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TALON LPE

Closure Report

Cholla 1 Federal #001
Eddy County, New Mexico
API ID # 30-015-31187
Incident # NMCS0217558047

Prepared For:

Matador Resources
26th Street
Artesia, NM 88210

Prepared By:

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

January, 2023

NMOCD
506 W. Texas Ave
Artesia, NM 88210

Subject: **Closure Report**
Cholla 1 Federal #001
Eddy County, New Mexico
API # 30-015-31187
Incident # NMCS0217558047

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 Cholla 1 Federal #001 is located approximately 34 miles west of Artesia, New Mexico. The legal location for this release is Unit Letter J, Section 01, Township 18 South and Range 31 East in Eddy County, New Mexico. More specifically the latitude and longitude for the release are 32.774807 and -103.81983. 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 Wink loamy, 0 to 3 percent slopes. The referenced soil data is presented in Appendix II. Per the New Mexico Bureau of Geology and Mineral Resources, the local geology consists of the Eolian and Piedmont deposits, Holocene to middle Pleistocene in age.

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Ground Water and Site Characterization

The New Mexico Office of the State Engineer Database indicates the nearest reported depth to groundwater 0.67 miles is 460 feet below ground surface (bgs). Further research of the Bureau of Land Management Karst data indicates that this site is situated within a low potential Karst area.

Approximate Depth to Groundwater	**460 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 no depth to water source available that meets New Mexico Oil Conservation Division's (NMOCD) criteria, the responsible party must therefore adhere to the cleanup criteria for this site is as follows; groundwater is less than 50 feet bgs, Table I, NMOCD Rule 19.15.29 NMAC.

Table I 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

Matador personnel noted a historical spill had been reported on March 8th, 2001 and will need to be addressed. The C-141 submitted to the NMOCD, incident number NMCS0217558047, stated that production tank in a containment were moved. During the process a hole was developed on the bottom releasing approximately 91 bbls. of oil with 91 bbls. recovered. The site map is presented in Appendix I.

Site Assessment

On December 15th, 2022, Talon mobilized personnel to the site to conduct an initial site assessment. The impacted area was photographed, sampled utilizing a hand auger, and mapped. All soil samples were properly packaged, preserved, and transported to Eurofins laboratories via chain of custody for analysis of Total Chlorides (Method SM4500Cl-B), TPH (EPA

Method 8015M), and volatile organics (BTEX, EPA Method 8021B). Sample locations are shown on the attached Figure 2 (Appendix I) and the results of our sampling event are presented on the following data table.

Table 1
12/15/2022 Soil sample Laboratory Results

Sample ID	Sample Date	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Chlorides mg/kg
NMOCD Table 1 Closure Criteria 19.15.29 NMAC			50 mg/kg	10 mg/kg	DRO + GRO + MRO combined = 100 mg/kg			100 mg/kg	600 mg/kg
S-1	12/15/2022	1’	ND	ND	ND	18.6	ND	18.6	4
	12/15/2022	2’	ND	ND	ND	17.6	ND	17.6	1.57
	12/15/2022	3’	ND	ND	ND	17.1	ND	17.1	2.99
	12/15/2022	4’	ND	ND	ND	17.7	ND	17.7	1.67
S-2	12/15/2022	1’	ND	ND	ND	18.2	ND	18.2	1.64
	12/15/2022	2’	ND	ND	ND	18.2	ND	18.2	2.20
	12/15/2022	3’	ND	ND	ND	17.2	ND	17.2	2.42
	12/15/2022	4’	ND	ND	ND	ND	ND	18.0	1.95
S-3	12/15/2022	1’	ND	ND	ND	17.7	ND	17.7	4.87
	12/15/2022	2’	ND	ND	ND	17.2	ND	17.2	16.1
	12/15/2022	3’	ND	ND	ND	17.2	ND	17.2	44.1
	12/15/2022	4’	ND	ND	ND	17.3	ND	17.3	39.8
S-4	12/15/2022	1’	ND	ND	ND	19.7	ND	19.7	7.29
	12/15/2022	2’	ND	ND	ND	17.5	ND	17.5	9.48
	12/15/2022	3’	ND	ND	ND	16.9	ND	16.9	14.5
	12/15/2022	4’	ND	ND	ND	16.5	ND	16.5	166
ND = Analyte Not Detected									

Remedial Actions

On January 03, 2023, based on the laboratory results from the initial site assessment and upon client authorization, Talon in good faith concludes that the location meets the closure criteria required by NMOCD to close this incident.

Closure

Based on this site characterization, remedial actions completed, and analytical results, we request that no further actions be required and that closure with regard to this incident be granted.

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

Respectfully submitted,

Talon/LPE

Chad Hensley
Environmental Project Manager

Attachments:

Appendix I	Site Plans
Appendix II	Groundwater Data, Soil Survey
Appendix III	Photographic Documentation
Appendix IV	Laboratory Data
Appendix V	C-141

