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Closure Report

Verna Rae Tank Battery
Lea County, New Mexico
API ID # 30-025-26547
Incident # NAPP2313060635

Prepared For:

Matador Resources
5347 N. 26th Street 2nd Floor.
Artesia, NM 88210

Prepared By:

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

August 16, 2023

**NMOCD**

506 W. Texas Ave
Artesia, NM 88210

Subject: **Closure Report**
 Verna Rae Tank Battery
 Lea County, New Mexico
 Facility ID # fAPP2203274819
 Incident # NAPP2313060635

To Whom It May Concern,

Matador Resources contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the above referenced location. The incident description, soil sampling results, remedial actions, and closure request are presented herein.

Site Information

The Verna Rae Tank Battery is located approximately 29 miles southwest of Hobbs, New Mexico. The legal location for this release is Unit Letter L, Section 06, Township 20 South, and Range 34 East in Lea County, New Mexico. More specifically the latitude and longitude for the release are 32.607422 and -103.594414. 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 Pyote and Maljamar fine sands 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 eolian and piedmont deposits interlayered eolian sands and piedmont-slope deposits along the eastern flank of the Pecos River valley, primarily between Roswell and Carlsbad. Typically capped by thin eolian deposits.

Groundwater and Site Characterization

The New Mexico Office of the State Engineer Database indicates the nearest reported depth to groundwater is 0.46 mile from the site and is recorded at 110 feet below ground surface (bgs). Further research of the Bureau of Land Management Karst data indicates that this site is situated in low karst area. The FEMA data base locates the site in a minimal flood hazard zone.

Approximate Depth to Groundwater 110 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 depth to water source not available that meets New Mexico Oil Conservation Division's (NMOCD) criteria within 1/2 mile of the site, or less than 25 years of age, 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 May 10, 2023, piping along the back of the tank battery failed due to corrosion (approximately 51 barrels (bbls) of produced water and 9 bbls of oil were released on the pad location. 38 bbls and pasture. 38 bbls. of produced water and 7 bbls of oil were recovered. The initial C-141 submitted to the NMOCD, can be reviewed under incident number NAPP2313060635. The site location map is presented in [Appendix I](#).

Site Assessment Activities

On May 12, 2023, upon client authorization, Talon mobilized personnel and microblaze trailer to the site to apply microblaze to the lightly coated vegetation overspray in the pasture located in the vicinity of sample location S-3. Approximately 750 gallons of microblazed treatment was applied to the impacted area. S-1 through S-5 can be seen on the assessment map attached Figure 1 in [Appendix I](#).

On May 17, 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 hand auger, 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 8015M) and Volatile Organics (BTEX, EPA Method 8021B). Sample locations are shown on the attached Figure 1 in [Appendix I](#), and the results of the 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
S-1	5/17/23	1'	ND	ND	ND	ND	ND	0	496
	5/17/23	2'	ND	ND	ND	ND	ND	0	256
	5/17/23	3'	ND	ND	ND	ND	ND	0	64
	5/17/23	4'	ND	ND	ND	ND	ND	0	112
S-2	5/17/23	1'	ND	ND	ND	ND	ND	0	80
	5/17/23	2'R	ND	ND	ND	ND	ND	0	16
S-3	5/17/23	1'	ND	ND	ND	102	18	120	176
	5/17/23	2'	ND	ND	ND	ND	ND	0	48
	5/17/23	3'	ND	ND	ND	ND	ND	0	32
	5/17/23	4'	ND	ND	ND	ND	ND	0	16
S-4	5/17/23	1'	ND	ND	ND	220	57	277	2080
	5/17/23	2'	ND	ND	ND	ND	ND	0	64
	5/17/23	3'	ND	ND	ND	11	ND	11	80
	5/17/23	4'	ND	ND	ND	ND	ND	0	80
S-5	5/17/23	1'	ND	ND	ND	14	ND	14	80
	5/17/23	2'	ND	ND	ND	ND	ND	0	32
BG-1	5/17/23	0'	ND	ND	ND	ND	ND	0	32

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 June 23 and 28, 2023, Talon Returned to location and removed impacted soils located at S-4. SW-1 original sample returned of the criteria and was resampled on the 28th. The samples were transported with the chain of custody to Cardinal Laboratories, for analysis of Total Chlorides (SM4500CI-B), Total Petroleum Hydrocarbons (TPH, EPA Method 8015M) and Volatile Organics (BTEX, EPA Method 8021B).

On July 26, 2023, Talon Returned to location for the purpose of taking samples in the area microblazed. Confirmation samples C-1 and C-2 were collected. The samples were transported with the chain of custody to Cardinal Laboratories, for analysis of Total Chlorides (SM4500CI-B), Total Petroleum Hydrocarbons (TPH, EPA Method 8015M) and Volatile Organics (BTEX, EPA Method 8021B).

The soil sample results from the laboratory analytical are summarized below. Sample locations are illustrated on excavation map, Figure 2 in [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	
C-1	7/26/2023	1'	ND	ND	ND	ND	ND	ND	48
C-2	7/26/2023	1'	ND	ND	ND	ND	ND	ND	64
C-3	6/23/2023	1'	ND	ND	ND	ND	ND	ND	ND
C-4	6/23/2023	1'	ND	ND	ND	ND	ND	ND	160
SW-1	6/23/2023	0-1'	ND	ND	ND	51	ND	51	1010
	6/28/2023	0-1'	ND	ND	ND	ND	ND	ND	16
SW-2	6/23/2023	0-1'	ND	ND	ND	ND	ND	ND	16
SW-3	6/23/2023	0-1'	ND	ND	ND	ND	ND	ND	ND
SW-4	6/23/2023	0-1'	ND	ND	ND	ND	ND	ND	128

NOTES:

BGS Below ground surface
mg/kg Milligrams per kilogram
C 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 pasture were excavated to depth of 1 foot 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 areas had reached NMOCD closure criteria.
- The excavated areas on pasture backfilled with new like material (sand), machine compacted, and contoured to match the surrounding location.
- 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 Matador Resources, 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

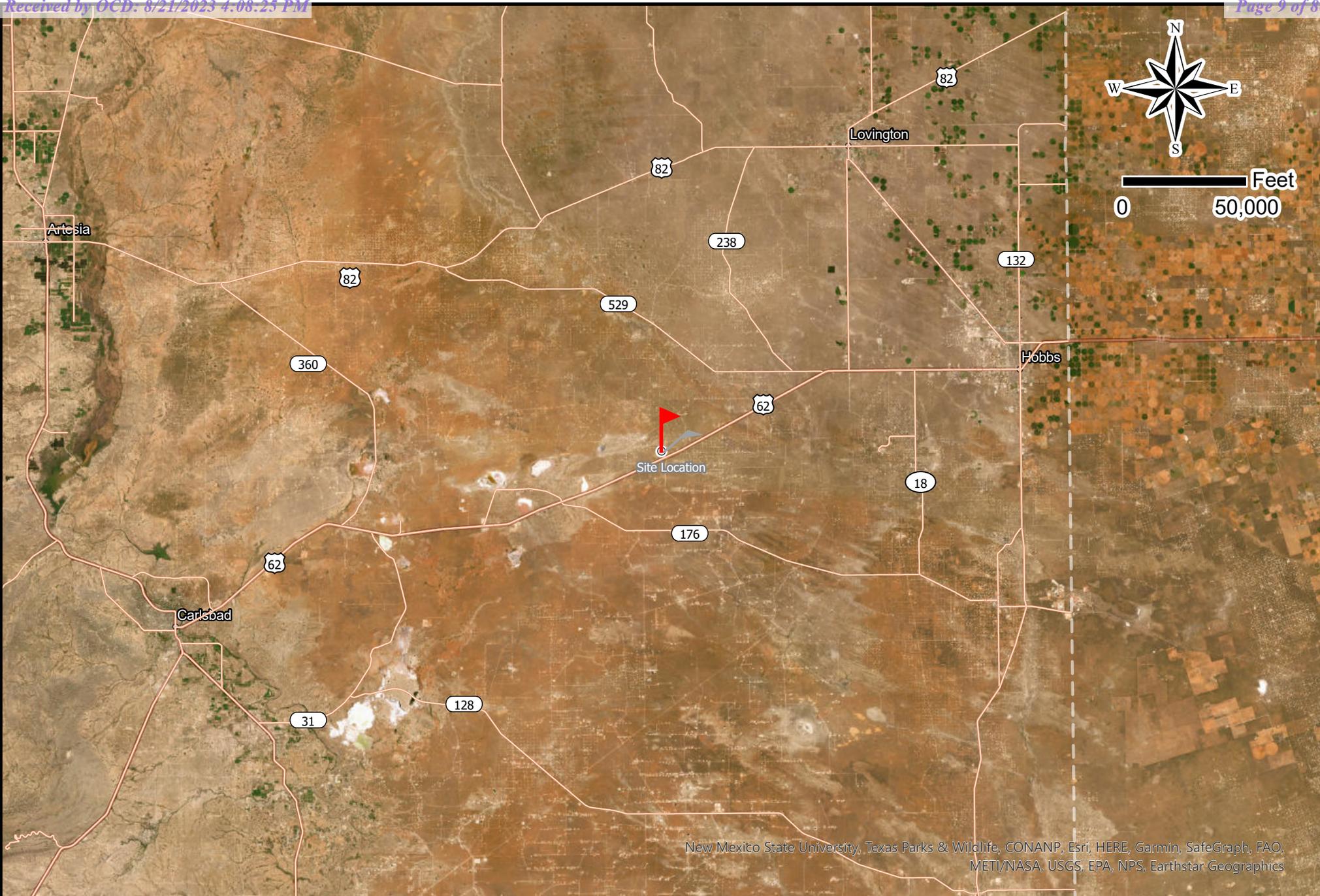
Attachments:

- 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

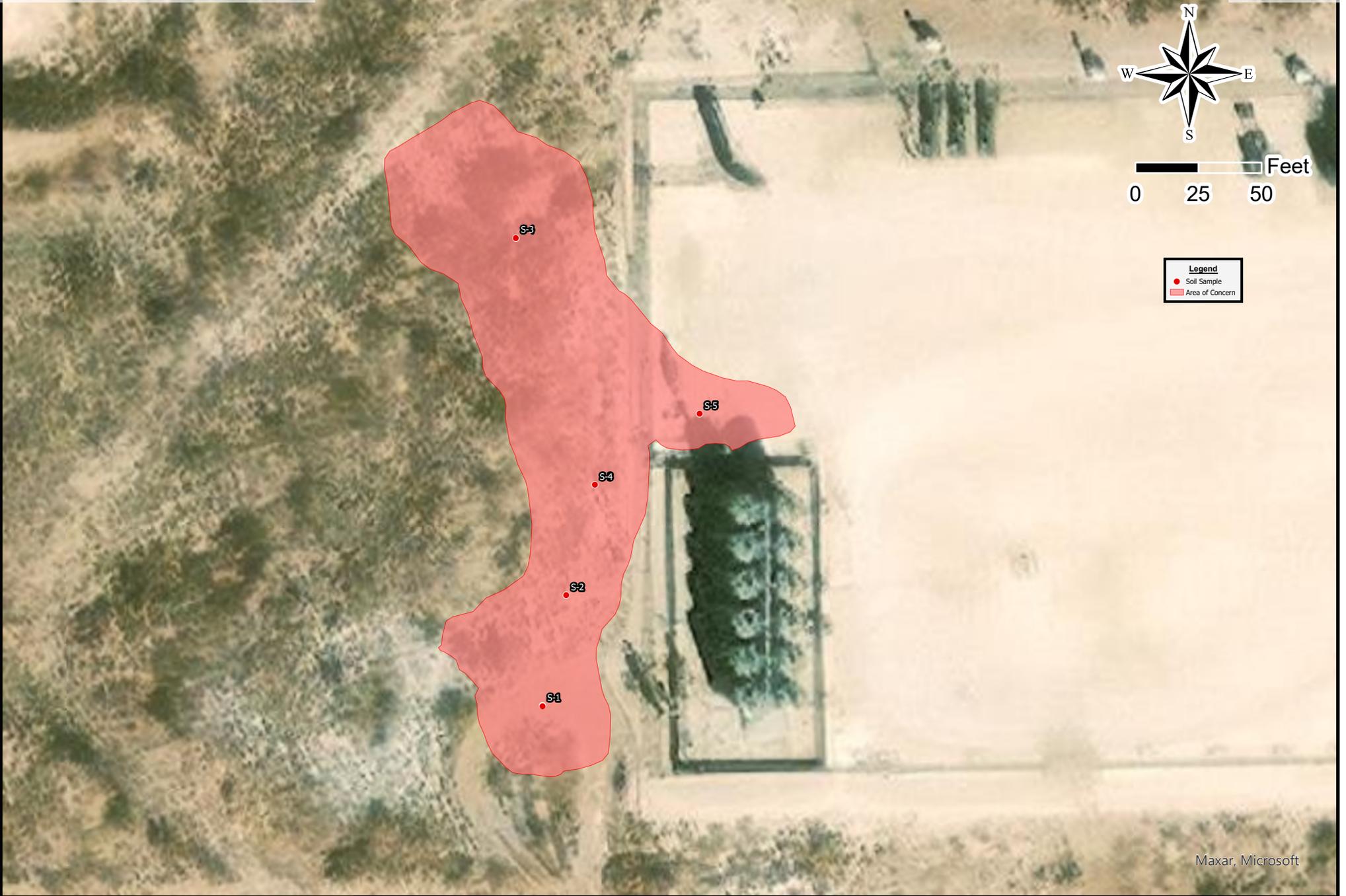


New Mexico State University, Texas Parks & Wildlife, CONANP, Esri, HERE, Garmin, SafeGraph, FAO, METI/NASA, USGS, EPA, NPS, Earthstar Geographics



Drafted: 7/28/2023
 1 in = 50,000 ft
 Drafted By: IJR

Matador Production Co.
 Verna Rae CTB
 Lea County, NM
 Location Map



Drafted: 7/28/2023
 1 in = 50 ft
 Drafted By: IJR

Figure 1

Matador Production Co.
 Verna Rae CTB
 Lea County, NM
 Assessment Map



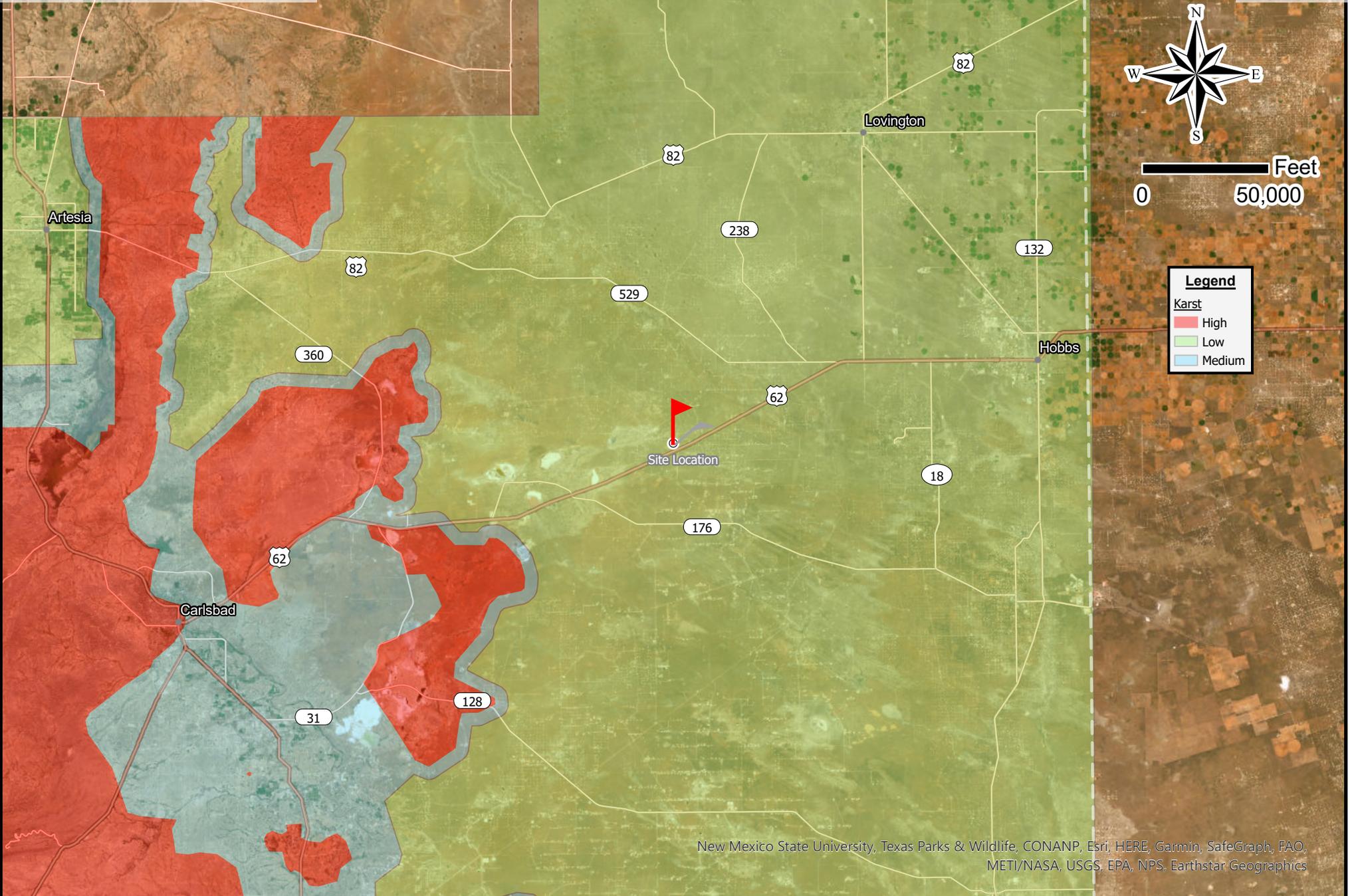
Maxar, Microsoft, Esri Community Maps Contributors, New Mexico State University, Texas Parks & Wildlife, © OpenStreetMap, Microsoft, CONANP, Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA



Drafted: 8/7/2023
 1 in = 50 ft
 Drafted By: IJR

Figure 2

Matador Production Co.
 Verna Rae CTB
 Lea County, NM
 Excavation Map



New Mexico State University, Texas Parks & Wildlife, CONANP, Esri, HERE, Garmin, SafeGraph, FAO, METI/NASA, USGS, EPA, NPS, Earthstar Geographics



Drafted: 7/28/2023
 1 in = 50,000 ft
 Drafted By: IJR

Matador Production Co.
 Verna Rae CTB
 Lea County, NM
 Karst Map

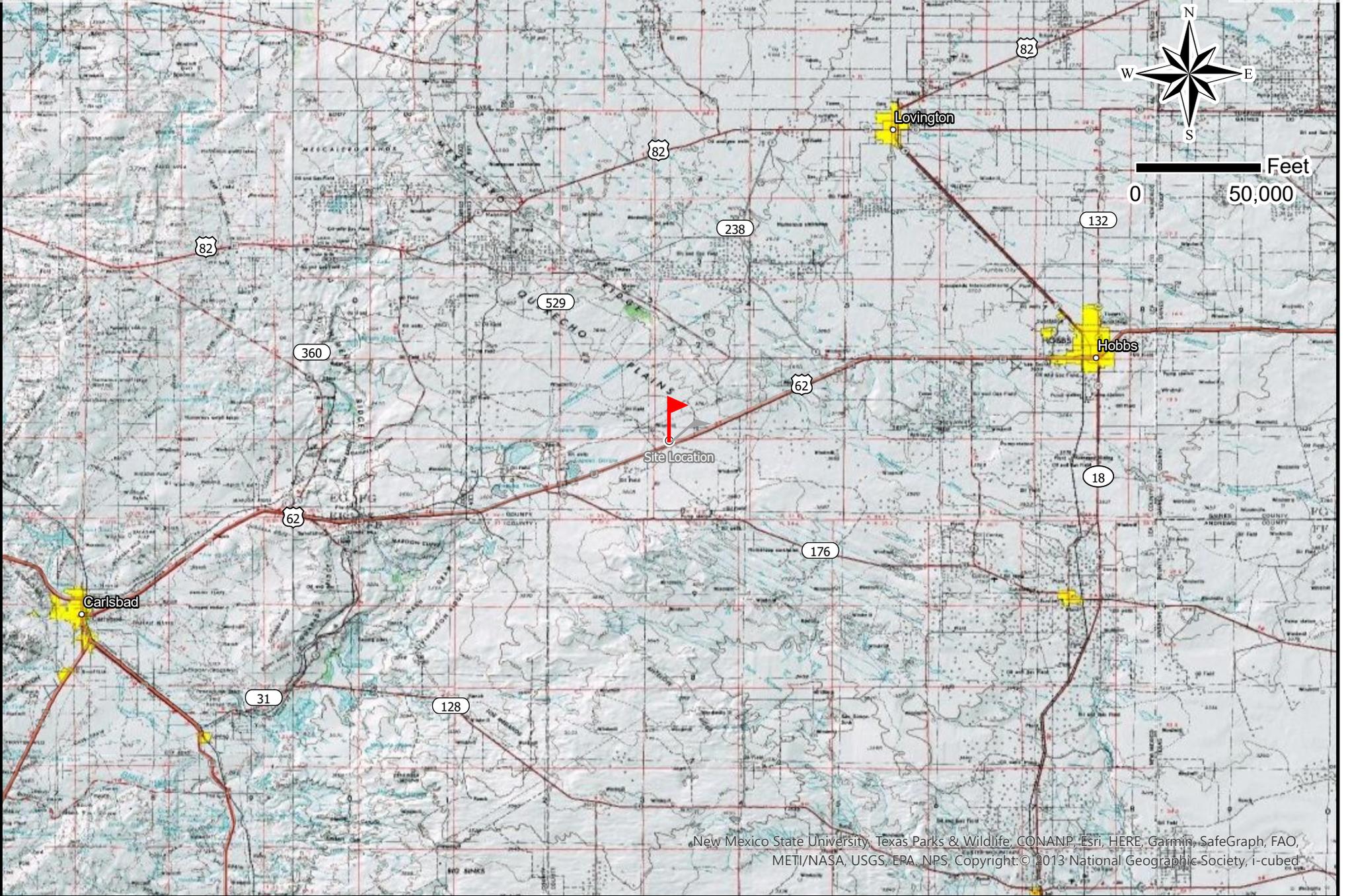


Appendix II

Groundwater Data

Soil Survey

FEMA Flood Map



New Mexico State University, Texas Parks & Wildlife, CONANP, Esri, HERE, Garmin, SafeGraph, FAO, METI/NASA, USGS, EPA, NPS. Copyright © 2013 National Geographic Society, i-cubed



