

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

## Site Assessment and Closure Report

Oracle 21 Federal #004 Incident# 2RP-4183/nAB1711542974 Eddy 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

## April 17, 2023

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

Subject: Site Assessment and Closure Report Oracle 21 Federal #004 Eddy County, NM

Dear Mrs. Nobui,

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

### **Site Information**

The Oracle 21 Federal #004 is located approximately 13.7 miles Southeast of Whites City, New Mexico. The legal location for this release is Unit Letter C, Section 21, Township 25 South and Range 26 East in Lea County, New Mexico. More specifically the latitude and longitude for the release are 32.121927 North and -104.301548 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 Reeves- Gypsum land complex, 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 located in a high Karst potential area (Karst Map, Appendix I).

### **Groundwater and Site Characterization**

The New Mexico Office of the State Engineer web site indicates that the nearest reported depth to groundwater is 118-feet below ground surface (BGS). See Appendix II for the referenced groundwater data.

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

### Approximate Depth to Groundwater

118 Feet/BGS

Yes	No	Within 300 feet of any continuously flowing watercourse or any other significant watercourse
Yes	No	Within 200 feet of any lakebed, sinkhole, or a playa lake
Yes	No	Within 300 feet from an occupied permanent residence, school, hospital, institution, or church
Yes	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
Yes	No	Within 1000 feet of any freshwater well or spring
Yes	No	Within incorporated municipal boundaries or within a defined municipal freshwater well field covered under a municipal ordinance adopted pursuant to Section 3-2703 NMSA 1978
Yes	No	Within 300 feet of a wetland
Yes	No	Within the area overlying a subsurface mine
⊠Yes	No	Within an unstable area
Yes	No	Within a 100-year floodplain

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	Ta	able I	
	Closure Criteria for So	ils Impacted by a Releas	e
Minimum depth	Constituent	Method*	Limit**
below any point			
within the horizontal			
boundary of the			
release to ground			
water less than			
10,000 mg/I TDS			
<u>&lt;</u> 50 feet	Chloride **	EPA 300.0 or	600 mg/kg
		SM4500 CIB	
	ТРН	EPA SW-846	100 mg/kg
	(GRO+DRO+MRO)	Method 8015M	
	BTEX	EPA SW-846	50 mg/kg
		Method 8021B or	
		8260B	
	Benzene	EPA SW-846	10 mg/kg

As this ROW release is in a high karst area, the closure criteria for this site are as follows:

### **Incident Description**

8260B

Method 8021B or

On April 11, 2017, the BLM did a controlled burn and approximately 600-feet of 4-inch poly pipe was impacted by the fire. The damage was noticed on April 20, 2017 when the pumper turned on the transfer pump and he saw water shoot up in the pasture north of the location. Approximately 20 barrels of produced water was released with 0 barrels being recovered.

### Site Assessment Activities

H&R mobilized on April 4, 2023 to begin site assessment activities of the location to address the remediated, but unconfirmed area highlighted in the May 2, 2018 Work Plan. Grab samples were obtained by way of hand auger. Samples collected were transported to Cardinal Laboratory for analysis, and the results are presented in the following data table. Initial site assessment sampling locations are illustrated on Site Assessment Map, Appendix I. Photographs of the sampling locations as well as of the historical spill area are attached in Appendix IV. Complete laboratory reports can be found in Appendix V.

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 Tabl	e 1 Closure Crit NMAC	teria 19.15.29	50 mg/kg	10 mg/kg		100 mg/kg		100 mg/kg	600 mg/kg
		0-1'	ND	ND	ND	ND	ND	0	32
S-1	4/4/2023	2'	ND	ND	ND	ND	ND	0	16
		3' R	ND	ND	ND	ND	ND	0	16
		0-1'	ND	ND	ND	ND	ND	0	32
S-2	4/4/2023	2'	ND	ND	ND	ND	ND	0	32
5-2	4/4/2023	3'	ND	ND	ND	ND	ND	0	32
		4'	ND	ND	ND	ND	ND	0	16
S-3	4/4/2023	0-1'	ND	ND	ND	ND	ND	0	32
3-3	4/4/2023	2' R	ND	ND	ND	ND	ND	0	32
S-4	4/4/2023	0-1'	ND	ND	ND	ND	ND	0	32
3-4	4/4/2023	2' R	ND	ND	ND	ND	ND	0	16
H-1	4/4/2023	0-1'	ND	ND	ND	ND	ND	0	32
H-2	4/4/2023	0-1'	ND	ND	ND	ND	ND	0	16
H-3	4/4/2023	0-1'	ND	ND	ND	ND	ND	0	32
H-4	4/4/2023	0-1'	ND	ND	ND	ND	ND	0	32
H-5	4/4/2023	0-1'	ND	ND	ND	ND	ND	0	32
H-6	4/4/2023	0-1'	ND	ND	ND	ND	ND	0	32
H-7	4/4/2023	0-1'	ND	ND	ND	ND	ND	0	16
H-8	4/4/2023	0-1'	ND	ND	ND	ND	ND	0	16
H-9	4/4/2023	0-1'	ND	ND	ND	ND	ND	0	32
		ND = 4	Analyte Not De	tected H = Ho	rizontal Sample	e S = Vertical Sa	ample		

### Table 1: Initial Soil Samples Analysis

Based on the results of our site assessment it was determined that the spill area was remediated during repairs on the buried high pressure gas line that is buried under the spill path. The poly pipe from which the spill originated has since been removed due to the reclamation of the Oracle 21 Federal #004 well pad.

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### Closure

Based on the site assessment 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

Michael Collier Environmental Project Manager

Attachments:

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

# **APPENDIX I**

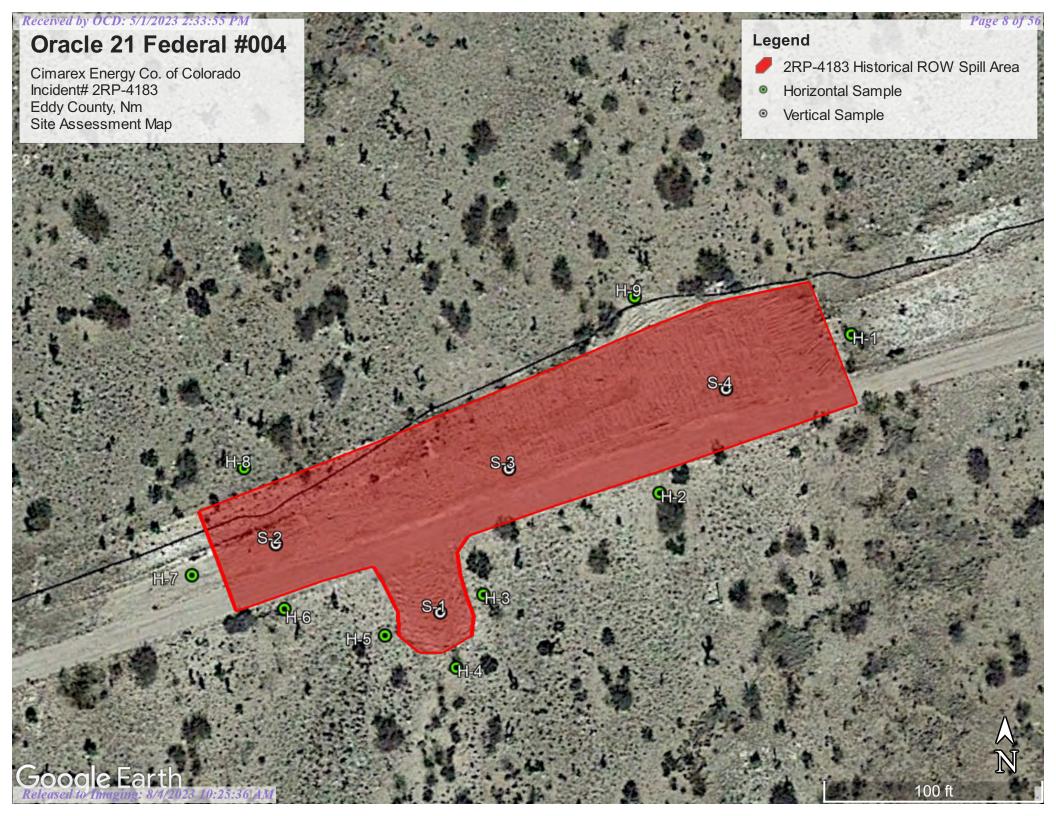
# **SITE MAPS**

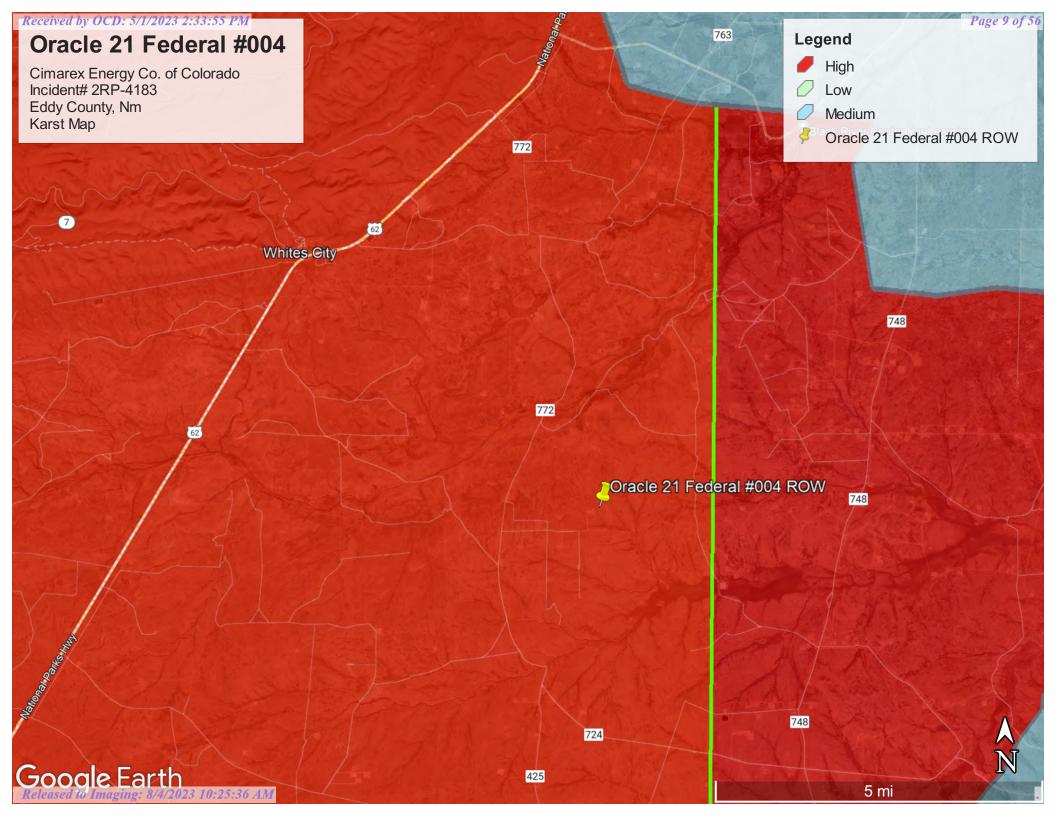
# **KARST MAP**

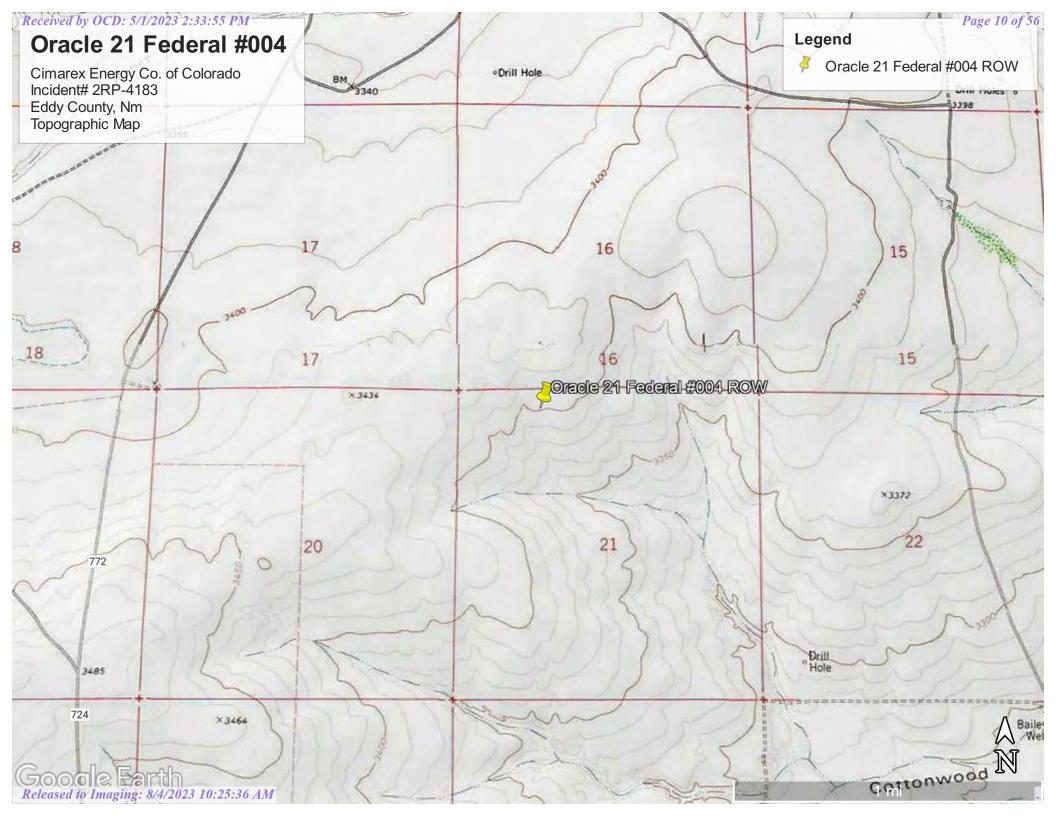
# **TOPOGRAPHIC MAP**

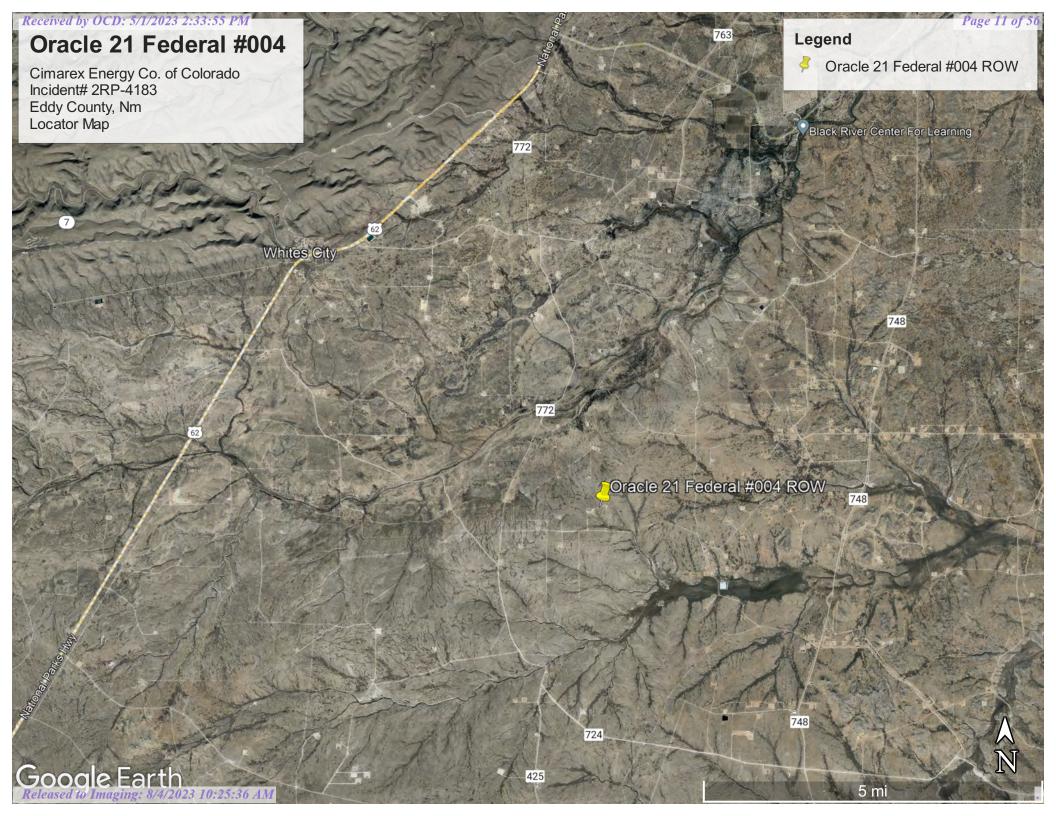
# LOCATOR MAP

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# **APPENDIX II**

# **GROUNDWATER DATA**

# **SOIL SURVEY**

# FEMA FLOOD ZONE

?

# New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been	(R=POD has be replaced, O=orphaned,	een	(			1							
replaced & no longer serves a water right	C=the file is		(qu	arte	rs are	I=N W	2=NE :	3=SW 4=S	E)				
file.)	closed)		(qu	arte	rs are	smalle	st to larg	gest) (	NAD83 UTM ir	meters)	(In i	feet)	
	POI Sub		QQ	2 Q								W	ater
POD Number	Code basi	n County	64 10	54	Sec	Tws	Rng	X	Y	DistanceDept	-		lumn
<u>C 01368</u>	C	ED	1	1	22	25S	26E	567261	3554059*	1375	143	118	25
<u>C 03655 POD3</u>	CUI	B ED	1 4	4	22	25S	26E	568458	3553019	2812			
<u>C 02675</u>	C	ED	1 4	1	09	25S	26E	565907	3556978*	2814	180	45	135
									Ave	erage Depth to Water	r:	81 fee	t
										Minimum Dep	th:	45 fee	t
										Maximum Dept	h:	118 fee	t
Record Count: 3													
<b>Basin/County Sear</b>	<u>ch:</u>												
County: Eddy													
UTMNAD83 Radiu	<u>1s Search (in mete</u>	ers):											
Easting (X): 565	5889.24	Nort	hing (Y	<b>():</b>	3554	163.16			<b>Radius:</b> 3000	)			
*UTM location was derive	ed from PLSS - see	Help											
The data is furnished by the the accuracy, completeness.	e NMOSE/ISC and i	s accepted by							g that the OSE/IS	C make no warranties	, expressed o	or implied, con	cerning

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WATER COLUMN/ AVERAGE DEPTH TO WATER

## Eddy Area, New Mexico

### RG—Reeves-Gypsum land complex, 0 to 3 percent slopes

### Map Unit Setting

National map unit symbol: 1w5f Elevation: 1,250 to 5,000 feet Mean annual precipitation: 10 to 25 inches Mean annual air temperature: 57 to 70 degrees F Frost-free period: 190 to 235 days Farmland classification: Not prime farmland

### **Map Unit Composition**

Reeves and similar soils: 55 percent Gypsum land: 30 percent Minor components: 15 percent Estimates are based on observations, descriptions, and transects of the mapunit.