Appendix I

Site Maps

Matador Resources

Eddy County, NM
Site assessment Map

Legend

- CHOLLA 1 FEDERAL #001
- Sample Point

S-4

S-3

CHOLLA 1 FEDERAL #001

S-2

S-1

N

50 ft

Matador

CHOLLA 1 FEDERAL #001
Lea County, NM

Karst Map

Legend

- CHOLLA 1 FEDERAL #001
- High
- Low
- Medium

CHOLLA 1 FEDERAL #001

N

800 ft

Google Earth

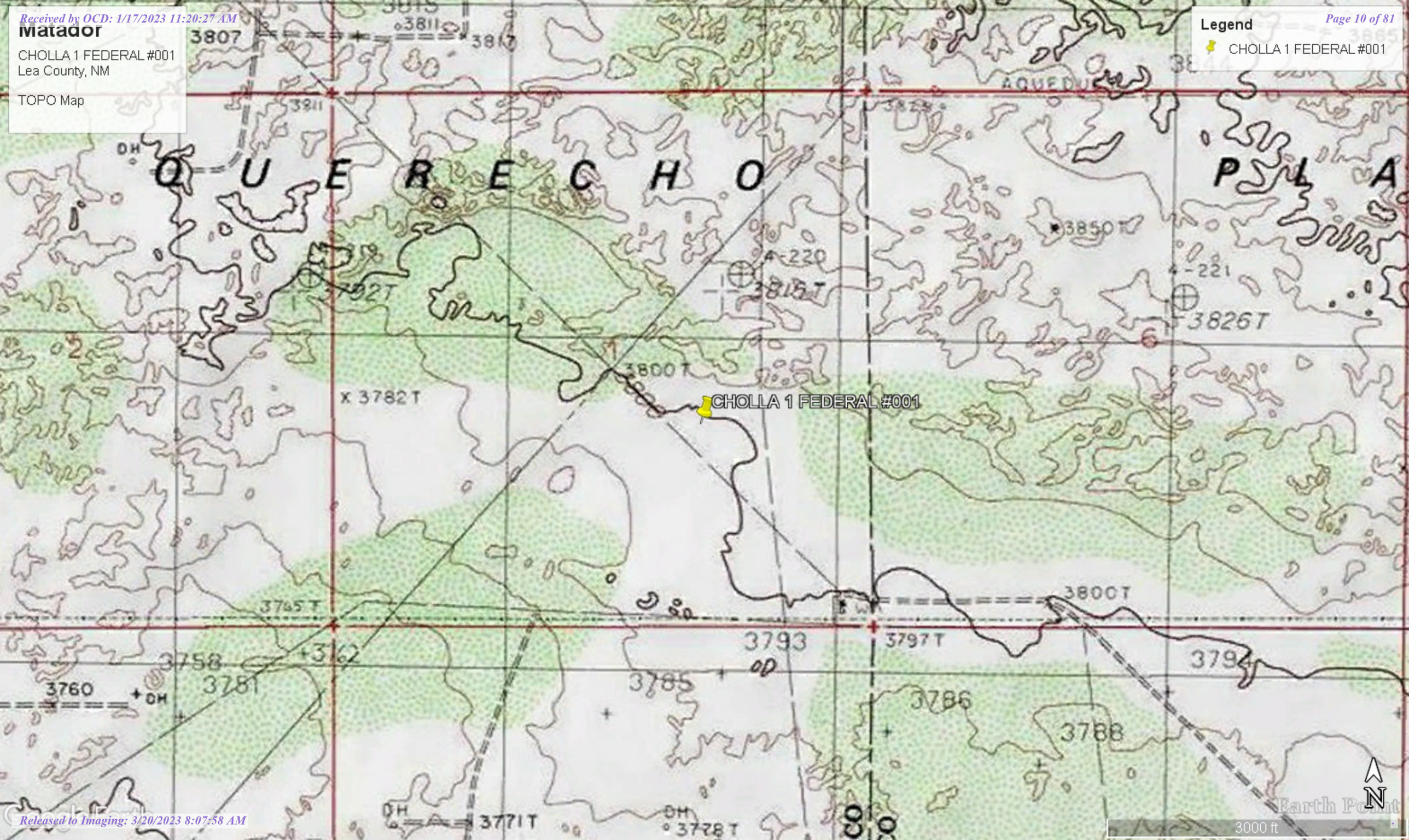
Matador

CHOLLA 1 FEDERAL #001
Lea County, NM

TOPO Map

Legend

CHOLLA 1 FEDERAL #001



Appendix II

Groundwater Data, Soil Survey, & Wetlands Map

United States Department of Agriculture

NRCS

Natural Resources Conservation Service

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

Custom Soil Resource Report for Eddy Area, New Mexico

January 16, 2023

Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (https://offices.sc.egov.usda.gov/locator/app?agency=nrcs) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