Drafted: 7/28/2023
 1 in = 50,000 ft
 Drafted By: IJR

Matador Production Co.
 Verna Rae CTB
 Lea County, NM
 Topographic Map



New Mexico Office of the State Engineer

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	L 07213	4	1	4	31	19S	34E	631700	3609351*

x

Driller License: 46 **Driller Company:** ABBOTT BROTHERS COMPANY

Driller Name:

Drill Start Date: 05/04/1974	Drill Finish Date: 05/05/1974	Plug Date:
Log File Date: 05/15/1974	PCW Rcv Date:	Source: Shallow
Pump Type:	Pipe Discharge Size:	Estimated Yield: 50 GPM
Casing Size: 7.00	Depth Well: 160 feet	Depth Water: 110 feet

x

Casing Perforations:	Top	Bottom
	110	160

x

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

7/17/23 1:03 PM

POINT OF DIVERSION SUMMARY



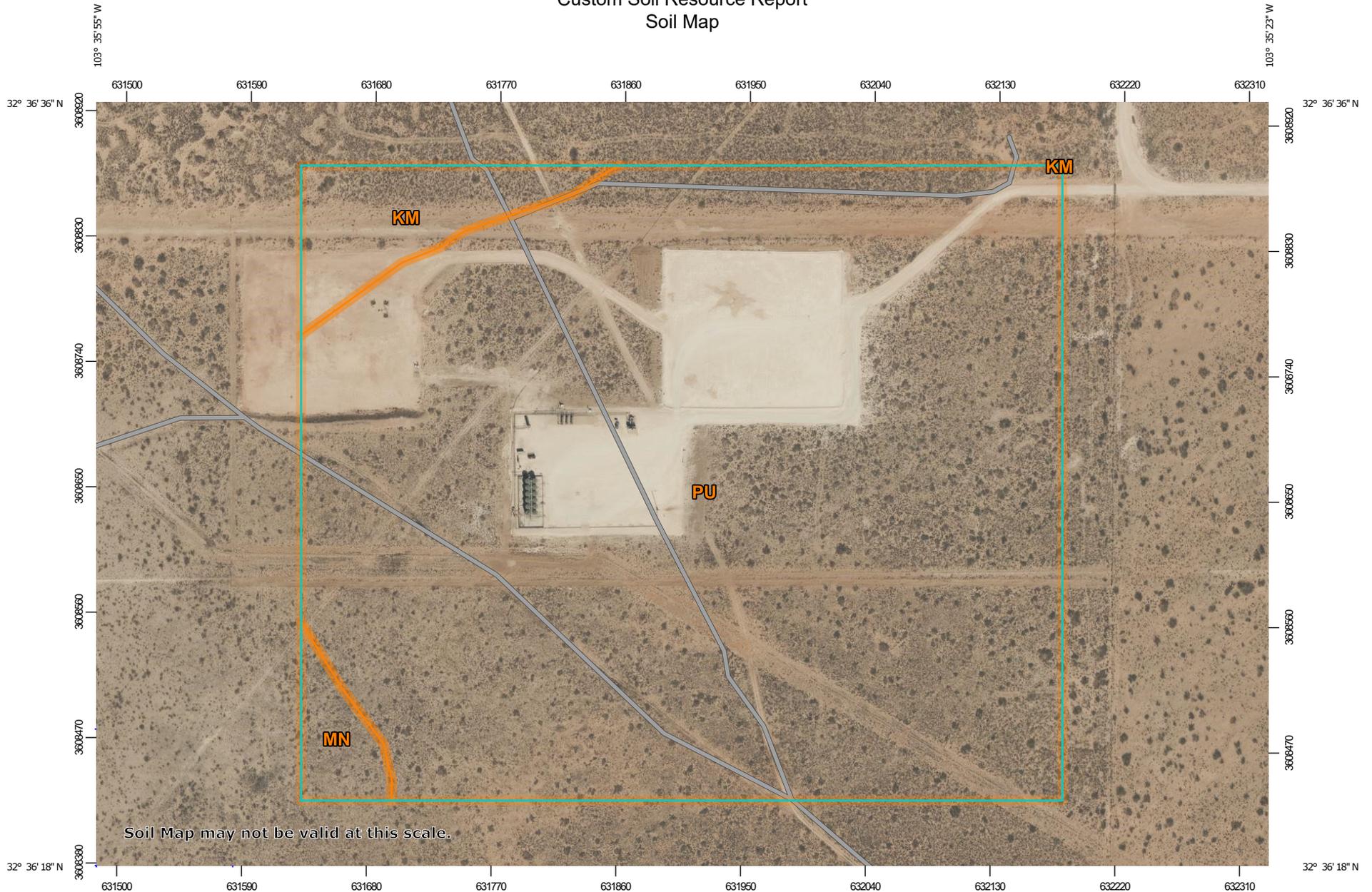
A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

Custom Soil Resource Report for Lea County, New Mexico



July 17, 2023

Custom Soil Resource Report Soil Map



Map Scale: 1:3,870 if printed on A landscape (11" x 8.5") sheet.

0 50 100 200 300 Meters

0 150 300 600 900 Feet

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 13N WGS84

Custom Soil Resource Report

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: Lea County, New Mexico
 Survey Area Data: Version 19, 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: Feb 7, 2020—May 12, 2020

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.

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Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
KM	Kermit soils and Dune land, 0 to 12 percent slopes	3.1	5.1%
MN	Ratliff-Wink fine sandy loams	1.3	2.0%
PU	Pyote and Maljamar fine sands	57.7	92.9%
Totals for Area of Interest		62.1	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

Custom Soil Resource Report

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.

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Lea County, New Mexico**KM—Kermit soils and Dune land, 0 to 12 percent slopes****Map Unit Setting**

National map unit symbol: dmpx
Elevation: 3,000 to 4,400 feet
Mean annual precipitation: 10 to 15 inches
Mean annual air temperature: 60 to 62 degrees F
Frost-free period: 190 to 205 days
Farmland classification: Not prime farmland

Map Unit Composition

Kermit and similar soils: 46 percent
Dune land: 44 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Kermit**Setting**

Landform: Dunes
Landform position (two-dimensional): Shoulder, backslope, footslope
Landform position (three-dimensional): Side slope
Down-slope shape: Convex, linear, concave
Across-slope shape: Convex
Parent material: Calcareous sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 8 inches: fine sand
C - 8 to 60 inches: fine sand

Properties and qualities

Slope: 5 to 12 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Excessively drained
Runoff class: Very low
Capacity of the most limiting layer to transmit water (Ksat): Very high (20.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 3 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: Low (about 3.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: A
Ecological site: R070BC022NM - Sandhills
Hydric soil rating: No

Custom Soil Resource Report

Description of Dune Land

Setting

Landform: Dunes
Landform position (two-dimensional): Shoulder, backslope, footslope
Landform position (three-dimensional): Side slope
Down-slope shape: Convex, linear, concave
Across-slope shape: Convex
Parent material: Sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 6 inches: fine sand
C - 6 to 60 inches: fine sand

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 8
Hydrologic Soil Group: A
Hydric soil rating: No

Minor Components

Palomas

Percent of map unit: 3 percent
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Pyote

Percent of map unit: 3 percent
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Wink

Percent of map unit: 2 percent
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Maljamar

Percent of map unit: 2 percent
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

MN—Ratliff-Wink fine sandy loams

Map Unit Setting

National map unit symbol: dmqf
Elevation: 3,000 to 3,900 feet
Mean annual precipitation: 10 to 15 inches
Mean annual air temperature: 60 to 62 degrees F
Frost-free period: 190 to 205 days

Custom Soil Resource Report

Farmland classification: Farmland of statewide importance

Map Unit Composition

Ratliff and similar soils: 45 percent

Wink and similar soils: 40 percent

Minor components: 15 percent

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

Description of Ratliff**Setting**

Landform: Plains

Landform position (three-dimensional): Dip

Down-slope shape: Convex

Across-slope shape: Convex

Parent material: Calcareous alluvium and/or calcareous eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 4 inches: fine sandy loam

Bw - 4 to 22 inches: clay loam

Bk - 22 to 60 inches: clay loam

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: Low

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

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 50 percent

Gypsum, maximum content: 1 percent

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

Sodium adsorption ratio, maximum: 2.0

Available water supply, 0 to 60 inches: Moderate (about 8.1 inches)

Interpretive groups

Land capability classification (irrigated): 4e

Land capability classification (nonirrigated): 6c

Hydrologic Soil Group: B

Ecological site: R070BC007NM - Loamy

Hydric soil rating: No

Description of Wink**Setting**

Landform: Plains

Landform position (three-dimensional): Dip

Down-slope shape: Convex

Across-slope shape: Convex

Parent material: Calcareous sandy alluvium and/or calcareous sandy eolian deposits derived from sedimentary rock

Custom Soil Resource Report

Typical profile

A - 0 to 12 inches: fine sandy loam

Bk - 12 to 23 inches: sandy loam

Bck - 23 to 60 inches: sandy loam

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: Very low

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

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 30 percent

Gypsum, maximum content: 1 percent

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

Sodium adsorption ratio, maximum: 2.0

Available water supply, 0 to 60 inches: Low (about 4.7 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: A

Ecological site: R070BD004NM - Sandy

Hydric soil rating: No

Minor Components

Kermit

Percent of map unit: 6 percent

Ecological site: R070BC022NM - Sandhills

Hydric soil rating: No

Maljamar

Percent of map unit: 5 percent

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

Palomas

Percent of map unit: 4 percent

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

PU—Pyote and Maljamar fine sands

Map Unit Setting

National map unit symbol: dmqq

Elevation: 3,000 to 3,900 feet

Custom Soil Resource Report

Mean annual precipitation: 10 to 12 inches
Mean annual air temperature: 60 to 62 degrees F
Frost-free period: 190 to 205 days
Farmland classification: Not prime farmland

Map Unit Composition

Pyote and similar soils: 46 percent
Maljamar and similar soils: 44 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Pyote**Setting**

