Fax To: NONE

Received:	08/16/2022	Sampling Date:	08/16/2022
Reported:	08/17/2022	Sampling Type:	Soil
Project Name:	STATE 1-2	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Shalyn Rodriguez
Project Location:	JAL, NM		

Sample ID: S-6 2' (H223744-22)

BTEX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	3.44	1.00	08/17/2022	ND	2.03	102	2.00	11.7	
Toluene*	119	1.00	08/17/2022	ND	1.98	98.8	2.00	11.2	
Ethylbenzene*	36.0	1.00	08/17/2022	ND	1.91	95.6	2.00	11.4	
Total Xylenes*	399	3.00	08/17/2022	ND	5.95	99.1	6.00	11.1	
Total BTEX	557	6.00	08/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 153 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/17/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	8870	10.0	08/17/2022	ND	197	98.7	200	1.14	
DRO >C10-C28*	8020	10.0	08/17/2022	ND	222	111	200	2.59	
EXT DRO >C28-C36	193	10.0	08/17/2022	ND					

Surrogate: 1-Chlorooctane 864 % 43-149

Surrogate: 1-Chlorooctadecane 314 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

H & R ENTERPRISES
 JIM HAWLEY
 1010 GAMBLIN ROAD
 HOBBS NM, 88240
 Fax To: NONE

Received:	08/16/2022	Sampling Date:	08/16/2022
Reported:	08/17/2022	Sampling Type:	Soil
Project Name:	STATE 1-2	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Shalyn Rodriguez
Project Location:	JAL, NM		

Sample ID: S-6 3' (H223744-23)

BTEX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	4.07	1.00	08/17/2022	ND	2.03	102	2.00	11.7	
Toluene*	125	1.00	08/17/2022	ND	1.98	98.8	2.00	11.2	
Ethylbenzene*	36.8	1.00	08/17/2022	ND	1.91	95.6	2.00	11.4	
Total Xylenes*	409	3.00	08/17/2022	ND	5.95	99.1	6.00	11.1	
Total BTEX	575	6.00	08/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 153 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/17/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	12900	100	08/17/2022	ND	197	98.7	200	1.14	
DRO >C10-C28*	10900	100	08/17/2022	ND	222	111	200	2.59	
EXT DRO >C28-C36	206	100	08/17/2022	ND					

Surrogate: 1-Chlorooctane 890 % 43-149

Surrogate: 1-Chlorooctadecane 169 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

H & R ENTERPRISES
 JIM HAWLEY
 1010 GAMBLIN ROAD
 HOBBS NM, 88240
 Fax To: NONE

Received:	08/16/2022	Sampling Date:	08/16/2022
Reported:	08/17/2022	Sampling Type:	Soil
Project Name:	STATE 1-2	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Shalyn Rodriguez
Project Location:	JAL, NM		

Sample ID: S-6 4' (H223744-24)

BTEX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	3.74	1.00	08/17/2022	ND	2.03	102	2.00	11.7	
Toluene*	123	1.00	08/17/2022	ND	1.98	98.8	2.00	11.2	
Ethylbenzene*	38.0	1.00	08/17/2022	ND	1.91	95.6	2.00	11.4	
Total Xylenes*	418	3.00	08/17/2022	ND	5.95	99.1	6.00	11.1	
Total BTEX	582	6.00	08/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 153 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/17/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	12800	100	08/17/2022	ND	197	98.7	200	1.14		
DRO >C10-C28*	11000	100	08/17/2022	ND	222	111	200	2.59		
EXT DRO >C28-C36	193	100	08/17/2022	ND						

Surrogate: 1-Chlorooctane 915 % 43-149

Surrogate: 1-Chlorooctadecane 293 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

H & R ENTERPRISES
 JIM HAWLEY
 1010 GAMBLIN ROAD
 HOBBS NM, 88240
 Fax To: NONE

Received: 08/16/2022
 Reported: 08/17/2022
 Project Name: STATE 1-2
 Project Number: CIMAREX
 Project Location: JAL, NM

Sampling Date: 08/16/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: S-7 0-1' (H223744-25)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2022	ND	2.03	102	2.00	11.7	
Toluene*	<0.050	0.050	08/17/2022	ND	1.98	98.8	2.00	11.2	
Ethylbenzene*	<0.050	0.050	08/17/2022	ND	1.91	95.6	2.00	11.4	
Total Xylenes*	<0.150	0.150	08/17/2022	ND	5.95	99.1	6.00	11.1	
Total BTEX	<0.300	0.300	08/17/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/17/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	20.7	10.0	08/17/2022	ND	197	98.7	200	1.14	
DRO >C10-C28*	<10.0	10.0	08/17/2022	ND	222	111	200	2.59	
EXT DRO >C28-C36	<10.0	10.0	08/17/2022	ND					

Surrogate: 1-Chlorooctane 106 % 43-149

Surrogate: 1-Chlorooctadecane 114 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

H & R ENTERPRISES
 JIM HAWLEY
 1010 GAMBLIN ROAD
 HOBBS NM, 88240
 Fax To: NONE

Received: 08/16/2022
 Reported: 08/17/2022
 Project Name: STATE 1-2
 Project Number: CIMAREX
 Project Location: JAL, NM

Sampling Date: 08/16/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: S-7 2' (H223744-26)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/17/2022	ND	2.03	102	2.00	11.7		
Toluene*	<0.050	0.050	08/17/2022	ND	1.98	98.8	2.00	11.2		
Ethylbenzene*	<0.050	0.050	08/17/2022	ND	1.91	95.6	2.00	11.4		
Total Xylenes*	<0.150	0.150	08/17/2022	ND	5.95	99.1	6.00	11.1		
Total BTEX	<0.300	0.300	08/17/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	08/17/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/17/2022	ND	197	98.7	200	1.14		
DRO >C10-C28*	<10.0	10.0	08/17/2022	ND	222	111	200	2.59		
EXT DRO >C28-C36	<10.0	10.0	08/17/2022	ND						

Surrogate: 1-Chlorooctane 93.9 % 43-149

Surrogate: 1-Chlorooctadecane 101 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

H & R ENTERPRISES
 JIM HAWLEY
 1010 GAMBLIN ROAD
 HOBBS NM, 88240
 Fax To: NONE

Received: 08/16/2022
 Reported: 08/17/2022
 Project Name: STATE 1-2
 Project Number: CIMAREX
 Project Location: JAL, NM

Sampling Date: 08/16/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: S-7 3' (H223744-27)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/17/2022	ND	2.03	102	2.00	11.7		
Toluene*	<0.050	0.050	08/17/2022	ND	1.98	98.8	2.00	11.2		
Ethylbenzene*	<0.050	0.050	08/17/2022	ND	1.91	95.6	2.00	11.4		
Total Xylenes*	<0.150	0.150	08/17/2022	ND	5.95	99.1	6.00	11.1		
Total BTEX	<0.300	0.300	08/17/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	08/17/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/17/2022	ND	197	98.7	200	1.14		
DRO >C10-C28*	<10.0	10.0	08/17/2022	ND	222	111	200	2.59		
EXT DRO >C28-C36	<10.0	10.0	08/17/2022	ND						

Surrogate: 1-Chlorooctane 100 % 43-149

Surrogate: 1-Chlorooctadecane 105 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

H & R ENTERPRISES
 JIM HAWLEY
 1010 GAMBLIN ROAD
 HOBBS NM, 88240
 Fax To: NONE

Received: 08/16/2022
 Reported: 08/17/2022
 Project Name: STATE 1-2
 Project Number: CIMAREX
 Project Location: JAL, NM

Sampling Date: 08/16/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: S-7 4' (H223744-28)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/17/2022	ND	2.03	102	2.00	11.7		
Toluene*	0.082	0.050	08/17/2022	ND	1.98	98.8	2.00	11.2		
Ethylbenzene*	<0.050	0.050	08/17/2022	ND	1.91	95.6	2.00	11.4		
Total Xylenes*	<0.150	0.150	08/17/2022	ND	5.95	99.1	6.00	11.1		
Total BTEX	<0.300	0.300	08/17/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	08/17/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/17/2022	ND	197	98.7	200	1.14		
DRO >C10-C28*	<10.0	10.0	08/17/2022	ND	222	111	200	2.59		
EXT DRO >C28-C36	<10.0	10.0	08/17/2022	ND						

Surrogate: 1-Chlorooctane 98.5 % 43-149

Surrogate: 1-Chlorooctadecane 104 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

H & R ENTERPRISES
 JIM HAWLEY
 1010 GAMBLIN ROAD
 HOBBS NM, 88240
 Fax To: NONE

Received:	08/16/2022	Sampling Date:	08/16/2022
Reported:	08/17/2022	Sampling Type:	Soil
Project Name:	STATE 1-2	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Shalyn Rodriguez
Project Location:	JAL, NM		

Sample ID: BG 0-1' (H223744-29)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2022	ND	2.03	102	2.00	11.7	
Toluene*	0.438	0.050	08/17/2022	ND	1.98	98.8	2.00	11.2	
Ethylbenzene*	0.054	0.050	08/17/2022	ND	1.91	95.6	2.00	11.4	
Total Xylenes*	0.478	0.150	08/17/2022	ND	5.95	99.1	6.00	11.1	
Total BTEX	0.971	0.300	08/17/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/17/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/17/2022	ND	197	98.7	200	1.14	
DRO >C10-C28*	<10.0	10.0	08/17/2022	ND	222	111	200	2.59	
EXT DRO >C28-C36	<10.0	10.0	08/17/2022	ND					

Surrogate: 1-Chlorooctane 102 % 43-149

Surrogate: 1-Chlorooctadecane 107 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CHAIN OF CUSTODY RECORD

001383

Facility Name: State 1-2
 Address: State 1-2
 City: Dal State: RW Zip: [blank]
 Analytical Laboratory Name: Cardinal
 Address: [blank] City: Hrobs Zip: [blank]
 Contact Name and Report to: HR Enterprises
 Phone: [blank] Fax: cc: laci lwig
 Carrier Waybill Number: [blank]