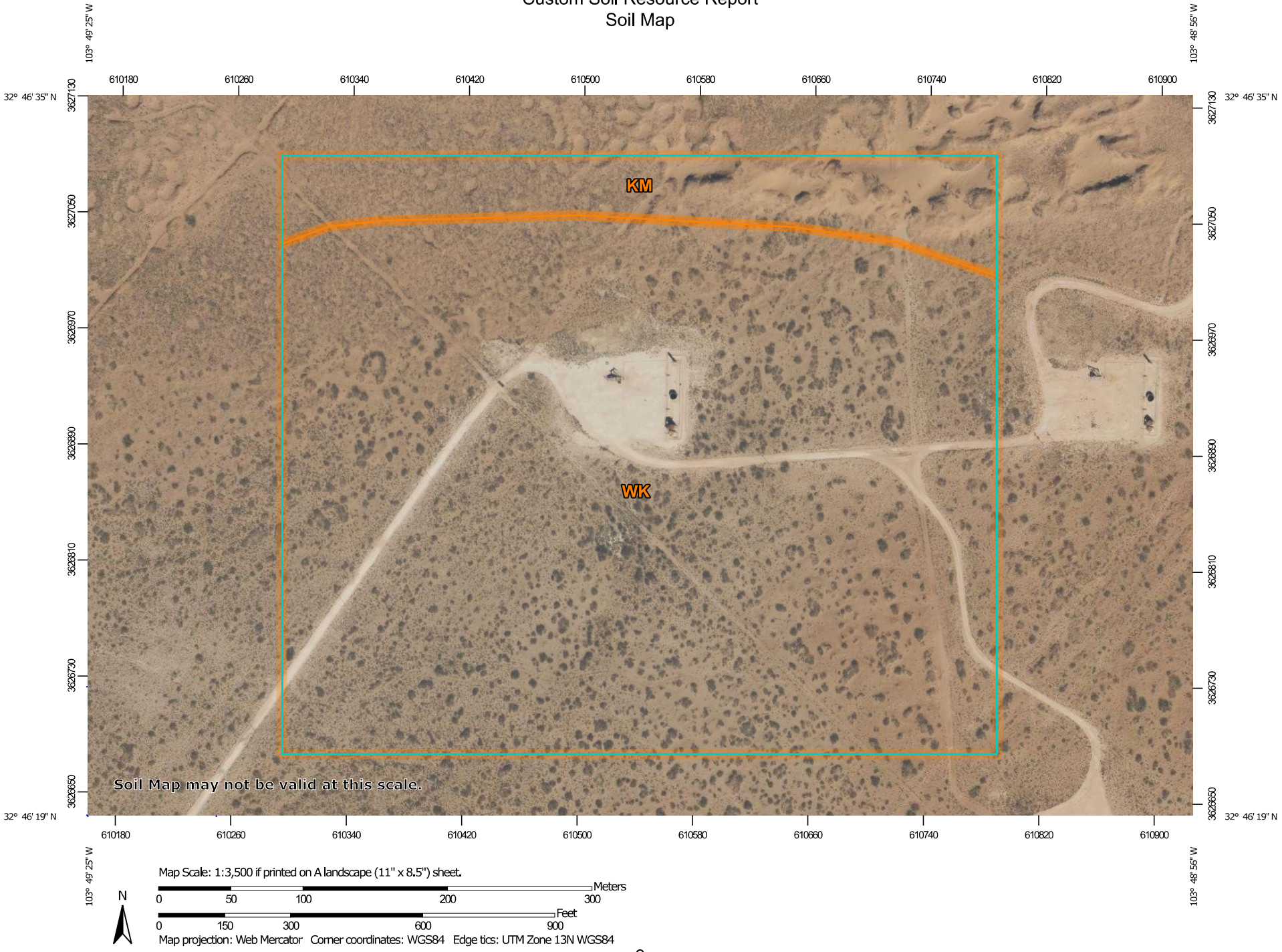
After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

Soil Map

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

Custom Soil Resource Report
Soil Map



MAP LEGEND

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

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

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

Water Features
- Streams and Canals

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

Background
- Aerial Photography

MAP INFORMATION

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

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

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

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

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

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

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

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

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

Date(s) aerial images were photographed: 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.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
KM	Kermit-Berino fine sands, 0 to 3 percent slopes	6.2	12.2%
WK	Wink loamy fine sand, 0 to 3 percent slopes, eroded	44.5	87.8%
Totals for Area of Interest		**50.7**	**100.0%**

Map Unit Descriptions

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

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

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

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

onsite investigation is needed to define and locate the soils and miscellaneous areas.

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

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

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

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

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

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

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

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

Eddy Area, New Mexico

KM—Kermit-Berino fine sands, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 1w4q
Elevation: 3,100 to 4,200 feet
Mean annual precipitation: 10 to 14 inches
Mean annual air temperature: 60 to 64 degrees F
Frost-free period: 190 to 230 days
Farmland classification: Not prime farmland

Map Unit Composition

Kermit and similar soils: 50 percent
Berino and similar soils: 35 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Kermit

Setting

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

Typical profile

H1 - 0 to 7 inches: fine sand
H2 - 7 to 60 inches: fine sand

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Excessively drained
Runoff class: Negligible
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
Maximum salinity: Nonsaline (0.0 to 1.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
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: R070BD005NM - Deep Sand
Hydric soil rating: No

Description of Berino

Setting

Landform: Plains, fan piedmonts
Landform position (three-dimensional): Riser

Down-slope shape: Convex
Across-slope shape: Linear
Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 17 inches: fine sand
H2 - 17 to 50 inches: fine sandy loam
H3 - 50 to 58 inches: loamy sand

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 40 percent
Maximum salinity: Very slightly saline to slightly saline (2.0 to 4.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water supply, 0 to 60 inches: Moderate (about 7.2 inches)

Interpretive groups

Land capability classification (irrigated): 4e
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: B
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Minor Components

Active dune land

Percent of map unit: 15 percent
Hydric soil rating: No

WK—Wink loamy fine sand, 0 to 3 percent slopes, eroded

Map Unit Setting

National map unit symbol: 1w6c
Elevation: 2,700 to 5,000 feet
Mean annual precipitation: 5 to 14 inches
Mean annual air temperature: 57 to 70 degrees F
Frost-free period: 180 to 250 days
Farmland classification: Not prime farmland

Map Unit Composition

Wink and similar soils: 98 percent
Minor components: 2 percent

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

Description of Wink

Setting

Landform: Swales, depressions
Landform position (three-dimensional): Talf
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 8 inches: loamy fine sand
H2 - 8 to 38 inches: fine sandy loam
H3 - 38 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: 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
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water supply, 0 to 60 inches: Low (about 5.7 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: A
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Minor Components

Wink

Percent of map unit: 1 percent
Ecological site: R070BD004NM - Sandy
Hydric soil rating: No

Simona

Percent of map unit: 1 percent
Ecological site: R070BD002NM - Shallow Sandy
Hydric soil rating: No

References

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National Flood Hazard Layer FIRMette

FEMA

103°49'30"W 32°46'44"N

103°48'53"W 32°46'14"N

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

1:6,000

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

Legend

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

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

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

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

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

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

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

N

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

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 1/16/2023 at 11:21 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