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

Typical profile

A - 0 to 30 inches: fine sand
Bt - 30 to 60 inches: fine sandy loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat): High (2.00 to 6.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 5 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: Low (about 5.1 inches)

Interpretive groups

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

Description of Maljamar**Setting**

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

Custom Soil Resource Report

Typical profile

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

Properties and qualities

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

Interpretive groups

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

Minor Components

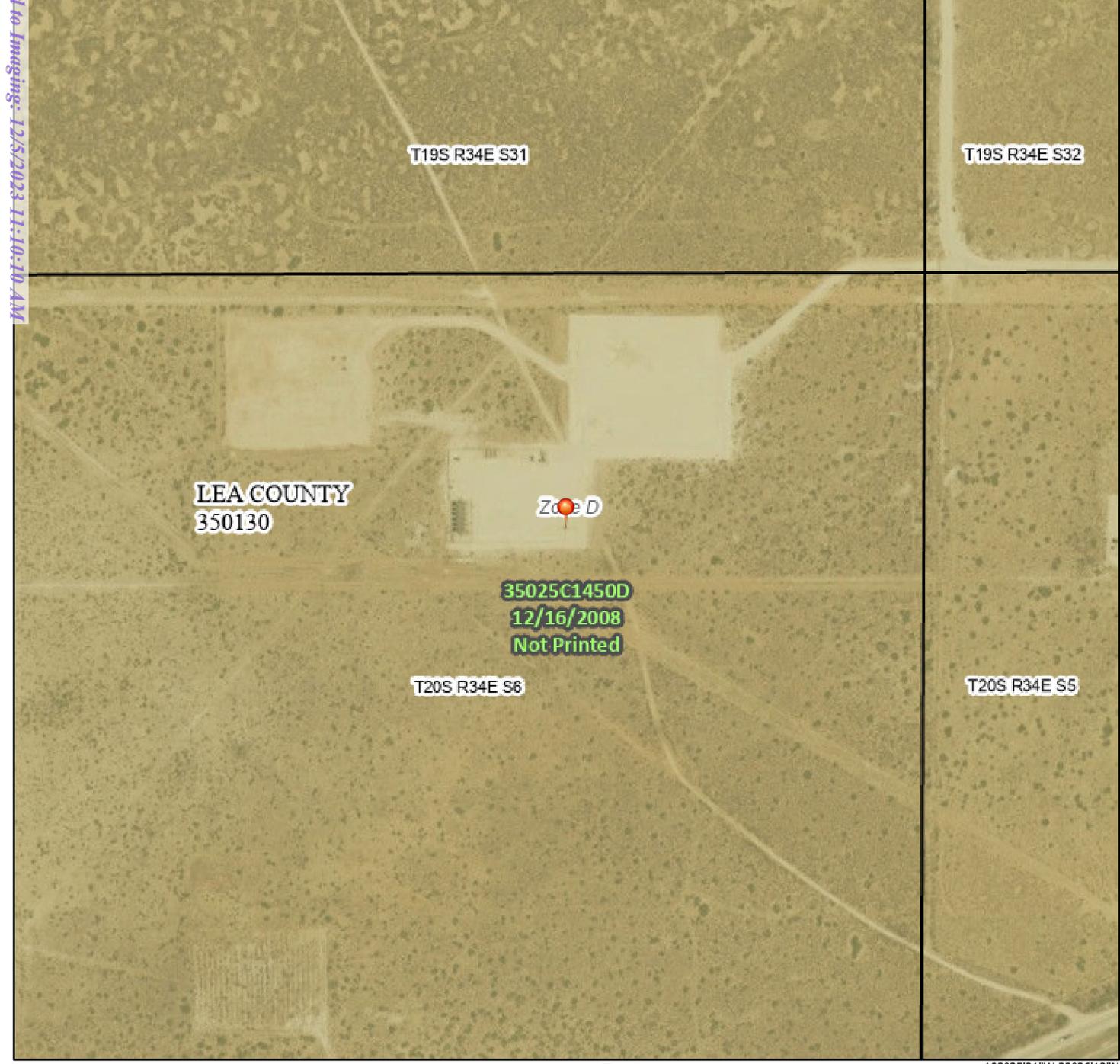
Kermit

Percent of map unit: 10 percent
Ecological site: R070BC022NM - Sandhills
Hydric soil rating: No

National Flood Hazard Layer FIRMette



103°35'59"W 32°36'42"N



Legend

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

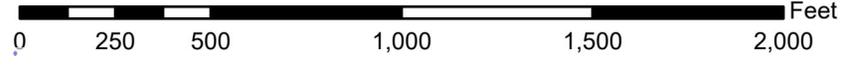
SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) <i>Zone A, V, A99</i>
		With BFE or Depth <i>Zone AE, AO, AH, VE, AR</i>
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage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

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

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on **7/17/2023 at 12:38 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.



1:6,000

103°35'21"W 32°36'12"N

Basemap Imagery Source: USGS National Map 2023

Released to Imaging: 12/5/2023 11:10:10 AM

Received by OCD: 8/21/2023 4:08:25 PM

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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	NAPP2313060635
District RP	
Facility ID	fAPP2203274819
Application ID	

Release Notification

Responsible Party

Responsible Party	Matador Resources	OGRID	228937
Contact Name	Clinton Talley	Contact Telephone	337-319-8398
Contact email	clinton.talley@matadorresources.com	Incident # (assigned by OCD)	NAPP2313060635
Contact mailing address	5347 N. 26th Street 2nd Floor, Artesia, NM 88210		

Location of Release Source

Latitude 32.607422 Longitude -103.594414
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Verna Rae Fed Tank Battery	Site Type	Tank Battery
Date Release Discovered	5/10/2023	API# (if applicable)	

Unit Letter	Section	Township	Range	County
L	6	20S	34E	Lea

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

Nature and Volume of Release

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

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls)	9	Volume Recovered (bbls)	7
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls)	51	Volume Recovered (bbls)	38
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No		
<input type="checkbox"/> Condensate	Volume Released (bbls)		Volume Recovered (bbls)	
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)		Volume Recovered (Mcf)	
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)		Volume/Weight Recovered (provide units)	

Cause of Release

Equipment Failure

State of New Mexico
Oil Conservation Division

Page 2

Incident ID	NAPP2313060635
District RP	
Facility ID	fAPP2203274819
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? NOR	

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Clinton Talley</u>	Title: <u>EHS</u>
Signature: <u><i>Clinton Talley</i></u>	Date: <u>8/21/2023</u>
email: <u>clinton.talley@matadorresources.com</u>	Telephone: <u>337-319-8398</u>
<u>OCD Only</u> Received by: _____ Date: _____	

Incident ID	NAPP2313060635
District RP	
Facility ID	fAPP2203274819
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?	110 (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

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

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

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	NAPP2313060635
District RP	
Facility ID	
Application ID	fAPP2203274819

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: Clinton Talley Title: EHS

Signature: *Clinton Talley* Date: 08/23/2023

email: clinton.talley@matadorresources.com Telephone: 337-319-8398

OCD Only

Received by: _____ Date: _____

Incident ID	NAPP2313060635
District RP	
Facility ID	fAPP2203274819
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: Clinton Talley Title: EHS
 Signature: *Clinton Talley* Date: 08/23/2023
 email: clinton.talley@matadorresources.com Telephone: 337-319-8398

OCD Only

Received by: _____ Date: _____

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: *Nelson Velez* Date: 12/05/2023
 Printed Name: Nelson Velez Title: Environmental Specialist - Adv

From: [Hamlet, Robert, EMNRD](#)
To: [Chad Hensley](#)
Cc: [Bratcher, Michael, EMNRD](#)
Subject: RE: [EXTERNAL] NAPP2313060635 VERNA RAE TANK BATTERY Sampling event
Date: Tuesday, August 8, 2023 1:40:16 PM
Attachments: [image002.png](#)
[image003.png](#)
[image004.png](#)
[image005.png](#)
[image006.png](#)

This message originated from an External Source. Please use proper judgment and caution when opening attachments, clicking links, or responding to this email.

Chad,

Thank you for the notification. In the future, please make sure 2 business days' notice is given on any sampling event. The variance is approved. Thank you

Robert Hamlet • Environmental Specialist - Advanced

Environmental Bureau

EMNRD - Oil Conservation Division

506 W. Texas Ave. | Artesia, NM 88210

575.909.0302 | robert.hamlet@state.nm.us

<http://www.emnrd.state.nm.us/OCD/>



From: Chad Hensley <chensley@talonlpe.com>

Sent: Tuesday, August 8, 2023 1:32 PM

To: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>

Subject: [EXTERNAL] NAPP2313060635 VERNA RAE TANK BATTERY Sampling event

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

To Rob Hamlet,

Talon on behalf of Matador is requesting a Variance for 2 days sampling event due to error on my part. Sampling was conducted on 6/23/2023. Attached is the lab results for those samples.

Chad Hensley

Environmental Project Manager

Office: 575.746.8768 x708

Direct: 575.616.4023

Cell: 575.246.0032

Fax: 575.746.8905

Emergency: 866.742.0742

Web: www.talonlpe.com



At Talon/LPE, we are quality in all things, including communication. Have a question? Need a quote? Send an email to clientrelations@talonlpe.com.

From: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>

Sent: Monday, August 7, 2023 2:43 PM

To: Chad Hensley <chensley@talonlpe.com>

Cc: clinton.talley@matadorresources.com

Subject: NAPP2313060635 VERNA RAE TANK BATTERY

This message originated from an External Source. Please use proper judgment and caution when opening attachments, clicking links, or responding to this email.

Good afternoon Mr. Hensley,

14 day time extension request is approved. Remediation Due date is 08/22/2023.

Please keep a copy of this communication for inclusion within the appropriate report submittal.

Regards,

Nelson Velez • Environmental Specialist - Adv

Environmental Bureau | EMNRD - Oil Conservation Division

1000 Rio Brazos Road | Aztec, NM 87410

(505) 469-6146 | nelson.velez@emnrd.nm.gov

<http://www.emnrd.state.nm.us/OCD/>



[previous email submittal](#):

From: Chad Hensley <chensley@talonlpe.com>
Sent: Monday, August 7, 2023 12:51 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrn.nm.gov>
Cc: Clinton Talley <clinton.talley@matadorresources.com>
Subject: [EXTERNAL] NAPP2313060635 VERNA RAE TANK BATTERY

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

To whom it may concern,

Talon on behalf of Matador is requesting a 2 week extension (to be concluded on 8/21/23) for the Verna Rae Tank Battery release to finalize incident NAPP2313060635.

Chad Hensley
Environmental Project Manager
Office: 575.746.8768 x708
Direct: 575.616.4023
Cell: 575.246.0032
Fax: 575.746.8905
Emergency: 866.742.0742
Web: [www.talonlpe.com]www.talonlpe.com



At Talon/LPE, we are quality in all things, including communication. Have a question? Need a quote? Send an email to clientrelations@talonlpe.com.