Special Instructions: * 24 HR RUSH

Station Name or Sample ID	Sample Date	Time 24 hrs	Matrix	Sample Top	Sample Btm	Size	Containers Type	Containers No.	Filtered Y	Filtered N	Preservative	Comments	Today's Date	Page	of	Analysis/Analytes
H033144	8/14/22		Soil	0	1'	4oz jar	jar	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Ice		8/16/22	1	3	BTEX Chloride TPH
S-1 0-1'					2'				<input checked="" type="checkbox"/>	<input type="checkbox"/>						<input type="checkbox"/>
S-1 3-4'					2'				<input checked="" type="checkbox"/>	<input type="checkbox"/>						<input type="checkbox"/>
S-1 0-1'					1'				<input checked="" type="checkbox"/>	<input type="checkbox"/>						<input type="checkbox"/>
S-2 0-1'					2'				<input checked="" type="checkbox"/>	<input type="checkbox"/>						<input type="checkbox"/>
S-2 3-4'					2'				<input checked="" type="checkbox"/>	<input type="checkbox"/>						<input type="checkbox"/>
S-2 0-1'					1'				<input checked="" type="checkbox"/>	<input type="checkbox"/>						<input type="checkbox"/>
S-2 3-4'					2'				<input checked="" type="checkbox"/>	<input type="checkbox"/>						<input type="checkbox"/>
S-3 0-1'					1'				<input checked="" type="checkbox"/>	<input type="checkbox"/>						<input type="checkbox"/>
S-3 3-4'					2'				<input checked="" type="checkbox"/>	<input type="checkbox"/>						<input type="checkbox"/>
S-3 0-1'					1'				<input checked="" type="checkbox"/>	<input type="checkbox"/>						<input type="checkbox"/>
S-3 3-4'					2'				<input checked="" type="checkbox"/>	<input type="checkbox"/>						<input type="checkbox"/>

Potential Hazardous Characteristics
 Non-Haz RCRA D001, 2&3, or 4 RCRA Listed Radioactive Unknown

Sample Disposal
 Disposal by Lab Return to Client Hold pending further instructions

1. Relinquished by: Shaw E.L.D. Date: 8/14/22 Time: 15:01
 2. Received by: Shekriqweny Date: 9/14/22 Time: 15:01
 3. Relinquished by: [blank] Date: [blank] Time: [blank]
 4. Received by: [blank] Date: [blank] Time: [blank]
 5. Relinquished by: [blank] Date: [blank] Time: [blank]
 6. Received by: [blank] Date: [blank] Time: [blank]

Comments: 4.0: c-o-o: 3.4: #113 SR
 Send invoice to ESH Department



CHAIN OF CUSTODY RECORD

001381

Facility Name: State - 2
 Address: State - 2
 City: Dal, State: NM, Zip: [blank]
 Analytical Laboratory Name: Cardinal
 Address: [blank], City: [blank], Zip: [blank]
 Contact Name and Report to: H&R Enterprises
 Phone: [blank], Fax: cc: laci lacy
 Carrier Waybill Number: [blank]

Station Name or Sample ID: H923744
 Special Instructions: * 24 Hr Rush

Station Name or Sample ID	Sample Date	Time 24 hrs	Matrix	Sample Top Btm	Size	Containers Type No.	Y	Filtered N	Preservative	Comments	Today's Date	Page	Analysis/Analytes
S-4	0-1'	8/16/22	Soil	0	4oz Jar	1					8/16/22	2	BTEX Chloride TPH
S-4	2'												
S-4	3'												
S-4	3.4'												
S-5	0-1'			0									
S-5	2'												
S-5	3'												
S-5	3.4'												
S-10	0-1'			0									
S-10	2'												
S-10	3'												
S-10	3.4'												

Retinquished by: Show Thist
 Date: 8/14/22, Time: 15:01
 Received by: Skodziejewy
 Date: 8/16/22, Time: 15:01

Comments: 4.0% COLE; 3.4% #113 SR

Original - Send to lab with sample
Yellow - Return to ESH
Pink - Remain in book
Version 1: 4/21/2015



CHAIN OF CUSTODY RECORD

001385

Facility Name: State 1-2
 Address: [blank]
 City: Jar, State: KM, Zip: [blank]
 Analytical Laboratory Name: Cardinal
 Address: [blank], City: HAWES, Zip: [blank]
 Contact Name and Report to: H&R Enterprises
 Phone: [blank], Fax: [blank]
 Carrier Waybill Number: CCI: vaci luyg

Special Instructions: * 24 Hr BUSH

Station Name or Sample ID	Sample Date	Time 24 hrs	Matrix	Sample Top	Sample Btm	Size	Containers Type No.	Filtered Y N	Preservative	Comments	Today's Date	Page	Of	Analysis/Analytes
HA03744	0-1'	8/14/22	Soil	0	11'	4oz Jar	1	Y	Ice		8/14/22	3	3	BTEX Chloride TPH
S-7	2'				2'									
S-7	3'				3'									
S-7	4'				4'									
BG	0-1'				11'									

Potential Hazardous Characteristics:
 Non-Haz RCRA D001, 2&3, or 4 RCRA Listed Radioactive Unknown

Sample Disposal:
 Disposal by Lab Return to Client Hold pending further instructions

Notes: [blank]

1. Relinquished by: Shaw [Signature] Date: 8/14/22 Time: 15:01
 2. Received by: Spadigauer Date: 8/14/22 Time: 15:01
 3. Relinquished by: [blank] Date: [blank] Time: [blank]
 4. Received by: [blank] Date: [blank] Time: [blank]
 5. Relinquished by: [blank] Date: [blank] Time: [blank]
 6. Received by: [blank] Date: [blank] Time: [blank]

Comments: 4:01/0-0.6: 3.4# #113 SR

Send invoice to ESH Department

Original - Send to lab with sample

Yellow - Return to ESH

Pink - Remain in book



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

September 15, 2022

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

RE: STATE 1-2

Enclosed are the results of analyses for samples received by the laboratory on 09/13/22 15:16.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/13/2022
 Reported: 09/15/2022
 Project Name: STATE 1-2
 Project Number: CIMAREX
 Project Location: JAL, NM

Sampling Date: 09/13/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH - 1 5' (H224212-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/14/2022	ND	2.08	104	2.00	7.79	
Toluene*	<0.050	0.050	09/14/2022	ND	2.07	103	2.00	7.94	
Ethylbenzene*	<0.050	0.050	09/14/2022	ND	2.04	102	2.00	7.78	
Total Xylenes*	0.267	0.150	09/14/2022	ND	6.33	106	6.00	7.71	
Total BTEX	<0.300	0.300	09/14/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/15/2022	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2022	ND	173	86.4	200	15.8	
DRO >C10-C28*	<10.0	10.0	09/14/2022	ND	172	85.8	200	8.54	
EXT DRO >C28-C36	<10.0	10.0	09/14/2022	ND					

Surrogate: 1-Chlorooctane 62.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 71.5 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/13/2022	Sampling Date:	09/13/2022
Reported:	09/15/2022	Sampling Type:	Soil
Project Name:	STATE 1-2	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Tamara Oldaker
Project Location:	JAL, NM		

Sample ID: BH - 1 10' (H224212-02)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/14/2022	ND	2.08	104	2.00	7.79		
Toluene*	<0.050	0.050	09/14/2022	ND	2.07	103	2.00	7.94		
Ethylbenzene*	<0.050	0.050	09/14/2022	ND	2.04	102	2.00	7.78		
Total Xylenes*	<0.150	0.150	09/14/2022	ND	6.33	106	6.00	7.71		
Total BTEX	<0.300	0.300	09/14/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	09/15/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/14/2022	ND	173	86.4	200	15.8		
DRO >C10-C28*	<10.0	10.0	09/14/2022	ND	172	85.8	200	8.54		
EXT DRO >C28-C36	<10.0	10.0	09/14/2022	ND						

Surrogate: 1-Chlorooctane 58.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 65.4 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/13/2022
 Reported: 09/15/2022
 Project Name: STATE 1-2
 Project Number: CIMAREX
 Project Location: JAL, NM

Sampling Date: 09/13/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH - 1 15' (H224212-03)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/14/2022	ND	2.08	104	2.00	7.79	
Toluene*	<0.050	0.050	09/14/2022	ND	2.07	103	2.00	7.94	
Ethylbenzene*	<0.050	0.050	09/14/2022	ND	2.04	102	2.00	7.78	
Total Xylenes*	<0.150	0.150	09/14/2022	ND	6.33	106	6.00	7.71	
Total BTEX	<0.300	0.300	09/14/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/15/2022	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2022	ND	173	86.4	200	15.8	
DRO >C10-C28*	<10.0	10.0	09/14/2022	ND	172	85.8	200	8.54	
EXT DRO >C28-C36	<10.0	10.0	09/14/2022	ND					

Surrogate: 1-Chlorooctane 66.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 75.9 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/13/2022
 Reported: 09/15/2022
 Project Name: STATE 1-2
 Project Number: CIMAREX
 Project Location: JAL, NM

Sampling Date: 09/13/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH - 1 20' (H224212-04)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/14/2022	ND	2.08	104	2.00	7.79	
Toluene*	<0.050	0.050	09/14/2022	ND	2.07	103	2.00	7.94	
Ethylbenzene*	<0.050	0.050	09/14/2022	ND	2.04	102	2.00	7.78	
Total Xylenes*	<0.150	0.150	09/14/2022	ND	6.33	106	6.00	7.71	
Total BTEX	<0.300	0.300	09/14/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/15/2022	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2022	ND	173	86.4	200	15.8	
DRO >C10-C28*	69.2	10.0	09/14/2022	ND	172	85.8	200	8.54	
EXT DRO >C28-C36	<10.0	10.0	09/14/2022	ND					

Surrogate: 1-Chlorooctane 71.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 83.7 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/13/2022	Sampling Date:	09/13/2022
Reported:	09/15/2022	Sampling Type:	Soil
Project Name:	STATE 1-2	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Tamara Oldaker
Project Location:	JAL, NM		

Sample ID: BH - 2 5' (H224212-05)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/14/2022	ND	2.08	104	2.00	7.79	
Toluene*	<0.050	0.050	09/14/2022	ND	2.07	103	2.00	7.94	
Ethylbenzene*	<0.050	0.050	09/14/2022	ND	2.04	102	2.00	7.78	
Total Xylenes*	0.270	0.150	09/14/2022	ND	6.33	106	6.00	7.71	
Total BTEX	<0.300	0.300	09/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/15/2022	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2022	ND	173	86.4	200	15.8	
DRO >C10-C28*	46.3	10.0	09/14/2022	ND	172	85.8	200	8.54	
EXT DRO >C28-C36	<10.0	10.0	09/14/2022	ND					