### **Description of Reeves**

### Setting

Landform: Ridges, plains, hills Landform position (two-dimensional): Shoulder, backslope, footslope, toeslope Landform position (three-dimensional): Side slope, head slope, nose slope, crest Down-slope shape: Convex Across-slope shape: Linear Parent material: Residuum weathered from gypsum

### **Typical profile**

H1 - 0 to 8 inches: loam
H2 - 8 to 32 inches: clay loam
H3 - 32 to 60 inches: gypsiferous material

### **Properties and qualities**

Slope: 0 to 1 percent
Depth to restrictive feature: More than 80 inches
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: 25 percent
Gypsum, maximum content: 80 percent
Maximum salinity: Very slightly saline to moderately saline (2.0 to 8.0 mmhos/cm)
Sodium adsorption ratio, maximum: 4.0
Available water supply, 0 to 60 inches: Low (about 4.3 inches)

### Interpretive groups

Land capability classification (irrigated): 3s Land capability classification (nonirrigated): 7s Hydrologic Soil Group: B Ecological site: R070BC007NM - Loamy Hydric soil rating: No

### **Description of Gypsum Land**

### Setting

Landform: Ridges, plains, hills Landform position (two-dimensional): Shoulder, backslope, footslope, toeslope Landform position (three-dimensional): Side slope, head slope, nose slope, crest Down-slope shape: Convex Across-slope shape: Linear Parent material: Residuum weathered from gypsum

### Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 8s Hydric soil rating: No

### **Minor Components**

#### Largo

Percent of map unit: 5 percent Ecological site: R070BC007NM - Loamy Hydric soil rating: No

### Reagan

Percent of map unit: 5 percent Ecological site: R070BC007NM - Loamy Hydric soil rating: No

### Cottonwood

Percent of map unit: 5 percent Ecological site: R070BC033NM - Salty Bottomland Hydric soil rating: No

### **Data Source Information**

Soil Survey Area: Eddy Area, New Mexico Survey Area Data: Version 18, Sep 8, 2022

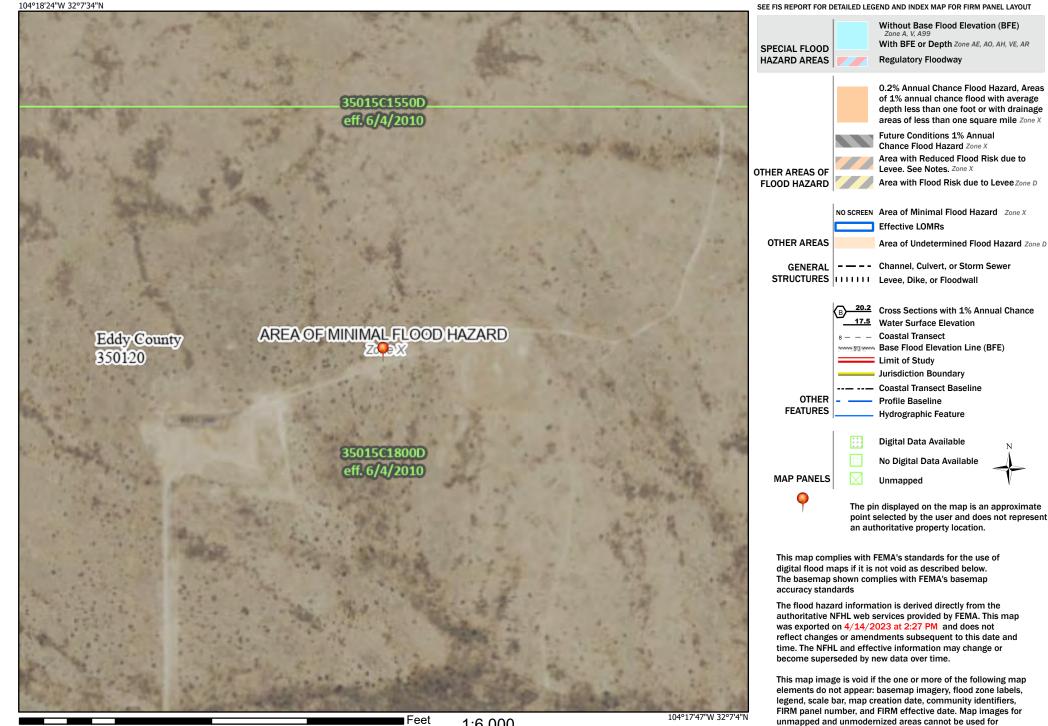


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### Legend

### Page 16 of 56



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Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020

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# **INITIAL C-141**

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Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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# Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

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

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

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

Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
Field data
Data table of soil contaminant concentration data
Depth to water determination
Determination of water sources and significant watercourses within 1/2-mile of the lateral extents of the release
Boring or excavation logs
Photographs including date and GIS information
Topographic/Aerial maps

Laboratory data including chain of custody

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

Received by OCD: 5/1/2023	3 2:33:55 PM State of New Mexico			Page 20 of 56
Form C-141			Incident ID	
Page 4	Oil Conservation Division	n	District RP	
			Facility ID	
			Application ID	
regulations all operators are n public health or the environm failed to adequately investiga	$\bigcirc$	<pre>notifications and perform c ne OCD does not relieve the hreat to groundwater, surfa of responsibility for comp  Title:  Date:</pre>	orrective actions for rele e operator of liability sh ace water, human health liance with any other fe	eases which may endanger nould their operations have a or the environment. In ederal, state, or local laws
OCD Only				
Received by: Joc	elyn Harimon	Date:0	5/01/2023	

Incident ID	
District RP	
Facility ID	
Application ID	

# Closure

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

<b><u>Closure Report Attachment Checklist</u>:</b> Each of the following in	tems must be included in the closure report.
A scaled site and sampling diagram as described in 19.15.29.1	1 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
Laboratory analyses of final sampling (Note: appropriate ODC	C District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and rer human health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regula restore, reclaim, and re-vegetate the impacted surface area to the co accordance with 19.15.29.13 NMAC including notification to the O Printed Name:	tions. The responsible party acknowledges they must substantially nditions that existed prior to the release or their final land use in
email:	Telephone:
OCD Only	
Received by: Jocelyn Harimon	Date: 08/01/2023
remediate contamination that poses a threat to groundwater, surface of party of compliance with any other federal, state, or local laws and/	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.
Closure Approved by uttan Hall	Date: <u>8/4/2023</u>
Printed Name: Brittany Hall	Title:Environmental Specialist

Form C-1 Page 6



Released to Imaging: 8/4/2023 10:25:36 AM

### **SAMPLE LOCATION PHOTOGRAPHS**



HISTORICAL ROW SPILL AREA



HISTORICAL ROW SPILL AREA

### **SAMPLE LOCATION PHOTOGRAPHS**



HISTORICAL ROW SPILL AREA



S-1

### **SAMPLE LOCATION PHOTOGRAPHS**



S-2



S-4

### SAMPLE LOCATION PHOTOGRAPHS



H-1



### **SAMPLE LOCATION PHOTOGRAPHS**



H-3



### **SAMPLE LOCATION PHOTOGRAPHS**



H-5



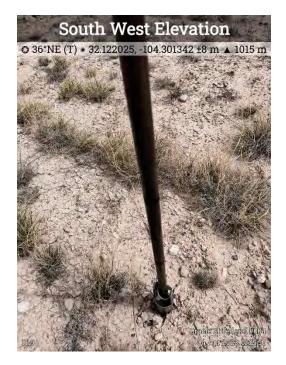
### **SAMPLE LOCATION PHOTOGRAPHS**



H-7



### **SAMPLE LOCATION PHOTOGRAPHS**



H-9

Page 30 of 56

.



