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TALON LPE

Closure Report

Parkway State Com # 4
Eddy County, New Mexico
API ID # 30-015-37504
Incident # NRM2012234129

Prepared For:

Cimarex Energy Co. of Colorado
6001 Deauville Blvd. Suite 300N
Midland, Texas 79706

Prepared By:

Talon LPE
408 W. Texas Avenue
Artesia, New Mexico 88210

June 2, 2023

NMOCD
506 W. Texas Ave
Artesia, NM 88210

Subject: **Closure Report**
Parkway State Com # 4
Eddy County, New Mexico
API ID # 30-015-37504
Incident # NRM2012234129

To Whom It May Concern,

Cimarex Energy Co. of Colorado (Cimarex) contracted Talon LPE (Talon) to per-form soil assessment and remediation services at the above referenced location. The incident description, soil sampling results, remedial actions and closure re-quest are presented herein.

Site Information

The Parkway State Com # 4 is located approximately 29 miles east of Artesia, New Mexico. The legal location for this release is Unit Letter O, Section 15, Township 19 South and Range 29 East in Eddy County, New Mexico. More specifically the latitude and longitude for the release are 32.654367 and -104.059423. A Site Location Map is presented in Appendix I.

According to the soil survey provided by the United States Department of Agriculture National Resources Conservation Services, the soil in this area is comprised of Kimbrough-Stegall loams with, 0 to 3 percent slopes. The referenced soil data is presented in Appendix II. Per the New Mexico Bureau of Geology and Mineral Resources, the local geology consists of the Older alluvial deposits of upland plains and piedmont areas, and calcic soils and eolian cover sediments of High Plains region.

Groundwater and Site Characterization

The New Mexico Office of the State Engineer Database indicates the nearest reported depth to groundwater is more than one (2.38) miles from the site and is recorded at 60 feet below ground surface (bgs). Further research of the Bureau of Land Management Karst data indicates that this site is situated in a potential Karst area. The FEMA data base locates the site in a minimal flood hazard zone.

Approximate Depth to Groundwater	60 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

With location in a high potential karst region and no depth to water source available that meets New Mexico Oil Conservation Division's (NMOCD) criteria within ½ mile of the site, the responsible party must therefore adhere to the cleanup criteria for this site of groundwater less than 50 feet bgs, Table I, NMOCD Rule 19.15.29 NMAC.

Closure Criteria for Soils Impacted by a Release			
Depth below horizontal extents of release to ground water less than 10,000 mg/l TDS	Constituent	Method	Limit
≤ 50 feet	Total Chlorides	EPA 300.0 or SM4500 Cl B	600 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	100 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 April 16, 2020, during well work operations fluid was released from a wet string by the fluid trapped in each tubbing. Approximately 14 barrels (bbls) of produced water was released on the pad location with no fluid recovered. The initial C-141 was submitted to the NMOCD, can be reviewed under incident number NRM2012234129. The site location map is presented in Appendix I.

Site Assessment Activities

On April 3, 2023, hydro-vac activities were performed to identify line locations prior to excavation activities for safety purposes and continued the morning of April 4, 2023.

On April 4, 2023, upon client authorization, Talon mobilized personnel to the site to conduct an initial site assessment. The impacted area was photographed, soil samples were collected utilizing a backhoe, and the area was mapped. All soil samples were properly packaged in laboratory provided glassware, preserved on ice in the custody of Talon personnel, and transported to Cardinal Analytical Laboratory for analysis of Total Chlorides (SM4500CL-B), Total Petroleum Hydrocarbons (TPH, EPA Method 8015B), and Volatile Organics (BTEX, EPA Method 8021B). Sample locations are shown on the attached Figure 1 in Appendix I, and the results of our sampling event are presented below in Table 1.

Table 1
Site Assessment Analytical Data

Sample ID	Sample Date	Depth (BGS)	Benzene mg/kg	BTEX mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Chlorides mg/kg
NMOCD Table 1 Closure Criteria 19.15.29 NMAC			10 mg/kg	50 mg/kg	DRO + GRO + MRO combined = 100 mg/kg			100 mg/kg	600 mg/kg
TT-1	4/4/2023	1’	ND	ND	ND	ND	ND	ND	1060
	4/4/2023	3’	ND	ND	ND	ND	ND	ND	1100
	4/4/2023	4’	ND	ND	ND	ND	ND	ND	80.0
TT-2	4/4/2023	1’	ND	ND	ND	ND	ND	ND	640
	4/4/2023	3’	ND	ND	ND	ND	ND	ND	640
	4/4/2023	4’	ND	ND	ND	ND	ND	ND	80.0
TT-3	4/4/2023	1’	ND	ND	ND	ND	ND	ND	320
	4/4/2023	3’	ND	ND	ND	ND	ND	ND	320
	4/4/2023	4’	ND	ND	ND	ND	ND	ND	80.0

NOTES:

BGS	Below Ground Surface
mg/kg	milligrams per kilogram
ND	Analyte Not Detected

Highlighted cells indicate exceedance of NMOCD Table 1 Closure Criteria

Remediation Activities

On May 8, 2023, Talon personnel were onsite to perform remediation activities. Talon excavated areas that exceeded the Table 1 standards. The confirmation samples were transported to Cardinal Laboratories Inc., for analysis of Total Chlorides (SM4500CL-B), Total Petroleum Hydrocarbons (TPH, EPA Method 8015B NM) and Volatile Organics (BTEX, EPA Method 8021B).

The soil sample results from the laboratory analytical are summarized below. Sample locations are illustrated on Figure 2 (Appendix I) and complete laboratory analytical reports are presented in Appendix V.