Surrogate: 1-Chlorooctane 71.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 83.9 % 46.3-178

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/13/2022	Sampling Date:	09/13/2022
Reported:	09/15/2022	Sampling Type:	Soil
Project Name:	STATE 1-2	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Tamara Oldaker
Project Location:	JAL, NM		

Sample ID: BH - 2 10' (H224212-06)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/14/2022	ND	2.08	104	2.00	7.79		
Toluene*	<0.050	0.050	09/14/2022	ND	2.07	103	2.00	7.94		
Ethylbenzene*	<0.050	0.050	09/14/2022	ND	2.04	102	2.00	7.78		
Total Xylenes*	<0.150	0.150	09/14/2022	ND	6.33	106	6.00	7.71		
Total BTEX	<0.300	0.300	09/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	09/15/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/14/2022	ND	173	86.4	200	15.8		
DRO >C10-C28*	<10.0	10.0	09/14/2022	ND	172	85.8	200	8.54		
EXT DRO >C28-C36	<10.0	10.0	09/14/2022	ND						

Surrogate: 1-Chlorooctane 68.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 79.7 % 46.3-178

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/13/2022	Sampling Date:	09/13/2022
Reported:	09/15/2022	Sampling Type:	Soil
Project Name:	STATE 1-2	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Tamara Oldaker
Project Location:	JAL, NM		

Sample ID: BH - 2 15' (H224212-07)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/14/2022	ND	2.08	104	2.00	7.79	
Toluene*	<0.050	0.050	09/14/2022	ND	2.07	103	2.00	7.94	
Ethylbenzene*	<0.050	0.050	09/14/2022	ND	2.04	102	2.00	7.78	
Total Xylenes*	<0.150	0.150	09/14/2022	ND	6.33	106	6.00	7.71	
Total BTEX	<0.300	0.300	09/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/15/2022	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2022	ND	173	86.4	200	15.8	
DRO >C10-C28*	<10.0	10.0	09/14/2022	ND	172	85.8	200	8.54	
EXT DRO >C28-C36	<10.0	10.0	09/14/2022	ND					

Surrogate: 1-Chlorooctane 68.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 78.3 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/13/2022	Sampling Date:	09/13/2022
Reported:	09/15/2022	Sampling Type:	Soil
Project Name:	STATE 1-2	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Tamara Oldaker
Project Location:	JAL, NM		

Sample ID: BH - 2 20' (H224212-08)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/14/2022	ND	2.08	104	2.00	7.79	
Toluene*	<0.050	0.050	09/14/2022	ND	2.07	103	2.00	7.94	
Ethylbenzene*	<0.050	0.050	09/14/2022	ND	2.04	102	2.00	7.78	
Total Xylenes*	<0.150	0.150	09/14/2022	ND	6.33	106	6.00	7.71	
Total BTEX	<0.300	0.300	09/14/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/15/2022	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2022	ND	173	86.4	200	15.8	
DRO >C10-C28*	40.1	10.0	09/14/2022	ND	172	85.8	200	8.54	
EXT DRO >C28-C36	<10.0	10.0	09/14/2022	ND					

Surrogate: 1-Chlorooctane 68.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 81.0 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/13/2022	Sampling Date:	09/13/2022
Reported:	09/15/2022	Sampling Type:	Soil
Project Name:	STATE 1-2	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Tamara Oldaker
Project Location:	JAL, NM		

Sample ID: BH - 3 5' (H224212-09)

BTEX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.36	0.500	09/14/2022	ND	2.08	104	2.00	7.79	
Toluene*	43.3	0.500	09/14/2022	ND	2.07	103	2.00	7.94	
Ethylbenzene*	12.1	0.500	09/14/2022	ND	2.04	102	2.00	7.78	
Total Xylenes*	178	1.50	09/14/2022	ND	6.33	106	6.00	7.71	
Total BTEX	235	3.00	09/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 151 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/15/2022	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: CK				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	3690	10.0	09/14/2022	ND	173	86.4	200	15.8	
DRO >C10-C28*	6120	10.0	09/14/2022	ND	172	85.8	200	8.54	
EXT DRO >C28-C36	157	10.0	09/14/2022	ND					

Surrogate: 1-Chlorooctane 412 % 45.3-161

Surrogate: 1-Chlorooctadecane 176 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/13/2022	Sampling Date:	09/13/2022
Reported:	09/15/2022	Sampling Type:	Soil
Project Name:	STATE 1-2	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Tamara Oldaker
Project Location:	JAL, NM		

Sample ID: BH - 3 10' (H224212-10)

BTEX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.745	0.200	09/14/2022	ND	2.08	104	2.00	7.79	
Toluene*	19.7	0.200	09/14/2022	ND	2.07	103	2.00	7.94	
Ethylbenzene*	5.48	0.200	09/14/2022	ND	2.04	102	2.00	7.78	
Total Xylenes*	74.6	0.600	09/14/2022	ND	6.33	106	6.00	7.71	
Total BTEX	101	1.20	09/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 161 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/15/2022	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: CK				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1290	10.0	09/14/2022	ND	173	86.4	200	15.8	
DRO >C10-C28*	2690	10.0	09/14/2022	ND	172	85.8	200	8.54	
EXT DRO >C28-C36	49.5	10.0	09/14/2022	ND					

Surrogate: 1-Chlorooctane 208 % 45.3-161

Surrogate: 1-Chlorooctadecane 114 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/13/2022	Sampling Date:	09/13/2022
Reported:	09/15/2022	Sampling Type:	Soil
Project Name:	STATE 1-2	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Tamara Oldaker
Project Location:	JAL, NM		

Sample ID: BH - 3 15' (H224212-11)

BTEX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.984	0.500	09/14/2022	ND	2.08	104	2.00	7.79	
Toluene*	39.0	0.500	09/14/2022	ND	2.07	103	2.00	7.94	
Ethylbenzene*	15.8	0.500	09/14/2022	ND	2.04	102	2.00	7.78	
Total Xylenes*	200	1.50	09/14/2022	ND	6.33	106	6.00	7.71	
Total BTEX	256	3.00	09/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 170 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/15/2022	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: CK				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	5340	50.0	09/15/2022	ND	173	86.4	200	15.8	
DRO >C10-C28*	10800	50.0	09/15/2022	ND	172	85.8	200	8.54	
EXT DRO >C28-C36	187	50.0	09/15/2022	ND					

Surrogate: 1-Chlorooctane 863 % 45.3-161

Surrogate: 1-Chlorooctadecane 524 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/13/2022	Sampling Date:	09/13/2022
Reported:	09/15/2022	Sampling Type:	Soil
Project Name:	STATE 1-2	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Tamara Oldaker
Project Location:	JAL, NM		

Sample ID: BH - 3 20' (H224212-12)

BTEX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	09/14/2022	ND	2.08	104	2.00	7.79	
Toluene*	7.04	0.200	09/14/2022	ND	2.07	103	2.00	7.94	
Ethylbenzene*	3.28	0.200	09/14/2022	ND	2.04	102	2.00	7.78	
Total Xylenes*	46.5	0.600	09/14/2022	ND	6.33	106	6.00	7.71	
Total BTEX	56.8	1.20	09/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 144 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/15/2022	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: CK				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1030	10.0	09/14/2022	ND	173	86.4	200	15.8	
DRO >C10-C28*	5110	10.0	09/14/2022	ND	172	85.8	200	8.54	
EXT DRO >C28-C36	146	10.0	09/14/2022	ND					

Surrogate: 1-Chlorooctane 230 % 45.3-161

Surrogate: 1-Chlorooctadecane 207 % 46.3-178

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

Analytical Results For:

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

Received:	09/13/2022	Sampling Date:	09/13/2022
Reported:	09/15/2022	Sampling Type:	Soil
Project Name:	STATE 1-2	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Tamara Oldaker
Project Location:	JAL, NM		

Sample ID: BH - 3 25' (H224212-13)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/14/2022	ND	2.08	104	2.00	7.79	
Toluene*	0.052	0.050	09/14/2022	ND	2.07	103	2.00	7.94	
Ethylbenzene*	<0.050	0.050	09/14/2022	ND	2.04	102	2.00	7.78	
Total Xylenes*	0.534	0.150	09/14/2022	ND	6.33	106	6.00	7.71	
Total BTEX	0.586	0.300	09/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/15/2022	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	11.3	10.0	09/14/2022	ND	173	86.4	200	15.8	
DRO >C10-C28*	338	10.0	09/14/2022	ND	172	85.8	200	8.54	
EXT DRO >C28-C36	<10.0	10.0	09/14/2022	ND					

Surrogate: 1-Chlorooctane 64.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 84.4 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/13/2022	Sampling Date:	09/13/2022
Reported:	09/15/2022	Sampling Type:	Soil
Project Name:	STATE 1-2	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Tamara Oldaker
Project Location:	JAL, NM		

Sample ID: BH - 3 30' (H224212-14)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/14/2022	ND	2.08	104	2.00	7.79	
Toluene*	<0.050	0.050	09/14/2022	ND	2.07	103	2.00	7.94	
Ethylbenzene*	<0.050	0.050	09/14/2022	ND	2.04	102	2.00	7.78	
Total Xylenes*	<0.150	0.150	09/14/2022	ND	6.33	106	6.00	7.71	
Total BTEX	<0.300	0.300	09/14/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/15/2022	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2022	ND	173	86.4	200	15.8	
DRO >C10-C28*	140	10.0	09/14/2022	ND	172	85.8	200	8.54	
EXT DRO >C28-C36	<10.0	10.0	09/14/2022	ND					

Surrogate: 1-Chlorooctane 70.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 85.5 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/13/2022
 Reported: 09/15/2022
 Project Name: STATE 1-2
 Project Number: CIMAREX
 Project Location: JAL, NM

Sampling Date: 09/13/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH - 3 35' (H224212-15)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/14/2022	ND	2.08	104	2.00	7.79	
Toluene*	<0.050	0.050	09/14/2022	ND	2.07	103	2.00	7.94	
Ethylbenzene*	<0.050	0.050	09/14/2022	ND	2.04	102	2.00	7.78	
Total Xylenes*	<0.150	0.150	09/14/2022	ND	6.33	106	6.00	7.71	
Total BTEX	<0.300	0.300	09/14/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/15/2022	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2022	ND	173	86.4	200	15.8	
DRO >C10-C28*	201	10.0	09/14/2022	ND	172	85.8	200	8.54	
EXT DRO >C28-C36	<10.0	10.0	09/14/2022	ND					