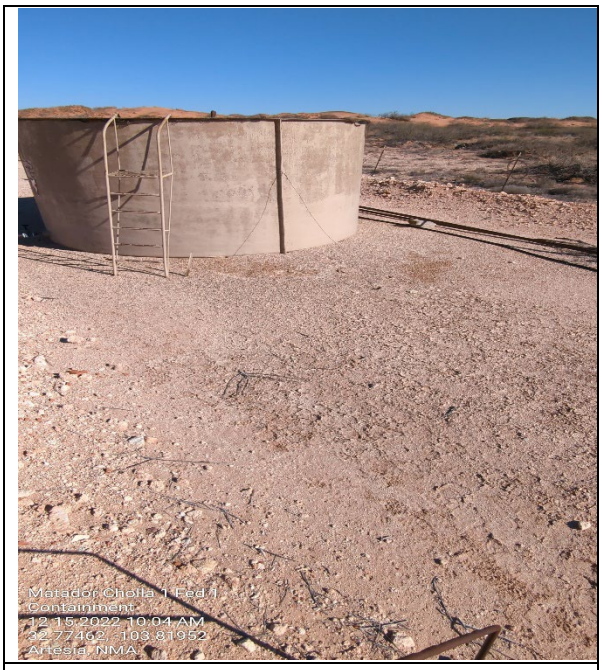
This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

Appendix lll

Photographic Documentation

Photograph No.1 Description:

Well Sign

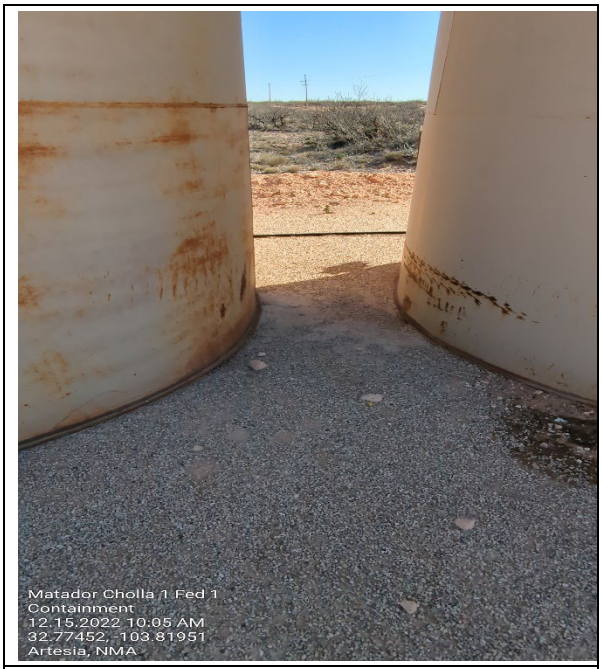


Photograph No.2 Description:

Overview of the containment

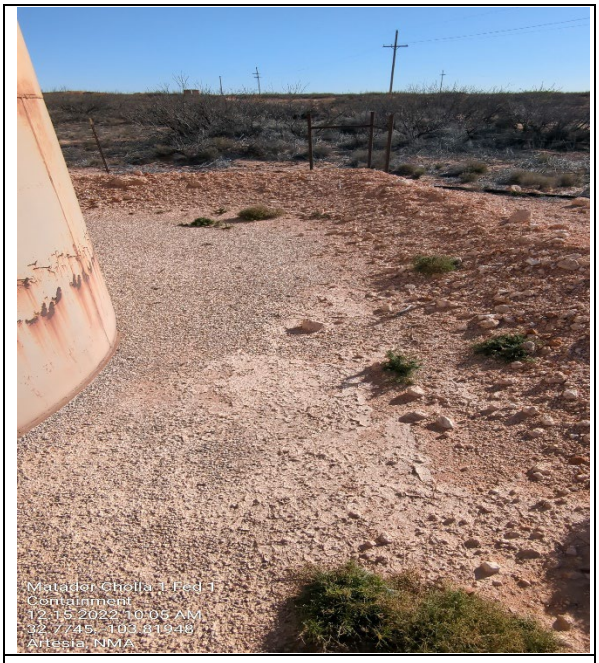
Photograph No.3 Description:

Overview of the containment



Photograph No.4 Description:

Overview of the containment

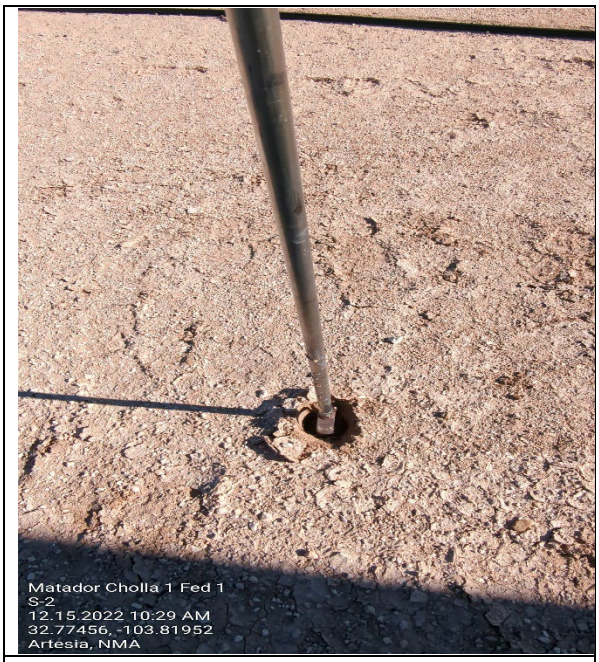


Photograph No.5 Description:

Overview of the containment

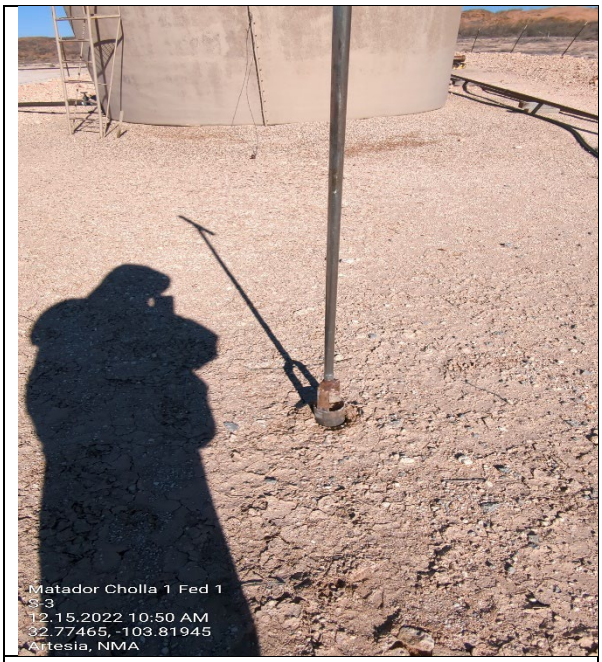
Photograph No.6 Description:

Sample Point 1



Photograph No.7 Description:

Sample Point 2



Photograph No.8 Description:

Sample Point 3

Photograph No.9 Description:

Sample Point 4

Appendix IV

Laboratory Data

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Chad Hensley
Talon/LPE
408 W. Texas St.
Artesia, New Mexico 88210

Generated 1/3/2023 1:58:25 PM

JOB DESCRIPTION

Matador Cholla 1 Fed 01
SDG NUMBER Eddy County NM

JOB NUMBER

890-3720-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

Eurofins Carlsbad

Job Notes

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

Generated
1/3/2023 1:58:25 PM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Talon/LPE
Project/Site: Matador Cholla 1 Fed 01

Laboratory Job ID: 890-3720-1
SDG: Eddy County NM

Table of Contents

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Definitions/Glossary

Client: Talon/LPE
Project/Site: Matador Cholla 1 Fed 01

Job ID: 890-3720-1
SDG: Eddy County NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Talon/LPE
Project/Site: Matador Cholla 1 Fed 01

Job ID: 890-3720-1
SDG: Eddy County NM

Job ID: 890-3720-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-3720-1

Receipt
The samples were received on 12/28/2022 12:24 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.0°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: S-1 (890-3720-1), S-1 (890-3720-2), S-1 (890-3720-3), S-1 (890-3720-4), S-2 (890-3720-5), S-2 (890-3720-6), S-2 (890-3720-7), S-2 (890-3720-8), S-3 (890-3720-9), S-3 (890-3720-10), S-3 (890-3720-11), S-3 (890-3720-12), S-4 (890-3720-13), S-4 (890-3720-14), S-4 (890-3720-15) and S-4 (890-3720-16).

GC VOA
Method 8021B: Surrogate recovery for the following sample was outside control limits: S-2 (890-3720-7). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Talon/LPE
Project/Site: Matador Cholla 1 Fed 01

Job ID: 890-3720-1
SDG: Eddy County NM

Client Sample ID: S-1

Lab Sample ID: 890-3720-1
Matrix: Solid
Date Collected: 12/15/22 10:09
Date Received: 12/28/22 12:24
Sample Depth: 1'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000382	U	0.00198	0.000382	mg/Kg		12/28/22 13:43	12/29/22 16:19	1
Toluene	<0.000452	U	0.00198	0.000452	mg/Kg		12/28/22 13:43	12/29/22 16:19	1
Ethylbenzene	<0.000561	U	0.00198	0.000561	mg/Kg		12/28/22 13:43	12/29/22 16:19	1
m-Xylene & p-Xylene	<0.00100	U	0.00397	0.00100	mg/Kg		12/28/22 13:43	12/29/22 16:19	1
o-Xylene	<0.000341	U	0.00198	0.000341	mg/Kg		12/28/22 13:43	12/29/22 16:19	1
Xylenes, Total	<0.00100	U	0.00397	0.00100	mg/Kg		12/28/22 13:43	12/29/22 16:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*12/28/22 13:43*	*12/29/22 16:19*	*1*
1,4-Difluorobenzene (Surr)	*76*		*70 - 130*	*12/28/22 13:43*	*12/29/22 16:19*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00100	U	0.00397	0.00100	mg/Kg			12/29/22 16:41	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**18.6**	**J**	49.9	15.0	mg/Kg			12/30/22 12:37	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	49.9	15.0	mg/Kg		12/29/22 16:03	12/29/22 22:05	1
Diesel Range Organics (Over C10-C28)	**18.6**	**J**	49.9	15.0	mg/Kg		12/29/22 16:03	12/29/22 22:05	1
OII Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		12/29/22 16:03	12/29/22 22:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*115*		*70 - 130*	*12/29/22 16:03*	*12/29/22 22:05*	*1*
o-Terphenyl	*143*	*S1+*	*70 - 130*	*12/29/22 16:03*	*12/29/22 22:05*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4.00**	**J**	4.95	0.391	mg/Kg			01/03/23 09:35	1