Appendix IV

Photographic Documentation



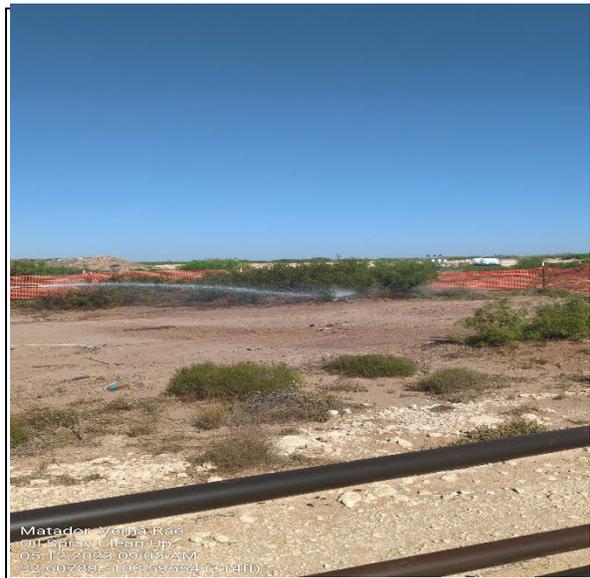
Photograph No.1 Description:

Excavation



Photograph No.2 Description:

Backfill of excavation.



Photograph No.3 Description:

Micro-Blaze overspray



Photograph No.4 Description:

Micro-Blaze overspray



Appendix V

Laboratory Reports



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

May 22, 2023

CHAD HENSLEY
TALON LPE
408 W. TEXAS AVE.
ARTESIA, NM 88210

RE: VERNARAE

Enclosed are the results of analyses for samples received by the laboratory on 05/17/23 12:27.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/17/2023	Sampling Date:	05/14/2023
Reported:	05/22/2023	Sampling Type:	Soil
Project Name:	VERNARAE	Sampling Condition:	Cool & Intact
Project Number:	702520.056.01	Sample Received By:	Shalyn Rodriguez
Project Location:	MATADOR - LEA COUNTY		

Sample ID: S - 1 1' (H232499-01)

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	05/20/2023	ND	2.24	112	2.00	1.17	
Toluene*	<0.050	0.050	05/20/2023	ND	2.29	114	2.00	1.57	
Ethylbenzene*	<0.050	0.050	05/20/2023	ND	2.18	109	2.00	1.00	
Total Xylenes*	<0.150	0.150	05/20/2023	ND	6.72	112	6.00	0.332	
Total BTEX	<0.300	0.300	05/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	496	16.0	05/18/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2023	ND	211	106	200	1.51	
DRO >C10-C28*	<10.0	10.0	05/18/2023	ND	211	105	200	4.70	
EXT DRO >C28-C36	<10.0	10.0	05/18/2023	ND					

Surrogate: 1-Chlorooctane 83.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.0 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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:	05/17/2023	Sampling Date:	05/14/2023
Reported:	05/22/2023	Sampling Type:	Soil
Project Name:	VERNARAE	Sampling Condition:	Cool & Intact
Project Number:	702520.056.01	Sample Received By:	Shalyn Rodriguez
Project Location:	MATADOR - LEA COUNTY		

Sample ID: S - 1 2' (H232499-02)

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	05/20/2023	ND	2.24	112	2.00	1.17	
Toluene*	<0.050	0.050	05/20/2023	ND	2.29	114	2.00	1.57	
Ethylbenzene*	<0.050	0.050	05/20/2023	ND	2.18	109	2.00	1.00	
Total Xylenes*	<0.150	0.150	05/20/2023	ND	6.72	112	6.00	0.332	
Total BTEX	<0.300	0.300	05/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	256	16.0	05/18/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2023	ND	211	106	200	1.51	
DRO >C10-C28*	<10.0	10.0	05/18/2023	ND	211	105	200	4.70	
EXT DRO >C28-C36	<10.0	10.0	05/18/2023	ND					

Surrogate: 1-Chlorooctane 83.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.5 % 49.1-148

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Analytical Results For:

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

Received:	05/17/2023	Sampling Date:	05/14/2023
Reported:	05/22/2023	Sampling Type:	Soil
Project Name:	VERNARAE	Sampling Condition:	Cool & Intact
Project Number:	702520.056.01	Sample Received By:	Shalyn Rodriguez
Project Location:	MATADOR - LEA COUNTY		

Sample ID: S - 1 3' (H232499-03)

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	05/20/2023	ND	2.24	112	2.00	1.17	
Toluene*	<0.050	0.050	05/20/2023	ND	2.29	114	2.00	1.57	
Ethylbenzene*	<0.050	0.050	05/20/2023	ND	2.18	109	2.00	1.00	
Total Xylenes*	<0.150	0.150	05/20/2023	ND	6.72	112	6.00	0.332	
Total BTEX	<0.300	0.300	05/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/18/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2023	ND	211	106	200	1.51	
DRO >C10-C28*	<10.0	10.0	05/18/2023	ND	211	105	200	4.70	
EXT DRO >C28-C36	<10.0	10.0	05/18/2023	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Analytical Results For:

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

Received:	05/17/2023	Sampling Date:	05/14/2023
Reported:	05/22/2023	Sampling Type:	Soil
Project Name:	VERNARAE	Sampling Condition:	Cool & Intact
Project Number:	702520.056.01	Sample Received By:	Shalyn Rodriguez
Project Location:	MATADOR - LEA COUNTY		

Sample ID: S - 1 4' (H232499-04)

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	05/20/2023	ND	2.24	112	2.00	1.17	
Toluene*	<0.050	0.050	05/20/2023	ND	2.29	114	2.00	1.57	
Ethylbenzene*	<0.050	0.050	05/20/2023	ND	2.18	109	2.00	1.00	
Total Xylenes*	<0.150	0.150	05/20/2023	ND	6.72	112	6.00	0.332	
Total BTEX	<0.300	0.300	05/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	05/18/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2023	ND	211	106	200	1.51	
DRO >C10-C28*	<10.0	10.0	05/18/2023	ND	211	105	200	4.70	
EXT DRO >C28-C36	<10.0	10.0	05/18/2023	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Analytical Results For:

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

Received:	05/17/2023	Sampling Date:	05/14/2023
Reported:	05/22/2023	Sampling Type:	Soil
Project Name:	VERNARAE	Sampling Condition:	Cool & Intact
Project Number:	702520.056.01	Sample Received By:	Shalyn Rodriguez
Project Location:	MATADOR - LEA COUNTY		

Sample ID: S - 2 1' (H232499-05)

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	05/20/2023	ND	2.24	112	2.00	1.17	
Toluene*	<0.050	0.050	05/20/2023	ND	2.29	114	2.00	1.57	
Ethylbenzene*	<0.050	0.050	05/20/2023	ND	2.18	109	2.00	1.00	
Total Xylenes*	<0.150	0.150	05/20/2023	ND	6.72	112	6.00	0.332	
Total BTEX	<0.300	0.300	05/20/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/18/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2023	ND	211	106	200	1.51	
DRO >C10-C28*	<10.0	10.0	05/18/2023	ND	211	105	200	4.70	
EXT DRO >C28-C36	<10.0	10.0	05/18/2023	ND					

Surrogate: 1-Chlorooctane 82.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.5 % 49.1-148

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Analytical Results For:

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

Received:	05/17/2023	Sampling Date:	05/14/2023
Reported:	05/22/2023	Sampling Type:	Soil
Project Name:	VERNARAE	Sampling Condition:	Cool & Intact
Project Number:	702520.056.01	Sample Received By:	Shalyn Rodriguez
Project Location:	MATADOR - LEA COUNTY		

Sample ID: S - 2 2' R (H232499-06)

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	05/20/2023	ND	2.24	112	2.00	1.17	
Toluene*	<0.050	0.050	05/20/2023	ND	2.29	114	2.00	1.57	
Ethylbenzene*	<0.050	0.050	05/20/2023	ND	2.18	109	2.00	1.00	
Total Xylenes*	<0.150	0.150	05/20/2023	ND	6.72	112	6.00	0.332	
Total BTEX	<0.300	0.300	05/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/18/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2023	ND	180	90.0	200	1.20	
DRO >C10-C28*	<10.0	10.0	05/18/2023	ND	170	84.9	200	2.20	
EXT DRO >C28-C36	<10.0	10.0	05/18/2023	ND					

Surrogate: 1-Chlorooctane 88.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.6 % 49.1-148

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Analytical Results For:

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

Received:	05/17/2023	Sampling Date:	05/14/2023
Reported:	05/22/2023	Sampling Type:	Soil
Project Name:	VERNARAE	Sampling Condition:	Cool & Intact
Project Number:	702520.056.01	Sample Received By:	Shalyn Rodriguez
Project Location:	MATADOR - LEA COUNTY		

Sample ID: S - 3 1' (H232499-07)

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	05/20/2023	ND	2.24	112	2.00	1.17	
Toluene*	<0.050	0.050	05/20/2023	ND	2.29	114	2.00	1.57	
Ethylbenzene*	<0.050	0.050	05/20/2023	ND	2.18	109	2.00	1.00	
Total Xylenes*	<0.150	0.150	05/20/2023	ND	6.72	112	6.00	0.332	
Total BTEX	<0.300	0.300	05/20/2023	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	176	16.0	05/18/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/19/2023	ND	168	84.0	200	2.09	
DRO >C10-C28*	102	10.0	05/19/2023	ND	168	84.2	200	4.55	
EXT DRO >C28-C36	17.6	10.0	05/19/2023	ND					

Surrogate: 1-Chlorooctane 80.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.8 % 49.1-148

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Analytical Results For:

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

Received:	05/17/2023	Sampling Date:	05/14/2023
Reported:	05/22/2023	Sampling Type:	Soil
Project Name:	VERNARAE	Sampling Condition:	Cool & Intact
Project Number:	702520.056.01	Sample Received By:	Shalyn Rodriguez
Project Location:	MATADOR - LEA COUNTY		

Sample ID: S - 3 2' (H232499-08)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/20/2023	ND	2.24	112	2.00	1.17		
Toluene*	<0.050	0.050	05/20/2023	ND	2.29	114	2.00	1.57		
Ethylbenzene*	<0.050	0.050	05/20/2023	ND	2.18	109	2.00	1.00		
Total Xylenes*	<0.150	0.150	05/20/2023	ND	6.72	112	6.00	0.332		
Total BTEX	<0.300	0.300	05/20/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	05/18/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/19/2023	ND	168	84.0	200	2.09		
DRO >C10-C28*	<10.0	10.0	05/19/2023	ND	168	84.2	200	4.55		
EXT DRO >C28-C36	<10.0	10.0	05/19/2023	ND						

Surrogate: 1-Chlorooctane 81.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.2 % 49.1-148

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Analytical Results For:

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

Received:	05/17/2023	Sampling Date:	05/14/2023
Reported:	05/22/2023	Sampling Type:	Soil
Project Name:	VERNARAE	Sampling Condition:	Cool & Intact
Project Number:	702520.056.01	Sample Received By:	Shalyn Rodriguez
Project Location:	MATADOR - LEA COUNTY		

Sample ID: S - 3 3' (H232499-09)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/20/2023	ND	2.24	112	2.00	1.17	
Toluene*	<0.050	0.050	05/20/2023	ND	2.29	114	2.00	1.57	
Ethylbenzene*	<0.050	0.050	05/20/2023	ND	2.18	109	2.00	1.00	
Total Xylenes*	<0.150	0.150	05/20/2023	ND	6.72	112	6.00	0.332	
Total BTEX	<0.300	0.300	05/20/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/18/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/19/2023	ND	168	84.0	200	2.09	
DRO >C10-C28*	<10.0	10.0	05/19/2023	ND	168	84.2	200	4.55	
EXT DRO >C28-C36	<10.0	10.0	05/19/2023	ND					

Surrogate: 1-Chlorooctane 83.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.6 % 49.1-148

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Analytical Results For:

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

Received:	05/17/2023	Sampling Date:	05/14/2023
Reported:	05/22/2023	Sampling Type:	Soil
Project Name:	VERNARAE	Sampling Condition:	Cool & Intact
Project Number:	702520.056.01	Sample Received By:	Shalyn Rodriguez
Project Location:	MATADOR - LEA COUNTY		

Sample ID: S - 3 4' (H232499-10)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/20/2023	ND	2.24	112	2.00	1.17	
Toluene*	<0.050	0.050	05/20/2023	ND	2.29	114	2.00	1.57	
Ethylbenzene*	<0.050	0.050	05/20/2023	ND	2.18	109	2.00	1.00	
Total Xylenes*	<0.150	0.150	05/20/2023	ND	6.72	112	6.00	0.332	
Total BTEX	<0.300	0.300	05/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/18/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/19/2023	ND	168	84.0	200	2.09	
DRO >C10-C28*	<10.0	10.0	05/19/2023	ND	168	84.2	200	4.55	
EXT DRO >C28-C36	<10.0	10.0	05/19/2023	ND					

Surrogate: 1-Chlorooctane 76.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.3 % 49.1-148

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Analytical Results For:

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

Received:	05/17/2023	Sampling Date:	05/14/2023
Reported:	05/22/2023	Sampling Type:	Soil
Project Name:	VERNARAE	Sampling Condition:	Cool & Intact
Project Number:	702520.056.01	Sample Received By:	Shalyn Rodriguez
Project Location:	MATADOR - LEA COUNTY		

Sample ID: S - 4 1' (H232499-11)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/20/2023	ND	2.24	112	2.00	1.17	
Toluene*	<0.050	0.050	05/20/2023	ND	2.29	114	2.00	1.57	
Ethylbenzene*	<0.050	0.050	05/20/2023	ND	2.18	109	2.00	1.00	
Total Xylenes*	<0.150	0.150	05/20/2023	ND	6.72	112	6.00	0.332	
Total BTEX	<0.300	0.300	05/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2080	16.0	05/18/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/19/2023	ND	168	84.0	200	2.09	
DRO >C10-C28*	220	10.0	05/19/2023	ND	168	84.2	200	4.55	
EXT DRO >C28-C36	56.6	10.0	05/19/2023	ND					

Surrogate: 1-Chlorooctane 82.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/17/2023	Sampling Date:	05/14/2023
Reported:	05/22/2023	Sampling Type:	Soil
Project Name:	VERNARAE	Sampling Condition:	Cool & Intact
Project Number:	702520.056.01	Sample Received By:	Shalyn Rodriguez
Project Location:	MATADOR - LEA COUNTY		

Sample ID: S - 4 2' (H232499-12)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/20/2023	ND	2.42	121	2.00	6.00		
Toluene*	<0.050	0.050	05/20/2023	ND	2.40	120	2.00	6.73		
Ethylbenzene*	<0.050	0.050	05/20/2023	ND	2.32	116	2.00	6.32		
Total Xylenes*	<0.150	0.150	05/20/2023	ND	7.09	118	6.00	7.44		
Total BTEX	<0.300	0.300	05/20/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	05/18/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/19/2023	ND	168	84.0	200	2.09		
DRO >C10-C28*	<10.0	10.0	05/19/2023	ND	168	84.2	200	4.55		
EXT DRO >C28-C36	<10.0	10.0	05/19/2023	ND						

Surrogate: 1-Chlorooctane 83.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/17/2023	Sampling Date:	05/14/2023
Reported:	05/22/2023	Sampling Type:	Soil
Project Name:	VERNARAE	Sampling Condition:	Cool & Intact
Project Number:	702520.056.01	Sample Received By:	Shalyn Rodriguez
Project Location:	MATADOR - LEA COUNTY		

Sample ID: S - 4 3' (H232499-13)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/20/2023	ND	2.42	121	2.00	6.00	
Toluene*	<0.050	0.050	05/20/2023	ND	2.40	120	2.00	6.73	
Ethylbenzene*	<0.050	0.050	05/20/2023	ND	2.32	116	2.00	6.32	
Total Xylenes*	<0.150	0.150	05/20/2023	ND	7.09	118	6.00	7.44	
Total BTEX	<0.300	0.300	05/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 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	80.0	16.0	05/18/2023	ND	400	100	400	3.92	

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	05/18/2023	ND	191	95.4	200	2.92	
DRO >C10-C28*	10.5	10.0	05/18/2023	ND	186	92.8	200	7.40	
EXT DRO >C28-C36	<10.0	10.0	05/18/2023	ND					

Surrogate: 1-Chlorooctane 84.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/17/2023	Sampling Date:	05/14/2023
Reported:	05/22/2023	Sampling Type:	Soil
Project Name:	VERNARAE	Sampling Condition:	Cool & Intact
Project Number:	702520.056.01	Sample Received By:	Shalyn Rodriguez
Project Location:	MATADOR - LEA COUNTY		

Sample ID: S - 4 4' (H232499-14)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/20/2023	ND	2.42	121	2.00	6.00	
Toluene*	<0.050	0.050	05/20/2023	ND	2.40	120	2.00	6.73	
Ethylbenzene*	<0.050	0.050	05/20/2023	ND	2.32	116	2.00	6.32	
Total Xylenes*	<0.150	0.150	05/20/2023	ND	7.09	118	6.00	7.44	
Total BTEX	<0.300	0.300	05/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	80.0	16.0	05/18/2023	ND	400	100	400	3.92	

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	05/18/2023	ND	191	95.4	200	2.92	
DRO >C10-C28*	<10.0	10.0	05/18/2023	ND	186	92.8	200	7.40	
EXT DRO >C28-C36	<10.0	10.0	05/18/2023	ND					

Surrogate: 1-Chlorooctane 84.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/17/2023	Sampling Date:	05/14/2023
Reported:	05/22/2023	Sampling Type:	Soil
Project Name:	VERNARAE	Sampling Condition:	Cool & Intact
Project Number:	702520.056.01	Sample Received By:	Shalyn Rodriguez
Project Location:	MATADOR - LEA COUNTY		

Sample ID: S - 5 1' (H232499-15)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/20/2023	ND	2.36	118	2.00	4.23	
Toluene*	<0.050	0.050	05/20/2023	ND	2.32	116	2.00	4.90	
Ethylbenzene*	<0.050	0.050	05/20/2023	ND	2.25	113	2.00	4.65	
Total Xylenes*	<0.150	0.150	05/20/2023	ND	6.87	114	6.00	3.07	
Total BTEX	<0.300	0.300	05/20/2023	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	80.0	16.0	05/18/2023	ND	400	100	400	3.92	

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	05/18/2023	ND	191	95.4	200	2.92	
DRO >C10-C28*	13.6	10.0	05/18/2023	ND	186	92.8	200	7.40	
EXT DRO >C28-C36	<10.0	10.0	05/18/2023	ND					

Surrogate: 1-Chlorooctane 86.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/17/2023	Sampling Date:	05/14/2023
Reported:	05/22/2023	Sampling Type:	Soil
Project Name:	VERNARAE	Sampling Condition:	Cool & Intact
Project Number:	702520.056.01	Sample Received By:	Shalyn Rodriguez
Project Location:	MATADOR - LEA COUNTY		

Sample ID: S - 5 2' (H232499-16)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/20/2023	ND	2.36	118	2.00	4.23		
Toluene*	<0.050	0.050	05/20/2023	ND	2.32	116	2.00	4.90		
Ethylbenzene*	<0.050	0.050	05/20/2023	ND	2.25	113	2.00	4.65		
Total Xylenes*	<0.150	0.150	05/20/2023	ND	6.87	114	6.00	3.07		
Total BTEX	<0.300	0.300	05/20/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	05/18/2023	ND	400	100	400	3.92		

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	05/18/2023	ND	191	95.4	200	2.92		
DRO >C10-C28*	<10.0	10.0	05/18/2023	ND	186	92.8	200	7.40		
EXT DRO >C28-C36	<10.0	10.0	05/18/2023	ND						

Surrogate: 1-Chlorooctane 89.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/17/2023	Sampling Date:	05/14/2023
Reported:	05/22/2023	Sampling Type:	Soil
Project Name:	VERNARAE	Sampling Condition:	Cool & Intact
Project Number:	702520.056.01	Sample Received By:	Shalyn Rodriguez
Project Location:	MATADOR - LEA COUNTY		

Sample ID: BG 1 (H232499-17)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/20/2023	ND	2.36	118	2.00	4.23	
Toluene*	<0.050	0.050	05/20/2023	ND	2.32	116	2.00	4.90	
Ethylbenzene*	<0.050	0.050	05/20/2023	ND	2.25	113	2.00	4.65	
Total Xylenes*	<0.150	0.150	05/20/2023	ND	6.87	114	6.00	3.07	
Total BTEX	<0.300	0.300	05/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/18/2023	ND	400	100	400	3.92	

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	05/18/2023	ND	191	95.4	200	2.92	
DRO >C10-C28*	<10.0	10.0	05/18/2023	ND	186	92.8	200	7.40	
EXT DRO >C28-C36	<10.0	10.0	05/18/2023	ND					

Surrogate: 1-Chlorooctane 87.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.5 % 49.1-148

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
** Samples not received at proper temperature of 6°C or below.
*** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Talon LPE				BILL TO				ANALYSIS REQUEST											
Project Manager: C. Hensley				P.O. #:															
Address: 408 W. Texas Ave				Company:															
City: Artesia State: NM Zip: 88210				Attn:															
Phone #: 575.746.8768 Fax #:				Address:															
Project #: 702520.056.01 Project Owner: Matador				City:															
Project Name: VernaRae				State: Zip:															
Project Location: Lea County				Phone #:															
Sampler Name: N. Rose				Fax #:															
FOR LAB USE ONLY																			
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP. # CONTAINERS	MATRIX						PRESERV.			SAMPLING		CL	BTEX	TPH			
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME						
H232499																			
1	S-1 1'	G										05/14/2	9:18						
2	S-1 2'	C											9:22						
3	S-1 3'												9:25						
4	S-1 4'												9:30						
5	S-2 1'												10:10						
6	S-2 2' R												10:14						
7	S-3 1'												10:35						
8	S-3 2'												10:38						
9	S-3 3'												10:40						
10	S-3 4'												10:47						