# LABORATORY REPORTS

Released to Imaging: 8/4/2023 10:25:36 AM



April 12, 2023

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

RE: ORACLE 21 FEDERAL #004 (ORACLE)

Enclosed are the results of analyses for samples received by the laboratory on 04/05/23 16:45.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	04/05/2023	Sampling Date:	04/04/2023
Reported:	04/12/2023	Sampling Type:	Soil
Project Name:	ORACLE 21 FEDERAL #004 (ORACLE)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

#### Sample ID: S - 1 0-1' (H231600-01)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/10/2023	ND	2.00	99.9	2.00	4.05	
Toluene*	<0.050	0.050	04/10/2023	ND	2.05	103	2.00	3.05	
Ethylbenzene*	<0.050	0.050	04/10/2023	ND	2.10	105	2.00	2.96	
Total Xylenes*	<0.150	0.150	04/10/2023	ND	6.40	107	6.00	2.43	
Total BTEX	<0.300	0.300	04/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	% 71.5-13	4						
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	04/11/2023	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/10/2023	ND	189	94.5	200	4.39	
DRO >C10-C28*	<10.0	10.0	04/10/2023	ND	174	87.0	200	6.20	
EXT DRO >C28-C36	<10.0	10.0	04/10/2023	ND					
Surrogate: 1-Chlorooctane	75.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	80.5	% 49.1-14	0						

#### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	04/05/2023	Sampling Date:	04/04/2023
Reported:	04/12/2023	Sampling Type:	Soil
Project Name:	ORACLE 21 FEDERAL #004 (ORACLE)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

#### Sample ID: S - 1 2' (H231600-02)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/10/2023	ND	2.00	99.9	2.00	4.05	
Toluene*	<0.050	0.050	04/10/2023	ND	2.05	103	2.00	3.05	
Ethylbenzene*	<0.050	0.050	04/10/2023	ND	2.10	105	2.00	2.96	
Total Xylenes*	<0.150	0.150	04/10/2023	ND	6.40	107	6.00	2.43	
Total BTEX	<0.300	0.300	04/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 71.5-13	4						
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	04/11/2023	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/10/2023	ND	189	94.5	200	4.39	
DRO >C10-C28*	<10.0	10.0	04/10/2023	ND	174	87.0	200	6.20	
EXT DRO >C28-C36	<10.0	10.0	04/10/2023	ND					
Surrogate: 1-Chlorooctane	80.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.5	% 49.1-14	8						

#### Cardinal Laboratories

\*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	04/05/2023	Sampling Date:	04/04/2023
Reported:	04/12/2023	Sampling Type:	Soil
Project Name:	ORACLE 21 FEDERAL #004 (ORACLE)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

#### Sample ID: S - 1 3' R (H231600-03)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/10/2023	ND	2.00	99.9	2.00	4.05	
Toluene*	<0.050	0.050	04/10/2023	ND	2.05	103	2.00	3.05	
Ethylbenzene*	<0.050	0.050	04/10/2023	ND	2.10	105	2.00	2.96	
Total Xylenes*	<0.150	0.150	04/10/2023	ND	6.40	107	6.00	2.43	
Total BTEX	<0.300	0.300	04/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 71.5-13	4						
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	04/11/2023	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/10/2023	ND	189	94.5	200	4.39	
DRO >C10-C28*	<10.0	10.0	04/10/2023	ND	174	87.0	200	6.20	
EXT DRO >C28-C36	<10.0	10.0	04/10/2023	ND					
Surrogate: 1-Chlorooctane	70.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	77.0	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	04/05/2023	Sampling Date:	04/04/2023
Reported:	04/12/2023	Sampling Type:	Soil
Project Name:	ORACLE 21 FEDERAL #004 (ORACLE)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

#### Sample ID: S - 2 0-1' (H231600-04)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/10/2023	ND	2.00	99.9	2.00	4.05	
Toluene*	<0.050	0.050	04/10/2023	ND	2.05	103	2.00	3.05	
Ethylbenzene*	<0.050	0.050	04/10/2023	ND	2.10	105	2.00	2.96	
Total Xylenes*	<0.150	0.150	04/10/2023	ND	6.40	107	6.00	2.43	
Total BTEX	<0.300	0.300	04/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 71.5-13	4						
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	04/11/2023	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/10/2023	ND	189	94.5	200	4.39	
DRO >C10-C28*	<10.0	10.0	04/10/2023	ND	174	87.0	200	6.20	
EXT DRO >C28-C36	<10.0	10.0	04/10/2023	ND					
Surrogate: 1-Chlorooctane	77.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	84.2	% 49.1-14	8						

#### Cardinal Laboratories

\*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	04/05/2023	Sampling Date:	04/04/2023
Reported:	04/12/2023	Sampling Type:	Soil
Project Name:	ORACLE 21 FEDERAL #004 (ORACLE)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

### Sample ID: S - 2 2' (H231600-05)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/10/2023	ND	2.00	99.9	2.00	4.05	
Toluene*	<0.050	0.050	04/10/2023	ND	2.05	103	2.00	3.05	
Ethylbenzene*	<0.050	0.050	04/10/2023	ND	2.10	105	2.00	2.96	
Total Xylenes*	<0.150	0.150	04/10/2023	ND	6.40	107	6.00	2.43	
Total BTEX	<0.300	0.300	04/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/11/2023	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/10/2023	ND	189	94.5	200	4.39	
DRO >C10-C28*	<10.0	10.0	04/10/2023	ND	174	87.0	200	6.20	
EXT DRO >C28-C36	<10.0	10.0	04/10/2023	ND					
Surrogate: 1-Chlorooctane	85.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.3	% 49.1-14	8						

### Cardinal Laboratories

### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	04/05/2023	Sampling Date:	04/04/2023
Reported:	04/12/2023	Sampling Type:	Soil
Project Name:	ORACLE 21 FEDERAL #004 (ORACLE)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