Client Sample ID: S-1

Lab Sample ID: 890-3720-2
Matrix: Solid
Date Collected: 12/15/22 10:15
Date Received: 12/28/22 12:24
Sample Depth: 2'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg		12/28/22 13:43	12/29/22 17:41	1
Toluene	<0.000454	U	0.00199	0.000454	mg/Kg		12/28/22 13:43	12/29/22 17:41	1
Ethylbenzene	<0.000563	U	0.00199	0.000563	mg/Kg		12/28/22 13:43	12/29/22 17:41	1
m-Xylene & p-Xylene	<0.00101	U	0.00398	0.00101	mg/Kg		12/28/22 13:43	12/29/22 17:41	1
o-Xylene	<0.000343	U	0.00199	0.000343	mg/Kg		12/28/22 13:43	12/29/22 17:41	1
Xylenes, Total	<0.00101	U	0.00398	0.00101	mg/Kg		12/28/22 13:43	12/29/22 17:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*12/28/22 13:43*	*12/29/22 17:41*	*1*

Client Sample Results

Client: Talon/LPE
Project/Site: Matador Cholla 1 Fed 01

Job ID: 890-3720-1
SDG: Eddy County NM

Client Sample ID: S-1

Date Collected: 12/15/22 10:15
Date Received: 12/28/22 12:24
Sample Depth: 2'

Lab Sample ID: 890-3720-2

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*78*		*70 - 130*	*12/28/22 13:43*	*12/29/22 17:41*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00398	0.00101	mg/Kg			12/30/22 13:18	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**17.6**	**J**	49.9	15.0	mg/Kg			12/30/22 12:37	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	49.9	15.0	mg/Kg		12/29/22 16:03	12/29/22 23:07	1
Diesel Range Organics (Over C10-C28)	**17.6**	**J**	49.9	15.0	mg/Kg		12/29/22 16:03	12/29/22 23:07	1
OII Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		12/29/22 16:03	12/29/22 23:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*109*		*70 - 130*	*12/29/22 16:03*	*12/29/22 23:07*	*1*
o-Terphenyl	*139*	*S1+*	*70 - 130*	*12/29/22 16:03*	*12/29/22 23:07*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1.57**	**J**	5.03	0.397	mg/Kg			01/03/23 09:49	1

Client Sample ID: S-1

Date Collected: 12/15/22 10:18
Date Received: 12/28/22 12:24
Sample Depth: 3'

Lab Sample ID: 890-3720-3

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg		12/28/22 13:43	12/29/22 18:01	1
Toluene	<0.000453	U	0.00199	0.000453	mg/Kg		12/28/22 13:43	12/29/22 18:01	1
Ethylbenzene	<0.000562	U	0.00199	0.000562	mg/Kg		12/28/22 13:43	12/29/22 18:01	1
m-Xylene & p-Xylene	<0.00100	U	0.00398	0.00100	mg/Kg		12/28/22 13:43	12/29/22 18:01	1
o-Xylene	<0.000342	U	0.00199	0.000342	mg/Kg		12/28/22 13:43	12/29/22 18:01	1
Xylenes, Total	<0.00100	U	0.00398	0.00100	mg/Kg		12/28/22 13:43	12/29/22 18:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*82*		*70 - 130*	*12/28/22 13:43*	*12/29/22 18:01*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*12/28/22 13:43*	*12/29/22 18:01*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00100	U	0.00398	0.00100	mg/Kg			12/30/22 13:18	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**17.1**	**J**	49.9	15.0	mg/Kg			12/30/22 12:37	1

Eurofins Carlsbad

Client Sample Results

Client: Talon/LPE
Project/Site: Matador Cholla 1 Fed 01

Job ID: 890-3720-1
SDG: Eddy County NM

Client Sample ID: S-1

Date Collected: 12/15/22 10:18
Date Received: 12/28/22 12:24
Sample Depth: 3'

Lab Sample ID: 890-3720-3
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	49.9	15.0	mg/Kg		12/29/22 16:03	12/29/22 23:28	1
Diesel Range Organics (Over C10-C28)	**17.1**	**J**	49.9	15.0	mg/Kg		12/29/22 16:03	12/29/22 23:28	1
OII Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		12/29/22 16:03	12/29/22 23:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*70 - 130*	*12/29/22 16:03*	*12/29/22 23:28*	*1*
o-Terphenyl	*115*		*70 - 130*	*12/29/22 16:03*	*12/29/22 23:28*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2.99**	**J**	5.01	0.396	mg/Kg			01/03/23 09:54	1

Client Sample ID: S-1

Date Collected: 12/15/22 10:21
Date Received: 12/28/22 12:24
Sample Depth: 4'

Lab Sample ID: 890-3720-4
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000387	U	0.00201	0.000387	mg/Kg		12/28/22 13:43	12/29/22 18:22	1
Toluene	<0.000459	U	0.00201	0.000459	mg/Kg		12/28/22 13:43	12/29/22 18:22	1
Ethylbenzene	<0.000568	U	0.00201	0.000568	mg/Kg		12/28/22 13:43	12/29/22 18:22	1
m-Xylene & p-Xylene	<0.00102	U	0.00402	0.00102	mg/Kg		12/28/22 13:43	12/29/22 18:22	1
o-Xylene	<0.000346	U	0.00201	0.000346	mg/Kg		12/28/22 13:43	12/29/22 18:22	1
Xylenes, Total	<0.00102	U	0.00402	0.00102	mg/Kg		12/28/22 13:43	12/29/22 18:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*	*12/28/22 13:43*	*12/29/22 18:22*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*12/28/22 13:43*	*12/29/22 18:22*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00402	0.00102	mg/Kg			12/30/22 13:18	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**17.7**	**J**	49.8	14.9	mg/Kg			12/30/22 12:37	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.9	U	49.8	14.9	mg/Kg		12/29/22 16:03	12/29/22 23:48	1
Diesel Range Organics (Over C10-C28)	**17.7**	**J**	49.8	14.9	mg/Kg		12/29/22 16:03	12/29/22 23:48	1
OII Range Organics (Over C28-C36)	<14.9	U	49.8	14.9	mg/Kg		12/29/22 16:03	12/29/22 23:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*12/29/22 16:03*	*12/29/22 23:48*	*1*
o-Terphenyl	*134*	*S1+*	*70 - 130*	*12/29/22 16:03*	*12/29/22 23:48*	*1*