Table 2
Site Closure Analytical Data

Sample ID	Sample Date	Depth (BGS)	Benzene mg/kg	BTEX mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Chlorides mg/kg
NMOCD Table 1 Closure Criteria 19.15.29 NMAC			10 mg/kg	50 mg/kg	DRO + GRO + MRO combined = 100 mg/kg			100 mg/kg	600 mg/kg
S-1	5/8/2023	4'	ND	ND	ND	ND	ND	ND	240
S-2	5/8/2023	4'	ND	ND	ND	ND	ND	ND	288
S-3	5/8/2023	4'	ND	ND	ND	ND	ND	ND	272
SW-1	5/8/2023	4'	ND	ND	ND	ND	ND	ND	528
SW-2	5/8/2023	4'	ND	ND	ND	ND	ND	ND	160
SW-3	5/8/2023	4'	ND	ND	ND	ND	ND	ND	368
SW-4	5/8/2023	4'	ND	ND	ND	ND	ND	ND	272

NOTES:

BGS	Below Ground Surface
mg/kg	milligrams per kilogram
S	Confirmation Sample
SW	Sidewall Sample
ND	Analyte Not Detected

Highlighted cells indicate exceedance of NMOCD Table 1 Closure Criteria

Remedial Action Summary

- The impacted areas on location were excavated to depths of four (4) feet bgs. Talon field titrated soil samples for total chlorides to guide the vertical and horizontal extents of the excavation process.

- Pursuant to NMOCD guidance, confirmation soil samples were collected at 200 square foot intervals and analyzed for TPH, BTEX and Total Chlorides to insure all other areas had reached NMOCD closure criteria.

- The excavated areas on the well pad were backfilled with new caliche, machine compacted and contoured to match the surrounding location.

- Approximately 70 cubic yards of excavated material was transported to Lea Land Disposal, a NMOCD approved solid waste disposal facility.

- Photographic documentation is provided in Appendix IV.

- Copies of the Final C-141s are presented in Appendix III.

Closure

Based upon the completed remedial actions and confirmation sampling results, on behalf of Cimarex Energy Co. of Colorado, we respectfully request that no further actions be required and the incident closed.

Should you have any questions or if further information is required, please do not hesitate to contact our office at 575-746-8768.

Respectfully submitted,

Talon/LPE

Chad Hensley
Project Manager

Attachments:

Appendix I	Site Maps
Appendix II	Groundwater Data, Soil Survey, FEMA Flood Map
Appendix III	C-141 Forms, NMOCD Correspondence
Appendix IV	Photographic Documentation
Appendix V	Laboratory Analytical Reports

Appendix I

Site Maps

TALON LPE

Drafted: 6/1/2023
1 in = 30 ft
Drafted By: IJR

Cimarex Energy Co. of Colorado
Parkway State Com #4
Eddy County, New Mexico
Figure 1 - Site Assessment Map

TALON LPE

Drafted: 6/1/2023
1 in = 30 ft
Drafted By: JAI

Cimarex Energy Co. of Colorado
Parkway State Com #4
Eddy County, New Mexico
Figure 2 - Confirmation Sample Map

Appendix II

Groundwater Data

Soil Survey

FEMA Flood Map

New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters) (In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
CP 01962 POD1		CP	ED	2	2	4	28	19S	29E	587025	3610641	2976			
CP 00820 POD1		CP	LE		2	4	13	19S	29E	591713	3613870*	3517	120		
CP 00741		CP	ED	1	3	2	34	19S	29E	588030	3609533*	3834	230	60	170
CP 00626 POD1		CP	ED	2	3	1	03	19S	29E	587360	3617575	4302	286	247	39
CP 00681		CP	ED	1	1	3	34	19S	29E	587230	3609127*	4351			
CP 00626 POD2		CP	ED	3	2	1	03	19S	29E	587660	3617880	4554	240	195	45
CP 00821 POD1		CP	LE		4	4	25	19S	29E	591743	3610248*	4692	120		
CP 00703 POD1		CP	ED		4	1	36	19S	29E	591050	3609382	4876	225	115	110

Average Depth to Water: **154 feet**

Minimum Depth: **60 feet**

Maximum Depth: **247 feet**

Record Count: 8

UTMNAD83 Radius Search (in meters):

Easting (X): 588232.37 **Northing (Y):** 3613361.98 **Radius:** 5000

***UTM location was derived from PLSS - see Help**

United States Department of Agriculture

NRCS

Natural Resources Conservation Service

A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

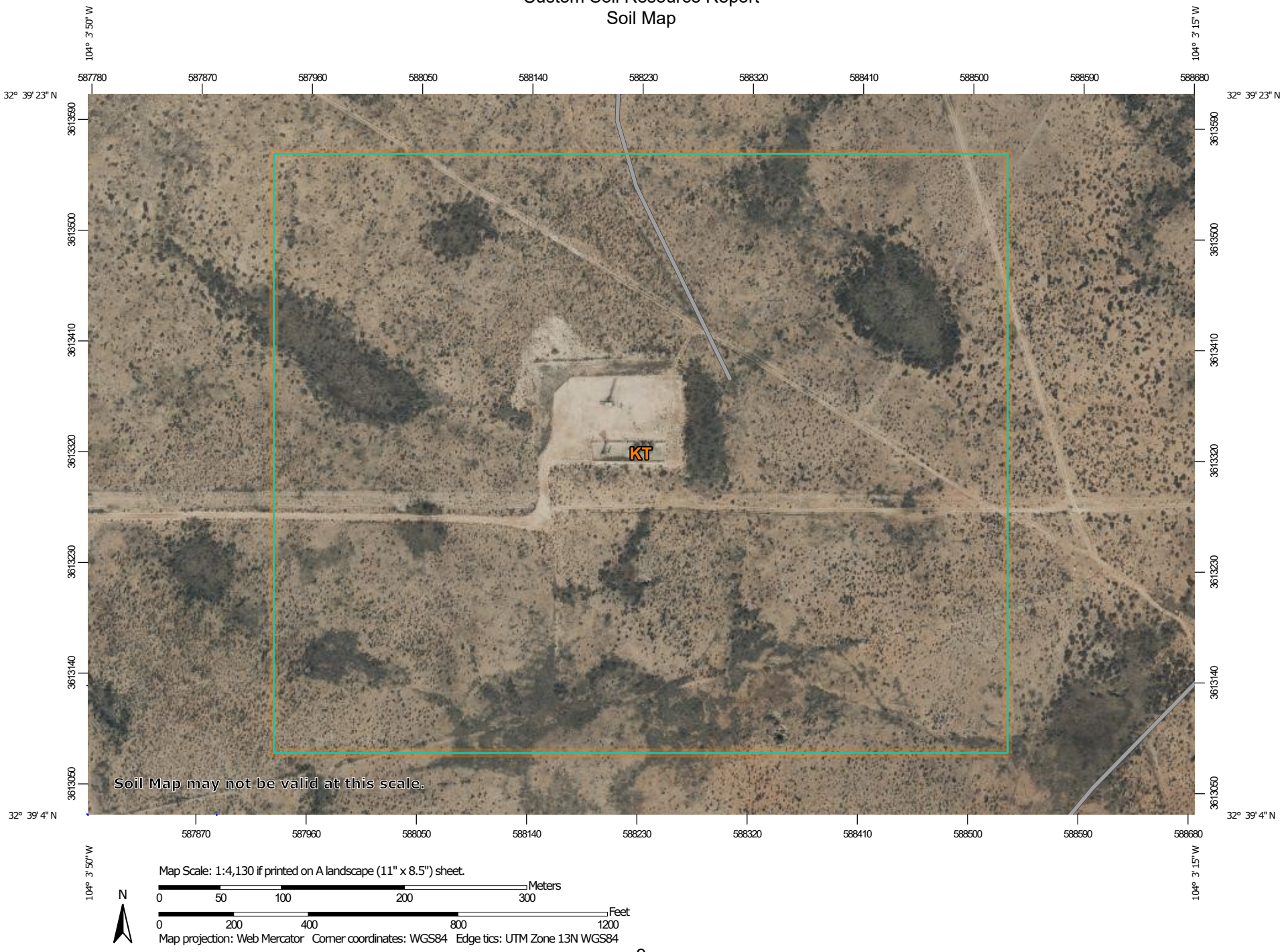
Custom Soil Resource Report for Eddy Area, New Mexico