### Sample ID: S - 2 3' (H231600-06)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/10/2023	ND	1.87	93.5	2.00	5.72	
Toluene*	<0.050	0.050	04/10/2023	ND	1.92	96.0	2.00	5.59	
Ethylbenzene*	<0.050	0.050	04/10/2023	ND	1.97	98.7	2.00	4.86	
Total Xylenes*	<0.150	0.150	04/10/2023	ND	6.13	102	6.00	2.41	
Total BTEX	<0.300	0.300	04/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/11/2023	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/10/2023	ND	189	94.5	200	4.39	
DRO >C10-C28*	<10.0	10.0	04/10/2023	ND	174	87.0	200	6.20	
EXT DRO >C28-C36	<10.0	10.0	04/10/2023	ND					
Surrogate: 1-Chlorooctane	90.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.6	% 49.1-14	8						

### Cardinal Laboratories

\*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	04/05/2023	Sampling Date:	04/04/2023
Reported:	04/12/2023	Sampling Type:	Soil
Project Name:	ORACLE 21 FEDERAL #004 (ORACLE)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

### Sample ID: S - 2 4' (H231600-07)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/10/2023	ND	1.87	93.5	2.00	5.72	
Toluene*	<0.050	0.050	04/10/2023	ND	1.92	96.0	2.00	5.59	
Ethylbenzene*	<0.050	0.050	04/10/2023	ND	1.97	98.7	2.00	4.86	
Total Xylenes*	<0.150	0.150	04/10/2023	ND	6.13	102	6.00	2.41	
Total BTEX	<0.300	0.300	04/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
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	04/11/2023	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/10/2023	ND	189	94.5	200	4.39	
DRO >C10-C28*	<10.0	10.0	04/10/2023	ND	174	87.0	200	6.20	
EXT DRO >C28-C36	<10.0	10.0	04/10/2023	ND					
Surrogate: 1-Chlorooctane	71.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	77.6	% 49.1-14	8						

### Cardinal Laboratories

### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	04/05/2023	Sampling Date:	04/04/2023
Reported:	04/12/2023	Sampling Type:	Soil
Project Name:	ORACLE 21 FEDERAL #004 (ORACLE)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

### Sample ID: S - 3 0-1' (H231600-08)

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/10/2023	ND	1.87	93.5	2.00	5.72	
Toluene*	<0.050	0.050	04/10/2023	ND	1.92	96.0	2.00	5.59	
Ethylbenzene*	<0.050	0.050	04/10/2023	ND	1.97	98.7	2.00	4.86	
Total Xylenes*	<0.150	0.150	04/10/2023	ND	6.13	102	6.00	2.41	
Total BTEX	<0.300	0.300	04/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/11/2023	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/10/2023	ND	189	94.5	200	4.39	
DRO >C10-C28*	<10.0	10.0	04/10/2023	ND	174	87.0	200	6.20	
EXT DRO >C28-C36	<10.0	10.0	04/10/2023	ND					
Surrogate: 1-Chlorooctane	85.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.9	% 49.1-14	8						

### Cardinal Laboratories

### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	04/05/2023	Sampling Date:	04/04/2023
Reported:	04/12/2023	Sampling Type:	Soil
Project Name:	ORACLE 21 FEDERAL #004 (ORACLE)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

### Sample ID: S - 3 2' R (H231600-09)

BTEX 8021B	mg/	′kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/10/2023	ND	1.87	93.5	2.00	5.72	
Toluene*	<0.050	0.050	04/10/2023	ND	1.92	96.0	2.00	5.59	
Ethylbenzene*	<0.050	0.050	04/10/2023	ND	1.97	98.7	2.00	4.86	
Total Xylenes*	<0.150	0.150	04/10/2023	ND	6.13	102	6.00	2.41	
Total BTEX	<0.300	0.300	04/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 71.5-13	4						
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	04/11/2023	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/10/2023	ND	189	94.5	200	4.39	
DRO >C10-C28*	<10.0	10.0	04/10/2023	ND	174	87.0	200	6.20	
EXT DRO >C28-C36	<10.0	10.0	04/10/2023	ND					
Surrogate: 1-Chlorooctane	80.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.6	% 49.1-14	8						

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### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	04/05/2023	Sampling Date:	04/04/2023
Reported:	04/12/2023	Sampling Type:	Soil
Project Name:	ORACLE 21 FEDERAL #004 (ORACLE)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

### Sample ID: S - 4 0-1' (H231600-10)

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/10/2023	ND	1.87	93.5	2.00	5.72	
Toluene*	<0.050	0.050	04/10/2023	ND	1.92	96.0	2.00	5.59	
Ethylbenzene*	<0.050	0.050	04/10/2023	ND	1.97	98.7	2.00	4.86	
Total Xylenes*	<0.150	0.150	04/10/2023	ND	6.13	102	6.00	2.41	
Total BTEX	<0.300	0.300	04/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/11/2023	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/10/2023	ND	189	94.5	200	4.39	
DRO >C10-C28*	<10.0	10.0	04/10/2023	ND	174	87.0	200	6.20	
EXT DRO >C28-C36	<10.0	10.0	04/10/2023	ND					
Surrogate: 1-Chlorooctane	59.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	60.8	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	04/05/2023	Sampling Date:	04/04/2023
Reported:	04/12/2023	Sampling Type:	Soil
Project Name:	ORACLE 21 FEDERAL #004 (ORACLE)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

### Sample ID: S - 4 2' R (H231600-11)

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/10/2023	ND	1.87	93.5	2.00	5.72	
Toluene*	<0.050	0.050	04/10/2023	ND	1.92	96.0	2.00	5.59	
Ethylbenzene*	<0.050	0.050	04/10/2023	ND	1.97	98.7	2.00	4.86	
Total Xylenes*	<0.150	0.150	04/10/2023	ND	6.13	102	6.00	2.41	
Total BTEX	<0.300	0.300	04/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	04/11/2023	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/10/2023	ND	189	94.5	200	4.39	
DRO >C10-C28*	<10.0	10.0	04/10/2023	ND	174	87.0	200	6.20	
EXT DRO >C28-C36	<10.0	10.0	04/10/2023	ND					
Surrogate: 1-Chlorooctane	73.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	78.6	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	04/05/2023	Sampling Date:	04/04/2023
Reported:	04/12/2023	Sampling Type:	Soil
Project Name:	ORACLE 21 FEDERAL #004 (ORACLE)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