Surrogate: 1-Chlorooctane 76.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 95.2 % 46.3-178

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/13/2022
 Reported: 09/15/2022
 Project Name: STATE 1-2
 Project Number: CIMAREX
 Project Location: JAL, NM

Sampling Date: 09/13/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH - 3 40' (H224212-16)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/14/2022	ND	2.08	104	2.00	7.79	
Toluene*	0.057	0.050	09/14/2022	ND	2.07	103	2.00	7.94	
Ethylbenzene*	<0.050	0.050	09/14/2022	ND	2.04	102	2.00	7.78	
Total Xylenes*	<0.150	0.150	09/14/2022	ND	6.33	106	6.00	7.71	
Total BTEX	<0.300	0.300	09/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/14/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2022	ND	173	86.4	200	15.8	
DRO >C10-C28*	75.9	10.0	09/14/2022	ND	172	85.8	200	8.54	
EXT DRO >C28-C36	<10.0	10.0	09/14/2022	ND					

Surrogate: 1-Chlorooctane 81.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 97.4 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/13/2022	Sampling Date:	09/13/2022
Reported:	09/15/2022	Sampling Type:	Soil
Project Name:	STATE 1-2	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Tamara Oldaker
Project Location:	JAL, NM		

Sample ID: BH - 4 5' (H224212-17)

BTEX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	09/14/2022	ND	2.08	104	2.00	7.79	
Toluene*	9.59	0.200	09/14/2022	ND	2.07	103	2.00	7.94	
Ethylbenzene*	5.90	0.200	09/14/2022	ND	2.04	102	2.00	7.78	
Total Xylenes*	75.0	0.600	09/14/2022	ND	6.33	106	6.00	7.71	
Total BTEX	90.5	1.20	09/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 183 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/14/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: CK				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1820	10.0	09/14/2022	ND	173	86.4	200	15.8	
DRO >C10-C28*	4060	10.0	09/14/2022	ND	172	85.8	200	8.54	
EXT DRO >C28-C36	86.7	10.0	09/14/2022	ND					

Surrogate: 1-Chlorooctane 301 % 45.3-161

Surrogate: 1-Chlorooctadecane 179 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/13/2022
 Reported: 09/15/2022
 Project Name: STATE 1-2
 Project Number: CIMAREX
 Project Location: JAL, NM

Sampling Date: 09/13/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH - 4 10' (H224212-18)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/14/2022	ND	2.08	104	2.00	7.79	
Toluene*	<0.050	0.050	09/14/2022	ND	2.07	103	2.00	7.94	
Ethylbenzene*	<0.050	0.050	09/14/2022	ND	2.04	102	2.00	7.78	
Total Xylenes*	<0.150	0.150	09/14/2022	ND	6.33	106	6.00	7.71	
Total BTEX	<0.300	0.300	09/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/14/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2022	ND	173	86.4	200	15.8	
DRO >C10-C28*	60.7	10.0	09/14/2022	ND	172	85.8	200	8.54	
EXT DRO >C28-C36	<10.0	10.0	09/14/2022	ND					

Surrogate: 1-Chlorooctane 78.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 92.7 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/13/2022	Sampling Date:	09/13/2022
Reported:	09/15/2022	Sampling Type:	Soil
Project Name:	STATE 1-2	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Tamara Oldaker
Project Location:	JAL, NM		

Sample ID: BH - 4 15' (H224212-19)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/14/2022	ND	2.08	104	2.00	7.79		
Toluene*	<0.050	0.050	09/14/2022	ND	2.07	103	2.00	7.94		
Ethylbenzene*	<0.050	0.050	09/14/2022	ND	2.04	102	2.00	7.78		
Total Xylenes*	<0.150	0.150	09/14/2022	ND	6.33	106	6.00	7.71		
Total BTEX	<0.300	0.300	09/14/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/14/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/14/2022	ND	173	86.4	200	15.8		
DRO >C10-C28*	<10.0	10.0	09/14/2022	ND	172	85.8	200	8.54		
EXT DRO >C28-C36	<10.0	10.0	09/14/2022	ND						

Surrogate: 1-Chlorooctane 65.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 77.3 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/13/2022
 Reported: 09/15/2022
 Project Name: STATE 1-2
 Project Number: CIMAREX
 Project Location: JAL, NM

Sampling Date: 09/13/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH - 4 20' (H224212-20)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/14/2022	ND	2.08	104	2.00	7.79	
Toluene*	<0.050	0.050	09/14/2022	ND	2.07	103	2.00	7.94	
Ethylbenzene*	<0.050	0.050	09/14/2022	ND	2.04	102	2.00	7.78	
Total Xylenes*	<0.150	0.150	09/14/2022	ND	6.33	106	6.00	7.71	
Total BTEX	<0.300	0.300	09/14/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/14/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2022	ND	173	86.4	200	15.8	
DRO >C10-C28*	28.7	10.0	09/14/2022	ND	172	85.8	200	8.54	
EXT DRO >C28-C36	<10.0	10.0	09/14/2022	ND					

Surrogate: 1-Chlorooctane 73.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 87.3 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/13/2022	Sampling Date:	09/13/2022
Reported:	09/15/2022	Sampling Type:	Soil
Project Name:	STATE 1-2	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Tamara Oldaker
Project Location:	JAL, NM		

Sample ID: BH - 5 5' (H224212-21)

BTEX 8021B		mg/kg		Analyzed By: JH				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	0.359	0.200	09/15/2022	ND	2.04	102	2.00	5.64		
Toluene*	22.0	0.200	09/15/2022	ND	2.01	100	2.00	4.98	QM-07	
Ethylbenzene*	11.0	0.200	09/15/2022	ND	1.99	99.6	2.00	5.42	QM-07	
Total Xylenes*	132	0.600	09/15/2022	ND	6.18	103	6.00	5.36	QM-07	
Total BTEX	165	1.20	09/15/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 202 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/14/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	1910	10.0	09/14/2022	ND	183	91.7	200	2.73		
DRO >C10-C28*	4480	10.0	09/14/2022	ND	186	93.2	200	2.18		
EXT DRO >C28-C36	137	10.0	09/14/2022	ND						

Surrogate: 1-Chlorooctane 224 % 45.3-161

Surrogate: 1-Chlorooctadecane 148 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/13/2022	Sampling Date:	09/13/2022
Reported:	09/15/2022	Sampling Type:	Soil
Project Name:	STATE 1-2	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Tamara Oldaker
Project Location:	JAL, NM		

Sample ID: BH - 5 10' (H224212-22)

BTEX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.573	0.200	09/15/2022	ND	2.04	102	2.00	5.64	
Toluene*	18.8	0.200	09/15/2022	ND	2.01	100	2.00	4.98	
Ethylbenzene*	6.19	0.200	09/15/2022	ND	1.99	99.6	2.00	5.42	
Total Xylenes*	72.7	0.600	09/15/2022	ND	6.18	103	6.00	5.36	
Total BTEX	98.3	1.20	09/15/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 160 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/14/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: CK				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	735	10.0	09/14/2022	ND	183	91.7	200	2.73	
DRO >C10-C28*	2830	10.0	09/14/2022	ND	186	93.2	200	2.18	
EXT DRO >C28-C36	92.4	10.0	09/14/2022	ND					

Surrogate: 1-Chlorooctane 165 % 45.3-161

Surrogate: 1-Chlorooctadecane 135 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/13/2022	Sampling Date:	09/13/2022
Reported:	09/15/2022	Sampling Type:	Soil
Project Name:	STATE 1-2	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Tamara Oldaker
Project Location:	JAL, NM		

Sample ID: BH - 5 15' (H224212-23)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/15/2022	ND	2.04	102	2.00	5.64	
Toluene*	0.558	0.050	09/15/2022	ND	2.01	100	2.00	4.98	
Ethylbenzene*	0.315	0.050	09/15/2022	ND	1.99	99.6	2.00	5.42	
Total Xylenes*	4.41	0.150	09/15/2022	ND	6.18	103	6.00	5.36	
Total BTEX	5.29	0.300	09/15/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 127 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/14/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	137	10.0	09/14/2022	ND	183	91.7	200	2.73	
DRO >C10-C28*	688	10.0	09/14/2022	ND	186	93.2	200	2.18	
EXT DRO >C28-C36	25.7	10.0	09/14/2022	ND					

Surrogate: 1-Chlorooctane 95.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 89.2 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/13/2022
 Reported: 09/15/2022
 Project Name: STATE 1-2
 Project Number: CIMAREX
 Project Location: JAL, NM

Sampling Date: 09/13/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH - 5 20' (H224212-24)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/15/2022	ND	2.04	102	2.00	5.64	
Toluene*	0.701	0.050	09/15/2022	ND	2.01	100	2.00	4.98	
Ethylbenzene*	0.346	0.050	09/15/2022	ND	1.99	99.6	2.00	5.42	
Total Xylenes*	4.68	0.150	09/15/2022	ND	6.18	103	6.00	5.36	
Total BTEX	5.72	0.300	09/15/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 126 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/14/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	91.4	10.0	09/14/2022	ND	183	91.7	200	2.73	
DRO >C10-C28*	360	10.0	09/14/2022	ND	186	93.2	200	2.18	
EXT DRO >C28-C36	10.9	10.0	09/14/2022	ND					

Surrogate: 1-Chlorooctane 94.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 90.6 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/13/2022	Sampling Date:	09/13/2022
Reported:	09/15/2022	Sampling Type:	Soil
Project Name:	STATE 1-2	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Tamara Oldaker
Project Location:	JAL, NM		

Sample ID: BH - 5 25' (H224212-25)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/15/2022	ND	2.04	102	2.00	5.64	
Toluene*	<0.050	0.050	09/15/2022	ND	2.01	100	2.00	4.98	
Ethylbenzene*	<0.050	0.050	09/15/2022	ND	1.99	99.6	2.00	5.42	
Total Xylenes*	<0.150	0.150	09/15/2022	ND	6.18	103	6.00	5.36	
Total BTEX	<0.300	0.300	09/15/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/14/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2022	ND	183	91.7	200	2.73	
DRO >C10-C28*	56.9	10.0	09/14/2022	ND	186	93.2	200	2.18	
EXT DRO >C28-C36	<10.0	10.0	09/14/2022	ND					