Client Sample Results

Client: Talon/LPE
Project/Site: Matador Cholla 1 Fed 01

Job ID: 890-3720-1
SDG: Eddy County NM

Client Sample ID: S-1

Lab Sample ID: 890-3720-4
Matrix: Solid
Date Collected: 12/15/22 10:21
Date Received: 12/28/22 12:24
Sample Depth: 4'

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1.67**	**J**	5.00	0.395	mg/Kg			01/03/23 09:59	1

Client Sample ID: S-2

Lab Sample ID: 890-3720-5
Matrix: Solid
Date Collected: 12/15/22 10:32
Date Received: 12/28/22 12:24
Sample Depth: 1'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000387	U	0.00201	0.000387	mg/Kg		12/28/22 13:43	12/29/22 18:42	1
Toluene	<0.000458	U	0.00201	0.000458	mg/Kg		12/28/22 13:43	12/29/22 18:42	1
Ethylbenzene	<0.000567	U	0.00201	0.000567	mg/Kg		12/28/22 13:43	12/29/22 18:42	1
m-Xylene & p-Xylene	<0.00101	U	0.00402	0.00101	mg/Kg		12/28/22 13:43	12/29/22 18:42	1
o-Xylene	<0.000345	U	0.00201	0.000345	mg/Kg		12/28/22 13:43	12/29/22 18:42	1
Xylenes, Total	<0.00101	U	0.00402	0.00101	mg/Kg		12/28/22 13:43	12/29/22 18:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*70 - 130*	*12/28/22 13:43*	*12/29/22 18:42*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*12/28/22 13:43*	*12/29/22 18:42*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00402	0.00101	mg/Kg			12/30/22 13:18	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**18.2**	**J**	49.9	15.0	mg/Kg			12/30/22 12:37	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	49.9	15.0	mg/Kg		12/29/22 16:03	12/30/22 00:08	1
Diesel Range Organics (Over C10-C28)	**18.2**	**J**	49.9	15.0	mg/Kg		12/29/22 16:03	12/30/22 00:08	1
OII Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		12/29/22 16:03	12/30/22 00:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*111*		*70 - 130*	*12/29/22 16:03*	*12/30/22 00:08*	*1*
o-Terphenyl	*140*	*S1+*	*70 - 130*	*12/29/22 16:03*	*12/30/22 00:08*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1.64**	**J**	4.96	0.392	mg/Kg			01/03/23 10:03	1

Client Sample Results

Client: Talon/LPE
Project/Site: Matador Cholla 1 Fed 01

Job ID: 890-3720-1
SDG: Eddy County NM

Client Sample ID: S-2

Lab Sample ID: 890-3720-6
Matrix: Solid
Date Collected: 12/15/22 10:38
Date Received: 12/28/22 12:24
Sample Depth: 2'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg		12/28/22 13:43	12/29/22 19:03	1
Toluene	<0.000454	U	0.00199	0.000454	mg/Kg		12/28/22 13:43	12/29/22 19:03	1
Ethylbenzene	<0.000563	U	0.00199	0.000563	mg/Kg		12/28/22 13:43	12/29/22 19:03	1
m-Xylene & p-Xylene	<0.00101	U	0.00398	0.00101	mg/Kg		12/28/22 13:43	12/29/22 19:03	1
o-Xylene	<0.000343	U	0.00199	0.000343	mg/Kg		12/28/22 13:43	12/29/22 19:03	1
Xylenes, Total	<0.00101	U	0.00398	0.00101	mg/Kg		12/28/22 13:43	12/29/22 19:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*12/28/22 13:43*	*12/29/22 19:03*	*1*
1,4-Difluorobenzene (Surr)	*83*		*70 - 130*	*12/28/22 13:43*	*12/29/22 19:03*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00398	0.00101	mg/Kg			12/30/22 13:18	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**18.2**	**J**	50.0	15.0	mg/Kg			12/30/22 12:37	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		12/29/22 16:03	12/30/22 00:29	1
Diesel Range Organics (Over C10-C28)	**18.2**	**J**	50.0	15.0	mg/Kg		12/29/22 16:03	12/30/22 00:29	1
OII Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		12/29/22 16:03	12/30/22 00:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*109*		*70 - 130*	*12/29/22 16:03*	*12/30/22 00:29*	*1*
o-Terphenyl	*136*	*S1+*	*70 - 130*	*12/29/22 16:03*	*12/30/22 00:29*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2.20**	**J**	4.96	0.392	mg/Kg			01/03/23 10:08	1

Client Sample ID: S-2

Lab Sample ID: 890-3720-7
Matrix: Solid
Date Collected: 12/15/22 10:44
Date Received: 12/28/22 12:24
Sample Depth: 3'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg		12/28/22 13:43	12/29/22 19:23	1
Toluene	<0.000453	U	0.00199	0.000453	mg/Kg		12/28/22 13:43	12/29/22 19:23	1
Ethylbenzene	<0.000562	U	0.00199	0.000562	mg/Kg		12/28/22 13:43	12/29/22 19:23	1
m-Xylene & p-Xylene	<0.00100	U	0.00398	0.00100	mg/Kg		12/28/22 13:43	12/29/22 19:23	1
o-Xylene	<0.000342	U	0.00199	0.000342	mg/Kg		12/28/22 13:43	12/29/22 19:23	1
Xylenes, Total	<0.00100	U	0.00398	0.00100	mg/Kg		12/28/22 13:43	12/29/22 19:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*80*		*70 - 130*	*12/28/22 13:43*	*12/29/22 19:23*	*1*