May 10, 2023

Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.

Custom Soil Resource Report
Soil Map



MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

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

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Nov 12, 2022—Dec 2, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
KT	Kimbrough-Stegall loams, 0 to 3 percent slopes	72.4	100.0%
Totals for Area of Interest		**72.4**	**100.0%**

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Eddy Area, New Mexico

KT—Kimbrough-Stegall loams, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 1w4t
Elevation: 2,750 to 5,000 feet
Mean annual precipitation: 8 to 16 inches
Mean annual air temperature: 57 to 70 degrees F
Frost-free period: 180 to 230 days
Farmland classification: Not prime farmland

Map Unit Composition

Kimbrough and similar soils: 70 percent
Stegall and similar soils: 25 percent
Minor components: 5 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Kimbrough

Setting

Landform: Plains, alluvial fans
Landform position (three-dimensional): Talf, rise
Down-slope shape: Convex, linear
Across-slope shape: Linear
Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 3 inches: loam
H2 - 3 to 9 inches: loam
H3 - 9 to 60 inches: indurated

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: 8 to 20 inches to petrocalcic
Drainage class: Well drained
Runoff class: Very 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: 15 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water supply, 0 to 60 inches: Very low (about 1.3 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: D
Ecological site: R070BC025NM - Shallow
Hydric soil rating: No

Description of Stegall

Setting

Landform: Plains, alluvial fans
Landform position (three-dimensional): Rise
Down-slope shape: Convex, linear
Across-slope shape: Linear
Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 5 inches: loam
H2 - 5 to 28 inches: clay loam
H3 - 28 to 32 inches: indurated
H4 - 32 to 60 inches: variable

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: 20 to 40 inches to petrocalcic
Drainage class: Well drained
Runoff class: Medium
Capacity of the most limiting layer to transmit water (Ksat): Low to moderately high (0.01 to 0.60 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 90 percent
Maximum salinity: Nonsaline to slightly saline (0.0 to 4.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water supply, 0 to 60 inches: Low (about 4.8 inches)

Interpretive groups

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

Minor Components

Simona

Percent of map unit: 5 percent
Ecological site: R070BD002NM - Shallow Sandy
Hydric soil rating: No

National Flood Hazard Layer FIRMette

FEMA

104°3'53"W 32°39'31"N

0 250 500 1,000 1,500 2,000 Feet

1:6,000

104°3'15"W 32°39'1"N

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

Legend

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

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS
- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- 20.2 / 17.5 Cross Sections with 1% Annual Chance / Water Surface Elevation
- Coastal Transect
- Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

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 5/10/2023 at 12:58 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.

Appendix III

C-141 Forms

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	NRM2012234129
District RP	
Facility ID	
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: lluig@cimarex.com	Incident # *(assigned by OCD)*
Contact mailing address: 600 N Marienfeld Street, Ste. 600 Midland, TX 79701	

Location of Release Source

Latitude 32.654367 Longitude -104.059423

(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Parkway State Com 4H	Site Type: Wellhead
Date Release Discovered: 4/16/2020	API# *(if applicable)* 30-015-37504

Unit Letter	Section	Township	Range	County
O	15	19S	29E	Eddy

Surface Owner: ☒ State ☐ Federal ☐ Tribal ☐ Private (*Name:* _____)

Nature and Volume of Release

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

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) 14 bbls	Volume Recovered (bbls) 0 bbls
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release
The spill occurred during a well work operation. While stripping out of the hole with a wet string, the fluid trapped in the tubing exited each stand as the connections were broken releasing the fluid. An EnviroPan was not being used to catch the fluid from the wet string. Moving forward the well work supervisor knows that the EnviroPans are not an option and that they are a requirement during well work operations. We were not able to recover any of the fluid lost and we used a hydro-vac to remove all impacted soil and disposed of it at R-360. We will delineate impacted soil and determine pathway forward.

State of New Mexico
Oil Conservation Division

Incident ID	NRM2012234129
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☒ No	If YES, for what reason(s) does the responsible party consider this a major release?