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Relinquished By:	Date: 5/17/23	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: 12:27		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
	Time:			
Delivered By: (Circle One)	#113	Sample Condition	(112)	
Sampler - UPS - Bus - Other:	-1.4c / -2.0c	Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>		
		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	CHECKED BY:	

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



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

June 28, 2023

CHAD HENSLEY
TALON LPE
408 W. TEXAS AVE.
ARTESIA, NM 88210

RE: VERNA RAE

Enclosed are the results of analyses for samples received by the laboratory on 06/23/23 13:00.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene
Lab Director/Quality Manager



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:	06/23/2023	Sampling Date:	06/21/2023
Reported:	06/28/2023	Sampling Type:	Soil
Project Name:	VERNA RAE	Sampling Condition:	Cool & Intact
Project Number:	702520.056.01	Sample Received By:	Tamara Oldaker
Project Location:	MATADOR - EDDY COUNTY		

Sample ID: SW - 1 1' (H233282-01)

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	06/24/2023	ND	2.28	114	2.00	4.59	
Toluene*	<0.050	0.050	06/24/2023	ND	2.15	107	2.00	0.640	
Ethylbenzene*	<0.050	0.050	06/24/2023	ND	2.25	112	2.00	3.92	
Total Xylenes*	<0.150	0.150	06/24/2023	ND	6.77	113	6.00	2.78	
Total BTEX	<0.300	0.300	06/24/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	1010	16.0	06/26/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/26/2023	ND	174	87.1	200	4.58	
DRO >C10-C28*	51.1	10.0	06/26/2023	ND	169	84.4	200	6.08	
EXT DRO >C28-C36	<10.0	10.0	06/26/2023	ND					

Surrogate: 1-Chlorooctane 94.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/23/2023	Sampling Date:	06/21/2023
Reported:	06/28/2023	Sampling Type:	Soil
Project Name:	VERNA RAE	Sampling Condition:	Cool & Intact
Project Number:	702520.056.01	Sample Received By:	Tamara Oldaker
Project Location:	MATADOR - EDDY COUNTY		

Sample ID: SW - 2 1' (H233282-02)

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	06/24/2023	ND	2.28	114	2.00	4.59	
Toluene*	<0.050	0.050	06/24/2023	ND	2.15	107	2.00	0.640	
Ethylbenzene*	<0.050	0.050	06/24/2023	ND	2.25	112	2.00	3.92	
Total Xylenes*	<0.150	0.150	06/24/2023	ND	6.77	113	6.00	2.78	
Total BTEX	<0.300	0.300	06/24/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/26/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/26/2023	ND	174	87.1	200	4.58	
DRO >C10-C28*	<10.0	10.0	06/26/2023	ND	169	84.4	200	6.08	
EXT DRO >C28-C36	<10.0	10.0	06/26/2023	ND					

Surrogate: 1-Chlorooctane 99.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/23/2023	Sampling Date:	06/21/2023
Reported:	06/28/2023	Sampling Type:	Soil
Project Name:	VERNA RAE	Sampling Condition:	Cool & Intact
Project Number:	702520.056.01	Sample Received By:	Tamara Oldaker
Project Location:	MATADOR - EDDY COUNTY		

Sample ID: SW - 3 1' (H233282-03)

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	06/24/2023	ND	2.28	114	2.00	4.59	
Toluene*	<0.050	0.050	06/24/2023	ND	2.15	107	2.00	0.640	
Ethylbenzene*	<0.050	0.050	06/24/2023	ND	2.25	112	2.00	3.92	
Total Xylenes*	<0.150	0.150	06/24/2023	ND	6.77	113	6.00	2.78	
Total BTEX	<0.300	0.300	06/24/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	<16.0	16.0	06/26/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/26/2023	ND	174	87.1	200	4.58	
DRO >C10-C28*	<10.0	10.0	06/26/2023	ND	169	84.4	200	6.08	
EXT DRO >C28-C36	<10.0	10.0	06/26/2023	ND					

Surrogate: 1-Chlorooctane 88.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/23/2023	Sampling Date:	06/21/2023
Reported:	06/28/2023	Sampling Type:	Soil
Project Name:	VERNA RAE	Sampling Condition:	Cool & Intact
Project Number:	702520.056.01	Sample Received By:	Tamara Oldaker
Project Location:	MATADOR - EDDY COUNTY		

Sample ID: SW - 4 1' (H233282-04)

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	06/24/2023	ND	2.28	114	2.00	4.59	
Toluene*	<0.050	0.050	06/24/2023	ND	2.15	107	2.00	0.640	
Ethylbenzene*	<0.050	0.050	06/24/2023	ND	2.25	112	2.00	3.92	
Total Xylenes*	<0.150	0.150	06/24/2023	ND	6.77	113	6.00	2.78	
Total BTEX	<0.300	0.300	06/24/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	06/26/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/26/2023	ND	174	87.1	200	4.58	
DRO >C10-C28*	<10.0	10.0	06/26/2023	ND	169	84.4	200	6.08	
EXT DRO >C28-C36	<10.0	10.0	06/26/2023	ND					

Surrogate: 1-Chlorooctane 87.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/23/2023	Sampling Date:	06/21/2023
Reported:	06/28/2023	Sampling Type:	Soil
Project Name:	VERNA RAE	Sampling Condition:	Cool & Intact
Project Number:	702520.056.01	Sample Received By:	Tamara Oldaker
Project Location:	MATADOR - EDDY COUNTY		

Sample ID: C - 3 1' (H233282-05)

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	06/24/2023	ND	2.28	114	2.00	4.59	
Toluene*	<0.050	0.050	06/24/2023	ND	2.15	107	2.00	0.640	
Ethylbenzene*	<0.050	0.050	06/24/2023	ND	2.25	112	2.00	3.92	
Total Xylenes*	<0.150	0.150	06/24/2023	ND	6.77	113	6.00	2.78	
Total BTEX	<0.300	0.300	06/24/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	<16.0	16.0	06/26/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/26/2023	ND	174	87.1	200	4.58	
DRO >C10-C28*	<10.0	10.0	06/26/2023	ND	169	84.4	200	6.08	
EXT DRO >C28-C36	<10.0	10.0	06/26/2023	ND					

Surrogate: 1-Chlorooctane 84.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/23/2023	Sampling Date:	06/21/2023
Reported:	06/28/2023	Sampling Type:	Soil
Project Name:	VERNA RAE	Sampling Condition:	Cool & Intact
Project Number:	702520.056.01	Sample Received By:	Tamara Oldaker
Project Location:	MATADOR - EDDY COUNTY		

Sample ID: C - 4 1' (H233282-06)

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	06/24/2023	ND	2.28	114	2.00	4.59	
Toluene*	<0.050	0.050	06/24/2023	ND	2.15	107	2.00	0.640	
Ethylbenzene*	<0.050	0.050	06/24/2023	ND	2.25	112	2.00	3.92	
Total Xylenes*	<0.150	0.150	06/24/2023	ND	6.77	113	6.00	2.78	
Total BTEX	<0.300	0.300	06/24/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	06/26/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/26/2023	ND	174	87.1	200	4.58	
DRO >C10-C28*	<10.0	10.0	06/26/2023	ND	169	84.4	200	6.08	
EXT DRO >C28-C36	<10.0	10.0	06/26/2023	ND					

Surrogate: 1-Chlorooctane 89.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCS/D recovery and/or RPD values.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
** Samples not received at proper temperature of 6°C or below.
*** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

July 03, 2023

CHAD HENSLEY
TALON LPE
408 W. TEXAS AVE.
ARTESIA, NM 88210

RE: VERNA RAE

Enclosed are the results of analyses for samples received by the laboratory on 06/28/23 14:45.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene
Lab Director/Quality Manager



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:	06/28/2023	Sampling Date:	06/28/2023
Reported:	07/03/2023	Sampling Type:	Soil
Project Name:	VERNA RAE	Sampling Condition:	** (See Notes)
Project Number:	702520.056.01	Sample Received By:	Tamara Oldaker
Project Location:	MATADOR - LEA COUNTY		

Sample ID: SW - 1 1' (H233346-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/29/2023	ND	1.99	99.3	2.00	2.17	
Toluene*	<0.050	0.050	06/29/2023	ND	1.95	97.7	2.00	2.00	
Ethylbenzene*	<0.050	0.050	06/29/2023	ND	1.91	95.4	2.00	1.47	
Total Xylenes*	<0.150	0.150	06/29/2023	ND	5.80	96.6	6.00	1.52	
Total BTEX	<0.300	0.300	06/29/2023	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	16.0	16.0	06/29/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/29/2023	ND	200	99.9	200	0.670	
DRO >C10-C28*	<10.0	10.0	06/29/2023	ND	197	98.5	200	7.16	
EXT DRO >C28-C36	<10.0	10.0	06/29/2023	ND					

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Talon LPE</u>		BILL TO		ANALYSIS REQUEST											
Project Manager: <u>Chad Hensley</u>		P.O. #:													
Address: <u>408 W. Texas Ave</u>		Company: <u>Matador</u>													
City: <u>Artesia</u> State: <u>NM</u> Zip: <u>88210</u>		Attn:													
Phone #: <u>575-746-8768</u> Fax #:		Address:													
Project #: <u>702520.05601</u> Project Owner: <u>Matador</u>		City:													
Project Name: <u>Verna Rae</u>		State: Zip:													
Project Location: <u>Lea County</u>		Phone #:													
Sampler Name: <u>N. Reese</u>		Fax #:													

FOR LAB USE ONLY		(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.		SAMPLING		DATE	TIME	CL	BTCX	TPH
Lab I.D.	Sample I.D.			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:					
<u>H233346</u>	<u>SW-1 1'</u>	<u>C</u>	<u>1</u>			<u>X</u>						<u>6-28-23</u>	<u>14:28</u>	<u>X</u>	<u>X</u>	<u>X</u>	

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Relinquished By:	Date: <u>6-28-23</u> Time: <u>1:45</u>	Received By:	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Rush All Results are emailed. Please provide Email address:
Relinquished By:	Date:	Received By:	REMARKS:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C <u>37.6</u> Corrected Temp. °C <u>37.0</u>	Sample Condition Cool Intact <input checked="" type="checkbox"/> <input type="checkbox"/> Yes <input type="checkbox"/> No	Turnaround Time: <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush Thermometer ID #113 Correction Factor -0.6°C
		CHECKED BY: (Initials) <u>VO</u>	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No Corrected Temp. °C

FORM-006 R 3.3 07/10/22

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



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

July 24, 2023

CHAD HENSLEY
TALON LPE
408 W. TEXAS AVE.
ARTESIA, NM 88210

RE: VERNA RAE

Enclosed are the results of analyses for samples received by the laboratory on 07/18/23 11:41.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene
Lab Director/Quality Manager