Surrogate: 1-Chlorooctane 85.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 88.3 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/13/2022
 Reported: 09/15/2022
 Project Name: STATE 1-2
 Project Number: CIMAREX
 Project Location: JAL, NM

Sampling Date: 09/13/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH - 5 30' (H224212-26)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/15/2022	ND	2.04	102	2.00	5.64	
Toluene*	<0.050	0.050	09/15/2022	ND	2.01	100	2.00	4.98	
Ethylbenzene*	<0.050	0.050	09/15/2022	ND	1.99	99.6	2.00	5.42	
Total Xylenes*	<0.150	0.150	09/15/2022	ND	6.18	103	6.00	5.36	
Total BTEX	<0.300	0.300	09/15/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/14/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2022	ND	183	91.7	200	2.73	
DRO >C10-C28*	26.8	10.0	09/14/2022	ND	186	93.2	200	2.18	
EXT DRO >C28-C36	<10.0	10.0	09/14/2022	ND					

Surrogate: 1-Chlorooctane 78.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 81.0 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/13/2022	Sampling Date:	09/13/2022
Reported:	09/15/2022	Sampling Type:	Soil
Project Name:	STATE 1-2	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Tamara Oldaker
Project Location:	JAL, NM		

Sample ID: BH - 5 35' (H224212-27)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/15/2022	ND	2.04	102	2.00	5.64	
Toluene*	<0.050	0.050	09/15/2022	ND	2.01	100	2.00	4.98	
Ethylbenzene*	<0.050	0.050	09/15/2022	ND	1.99	99.6	2.00	5.42	
Total Xylenes*	<0.150	0.150	09/15/2022	ND	6.18	103	6.00	5.36	
Total BTEX	<0.300	0.300	09/15/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/14/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2022	ND	183	91.7	200	2.73	
DRO >C10-C28*	18.2	10.0	09/14/2022	ND	186	93.2	200	2.18	
EXT DRO >C28-C36	<10.0	10.0	09/14/2022	ND					

Surrogate: 1-Chlorooctane 75.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 77.5 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/13/2022	Sampling Date:	09/13/2022
Reported:	09/15/2022	Sampling Type:	Soil
Project Name:	STATE 1-2	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Tamara Oldaker
Project Location:	JAL, NM		

Sample ID: BH - 5 40' (H224212-28)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/15/2022	ND	2.04	102	2.00	5.64	
Toluene*	0.053	0.050	09/15/2022	ND	2.01	100	2.00	4.98	
Ethylbenzene*	<0.050	0.050	09/15/2022	ND	1.99	99.6	2.00	5.42	
Total Xylenes*	0.298	0.150	09/15/2022	ND	6.18	103	6.00	5.36	
Total BTEX	0.351	0.300	09/15/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/14/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2022	ND	183	91.7	200	2.73	
DRO >C10-C28*	33.6	10.0	09/14/2022	ND	186	93.2	200	2.18	
EXT DRO >C28-C36	<10.0	10.0	09/14/2022	ND					

Surrogate: 1-Chlorooctane 72.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 73.9 % 46.3-178

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
** Samples not received at proper temperature of 6°C or below.
*** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

Company Name: **HDR ENTERPRISES**
 Project Manager: **M. COLLIER**
 Address: _____
 City: _____ State: _____ Zip: _____
 Phone #: _____ Fax #: _____
 Project #: _____ Project Owner: **CLIMAREX**
 Project Name: **STATE 1-2**
 Project Location: **LEA COUNTY, NM**
 Sampler Name: **M. COLLIER**
 P.O. #: _____ Company: **CLIMAREX**
 Attn: **Laci Lytle**
 Address: _____ City: _____
 State: _____ Zip: _____
 Phone #: _____ Fax #: _____

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	BITX	TPH	CHLORIDES
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.					
H224212	BH-1 5'	G	1			X					X				
	BH-1 10'														
	BH-1 15'														
	BH-1 20'														
	BH-2 5'														
	BH-2 10'														
	BH-2 15'														
	BH-2 20'														
	BH-3 5'														
	BH-3 10'														

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Relinquished By: **M. Collier**
 Date: **9-13-22**
 Time: **1:51 PM**
 Received By: **[Signature]**
 Date: _____
 Time: _____

Phone Result: Yes No Add'l Phone #:
 Fax Result: Yes No Add'l Fax #:
 REMARKS: **Pl 1 of 3** **72 HR RUSH**

Delivered By: (Circle One)
 Sampler - UPS - Bus - Other: **1.2e/O.6e #113**
 Sample Condition: Intact Cool Yes No Yes No
 CHECKED BY: **[Signature]**

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

Company Name: **HAR ENTERPRISES**
 Project Manager: **M. COLLIER**
 Address: _____
 City: _____ State: _____ Zip: _____
 Phone #: _____ Fax #: _____
 Project #: _____ Project Owner: **IMAREX**
 Project Name: **STATE 1-2**
 Project Location: **LEA COUNTY, NM**
 Sampler Name: **M. COLLIER**
 P.O. #: _____ Company: **IMAREX**
 Attn: **LACI LUIE**
 Address: _____
 City: _____ State: _____ Zip: _____
 Phone #: _____ Fax #: _____

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	BTEX	TPH	CHLORIDES
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
H224212	BH-3 15'	G	1			X				9-13-22				
	BH-3 20'													
	BH-3 25'													
	BH-3 30'													
	BH-3 35'													
	BH-3 40'													
	BH-4 5'													
	BH-4 10'													
	BH-4 15'													
	BH-4 20'													

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Relinquished By: **M. Collier**
 Date: _____ Time: _____
 Received By: **Juanita Delacruz**
 Date: _____ Time: _____

Phone Result: Yes No Add'l Phone #:
 Fax Result: Yes No Add'l Fax #:
 REMARKS: **Pv 2 of 3 72 HR RUSH**

Delivered By: (Circle One)
 Sampler - UPS - Bus - Other: **1.22/10.16.22 #13**
 Sample Condition: Intact Cool Yes No
 CHECKED BY: **VP**

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: **H+R ENTERPRISES**
 Project Manager: **M. COLLIER**

P.O. #: _____
 Company: **CIMAREX**
 Attn: **CHRIS LUIE**

ANALYSIS REQUEST

Address: _____ State: _____ Zip: _____
 City: _____
 Phone #: _____ Fax #: _____
 Project #: _____ Project Owner: **CIMAREX**
 Project Name: **STATE 1-2**
 Project Location: **LEA COUNTY, NM**
 Sampler Name: **M. COLLIER**
 For LAB USE ONLY: _____
 P. O. #: _____
 Address: _____
 City: _____
 State: _____ Zip: _____
 Phone #: _____
 Fax #: _____

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	BTEX	TPH	CHLORIDES
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:					
4224212															
21	BH-5 5'		5			X					9-13-22		X	X	X
22	BH-5 10'		1										X	X	X
23	BH-5 15'												X	X	X
24	BH-5 20'												X	X	X
25	BH-5 25'												X	X	X
26	BH-5 30'												X	X	X
27	BH-5 35'												X	X	X
28	BH-5 40'												X	X	X

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

Relinquished By: **MJL ell** Date: **9-13-22** Received By: **Monica [Signature]**
 Relinquished By: _____ Date: _____ Received By: _____
 Delivered By: (Circle One) _____
 Sampler - UPS - Bus - Other: **1.2c / 10.6c #11B**

Sample Condition: Cool Intact
 Yes No
 Checked By: **AS**

REMARKS: **Pl- 3 of 3 TAHR RUSH**
 Phone Result: Yes No Add'l Phone #: _____
 Fax Result: Yes No Add'l Fax #: _____

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



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

October 03, 2022

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

RE: STATE 1-2

Enclosed are the results of analyses for samples received by the laboratory on 09/29/22 12:50.

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 www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/29/2022	Sampling Date:	09/29/2022
Reported:	10/03/2022	Sampling Type:	Soil
Project Name:	STATE 1-2	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Jodi Henson
Project Location:	JAL, NM		

Sample ID: S - 1 5' (H224532-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/29/2022	ND	2.14	107	2.00	3.80	
Toluene*	<0.050	0.050	09/29/2022	ND	2.02	101	2.00	4.32	
Ethylbenzene*	<0.050	0.050	09/29/2022	ND	1.94	97.1	2.00	4.04	
Total Xylenes*	<0.150	0.150	09/29/2022	ND	6.00	99.9	6.00	3.47	
Total BTEX	<0.300	0.300	09/29/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.9 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/30/2022	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/01/2022	ND	214	107	200	0.384	
DRO >C10-C28*	32.6	10.0	10/01/2022	ND	218	109	200	0.829	
EXT DRO >C28-C36	<10.0	10.0	10/01/2022	ND					

Surrogate: 1-Chlorooctane 92.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 94.6 % 46.3-178

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/29/2022	Sampling Date:	09/29/2022
Reported:	10/03/2022	Sampling Type:	Soil
Project Name:	STATE 1-2	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Jodi Henson
Project Location:	JAL, NM		

Sample ID: S - 2 5' (H224532-02)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/29/2022	ND	2.14	107	2.00	3.80	
Toluene*	<0.050	0.050	09/29/2022	ND	2.02	101	2.00	4.32	
Ethylbenzene*	<0.050	0.050	09/29/2022	ND	1.94	97.1	2.00	4.04	
Total Xylenes*	<0.150	0.150	09/29/2022	ND	6.00	99.9	6.00	3.47	
Total BTEX	<0.300	0.300	09/29/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	09/30/2022	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	21.9	10.0	10/01/2022	ND	214	107	200	0.384	
DRO >C10-C28*	585	10.0	10/01/2022	ND	218	109	200	0.829	
EXT DRO >C28-C36	16.3	10.0	10/01/2022	ND					

Surrogate: 1-Chlorooctane 100 % 45.3-161

Surrogate: 1-Chlorooctadecane 106 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/29/2022
 Reported: 10/03/2022
 Project Name: STATE 1-2
 Project Number: CIMAREX
 Project Location: JAL, NM

Sampling Date: 09/29/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S - 3 5' (H224532-03)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/29/2022	ND	2.14	107	2.00	3.80	
Toluene*	<0.050	0.050	09/29/2022	ND	2.02	101	2.00	4.32	
Ethylbenzene*	<0.050	0.050	09/29/2022	ND	1.94	97.1	2.00	4.04	
Total Xylenes*	0.442	0.150	09/29/2022	ND	6.00	99.9	6.00	3.47	
Total BTEX	0.442	0.300	09/29/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/30/2022	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	15.4	10.0	10/01/2022	ND	214	107	200	0.384	
DRO >C10-C28*	265	10.0	10/01/2022	ND	218	109	200	0.829	
EXT DRO >C28-C36	<10.0	10.0	10/01/2022	ND					