If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
By: Gloria Garza
Emailed: Mike Bratcher, Robert Hamlet and Victoria Venegas

Initial Response

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

☒ The source of the release has been stopped.
☒ The impacted area has been secured to protect human health and the environment.
☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not 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: Engineer Tech_____

Signature: Laci Luig _____ Date: 4/28/2020_____

email: lluig@cimarex.com_____ Telephone: (432) 571-7810_____

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	nRM2012234129
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	60 (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 **not** on an exploration, development, production, or storage site?	☐ Yes ☑ No

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

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

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

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

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	nRM2012234129
District RP	
Facility ID	
Application ID	

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

Printed Name: Laci Luig Title: Engineer Tech

Signature: Laci Luig Date: 6/26/2023

email: laci.luig@cottera.com Telephone: 432-208-3035

OCD Only

Received by: Shelly Wells Date: 6/30/2023

State of New Mexico
Oil Conservation Division

Incident ID	nRM2012234129
District RP	
Facility ID	
Application ID	

Closure

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

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

☑ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☑ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☑ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☑ Description of remediation activities

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

Printed Name: Laci Luig Title: Engineer Tech

Signature: Laci Luig Date: 6/26/2023

email: laci.luig@cottera.com Telephone: 432-208-3035

OCD Only

Received by: Shelly Wells Date: 6/30/2023

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: Ashley Maxwell Date: 11/28/2023

Printed Name: Ashley Maxwell Title: Environmental Specialist

Appendix VI

Correspondence

Ashton Thielke

From: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Sent: Friday, May 5, 2023 1:00 PM
To: Ashton Thielke
Cc: Bratcher, Michael, EMNRD; Hamlet, Robert, EMNRD
Subject: RE: [EXTERNAL] nRM2012234129 - Parkway State Com 4H - Confirmation Sampling Notification

Ashton,

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

JH

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

From: Ashton Thielke <Ashton.Thielke@coterra.com>
Sent: Thursday, May 4, 2023 8:33 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Laci Luig <Laci.Luig@coterra.com>
Subject: [EXTERNAL] nRM2012234129 - Parkway State Com 4H - Confirmation Sampling Notification

Good afternoon,

This new email serves as 48+ hour notification for confirmation sampling on the Parkway State Com 4H. Sampling is scheduled to begin as early as 10:00am (MST) Tuesday, May 9th, weather and soil conditions permitting. Talon LPE will be on site to collect the confirmation samples.

Incident ID: nRM2012234129
Coordinates: 32.654367, -104.059423

Thank you,

Ashton Thielke | PBU - Environmental Consultant
T: 432.813.8988 | M: 281.753.5659 | ashton.thielke@coterra.com | www.coterra.com
Coterra Energy Inc. | 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.

Appendix IV

Photographic Documentation

Photograph No.1 Description:	Excavation of Parkway prior to backfill.

Photograph No.2 Description:	Excavation of Parkway prior to backfill.

Appendix V

Laboratory Reports

CARDINAL Laboratories

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

April 12, 2023

CHAD HENSLEY

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: PARKVIEW STATE COM #4

Enclosed are the results of analyses for samples received by the laboratory on 04/05/23 14:00.

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

TALON LPE 408 W. TEXAS AVE. ARTESIA NM, 88210	Project: PARKVIEW STATE COM #4 Project Number: 700438.266.03 Project Manager: CHAD HENSLEY Fax To: (575) 745-8905	Reported: 12-Apr-23 08:45

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TT - 1 @ 1'	H231579-01	Soil	04-Apr-23 08:10	05-Apr-23 14:00
TT - 1 @ 3'	H231579-02	Soil	04-Apr-23 08:15	05-Apr-23 14:00
TT - 1 @ 4'	H231579-03	Soil	04-Apr-23 08:19	05-Apr-23 14:00
TT - 2 @ 1'	H231579-04	Soil	04-Apr-23 08:23	05-Apr-23 14:00
TT - 2 @ 3'	H231579-05	Soil	04-Apr-23 08:29	05-Apr-23 14:00
TT - 2 @ 4'	H231579-06	Soil	04-Apr-23 08:34	05-Apr-23 14:00
TT - 3 @ 1'	H231579-07	Soil	04-Apr-23 08:45	05-Apr-23 14:00
TT - 3 @ 3'	H231579-08	Soil	04-Apr-23 08:49	05-Apr-23 14:00
TT - 3 @ 4'	H231579-09	Soil	04-Apr-23 08:55	05-Apr-23 14:00

04/12/23 - Client changed the project name (see COC). This is the revised report and will replace the one sent on 04/ 11/23.

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

TALON LPE 408 W. TEXAS AVE. ARTESIA NM, 88210	Project: PARKVIEW STATE COM #4 Project Number: 700438.266.03 Project Manager: CHAD HENSLEY Fax To: (575) 745-8905	Reported: 12-Apr-23 08:45

TT - 1 @ 1'

H231579-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**1060**		16.0	mg/kg	4	3040517	AC	06-Apr-23	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	3040528	JH	06-Apr-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3040528	JH	06-Apr-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3040528	JH	06-Apr-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3040528	JH	06-Apr-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3040528	JH	06-Apr-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*106 %*	*71.5-134*		*3040528*	JH	*06-Apr-23*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	3040523	MS	06-Apr-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3040523	MS	06-Apr-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3040523	MS	06-Apr-23	8015B	
Surrogate: 1-Chlorooctane			*89.0 %*	*48.2-134*		*3040523*	MS	*06-Apr-23*	*8015B*	
Surrogate: 1-Chlorooctadecane			*94.7 %*	*49.1-148*		*3040523*	MS	*06-Apr-23*	*8015B*	

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

TALON LPE 408 W. TEXAS AVE. ARTESIA NM, 88210	Project: PARKVIEW STATE COM #4 Project Number: 700438.266.03 Project Manager: CHAD HENSLEY Fax To: (575) 745-8905	Reported: 12-Apr-23 08:45

TT - 1 @ 3'

H231579-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**1100**		16.0	mg/kg	4	3040517	AC	06-Apr-23	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	3040528	JH	06-Apr-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3040528	JH	06-Apr-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3040528	JH	06-Apr-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3040528	JH	06-Apr-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3040528	JH	06-Apr-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*106 %*	*71.5-134*		*3040528*	JH	*06-Apr-23*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	3040523	MS	06-Apr-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3040523	MS	06-Apr-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3040523	MS	06-Apr-23	8015B	
Surrogate: 1-Chlorooctane			*88.4 %*	*48.2-134*		*3040523*	MS	*06-Apr-23*	*8015B*	
Surrogate: 1-Chlorooctadecane			*93.8 %*	*49.1-148*		*3040523*	MS	*06-Apr-23*	*8015B*	

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

TALON LPE 408 W. TEXAS AVE. ARTESIA NM, 88210	Project: PARKVIEW STATE COM #4 Project Number: 700438.266.03 Project Manager: CHAD HENSLEY Fax To: (575) 745-8905	Reported: 12-Apr-23 08:45