### Sample ID: H - 1 0-1' (H231600-12)

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/10/2023	ND	1.87	93.5	2.00	5.72	
Toluene*	<0.050	0.050	04/10/2023	ND	1.92	96.0	2.00	5.59	
Ethylbenzene*	<0.050	0.050	04/10/2023	ND	1.97	98.7	2.00	4.86	
Total Xylenes*	<0.150	0.150	04/10/2023	ND	6.13	102	6.00	2.41	
Total BTEX	<0.300	0.300	04/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/11/2023	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/10/2023	ND	189	94.5	200	4.39	
DRO >C10-C28*	<10.0	10.0	04/10/2023	ND	174	87.0	200	6.20	
EXT DRO >C28-C36	<10.0	10.0	04/10/2023	ND					
Surrogate: 1-Chlorooctane	88.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.3	% 49.1-14	8						

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

Received:	04/05/2023	Sampling Date:	04/04/2023
Reported:	04/12/2023	Sampling Type:	Soil
Project Name:	ORACLE 21 FEDERAL #004 (ORACLE)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

### Sample ID: H - 2 0-1' (H231600-13)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/10/2023	ND	1.87	93.5	2.00	5.72	
Toluene*	<0.050	0.050	04/10/2023	ND	1.92	96.0	2.00	5.59	
Ethylbenzene*	<0.050	0.050	04/10/2023	ND	1.97	98.7	2.00	4.86	
Total Xylenes*	<0.150	0.150	04/10/2023	ND	6.13	102	6.00	2.41	
Total BTEX	<0.300	0.300	04/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	04/11/2023	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/10/2023	ND	189	94.5	200	4.39	
DRO >C10-C28*	<10.0	10.0	04/10/2023	ND	174	87.0	200	6.20	
EXT DRO >C28-C36	<10.0	10.0	04/10/2023	ND					
Surrogate: 1-Chlorooctane	71.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	77.4	% 49.1-14	8						

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

Received:	04/05/2023	Sampling Date:	04/04/2023
Reported:	04/12/2023	Sampling Type:	Soil
Project Name:	ORACLE 21 FEDERAL #004 (ORACLE)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

### Sample ID: H - 3 0-1' (H231600-14)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/10/2023	ND	1.87	93.5	2.00	5.72	
Toluene*	<0.050	0.050	04/10/2023	ND	1.92	96.0	2.00	5.59	
Ethylbenzene*	<0.050	0.050	04/10/2023	ND	1.97	98.7	2.00	4.86	
Total Xylenes*	<0.150	0.150	04/10/2023	ND	6.13	102	6.00	2.41	
Total BTEX	<0.300	0.300	04/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/11/2023	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/10/2023	ND	189	94.5	200	4.39	
DRO >C10-C28*	<10.0	10.0	04/10/2023	ND	174	87.0	200	6.20	
EXT DRO >C28-C36	<10.0	10.0	04/10/2023	ND					
Surrogate: 1-Chlorooctane	92.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	04/05/2023	Sampling Date:	04/04/2023
Reported:	04/12/2023	Sampling Type:	Soil
Project Name:	ORACLE 21 FEDERAL #004 (ORACLE)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

### Sample ID: H - 4 0-1' (H231600-15)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/10/2023	ND	1.87	93.5	2.00	5.72	
Toluene*	<0.050	0.050	04/10/2023	ND	1.92	96.0	2.00	5.59	
Ethylbenzene*	<0.050	0.050	04/10/2023	ND	1.97	98.7	2.00	4.86	
Total Xylenes*	<0.150	0.150	04/10/2023	ND	6.13	102	6.00	2.41	
Total BTEX	<0.300	0.300	04/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/11/2023	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/10/2023	ND	189	94.5	200	4.39	
DRO >C10-C28*	<10.0	10.0	04/10/2023	ND	174	87.0	200	6.20	
EXT DRO >C28-C36	<10.0	10.0	04/10/2023	ND					
Surrogate: 1-Chlorooctane	103	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	112 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	04/05/2023	Sampling Date:	04/04/2023
Reported:	04/12/2023	Sampling Type:	Soil
Project Name:	ORACLE 21 FEDERAL #004 (ORACLE)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

### Sample ID: H - 5 0-1' (H231600-16)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/10/2023	ND	1.87	93.5	2.00	5.72	
Toluene*	<0.050	0.050	04/10/2023	ND	1.92	96.0	2.00	5.59	
Ethylbenzene*	<0.050	0.050	04/10/2023	ND	1.97	98.7	2.00	4.86	
Total Xylenes*	<0.150	0.150	04/10/2023	ND	6.13	102	6.00	2.41	
Total BTEX	<0.300	0.300	04/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/11/2023	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/10/2023	ND	189	94.5	200	4.39	
DRO >C10-C28*	<10.0	10.0	04/10/2023	ND	174	87.0	200	6.20	
EXT DRO >C28-C36	<10.0	10.0	04/10/2023	ND					
Surrogate: 1-Chlorooctane	85.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.2	% 49.1-14	8						

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### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	04/05/2023	Sampling Date:	04/04/2023
Reported:	04/12/2023	Sampling Type:	Soil
Project Name:	ORACLE 21 FEDERAL #004 (ORACLE)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

### Sample ID: H - 6 0-1' (H231600-17)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/10/2023	ND	1.87	93.5	2.00	5.72	
Toluene*	<0.050	0.050	04/10/2023	ND	1.92	96.0	2.00	5.59	
Ethylbenzene*	<0.050	0.050	04/10/2023	ND	1.97	98.7	2.00	4.86	
Total Xylenes*	<0.150	0.150	04/10/2023	ND	6.13	102	6.00	2.41	
Total BTEX	<0.300	0.300	04/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/11/2023	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/10/2023	ND	167	83.3	200	3.51	
DRO >C10-C28*	<10.0	10.0	04/10/2023	ND	196	98.0	200	4.38	
EXT DRO >C28-C36	<10.0	10.0	04/10/2023	ND					
Surrogate: 1-Chlorooctane	92.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	119 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	04/05/2023	Sampling Date:	04/04/2023
Reported:	04/12/2023	Sampling Type:	Soil
Project Name:	ORACLE 21 FEDERAL #004 (ORACLE)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

### Sample ID: H - 7 0-1' (H231600-18)

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/10/2023	ND	1.87	93.5	2.00	5.72	
Toluene*	<0.050	0.050	04/10/2023	ND	1.92	96.0	2.00	5.59	
Ethylbenzene*	<0.050	0.050	04/10/2023	ND	1.97	98.7	2.00	4.86	
Total Xylenes*	<0.150	0.150	04/10/2023	ND	6.13	102	6.00	2.41	
Total BTEX	<0.300	0.300	04/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	04/11/2023	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/10/2023	ND	167	83.3	200	3.51	
DRO >C10-C28*	<10.0	10.0	04/10/2023	ND	196	98.0	200	4.38	
EXT DRO >C28-C36	<10.0	10.0	04/10/2023	ND					
Surrogate: 1-Chlorooctane	93.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	124 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	04/05/2023	Sampling Date:	04/04/2023
Reported:	04/12/2023	Sampling Type:	Soil
Project Name:	ORACLE 21 FEDERAL #004 (ORACLE)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