Surrogate: 1-Chlorooctane 96.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 100 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/29/2022
 Reported: 10/03/2022
 Project Name: STATE 1-2
 Project Number: CIMAREX
 Project Location: JAL, NM

Sampling Date: 09/29/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S - 4 10' (H224532-04)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/29/2022	ND	2.14	107	2.00	3.80		
Toluene*	<0.050	0.050	09/29/2022	ND	2.02	101	2.00	4.32		
Ethylbenzene*	<0.050	0.050	09/29/2022	ND	1.94	97.1	2.00	4.04		
Total Xylenes*	<0.150	0.150	09/29/2022	ND	6.00	99.9	6.00	3.47		
Total BTEX	<0.300	0.300	09/29/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.1 % 69.9-140

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	09/30/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/01/2022	ND	214	107	200	0.384		
DRO >C10-C28*	26.6	10.0	10/01/2022	ND	218	109	200	0.829		
EXT DRO >C28-C36	<10.0	10.0	10/01/2022	ND						

Surrogate: 1-Chlorooctane 91.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 94.1 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/29/2022	Sampling Date:	09/29/2022
Reported:	10/03/2022	Sampling Type:	Soil
Project Name:	STATE 1-2	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Jodi Henson
Project Location:	JAL, NM		

Sample ID: S - 5 10' (H224532-05)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/29/2022	ND	2.14	107	2.00	3.80		
Toluene*	<0.050	0.050	09/29/2022	ND	2.02	101	2.00	4.32		
Ethylbenzene*	<0.050	0.050	09/29/2022	ND	1.94	97.1	2.00	4.04		
Total Xylenes*	<0.150	0.150	09/29/2022	ND	6.00	99.9	6.00	3.47		
Total BTEX	<0.300	0.300	09/29/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.0 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	09/30/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/01/2022	ND	214	107	200	0.384		
DRO >C10-C28*	<10.0	10.0	10/01/2022	ND	218	109	200	0.829		
EXT DRO >C28-C36	<10.0	10.0	10/01/2022	ND						

Surrogate: 1-Chlorooctane 92.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 96.4 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/29/2022	Sampling Date:	09/29/2022
Reported:	10/03/2022	Sampling Type:	Soil
Project Name:	STATE 1-2	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Jodi Henson
Project Location:	JAL, NM		

Sample ID: S - 6 15' (H224532-06)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/29/2022	ND	2.14	107	2.00	3.80	
Toluene*	<0.050	0.050	09/29/2022	ND	2.02	101	2.00	4.32	
Ethylbenzene*	<0.050	0.050	09/29/2022	ND	1.94	97.1	2.00	4.04	
Total Xylenes*	<0.150	0.150	09/29/2022	ND	6.00	99.9	6.00	3.47	
Total BTEX	<0.300	0.300	09/29/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.2 % 69.9-140

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	09/30/2022	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/01/2022	ND	214	107	200	0.384	
DRO >C10-C28*	<10.0	10.0	10/01/2022	ND	218	109	200	0.829	
EXT DRO >C28-C36	<10.0	10.0	10/01/2022	ND					

Surrogate: 1-Chlorooctane 90.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 93.4 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/29/2022	Sampling Date:	09/29/2022
Reported:	10/03/2022	Sampling Type:	Soil
Project Name:	STATE 1-2	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Jodi Henson
Project Location:	JAL, NM		

Sample ID: S - 7 15' (H224532-07)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/29/2022	ND	2.14	107	2.00	3.80		
Toluene*	<0.050	0.050	09/29/2022	ND	2.02	101	2.00	4.32		
Ethylbenzene*	<0.050	0.050	09/29/2022	ND	1.94	97.1	2.00	4.04		
Total Xylenes*	<0.150	0.150	09/29/2022	ND	6.00	99.9	6.00	3.47		
Total BTEX	<0.300	0.300	09/29/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.7 % 69.9-140

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	09/30/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/01/2022	ND	214	107	200	0.384		
DRO >C10-C28*	<10.0	10.0	10/01/2022	ND	218	109	200	0.829		
EXT DRO >C28-C36	<10.0	10.0	10/01/2022	ND						

Surrogate: 1-Chlorooctane 92.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 96.0 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/29/2022	Sampling Date:	09/29/2022
Reported:	10/03/2022	Sampling Type:	Soil
Project Name:	STATE 1-2	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Jodi Henson
Project Location:	JAL, NM		

Sample ID: S - 8 25' (H224532-08)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/29/2022	ND	2.14	107	2.00	3.80	
Toluene*	<0.050	0.050	09/29/2022	ND	2.02	101	2.00	4.32	
Ethylbenzene*	<0.050	0.050	09/29/2022	ND	1.94	97.1	2.00	4.04	
Total Xylenes*	<0.150	0.150	09/29/2022	ND	6.00	99.9	6.00	3.47	
Total BTEX	<0.300	0.300	09/29/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.8 % 69.9-140

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	09/30/2022	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/01/2022	ND	214	107	200	0.384	
DRO >C10-C28*	46.0	10.0	10/01/2022	ND	218	109	200	0.829	
EXT DRO >C28-C36	<10.0	10.0	10/01/2022	ND					

Surrogate: 1-Chlorooctane 103 % 45.3-161

Surrogate: 1-Chlorooctadecane 107 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/29/2022	Sampling Date:	09/29/2022
Reported:	10/03/2022	Sampling Type:	Soil
Project Name:	STATE 1-2	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Jodi Henson
Project Location:	JAL, NM		

Sample ID: S - 9 25' (H224532-09)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/29/2022	ND	2.14	107	2.00	3.80		
Toluene*	<0.050	0.050	09/29/2022	ND	2.02	101	2.00	4.32		
Ethylbenzene*	<0.050	0.050	09/29/2022	ND	1.94	97.1	2.00	4.04		
Total Xylenes*	<0.150	0.150	09/29/2022	ND	6.00	99.9	6.00	3.47		
Total BTEX	<0.300	0.300	09/29/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.1 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	09/30/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/01/2022	ND	214	107	200	0.384		
DRO >C10-C28*	32.0	10.0	10/01/2022	ND	218	109	200	0.829		
EXT DRO >C28-C36	<10.0	10.0	10/01/2022	ND						

Surrogate: 1-Chlorooctane 105 % 45.3-161

Surrogate: 1-Chlorooctadecane 109 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/29/2022	Sampling Date:	09/29/2022
Reported:	10/03/2022	Sampling Type:	Soil
Project Name:	STATE 1-2	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Jodi Henson
Project Location:	JAL, NM		

Sample ID: S - 10 25' (H224532-10)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/29/2022	ND	2.14	107	2.00	3.80	
Toluene*	0.120	0.050	09/29/2022	ND	2.02	101	2.00	4.32	
Ethylbenzene*	0.140	0.050	09/29/2022	ND	1.94	97.1	2.00	4.04	
Total Xylenes*	2.11	0.150	09/29/2022	ND	6.00	99.9	6.00	3.47	
Total BTEX	2.37	0.300	09/29/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 69.9-140

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	09/30/2022	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	47.8	10.0	10/01/2022	ND	214	107	200	0.384	
DRO >C10-C28*	326	10.0	10/01/2022	ND	218	109	200	0.829	
EXT DRO >C28-C36	<10.0	10.0	10/01/2022	ND					

Surrogate: 1-Chlorooctane 109 % 45.3-161

Surrogate: 1-Chlorooctadecane 108 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/29/2022	Sampling Date:	09/29/2022
Reported:	10/03/2022	Sampling Type:	Soil
Project Name:	STATE 1-2	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Jodi Henson
Project Location:	JAL, NM		

Sample ID: S - 11 25' (H224532-11)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/29/2022	ND	2.14	107	2.00	3.80	
Toluene*	0.109	0.050	09/29/2022	ND	2.02	101	2.00	4.32	
Ethylbenzene*	0.115	0.050	09/29/2022	ND	1.94	97.1	2.00	4.04	
Total Xylenes*	2.07	0.150	09/29/2022	ND	6.00	99.9	6.00	3.47	
Total BTEX	2.29	0.300	09/29/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/30/2022	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	53.1	10.0	09/29/2022	ND	220	110	200	5.38	
DRO >C10-C28*	411	10.0	09/29/2022	ND	206	103	200	7.03	
EXT DRO >C28-C36	<10.0	10.0	09/29/2022	ND					

Surrogate: 1-Chlorooctane 90.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 108 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/29/2022	Sampling Date:	09/29/2022
Reported:	10/03/2022	Sampling Type:	Soil
Project Name:	STATE 1-2	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Jodi Henson
Project Location:	JAL, NM		

Sample ID: SW - 1 5' (H224532-12)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/29/2022	ND	2.14	107	2.00	3.80		
Toluene*	<0.050	0.050	09/29/2022	ND	2.02	101	2.00	4.32		
Ethylbenzene*	<0.050	0.050	09/29/2022	ND	1.94	97.1	2.00	4.04		
Total Xylenes*	<0.150	0.150	09/29/2022	ND	6.00	99.9	6.00	3.47		
Total BTEX	<0.300	0.300	09/29/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.3 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	09/30/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/29/2022	ND	220	110	200	5.38		
DRO >C10-C28*	141	10.0	09/29/2022	ND	206	103	200	7.03		
EXT DRO >C28-C36	<10.0	10.0	09/29/2022	ND						

Surrogate: 1-Chlorooctane 80.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 95.3 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/29/2022	Sampling Date:	09/29/2022
Reported:	10/03/2022	Sampling Type:	Soil
Project Name:	STATE 1-2	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Jodi Henson
Project Location:	JAL, NM		

Sample ID: SW - 2 5' (H224532-13)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/29/2022	ND	2.14	107	2.00	3.80		
Toluene*	<0.050	0.050	09/29/2022	ND	2.02	101	2.00	4.32		
Ethylbenzene*	<0.050	0.050	09/29/2022	ND	1.94	97.1	2.00	4.04		
Total Xylenes*	<0.150	0.150	09/29/2022	ND	6.00	99.9	6.00	3.47		
Total BTEX	<0.300	0.300	09/29/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.7 % 69.9-140