TT - 1 @ 4'

H231579-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**80.0**		16.0	mg/kg	4	3040517	AC	06-Apr-23	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	3040528	JH	06-Apr-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3040528	JH	06-Apr-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3040528	JH	06-Apr-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3040528	JH	06-Apr-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3040528	JH	06-Apr-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*106 %*	*71.5-134*		*3040528*	JH	*06-Apr-23*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	3040523	MS	06-Apr-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3040523	MS	06-Apr-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3040523	MS	06-Apr-23	8015B	
Surrogate: 1-Chlorooctane			*103 %*	*48.2-134*		*3040523*	MS	*06-Apr-23*	*8015B*	
Surrogate: 1-Chlorooctadecane			*110 %*	*49.1-148*		*3040523*	MS	*06-Apr-23*	*8015B*	

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

TALON LPE 408 W. TEXAS AVE. ARTESIA NM, 88210	Project: PARKVIEW STATE COM #4 Project Number: 700438.266.03 Project Manager: CHAD HENSLEY Fax To: (575) 745-8905	Reported: 12-Apr-23 08:45

TT - 2 @ 1'

H231579-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**640**		16.0	mg/kg	4	3040517	AC	06-Apr-23	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	3040528	JH	06-Apr-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3040528	JH	06-Apr-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3040528	JH	06-Apr-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3040528	JH	06-Apr-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3040528	JH	06-Apr-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*106 %*	*71.5-134*		*3040528*	JH	*06-Apr-23*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	3040523	MS	06-Apr-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3040523	MS	06-Apr-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3040523	MS	06-Apr-23	8015B	
Surrogate: 1-Chlorooctane			*85.0 %*	*48.2-134*		*3040523*	MS	*06-Apr-23*	*8015B*	
Surrogate: 1-Chlorooctadecane			*89.1 %*	*49.1-148*		*3040523*	MS	*06-Apr-23*	*8015B*	

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

TALON LPE 408 W. TEXAS AVE. ARTESIA NM, 88210	Project: PARKVIEW STATE COM #4 Project Number: 700438.266.03 Project Manager: CHAD HENSLEY Fax To: (575) 745-8905	Reported: 12-Apr-23 08:45

TT - 2 @ 3'

H231579-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**640**		16.0	mg/kg	4	3040517	AC	06-Apr-23	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	3040528	JH	06-Apr-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3040528	JH	06-Apr-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3040528	JH	06-Apr-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3040528	JH	06-Apr-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3040528	JH	06-Apr-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*105 %*	*71.5-134*		*3040528*	JH	*06-Apr-23*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	3040523	MS	07-Apr-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3040523	MS	07-Apr-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3040523	MS	07-Apr-23	8015B	
Surrogate: 1-Chlorooctane			*108 %*	*48.2-134*		*3040523*	MS	*07-Apr-23*	*8015B*	
Surrogate: 1-Chlorooctadecane			*113 %*	*49.1-148*		*3040523*	MS	*07-Apr-23*	*8015B*	

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

TALON LPE 408 W. TEXAS AVE. ARTESIA NM, 88210	Project: PARKVIEW STATE COM #4 Project Number: 700438.266.03 Project Manager: CHAD HENSLEY Fax To: (575) 745-8905	Reported: 12-Apr-23 08:45

TT - 2 @ 4'

H231579-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**80.0**		16.0	mg/kg	4	3040605	AC	06-Apr-23	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	3040528	JH	06-Apr-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3040528	JH	06-Apr-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3040528	JH	06-Apr-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3040528	JH	06-Apr-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3040528	JH	06-Apr-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*106 %*	*71.5-134*		*3040528*	JH	*06-Apr-23*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	3040523	MS	07-Apr-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3040523	MS	07-Apr-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3040523	MS	07-Apr-23	8015B	
Surrogate: 1-Chlorooctane			*85.6 %*	*48.2-134*		*3040523*	MS	*07-Apr-23*	*8015B*	
Surrogate: 1-Chlorooctadecane			*91.1 %*	*49.1-148*		*3040523*	MS	*07-Apr-23*	*8015B*	

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

TALON LPE 408 W. TEXAS AVE. ARTESIA NM, 88210	Project: PARKVIEW STATE COM #4 Project Number: 700438.266.03 Project Manager: CHAD HENSLEY Fax To: (575) 745-8905	Reported: 12-Apr-23 08:45

TT - 3 @ 1'

H231579-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**320**		16.0	mg/kg	4	3040605	AC	06-Apr-23	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	3040528	JH	06-Apr-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3040528	JH	06-Apr-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3040528	JH	06-Apr-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3040528	JH	06-Apr-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3040528	JH	06-Apr-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*105 %*	*71.5-134*		*3040528*	JH	*06-Apr-23*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	3040523	MS	07-Apr-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3040523	MS	07-Apr-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3040523	MS	07-Apr-23	8015B	
Surrogate: 1-Chlorooctane			*85.2 %*	*48.2-134*		*3040523*	MS	*07-Apr-23*	*8015B*	
Surrogate: 1-Chlorooctadecane			*89.6 %*	*49.1-148*		*3040523*	MS	*07-Apr-23*	*8015B*	

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

TALON LPE 408 W. TEXAS AVE. ARTESIA NM, 88210	Project: PARKVIEW STATE COM #4 Project Number: 700438.266.03 Project Manager: CHAD HENSLEY Fax To: (575) 745-8905	Reported: 12-Apr-23 08:45

TT - 3 @ 3'

H231579-08 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**320**		16.0	mg/kg	4	3040605	AC	06-Apr-23	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	3040528	JH	06-Apr-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3040528	JH	06-Apr-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3040528	JH	06-Apr-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3040528	JH	06-Apr-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3040528	JH	06-Apr-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*105 %*	*71.5-134*		*3040528*	JH	*06-Apr-23*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	3040523	MS	07-Apr-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3040523	MS	07-Apr-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3040523	MS	07-Apr-23	8015B	
Surrogate: 1-Chlorooctane			*85.0 %*	*48.2-134*		*3040523*	MS	*07-Apr-23*	*8015B*	
Surrogate: 1-Chlorooctadecane			*89.0 %*	*49.1-148*		*3040523*	MS	*07-Apr-23*	*8015B*	