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:	07/18/2023	Sampling Date:	07/18/2023
Reported:	07/24/2023	Sampling Type:	Soil
Project Name:	VERNA RAE	Sampling Condition:	** (See Notes)
Project Number:	702520.056.01	Sample Received By:	Shalyn Rodriguez
Project Location:	MATADOR - LEA COUNTY		

Sample ID: C - 1 1.5' (H233718-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/22/2023	ND	2.12	106	2.00	1.59	
Toluene*	<0.050	0.050	07/22/2023	ND	2.08	104	2.00	1.30	
Ethylbenzene*	<0.050	0.050	07/22/2023	ND	2.01	100	2.00	1.54	
Total Xylenes*	<0.150	0.150	07/22/2023	ND	6.08	101	6.00	0.471	
Total BTEX	<0.300	0.300	07/22/2023	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	48.0	16.0	07/21/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/21/2023	ND	174	87.0	200	6.51	
DRO >C10-C28*	740	10.0	07/21/2023	ND	193	96.4	200	7.90	
EXT DRO >C28-C36	203	10.0	07/21/2023	ND					

Surrogate: 1-Chlorooctane 81.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/18/2023	Sampling Date:	07/18/2023
Reported:	07/24/2023	Sampling Type:	Soil
Project Name:	VERNA RAE	Sampling Condition:	** (See Notes)
Project Number:	702520.056.01	Sample Received By:	Shalyn Rodriguez
Project Location:	MATADOR - LEA COUNTY		

Sample ID: C - 2 1.5' (H233718-02)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/22/2023	ND	2.12	106	2.00	1.59	
Toluene*	<0.050	0.050	07/22/2023	ND	2.08	104	2.00	1.30	
Ethylbenzene*	<0.050	0.050	07/22/2023	ND	2.01	100	2.00	1.54	
Total Xylenes*	<0.150	0.150	07/22/2023	ND	6.08	101	6.00	0.471	
Total BTEX	<0.300	0.300	07/22/2023	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	32.0	16.0	07/21/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/21/2023	ND	174	87.0	200	6.51	
DRO >C10-C28*	485	10.0	07/21/2023	ND	193	96.4	200	7.90	
EXT DRO >C28-C36	132	10.0	07/21/2023	ND					

Surrogate: 1-Chlorooctane 82.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Form with sections: BILL TO, ANALYSIS REQUEST, FOR LAB USE ONLY, Lab I.D., Sample I.D., MATRIX, PRESERV., SAMPLING. Includes handwritten entries for Lab I.D. H233718 and Sample I.D. C-1 1.5'.

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses.

Form with sections: Relinquished By, Received By, Delivered By, Sample Condition, CHECKED BY, Phone Result, Fax Result, REMARKS. Includes handwritten signatures and dates.

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



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

August 08, 2023

CHAD HENSLEY

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: VERNA RAE

Enclosed are the results of analyses for samples received by the laboratory on 07/26/23 14:05.

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/ga/lab_accred_certif.html.

Cardinal Laboratories is accredited 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

Lab Director/Quality Manager



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

Analytical Results For:

TALON LPE 408 W. TEXAS AVE. ARTESIA NM, 88210	Project: VERNA RAE Project Number: 702520.056.01 Project Manager: CHAD HENSLEY Fax To: (575) 745-8905	Reported: 08-Aug-23 11:15
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Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
C - 1 1'	H233914-01	Soil	25-Jul-23 07:53	26-Jul-23 14:05
C - 2 1'	H233914-02	Soil	25-Jul-23 08:05	26-Jul-23 14:05

08/08/23 - Client changed the sample depths (see COC). This is the revised report and will replace the one sent on 08/02/23.

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE 408 W. TEXAS AVE. ARTESIA NM, 88210	Project: VERNA RAE Project Number: 702520.056.01 Project Manager: CHAD HENSLEY Fax To: (575) 745-8905	Reported: 08-Aug-23 11:15
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C - 1 1'
H233914-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	48.0		16.0	mg/kg	4	3073143	AC	31-Jul-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3073103	MS	01-Aug-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3073103	MS	01-Aug-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3073103	MS	01-Aug-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3073103	MS	01-Aug-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3073103	MS	01-Aug-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			106 %	71.5-134		3073103	MS	01-Aug-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3072813	MS	31-Jul-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3072813	MS	31-Jul-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3072813	MS	31-Jul-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			106 %	48.2-134		3072813	MS	31-Jul-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			114 %	49.1-148		3072813	MS	31-Jul-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE 408 W. TEXAS AVE. ARTESIA NM, 88210	Project: VERNA RAE Project Number: 702520.056.01 Project Manager: CHAD HENSLEY Fax To: (575) 745-8905	Reported: 08-Aug-23 11:15
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C - 2 1'
H233914-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	64.0		16.0	mg/kg	4	3073143	AC	31-Jul-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3073103	MS	01-Aug-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3073103	MS	01-Aug-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3073103	MS	01-Aug-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3073103	MS	01-Aug-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3073103	MS	01-Aug-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			104 %	71.5-134		3073103	MS	01-Aug-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3072813	MS	31-Jul-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3072813	MS	31-Jul-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3072813	MS	31-Jul-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			105 %	48.2-134		3072813	MS	31-Jul-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			109 %	49.1-148		3072813	MS	31-Jul-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE 408 W. TEXAS AVE. ARTESIA NM, 88210	Project: VERNA RAE Project Number: 702520.056.01 Project Manager: CHAD HENSLEY Fax To: (575) 745-8905	Reported: 08-Aug-23 11:15
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Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3073143 - 1:4 DI Water										
Blank (3073143-BLK1)										
Prepared & Analyzed: 31-Jul-23										
Chloride	ND	16.0	mg/kg							
LCS (3073143-BS1)										
Prepared & Analyzed: 31-Jul-23										
Chloride	416	16.0	mg/kg	400		104	80-120			
LCS Dup (3073143-BSD1)										
Prepared & Analyzed: 31-Jul-23										
Chloride	416	16.0	mg/kg	400		104	80-120	0.00	20	

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE 408 W. TEXAS AVE. ARTESIA NM, 88210	Project: VERNA RAE Project Number: 702520.056.01 Project Manager: CHAD HENSLEY Fax To: (575) 745-8905	Reported: 08-Aug-23 11:15
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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
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Batch 3073103 - Volatiles

Blank (3073103-BLK1)

Prepared: 31-Jul-23 Analyzed: 01-Aug-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)	0.0516		mg/kg	0.0500		103	71.5-134			

LCS (3073103-BS1)

Prepared: 31-Jul-23 Analyzed: 01-Aug-23

Benzene	2.17	0.050	mg/kg	2.00		108	82.8-130			
Toluene	2.10	0.050	mg/kg	2.00		105	86-128			
Ethylbenzene	2.14	0.050	mg/kg	2.00		107	85.9-128			
m,p-Xylene	4.32	0.100	mg/kg	4.00		108	89-129			
o-Xylene	2.06	0.050	mg/kg	2.00		103	86.1-125			
Total Xylenes	6.38	0.150	mg/kg	6.00		106	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0509		mg/kg	0.0500		102	71.5-134			

LCS Dup (3073103-BSD1)

Prepared: 31-Jul-23 Analyzed: 01-Aug-23

Benzene	2.16	0.050	mg/kg	2.00		108	82.8-130	0.116	15.8	
Toluene	2.05	0.050	mg/kg	2.00		103	86-128	2.16	15.9	
Ethylbenzene	2.12	0.050	mg/kg	2.00		106	85.9-128	0.970	16	
m,p-Xylene	4.30	0.100	mg/kg	4.00		108	89-129	0.462	16.2	
o-Xylene	2.05	0.050	mg/kg	2.00		103	86.1-125	0.391	16.7	
Total Xylenes	6.36	0.150	mg/kg	6.00		106	88.2-128	0.439	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0505		mg/kg	0.0500		101	71.5-134			

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TALON LPE 408 W. TEXAS AVE. ARTESIA NM, 88210	Project: VERNA RAE Project Number: 702520.056.01 Project Manager: CHAD HENSLEY Fax To: (575) 745-8905	Reported: 08-Aug-23 11:15
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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
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Batch 3072813 - General Prep - Organics

Blank (3072813-BLK1)		Prepared: 28-Jul-23 Analyzed: 31-Jul-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	47.3		mg/kg	50.0		94.6	48.2-134			
Surrogate: 1-Chlorooctadecane	53.0		mg/kg	50.0		106	49.1-148			

LCS (3072813-BS1)		Prepared: 28-Jul-23 Analyzed: 31-Jul-23								
GRO C6-C10	204	10.0	mg/kg	200		102	66.4-123			
DRO >C10-C28	228	10.0	mg/kg	200		114	66.5-118			
Total TPH C6-C28	432	10.0	mg/kg	400		108	77.6-123			
Surrogate: 1-Chlorooctane	49.5		mg/kg	50.0		99.0	48.2-134			
Surrogate: 1-Chlorooctadecane	59.9		mg/kg	50.0		120	49.1-148			

LCS Dup (3072813-BSD1)		Prepared: 28-Jul-23 Analyzed: 31-Jul-23								
GRO C6-C10	203	10.0	mg/kg	200		102	66.4-123	0.505	17.7	
DRO >C10-C28	222	10.0	mg/kg	200		111	66.5-118	2.32	21	
Total TPH C6-C28	425	10.0	mg/kg	400		106	77.6-123	1.46	18.5	
Surrogate: 1-Chlorooctane	50.7		mg/kg	50.0		101	48.2-134			
Surrogate: 1-Chlorooctadecane	60.8		mg/kg	50.0		122	49.1-148			

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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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



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				ANALYSIS REQUEST																							
Project Manager: C. Hensley		P.O. #:																											
Address: 408 W. Texas Ave		Company:																											
City: Artesia State: NM Zip: 88210		Attn:																											
Phone #: 575.746.8768 Fax #:		Address:																											
Project #: 702520.056.01 Project Owner: Matador		City:																											
Project Name: Verna Rae		State: Zip:																											
Project Location: Lea County		Phone #:																											
Sampler Name: N. Rose		Fax #:																											
FOR LAB USE ONLY																													
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX				PRESERV.	SAMPLING																		
						GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	CL	BTEX	TPH										
H23394				C	1			<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>			7/25/23	7:53	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>										
1 C-1 0-6" 1" *82				C	1			<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>			7/25/23	8:05	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>										
2 C-2 0-6" 1" *82																													

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Relinquished By:	Date: 7-26-23 Time: 1405	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #: Add'l Fax #:
Relinquished By:	Date: Time:	Received By:	REMARKS: *customer requested depth corrections. Spodriguey 8/1/23	
Delivered By: (Circle One) Sampler - UPS - Bus - Other: 2.9c	#140	Sample Condition: Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	CHECKED BY: (Initials) BB	

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 255131

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 255131
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	None	12/5/2023