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	09/30/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/30/2022	ND	220	110	200	5.38		
DRO >C10-C28*	145	10.0	09/30/2022	ND	206	103	200	7.03		
EXT DRO >C28-C36	<10.0	10.0	09/30/2022	ND						

Surrogate: 1-Chlorooctane 71.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 85.4 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/29/2022
 Reported: 10/03/2022
 Project Name: STATE 1-2
 Project Number: CIMAREX
 Project Location: JAL, NM

Sampling Date: 09/29/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SW - 3 5' (H224532-14)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/29/2022	ND	2.14	107	2.00	3.80		
Toluene*	<0.050	0.050	09/29/2022	ND	2.02	101	2.00	4.32		
Ethylbenzene*	<0.050	0.050	09/29/2022	ND	1.94	97.1	2.00	4.04		
Total Xylenes*	<0.150	0.150	09/29/2022	ND	6.00	99.9	6.00	3.47		
Total BTEX	<0.300	0.300	09/29/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.2 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/30/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/30/2022	ND	220	110	200	5.38		
DRO >C10-C28*	13.0	10.0	09/30/2022	ND	206	103	200	7.03		
EXT DRO >C28-C36	<10.0	10.0	09/30/2022	ND						

Surrogate: 1-Chlorooctane 89.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 104 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/29/2022	Sampling Date:	09/29/2022
Reported:	10/03/2022	Sampling Type:	Soil
Project Name:	STATE 1-2	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Jodi Henson
Project Location:	JAL, NM		

Sample ID: SW - 4 10' (H224532-15)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/29/2022	ND	2.14	107	2.00	3.80		
Toluene*	<0.050	0.050	09/29/2022	ND	2.02	101	2.00	4.32		
Ethylbenzene*	<0.050	0.050	09/29/2022	ND	1.94	97.1	2.00	4.04		
Total Xylenes*	<0.150	0.150	09/29/2022	ND	6.00	99.9	6.00	3.47		
Total BTEX	<0.300	0.300	09/29/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.0 % 69.9-140

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	09/30/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/30/2022	ND	220	110	200	5.38		
DRO >C10-C28*	46.4	10.0	09/30/2022	ND	206	103	200	7.03		
EXT DRO >C28-C36	<10.0	10.0	09/30/2022	ND						

Surrogate: 1-Chlorooctane 81.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 96.7 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/29/2022	Sampling Date:	09/29/2022
Reported:	10/03/2022	Sampling Type:	Soil
Project Name:	STATE 1-2	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Jodi Henson
Project Location:	JAL, NM		

Sample ID: SW - 5 10' (H224532-16)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/29/2022	ND	2.14	107	2.00	3.80		
Toluene*	<0.050	0.050	09/29/2022	ND	2.02	101	2.00	4.32		
Ethylbenzene*	<0.050	0.050	09/29/2022	ND	1.94	97.1	2.00	4.04		
Total Xylenes*	<0.150	0.150	09/29/2022	ND	6.00	99.9	6.00	3.47		
Total BTEX	<0.300	0.300	09/29/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.2 % 69.9-140

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	09/30/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/30/2022	ND	211	105	200	6.40		
DRO >C10-C28*	<10.0	10.0	09/30/2022	ND	204	102	200	10.8		
EXT DRO >C28-C36	<10.0	10.0	09/30/2022	ND						

Surrogate: 1-Chlorooctane 80.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 95.2 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/29/2022
 Reported: 10/03/2022
 Project Name: STATE 1-2
 Project Number: CIMAREX
 Project Location: JAL, NM

Sampling Date: 09/29/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SW - 6 15' (H224532-17)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/29/2022	ND	2.14	107	2.00	3.80		
Toluene*	<0.050	0.050	09/29/2022	ND	2.02	101	2.00	4.32		
Ethylbenzene*	<0.050	0.050	09/29/2022	ND	1.94	97.1	2.00	4.04		
Total Xylenes*	<0.150	0.150	09/29/2022	ND	6.00	99.9	6.00	3.47		
Total BTEX	<0.300	0.300	09/29/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.9 % 69.9-140

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	09/30/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/30/2022	ND	211	105	200	6.40		
DRO >C10-C28*	<10.0	10.0	09/30/2022	ND	204	102	200	10.8		
EXT DRO >C28-C36	<10.0	10.0	09/30/2022	ND						

Surrogate: 1-Chlorooctane 81.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 96.1 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/29/2022
 Reported: 10/03/2022
 Project Name: STATE 1-2
 Project Number: CIMAREX
 Project Location: JAL, NM

Sampling Date: 09/29/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SW - 7 15' (H224532-18)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/29/2022	ND	2.14	107	2.00	3.80	
Toluene*	<0.050	0.050	09/29/2022	ND	2.02	101	2.00	4.32	
Ethylbenzene*	<0.050	0.050	09/29/2022	ND	1.94	97.1	2.00	4.04	
Total Xylenes*	<0.150	0.150	09/29/2022	ND	6.00	99.9	6.00	3.47	
Total BTEX	<0.300	0.300	09/29/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.6 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/30/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/30/2022	ND	211	105	200	6.40	
DRO >C10-C28*	<10.0	10.0	09/30/2022	ND	204	102	200	10.8	
EXT DRO >C28-C36	<10.0	10.0	09/30/2022	ND					

Surrogate: 1-Chlorooctane 76.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 90.0 % 46.3-178

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/29/2022
 Reported: 10/03/2022
 Project Name: STATE 1-2
 Project Number: CIMAREX
 Project Location: JAL, NM

Sampling Date: 09/29/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SW - 8 25' (H224532-19)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/29/2022	ND	2.14	107	2.00	3.80	
Toluene*	<0.050	0.050	09/29/2022	ND	2.02	101	2.00	4.32	
Ethylbenzene*	<0.050	0.050	09/29/2022	ND	1.94	97.1	2.00	4.04	
Total Xylenes*	<0.150	0.150	09/29/2022	ND	6.00	99.9	6.00	3.47	
Total BTEX	<0.300	0.300	09/29/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.2 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/30/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/30/2022	ND	211	105	200	6.40	
DRO >C10-C28*	33.2	10.0	09/30/2022	ND	204	102	200	10.8	
EXT DRO >C28-C36	<10.0	10.0	09/30/2022	ND					

Surrogate: 1-Chlorooctane 84.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 101 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/29/2022	Sampling Date:	09/29/2022
Reported:	10/03/2022	Sampling Type:	Soil
Project Name:	STATE 1-2	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Jodi Henson
Project Location:	JAL, NM		

Sample ID: SW - 9 25' (H224532-20)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/29/2022	ND	2.06	103	2.00	4.26	
Toluene*	<0.050	0.050	09/29/2022	ND	2.01	100	2.00	3.94	
Ethylbenzene*	<0.050	0.050	09/29/2022	ND	1.93	96.3	2.00	4.40	
Total Xylenes*	<0.150	0.150	09/29/2022	ND	5.98	99.6	6.00	3.71	
Total BTEX	<0.300	0.300	09/29/2022	ND					

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

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	09/30/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/30/2022	ND	211	105	200	6.40	
DRO >C10-C28*	37.5	10.0	09/30/2022	ND	204	102	200	10.8	
EXT DRO >C28-C36	<10.0	10.0	09/30/2022	ND					

Surrogate: 1-Chlorooctane 76.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 92.4 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/29/2022	Sampling Date:	09/29/2022
Reported:	10/03/2022	Sampling Type:	Soil
Project Name:	STATE 1-2	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Jodi Henson
Project Location:	JAL, NM		

Sample ID: SW - 10 25' (H224532-21)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/29/2022	ND	2.06	103	2.00	4.26	
Toluene*	<0.050	0.050	09/29/2022	ND	2.01	100	2.00	3.94	
Ethylbenzene*	<0.050	0.050	09/29/2022	ND	1.93	96.3	2.00	4.40	
Total Xylenes*	<0.150	0.150	09/29/2022	ND	5.98	99.6	6.00	3.71	
Total BTEX	<0.300	0.300	09/29/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	09/30/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/30/2022	ND	211	105	200	6.40	
DRO >C10-C28*	<10.0	10.0	09/30/2022	ND	204	102	200	10.8	
EXT DRO >C28-C36	<10.0	10.0	09/30/2022	ND					

Surrogate: 1-Chlorooctane 81.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 97.7 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/29/2022	Sampling Date:	09/29/2022
Reported:	10/03/2022	Sampling Type:	Soil
Project Name:	STATE 1-2	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Jodi Henson
Project Location:	JAL, NM		

Sample ID: SW - 11 25' (H224532-22)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/29/2022	ND	2.06	103	2.00	4.26	
Toluene*	<0.050	0.050	09/29/2022	ND	2.01	100	2.00	3.94	
Ethylbenzene*	<0.050	0.050	09/29/2022	ND	1.93	96.3	2.00	4.40	
Total Xylenes*	<0.150	0.150	09/29/2022	ND	5.98	99.6	6.00	3.71	
Total BTEX	<0.300	0.300	09/29/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/30/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/30/2022	ND	211	105	200	6.40	
DRO >C10-C28*	40.7	10.0	09/30/2022	ND	204	102	200	10.8	
EXT DRO >C28-C36	<10.0	10.0	09/30/2022	ND					

Surrogate: 1-Chlorooctane 75.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 90.0 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/29/2022	Sampling Date:	09/29/2022
Reported:	10/03/2022	Sampling Type:	Soil
Project Name:	STATE 1-2	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Jodi Henson
Project Location:	JAL, NM		

Sample ID: SW - 12 25' (H224532-23)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/29/2022	ND	2.06	103	2.00	4.26	
Toluene*	0.095	0.050	09/29/2022	ND	2.01	100	2.00	3.94	
Ethylbenzene*	0.130	0.050	09/29/2022	ND	1.93	96.3	2.00	4.40	
Total Xylenes*	1.92	0.150	09/29/2022	ND	5.98	99.6	6.00	3.71	
Total BTEX	2.15	0.300	09/29/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 126 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/30/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	31.7	10.0	09/30/2022	ND	211	105	200	6.40	
DRO >C10-C28*	306	10.0	09/30/2022	ND	204	102	200	10.8	
EXT DRO >C28-C36	<10.0	10.0	09/30/2022	ND					

Surrogate: 1-Chlorooctane 84.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 101 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/29/2022	Sampling Date:	09/29/2022
Reported:	10/03/2022	Sampling Type:	Soil
Project Name:	STATE 1-2	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Jodi Henson
Project Location:	JAL, NM		