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

TALON LPE 408 W. TEXAS AVE. ARTESIA NM, 88210	Project: PARKVIEW STATE COM #4 Project Number: 700438.266.03 Project Manager: CHAD HENSLEY Fax To: (575) 745-8905	Reported: 12-Apr-23 08:45

TT - 3 @ 4'

H231579-09 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**80.0**		16.0	mg/kg	4	3040605	AC	06-Apr-23	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	3040528	JH	06-Apr-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3040528	JH	06-Apr-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3040528	JH	06-Apr-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3040528	JH	06-Apr-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3040528	JH	06-Apr-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*105 %*	*71.5-134*		*3040528*	JH	*06-Apr-23*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	3040523	MS	07-Apr-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3040523	MS	07-Apr-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3040523	MS	07-Apr-23	8015B	
Surrogate: 1-Chlorooctane			*85.8 %*	*48.2-134*		*3040523*	MS	*07-Apr-23*	*8015B*	
Surrogate: 1-Chlorooctadecane			*89.7 %*	*49.1-148*		*3040523*	MS	*07-Apr-23*	*8015B*	

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Analytical Results For:

TALON LPE 408 W. TEXAS AVE. ARTESIA NM, 88210	Project: PARKVIEW STATE COM #4 Project Number: 700438.266.03 Project Manager: CHAD HENSLEY Fax To: (575) 745-8905	Reported: 12-Apr-23 08:45

Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3040517 - 1:4 DI Water										
Blank (3040517-BLK1)				Prepared & Analyzed: 05-Apr-23						
Chloride	ND	16.0	mg/kg							
LCS (3040517-BS1)				Prepared & Analyzed: 05-Apr-23						
Chloride	416	16.0	mg/kg	400		104	80-120			
LCS Dup (3040517-BSD1)				Prepared & Analyzed: 05-Apr-23						
Chloride	416	16.0	mg/kg	400		104	80-120	0.00	20	
Batch 3040605 - 1:4 DI Water										
Blank (3040605-BLK1)				Prepared & Analyzed: 06-Apr-23						
Chloride	ND	16.0	mg/kg							
LCS (3040605-BS1)				Prepared & Analyzed: 06-Apr-23						
Chloride	448	16.0	mg/kg	400		112	80-120			
LCS Dup (3040605-BSD1)				Prepared & Analyzed: 06-Apr-23						
Chloride	416	16.0	mg/kg	400		104	80-120	7.41	20	

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CARDINAL Laboratories

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Analytical Results For:

TALON LPE 408 W. TEXAS AVE. ARTESIA NM, 88210	Project: PARKVIEW STATE COM #4 Project Number: 700438.266.03 Project Manager: CHAD HENSLEY Fax To: (575) 745-8905	Reported: 12-Apr-23 08:45

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3040528 - Volatiles										
Blank (3040528-BLK1)				Prepared: 05-Apr-23 Analyzed: 06-Apr-23						
Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	*0.0528*		mg/kg	*0.0500*		*106*	*71.5-134*			
LCS (3040528-BS1)				Prepared: 05-Apr-23 Analyzed: 06-Apr-23						
Benzene	1.89	0.050	mg/kg	2.00		94.5	81.4-118			
Toluene	1.93	0.050	mg/kg	2.00		96.4	88.7-121			
Ethylbenzene	1.96	0.050	mg/kg	2.00		98.0	86.1-120			
m,p-Xylene	4.05	0.100	mg/kg	4.00		101	88.2-124			
o-Xylene	1.98	0.050	mg/kg	2.00		99.0	84.9-118			
Total Xylenes	6.03	0.150	mg/kg	6.00		100	87.3-122			
Surrogate: 4-Bromofluorobenzene (PID)	*0.0510*		mg/kg	*0.0500*		*102*	*71.5-134*			
LCS Dup (3040528-BSD1)				Prepared: 05-Apr-23 Analyzed: 06-Apr-23						
Benzene	2.00	0.050	mg/kg	2.00		99.9	81.4-118	5.52	15.8	
Toluene	2.01	0.050	mg/kg	2.00		100	88.7-121	4.13	15.9	
Ethylbenzene	2.04	0.050	mg/kg	2.00		102	86.1-120	4.00	16	
m,p-Xylene	4.21	0.100	mg/kg	4.00		105	88.2-124	3.85	16.2	
o-Xylene	2.00	0.050	mg/kg	2.00		100	84.9-118	1.21	16.7	
Total Xylenes	6.21	0.150	mg/kg	6.00		104	87.3-122	2.99	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	*0.0505*		mg/kg	*0.0500*		*101*	*71.5-134*			

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

TALON LPE 408 W. TEXAS AVE. ARTESIA NM, 88210	Project: PARKVIEW STATE COM #4 Project Number: 700438.266.03 Project Manager: CHAD HENSLEY Fax To: (575) 745-8905	Reported: 12-Apr-23 08:45

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3040523 - General Prep - Organics										
Blank (3040523-BLK1)				Prepared: 05-Apr-23 Analyzed: 06-Apr-23						
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	*36.0*		mg/kg	*50.0*		*72.0*	*48.2-134*			
Surrogate: 1-Chlorooctadecane	*37.7*		mg/kg	*50.0*		*75.5*	*49.1-148*			
LCS (3040523-BS1)				Prepared: 05-Apr-23 Analyzed: 06-Apr-23						
GRO C6-C10	181	10.0	mg/kg	200		90.6	78.5-124			
DRO >C10-C28	170	10.0	mg/kg	200		84.8	72.5-126			
Total TPH C6-C28	351	10.0	mg/kg	400		87.7	77.6-123			
Surrogate: 1-Chlorooctane	*40.9*		mg/kg	*50.0*		*81.7*	*48.2-134*			
Surrogate: 1-Chlorooctadecane	*40.1*		mg/kg	*50.0*		*80.3*	*49.1-148*			
LCS Dup (3040523-BSD1)				Prepared: 05-Apr-23 Analyzed: 06-Apr-23						
GRO C6-C10	184	10.0	mg/kg	200		91.8	78.5-124	1.30	17.7	
DRO >C10-C28	179	10.0	mg/kg	200		89.4	72.5-126	5.29	21	
Total TPH C6-C28	362	10.0	mg/kg	400		90.6	77.6-123	3.25	18.5	
Surrogate: 1-Chlorooctane	*40.4*		mg/kg	*50.0*		*80.7*	*48.2-134*			
Surrogate: 1-Chlorooctadecane	*39.9*		mg/kg	*50.0*		*79.7*	*49.1-148*			