### Sample ID: H - 8 0-1' (H231600-19)

BTEX 8021B	mg/	′kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/10/2023	ND	1.87	93.5	2.00	5.72	
Toluene*	<0.050	0.050	04/10/2023	ND	1.92	96.0	2.00	5.59	
Ethylbenzene*	<0.050	0.050	04/10/2023	ND	1.97	98.7	2.00	4.86	
Total Xylenes*	<0.150	0.150	04/10/2023	ND	6.13	102	6.00	2.41	
Total BTEX	<0.300	0.300	04/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	04/11/2023	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/10/2023	ND	167	83.3	200	3.51	
DRO >C10-C28*	<10.0	10.0	04/10/2023	ND	196	98.0	200	4.38	
EXT DRO >C28-C36	<10.0	10.0	04/10/2023	ND					
Surrogate: 1-Chlorooctane	94.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	122 9	% 49.1-14	8						

### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	04/05/2023	Sampling Date:	04/04/2023
Reported:	04/12/2023	Sampling Type:	Soil
Project Name:	ORACLE 21 FEDERAL #004 (ORACLE)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

### Sample ID: H - 9 0-1' (H231600-20)

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/10/2023	ND	1.98	99.2	2.00	1.12	
Toluene*	<0.050	0.050	04/10/2023	ND	2.05	103	2.00	1.54	
Ethylbenzene*	<0.050	0.050	04/10/2023	ND	2.04	102	2.00	2.01	
Total Xylenes*	<0.150	0.150	04/10/2023	ND	6.40	107	6.00	2.37	
Total BTEX	<0.300	0.300	04/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/11/2023	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/10/2023	ND	167	83.3	200	3.51	
DRO >C10-C28*	<10.0	10.0	04/10/2023	ND	196	98.0	200	4.38	
EXT DRO >C28-C36	<10.0	10.0	04/10/2023	ND					
Surrogate: 1-Chlorooctane	87.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	110 9	% 49.1-14	8						

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\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



### **Notes and Definitions**

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

### Cardinal Laboratories

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

### CARDINAL aboratories

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

### HQ3100 Company Name: H&R Enterprises City: Project Manager: Michael Collier Relino Lab I.D. Sampler Name: M. Collier Project Name: Oracle 21 Federal #004 Project #: Phone #: Address: Delivered By: (Circle One) Sampler - UPS - Bus - Other: INCO LONG Project Location: Eddy County, NM nquished By: 0 I Cardinal be lab U uished By: S-2 3' S-1 2" S-2 4" S-2 2' S-2 0-1' S-1 3' R out of o S-3 2" R S-1 0-1" S-4 0-1" S-3 0-1" ealed to the peri-101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476 (Oracle) Fax #: Observed Temp. °C Corrected Temp. °C Time 4 Date: 5-23 Received By Time: Date State: Project Owner: Cimarex Energy 200 Zip: G (G)RAB OR (C)OMP. **Received By** # CONTAINERS NUMBER OF STORE GROUNDWATER Sample Condit Cool Intact WASTEWATER SOIL MATRIX DIL SLUDGE any of the above State: P.O. #: OTHER Fax #: City: Company: Cimarex Energy Phone #: Address: Attn: Laci Luig ACID/BASE: PRESERV clarit for the analyses. Its subsidiaries. (Initials) KICE / COOL 10 BILL TO OTHER IN SUDSING 5/4/23 DATE Zip denenista g All clam SAMPLING \*us REMARKS: TIME mometer ID #113 ection Factor -0.5°C Cod Intact Ĩ TOM × BTEX трн 5 ed Temp. 'C Chlorides ANALYSIS REQUEST atory samples wrong No D No enin 30 daya ana Forbapores.

FORM-006 R 3.2 10/07/21

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

4/4/23

50

Corrected Temp. \*C

Labo	
Plan	
Ories	

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

# 101 East Marland, Hobbs, NM 88240

(575) 39	0/0/00 2020 1 nn (0/0/000 - 110)	BILL TO	ANALY	ANALYSIS REQUEST
company many many many		P.O. 共		
Project Manager: Michael Collier		Company: Cimarex Energy		
Address:	State. Zin-	Attn: Laci Luig		
City:	Fax#:	Address:		
Project #	Project Owner: Cimarex Energy	City:		
Project Name: Oracle 21 Federal #004	(Oracle)	State: Zip:		
Project Location: Eddy County, NM		Phone #:		
Sampler Name: M. Collier		Fax#:		
FOR LAB USE CHAY	MATRIX	PRESERV. SAMPLING		
Lab I.D.	ERS	:	es	
HORILIAN	(G)RAB OR CONTAIN GROUNDW WASTEWA SOIL DIL SLUDGE		BTEX TPH Chlorid	
11 S-4 2'R	1 X	X 5/4/23	XXX	
12 H-1 0-1'				
N				
/4 H-3 0-1'				
15 H-4 0-1'				
10 H-5 0-1'				
H-7 0-1				
RLEASE NOTE: Liability and Damagen. Capitana's Sability and cleant	H-9 0-1     H-2 0-1     If I I I I I I I I I I I I I I I I	amaunt jaid by the client for the arrelyaets. All claims including th incurned by client, its subaldiaries.	including these for meptigence and enry other cause whatsoever shall	is be deemed verived uninee made in writing and received by Cardinal within 30 deys after
affliates or successors arsing out of or related to the performa-	nce of services nersunder by Cardinal, regardless of innerser such cleans a users upon	An I Varhal B	Nesult: 17es 10 No	Add'I Phone #:
Relinquished By:	Times 2.23 Received by	to Alland Mareau	All Results are emailed. Please provide Email	address:
Relinquished By:	Date: Received By:	REMARKS:		2012
	Time:	KC	tomer dates	g.
Delivered By: (Circle One) Samoler - UPS - Bus - Other:		(Initials)	ad Time: Standard (and Standard (and) security (security security (security security (security security security security (security security securi	n seinth
consideration of the second seco	30 24024	Thermometer ID	Correction Factor -0.5°C	No No. Connected Temp. "C

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District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

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

Operator:	OGRID:
CIMAREX ENERGY CO. OF COLORADO	162683
6001 Deauville Blvd, Ste 300N	Action Number:
Midland, TX 79706	212298
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
bhall	Closure approved. Site will need to meet the requirements of 19.15.29.13 NMAC.	8/4/2023

CONDITIONS

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Action 212298