Sample ID: SW - 13 25' (H224532-24)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/29/2022	ND	2.06	103	2.00	4.26	
Toluene*	<0.050	0.050	09/29/2022	ND	2.01	100	2.00	3.94	
Ethylbenzene*	0.075	0.050	09/29/2022	ND	1.93	96.3	2.00	4.40	
Total Xylenes*	1.19	0.150	09/29/2022	ND	5.98	99.6	6.00	3.71	
Total BTEX	1.27	0.300	09/29/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 123 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/30/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	31.3	10.0	10/01/2022	ND	211	105	200	6.40	
DRO >C10-C28*	318	10.0	10/01/2022	ND	204	102	200	10.8	
EXT DRO >C28-C36	<10.0	10.0	10/01/2022	ND					

Surrogate: 1-Chlorooctane 89.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 103 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/29/2022	Sampling Date:	09/29/2022
Reported:	10/03/2022	Sampling Type:	Soil
Project Name:	STATE 1-2	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Jodi Henson
Project Location:	JAL, NM		

Sample ID: SW - 14 25' (H224532-25)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/29/2022	ND	2.06	103	2.00	4.26	
Toluene*	0.090	0.050	09/29/2022	ND	2.01	100	2.00	3.94	
Ethylbenzene*	0.119	0.050	09/29/2022	ND	1.93	96.3	2.00	4.40	
Total Xylenes*	1.83	0.150	09/29/2022	ND	5.98	99.6	6.00	3.71	
Total BTEX	2.04	0.300	09/29/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 124 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/30/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	37.8	10.0	10/01/2022	ND	211	105	200	6.40	
DRO >C10-C28*	305	10.0	10/01/2022	ND	204	102	200	10.8	
EXT DRO >C28-C36	<10.0	10.0	10/01/2022	ND					

Surrogate: 1-Chlorooctane 84.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 96.5 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/29/2022	Sampling Date:	09/29/2022
Reported:	10/03/2022	Sampling Type:	Soil
Project Name:	STATE 1-2	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Jodi Henson
Project Location:	JAL, NM		

Sample ID: SW - 15 25' (H224532-26)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/29/2022	ND	2.06	103	2.00	4.26	
Toluene*	0.073	0.050	09/29/2022	ND	2.01	100	2.00	3.94	
Ethylbenzene*	0.094	0.050	09/29/2022	ND	1.93	96.3	2.00	4.40	
Total Xylenes*	1.55	0.150	09/29/2022	ND	5.98	99.6	6.00	3.71	
Total BTEX	1.72	0.300	09/29/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 122 % 69.9-140

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	09/30/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	35.3	10.0	10/01/2022	ND	211	105	200	6.40	
DRO >C10-C28*	300	10.0	10/01/2022	ND	204	102	200	10.8	
EXT DRO >C28-C36	<10.0	10.0	10/01/2022	ND					

Surrogate: 1-Chlorooctane 87.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 102 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/29/2022
 Reported: 10/03/2022
 Project Name: STATE 1-2
 Project Number: CIMAREX
 Project Location: JAL, NM

Sampling Date: 09/29/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: BG - 1 0-1' (H224532-27)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/29/2022	ND	2.06	103	2.00	4.26	
Toluene*	<0.050	0.050	09/29/2022	ND	2.01	100	2.00	3.94	
Ethylbenzene*	<0.050	0.050	09/29/2022	ND	1.93	96.3	2.00	4.40	
Total Xylenes*	<0.150	0.150	09/29/2022	ND	5.98	99.6	6.00	3.71	
Total BTEX	<0.300	0.300	09/29/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/30/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/01/2022	ND	211	105	200	6.40	
DRO >C10-C28*	<10.0	10.0	10/01/2022	ND	204	102	200	10.8	
EXT DRO >C28-C36	<10.0	10.0	10/01/2022	ND					

Surrogate: 1-Chlorooctane 83.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 97.7 % 46.3-178

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/29/2022	Sampling Date:	09/29/2022
Reported:	10/03/2022	Sampling Type:	Soil
Project Name:	STATE 1-2	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Jodi Henson
Project Location:	JAL, NM		

Sample ID: BG - 2 0-1' (H224532-28)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/29/2022	ND	2.06	103	2.00	4.26	
Toluene*	<0.050	0.050	09/29/2022	ND	2.01	100	2.00	3.94	
Ethylbenzene*	<0.050	0.050	09/29/2022	ND	1.93	96.3	2.00	4.40	
Total Xylenes*	<0.150	0.150	09/29/2022	ND	5.98	99.6	6.00	3.71	
Total BTEX	<0.300	0.300	09/29/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/30/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/01/2022	ND	211	105	200	6.40	
DRO >C10-C28*	<10.0	10.0	10/01/2022	ND	204	102	200	10.8	
EXT DRO >C28-C36	<10.0	10.0	10/01/2022	ND					

Surrogate: 1-Chlorooctane 81.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 95.5 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/29/2022	Sampling Date:	09/29/2022
Reported:	10/03/2022	Sampling Type:	Soil
Project Name:	STATE 1-2	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Jodi Henson
Project Location:	JAL, NM		

Sample ID: BG - 3 0-1' (H224532-29)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/29/2022	ND	2.06	103	2.00	4.26	
Toluene*	<0.050	0.050	09/29/2022	ND	2.01	100	2.00	3.94	
Ethylbenzene*	<0.050	0.050	09/29/2022	ND	1.93	96.3	2.00	4.40	
Total Xylenes*	<0.150	0.150	09/29/2022	ND	5.98	99.6	6.00	3.71	
Total BTEX	<0.300	0.300	09/29/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/30/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/01/2022	ND	211	105	200	6.40	
DRO >C10-C28*	<10.0	10.0	10/01/2022	ND	204	102	200	10.8	
EXT DRO >C28-C36	<10.0	10.0	10/01/2022	ND					

Surrogate: 1-Chlorooctane 81.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 95.4 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/29/2022	Sampling Date:	09/29/2022
Reported:	10/03/2022	Sampling Type:	Soil
Project Name:	STATE 1-2	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Jodi Henson
Project Location:	JAL, NM		

Sample ID: BG - 4 0-1' (H224532-30)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/29/2022	ND	2.06	103	2.00	4.26	
Toluene*	<0.050	0.050	09/29/2022	ND	2.01	100	2.00	3.94	
Ethylbenzene*	<0.050	0.050	09/29/2022	ND	1.93	96.3	2.00	4.40	
Total Xylenes*	<0.150	0.150	09/29/2022	ND	5.98	99.6	6.00	3.71	
Total BTEX	<0.300	0.300	09/29/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/30/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/01/2022	ND	211	105	200	6.40	
DRO >C10-C28*	<10.0	10.0	10/01/2022	ND	204	102	200	10.8	
EXT DRO >C28-C36	<10.0	10.0	10/01/2022	ND					

Surrogate: 1-Chlorooctane 79.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 91.8 % 46.3-178

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Notes and Definitions

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

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: H+R ENTERPRISES Project Manager: M. COLLIER		P.O. #: Company: CLIMAREX Attn: LRAI WILG	
Address: City: State: Zip:		Address: City: State: Zip:	
Phone #: Fax #: Project #: Project Owner: CLIMAREX		City: State: Zip:	
Project Name: STATE 1-2 Project Location: LEA COUNTY, NM		Phone #: Fax #:	
Sampler Name: K. BEU		FOR LAB USE ONLY	

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	ANALYSIS REQUEST
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :			
H224532												
11	S-11 25'	C	1			X				9-29-22		X BTEX
12	SW-1 5'											X TPH
13	SW-2 5'											X CHLORIDES
14	SW-3 5'											
15	SW-4 10'											
16	SW-5 10'											
17	SW-6 15'											
18	SW-7 15'											
19	SW-8 25'											
20	SW-9 25'											

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Relinquished By: <i>[Signature]</i> Date: 12:50 Time: 4:00 PM Received By: <i>[Signature]</i>	Date Received By: 12/29/22 Time: 12:50 Received By: <i>[Signature]</i>
--	--

Delivered By: (Circle One) UPS Bus Other: **03**

Observed Temp. °C: **0.9** Corrected Temp. °C: **0.3**

Sample Condition: Intact Cool Yes No

Checked By: *[Signature]*

Turnaround Time: **48 HR RUSH**

Thermometer ID #113 Correction Factor -0.5°C

Standard Bacteria (only) Sample Condition Cool Intact Yes No

Remarks: **48 HR RUSH**

Verbal Result: Yes No Add'l Phone #:

All Results are emailed. Please provide Email address:

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: **HTR ENTERPRISES** P.O. #:
 Project Manager: **N. COUER** Company: **CINAREX**
 Address: Attn: **LRL WIG**
 City: State: Zip: Address:
 Phone #: Fax #: City: Address:
 Project #: Project Owner: **CINAREX** City: State: Zip:
 Project Name: **STATE 1-2** State: Zip:
 Project Location: **LEA COUNTY, NM** Phone #: Fax #:
 Sampler Name: **R. BELL**

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	BTEX	TPH	CHLORIDES
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
<i>H24532</i>	Sw-10 25'	C	1			X				9-29-22				
	Sw-11 25'													
	Sw-12 25'													
	Sw-13 25'													
	Sw-14 25'													
	Sw-15 25'													
	Bt-1 0-1'													
	Bt-2 0-1'													
	Bt-3 0-1'													
	Bt-4 0-1'													

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Relinquished By: *[Signature]* Date: *9/29/22* Received By: *[Signature]* Date: *9/29/22*
 Time: *11:50* Received By: *[Signature]* Date: *9/29/22*
 Time: *11:50*

Delivered By: (Circle One) Observed Temp. °C: *D.9* Sample Condition: Intact Cool Yes No
 Corrected Temp. °C: *D.3* Yes No

Turnaround Time: Standard Rush Bacteria (only) Sample Condition Observed Temp. °C Corrected Temp. °C
 Verbal Result: Yes No Add'l Phone #:
 All Results are emailed. Please provide Email address:
 REMARKS: *48HR RUSH*

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

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

CONDITIONS

Action 149704

CONDITIONS

Operator: CIMAREX ENERGY CO. OF COLORADO 600 N. Marienfeld Street Midland, TX 79701	OGRID: 162683
	Action Number: 149704
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved.	10/25/2022