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Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Talon LPE
Project Manager: Chad Hensley
Address: 408 W. Texas Ave
City: Artesia State: NM Zip: 88210
Phone #: 575.746.8768 Fax #:
Project #: 700438.266.03 Project Owner: Cimerax
* Project Name: ~~Taco Auk State # 3~~ Parkview State Com #4
Project Location: Lea County, NM
Sampler Name: Chad Hensley

BILL TO
P.O. #:
Company: Cimerax
Attn: Laci Luig / Ashton
Address:
City:
State: Zip:
Phone #:
Fax #:

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	CL	BTEX	TPH
H231579																	
1	TT-1 @ 1'	G	1			✓					✓		4/4/23	08:10	✓	✓	✓
2	TT-1 @ 3'	G	1			✓					✓		4/4/23	08:15	✓	✓	✓
3	TT-1 @ 4'	G				✓					✓		4/4/23	08:19	✓	✓	✓
4	TT-2@1'	G				✓					✓		4/4/23	08:23	✓	✓	✓
5	TT-2@3'	G				✓					✓		4/4/23	08:29	✓	✓	✓
6	TT-2@4'	G				✓					✓		4/4/23	08:34	✓	✓	✓
7	TT-3@1'	G				✓					✓		4/4/23	08:45	✓	✓	✓
8	TT-3@3'	G				✓					✓		4/4/23	08:49	✓	✓	✓
9	TT-3@4'	G				✓					✓		4/4/23	08:55	✓	✓	✓

Relinquished By: Chad Hensley Date: 4-5-23 Time: 1400 Received By: S Rodriguez
Relinquished By: Date: Time: Received By:
Delivered By: (Circle One) Sampler - UPS - Bus - Other: #113 2.9°C / 2.3°C
Sample Condition: Cool ☑ Yes ☐ No Intact ☑ Yes ☐ No
CHECKED BY: (Initials) SR

Phone Result: ☐ Yes ☐ No Add'l Phone #:
Fax Result: ☐ Yes ☐ No Add'l Fax #:
REMARKS:
* Customer requested Name change. TO-4/11/23
laci.luig@coterra.com & ashton.thielke@coterra.com

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

CARDINAL Laboratories

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

May 12, 2023

CHAD HENSLEY

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: CIMAREX.PARKWAY STATE COM #4

Enclosed are the results of analyses for samples received by the laboratory on 05/09/23 12:00.

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 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. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

TALON LPE
CHAD HENSLEY
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received:	05/09/2023	Sampling Date:	05/08/2023
Reported:	05/12/2023	Sampling Type:	Soil
Project Name:	CIMAREX.PARKWAY STATE COM #4	Sampling Condition:	Cool & Intact
Project Number:	701162.118.01	Sample Received By:	Tamara Oldaker
Project Location:	EDDY		

Sample ID: S - 1 (H232286-01)

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	05/10/2023	ND	2.10	105	2.00	4.30	
Toluene*	<0.050	0.050	05/10/2023	ND	2.16	108	2.00	5.32	
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.07	103	2.00	4.81	
Total Xylenes*	<0.150	0.150	05/10/2023	ND	6.50	108	6.00	6.10	
Total BTEX	<0.300	0.300	05/10/2023	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**240**	16.0	05/10/2023	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	05/09/2023	ND	197	98.3	200	4.91	
DRO >C10-C28*	<10.0	10.0	05/09/2023	ND	189	94.7	200	7.25	
EXT DRO >C28-C36	<10.0	10.0	05/09/2023	ND					

Surrogate: 1-Chlorooctane *98.4 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *93.7 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

TALON LPE
CHAD HENSLEY
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received:	05/09/2023	Sampling Date:	05/08/2023
Reported:	05/12/2023	Sampling Type:	Soil
Project Name:	CIMAREX.PARKWAY STATE COM #4	Sampling Condition:	Cool & Intact
Project Number:	701162.118.01	Sample Received By:	Tamara Oldaker
Project Location:	EDDY		

Sample ID: S - 2 (H232286-02)

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	05/10/2023	ND	2.10	105	2.00	4.30	
Toluene*	<0.050	0.050	05/10/2023	ND	2.16	108	2.00	5.32	
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.07	103	2.00	4.81	
Total Xylenes*	<0.150	0.150	05/10/2023	ND	6.50	108	6.00	6.10	
Total BTEX	<0.300	0.300	05/10/2023	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**288**	16.0	05/10/2023	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	05/09/2023	ND	197	98.3	200	4.91	
DRO >C10-C28*	<10.0	10.0	05/09/2023	ND	189	94.7	200	7.25	
EXT DRO >C28-C36	<10.0	10.0	05/09/2023	ND					

Surrogate: 1-Chlorooctane *99.9 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *95.0 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

TALON LPE
CHAD HENSLEY
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received:	05/09/2023	Sampling Date:	05/08/2023
Reported:	05/12/2023	Sampling Type:	Soil
Project Name:	CIMAREX.PARKWAY STATE COM #4	Sampling Condition:	Cool & Intact
Project Number:	701162.118.01	Sample Received By:	Tamara Oldaker
Project Location:	EDDY		

Sample ID: S - 3 (H232286-03)

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	05/10/2023	ND	2.10	105	2.00	4.30	
Toluene*	<0.050	0.050	05/10/2023	ND	2.16	108	2.00	5.32	
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.07	103	2.00	4.81	
Total Xylenes*	<0.150	0.150	05/10/2023	ND	6.50	108	6.00	6.10	
Total BTEX	<0.300	0.300	05/10/2023	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**272**	16.0	05/10/2023	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	05/09/2023	ND	197	98.3	200	4.91	
DRO >C10-C28*	<10.0	10.0	05/09/2023	ND	189	94.7	200	7.25	
EXT DRO >C28-C36	<10.0	10.0	05/09/2023	ND					

Surrogate: 1-Chlorooctane *103 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *95.0 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

TALON LPE
CHAD HENSLEY
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received:	05/09/2023	Sampling Date:	05/08/2023
Reported:	05/12/2023	Sampling Type:	Soil
Project Name:	CIMAREX.PARKWAY STATE COM #4	Sampling Condition:	Cool & Intact
Project Number:	701162.118.01	Sample Received By:	Tamara Oldaker
Project Location:	EDDY		

Sample ID: SW - 1 (H232286-04)

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	05/10/2023	ND	2.10	105	2.00	4.30	
Toluene*	<0.050	0.050	05/10/2023	ND	2.16	108	2.00	5.32	
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.07	103	2.00	4.81	
Total Xylenes*	<0.150	0.150	05/10/2023	ND	6.50	108	6.00	6.10	
Total BTEX	<0.300	0.300	05/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *103 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**528**	16.0	05/10/2023	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	05/10/2023	ND	197	98.3	200	4.91	
DRO >C10-C28*	<10.0	10.0	05/10/2023	ND	189	94.7	200	7.25	
EXT DRO >C28-C36	<10.0	10.0	05/10/2023	ND					

Surrogate: 1-Chlorooctane *103 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *98.9 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

TALON LPE
CHAD HENSLEY
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received:	05/09/2023	Sampling Date:	05/08/2023
Reported:	05/12/2023	Sampling Type:	Soil
Project Name:	CIMAREX.PARKWAY STATE COM #4	Sampling Condition:	Cool & Intact
Project Number:	701162.118.01	Sample Received By:	Tamara Oldaker
Project Location:	EDDY		

Sample ID: SW - 2 (H232286-05)

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	05/10/2023	ND	2.10	105	2.00	4.30	
Toluene*	<0.050	0.050	05/10/2023	ND	2.16	108	2.00	5.32	
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.07	103	2.00	4.81	
Total Xylenes*	<0.150	0.150	05/10/2023	ND	6.50	108	6.00	6.10	
Total BTEX	<0.300	0.300	05/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *101 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**160**	16.0	05/10/2023	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	05/10/2023	ND	197	98.3	200	4.91	
DRO >C10-C28*	<10.0	10.0	05/10/2023	ND	189	94.7	200	7.25	
EXT DRO >C28-C36	<10.0	10.0	05/10/2023	ND					

Surrogate: 1-Chlorooctane *105 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *103 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

TALON LPE
CHAD HENSLEY
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received:	05/09/2023	Sampling Date:	05/08/2023
Reported:	05/12/2023	Sampling Type:	Soil
Project Name:	CIMAREX.PARKWAY STATE COM #4	Sampling Condition:	Cool & Intact
Project Number:	701162.118.01	Sample Received By:	Tamara Oldaker
Project Location:	EDDY		

Sample ID: SW - 3 (H232286-06)

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	05/10/2023	ND	2.10	105	2.00	4.30	
Toluene*	<0.050	0.050	05/10/2023	ND	2.16	108	2.00	5.32	
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.07	103	2.00	4.81	
Total Xylenes*	<0.150	0.150	05/10/2023	ND	6.50	108	6.00	6.10	
Total BTEX	<0.300	0.300	05/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *103 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**368**	16.0	05/10/2023	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	05/10/2023	ND	197	98.3	200	4.91	
DRO >C10-C28*	<10.0	10.0	05/10/2023	ND	189	94.7	200	7.25	
EXT DRO >C28-C36	<10.0	10.0	05/10/2023	ND					

Surrogate: 1-Chlorooctane *96.1 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *91.3 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

TALON LPE
CHAD HENSLEY
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received:	05/09/2023	Sampling Date:	05/08/2023
Reported:	05/12/2023	Sampling Type:	Soil
Project Name:	CIMAREX.PARKWAY STATE COM #4	Sampling Condition:	Cool & Intact
Project Number:	701162.118.01	Sample Received By:	Tamara Oldaker
Project Location:	EDDY		

Sample ID: SW - 4 (H232286-07)

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	05/10/2023	ND	2.10	105	2.00	4.30	
Toluene*	<0.050	0.050	05/10/2023	ND	2.16	108	2.00	5.32	
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.07	103	2.00	4.81	
Total Xylenes*	<0.150	0.150	05/10/2023	ND	6.50	108	6.00	6.10	
Total BTEX	<0.300	0.300	05/10/2023	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**272**	16.0	05/10/2023	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	05/09/2023	ND	166	82.9	200	1.12	
DRO >C10-C28*	<10.0	10.0	05/09/2023	ND	173	86.3	200	4.50	
EXT DRO >C28-C36	<10.0	10.0	05/09/2023	ND					

Surrogate: 1-Chlorooctane *74.3 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *84.0 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

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

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Talon LPE	**BILL TO**
Project Manager: Chad Hensley	P.O. #:
Address: 408 W. Texas Ave	Company:
City: Artesia State: NM Zip: 88210	Attn:
Phone #: 575.746.8768 Fax #:	Address:
Project #: 701162.118.01 Project Owner:	City:
Project Name: Cimarex.ParkwayStateCom#4	State: Zip:
Project Location: Eddy	Phone #:
Sampler Name: Nathan Rose	Fax #:

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	CL	BTEX	TPH
H232286																	
1	S-1	G	1			✓					✓		5/8/23	0935	✓	✓	✓
2	S-2					✓					✓			0930	✓	✓	✓
3	S-3					✓					✓			0942	✓	✓	✓
4	Sw-1					✓					✓			0910	✓	✓	✓
5	Sw-2					✓					✓			0914	✓	✓	✓
6	Sw-3					✓					✓			0922	✓	✓	✓
7	Sw-4					✓					✓			0927	✓	✓	✓

Relinquished By:	Date: 5-9-23	Received By:	Phone Result: ☐ Yes ☐ No Add'l Phone #:
	Time: 1200		Fax Result: ☐ Yes ☐ No Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:
	Time:		

Delivered By: (Circle One) #113

Sampler - UPS - Bus - Other: 5.9c / 5.3c

Sample Condition: Cool ☑ Yes ☐ No; Intact ☐ Yes ☐ No

CHECKED BY: (Initials) T.O

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 234700

CONDITIONS

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd, Ste 300N Midland, TX 79706	OGRID: 162683
	Action Number: 234700
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	None	11/28/2023