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Client Sample Results

Client: Talon/LPE
Project/Site: Matador Cholla 1 Fed 01

Job ID: 890-3720-1
SDG: Eddy County NM

Client Sample ID: S-2

Date Collected: 12/15/22 10:44
Date Received: 12/28/22 12:24
Sample Depth: 3'

Lab Sample ID: 890-3720-7
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*66*	*S1-*	*70 - 130*	*12/28/22 13:43*	*12/29/22 19:23*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00100	U	0.00398	0.00100	mg/Kg			12/30/22 13:18	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**17.2**	**J**	50.0	15.0	mg/Kg			12/30/22 12:37	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		12/29/22 16:03	12/30/22 00:49	1
Diesel Range Organics (Over C10-C28)	**17.2**	**J**	50.0	15.0	mg/Kg		12/29/22 16:03	12/30/22 00:49	1
OII Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		12/29/22 16:03	12/30/22 00:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*100*		*70 - 130*	*12/29/22 16:03*	*12/30/22 00:49*	*1*
o-Terphenyl	*128*		*70 - 130*	*12/29/22 16:03*	*12/30/22 00:49*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2.42**	**J**	4.95	0.391	mg/Kg			01/03/23 10:13	1

Client Sample ID: S-2

Date Collected: 12/15/22 10:50
Date Received: 12/28/22 12:24
Sample Depth: 4'

Lab Sample ID: 890-3720-8
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		12/28/22 13:43	12/29/22 19:44	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		12/28/22 13:43	12/29/22 19:44	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		12/28/22 13:43	12/29/22 19:44	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		12/28/22 13:43	12/29/22 19:44	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		12/28/22 13:43	12/29/22 19:44	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		12/28/22 13:43	12/29/22 19:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*12/28/22 13:43*	*12/29/22 19:44*	*1*
1,4-Difluorobenzene (Surr)	*72*		*70 - 130*	*12/28/22 13:43*	*12/29/22 19:44*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00400	0.00101	mg/Kg			12/30/22 13:18	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**18.0**	**J**	50.0	15.0	mg/Kg			12/30/22 12:37	1

Client Sample Results

Client: Talon/LPE
Project/Site: Matador Cholla 1 Fed 01

Job ID: 890-3720-1
SDG: Eddy County NM

Client Sample ID: S-2

Lab Sample ID: 890-3720-8
Matrix: Solid
Date Collected: 12/15/22 10:50
Date Received: 12/28/22 12:24
Sample Depth: 4'

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		12/29/22 16:03	12/30/22 01:10	1
Diesel Range Organics (Over C10-C28)	**18.0**	**J**	50.0	15.0	mg/Kg		12/29/22 16:03	12/30/22 01:10	1
OII Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		12/29/22 16:03	12/30/22 01:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*12/29/22 16:03*	*12/30/22 01:10*	*1*
o-Terphenyl	*126*		*70 - 130*	*12/29/22 16:03*	*12/30/22 01:10*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1.95**	**J**	5.05	0.399	mg/Kg			01/03/23 10:27	1

Client Sample ID: S-3

Lab Sample ID: 890-3720-9
Matrix: Solid
Date Collected: 12/15/22 10:53
Date Received: 12/28/22 12:24
Sample Depth: 1'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000387	U	0.00201	0.000387	mg/Kg		12/28/22 13:43	12/29/22 20:04	1
Toluene	<0.000459	U	0.00201	0.000459	mg/Kg		12/28/22 13:43	12/29/22 20:04	1
Ethylbenzene	<0.000568	U	0.00201	0.000568	mg/Kg		12/28/22 13:43	12/29/22 20:04	1
m-Xylene & p-Xylene	<0.00102	U	0.00402	0.00102	mg/Kg		12/28/22 13:43	12/29/22 20:04	1
o-Xylene	<0.000346	U	0.00201	0.000346	mg/Kg		12/28/22 13:43	12/29/22 20:04	1
Xylenes, Total	<0.00102	U	0.00402	0.00102	mg/Kg		12/28/22 13:43	12/29/22 20:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*	*12/28/22 13:43*	*12/29/22 20:04*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*12/28/22 13:43*	*12/29/22 20:04*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00402	0.00102	mg/Kg			12/30/22 13:18	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**17.7**	**J**	50.0	15.0	mg/Kg			12/30/22 12:37	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		12/29/22 16:03	12/30/22 01:30	1
Diesel Range Organics (Over C10-C28)	**17.7**	**J**	50.0	15.0	mg/Kg		12/29/22 16:03	12/30/22 01:30	1
OII Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		12/29/22 16:03	12/30/22 01:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*107*		*70 - 130*	*12/29/22 16:03*	*12/30/22 01:30*	*1*
o-Terphenyl	*132*	*S1+*	*70 - 130*	*12/29/22 16:03*	*12/30/22 01:30*	*1*

Client Sample Results

Client: Talon/LPE
Project/Site: Matador Cholla 1 Fed 01

Job ID: 890-3720-1
SDG: Eddy County NM

Client Sample ID: S-3

Lab Sample ID: 890-3720-9
Matrix: Solid
Date Collected: 12/15/22 10:53
Date Received: 12/28/22 12:24
Sample Depth: 1'

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4.87**	**J**	5.03	0.397	mg/Kg			01/03/23 10:32	1

Client Sample ID: S-3

Lab Sample ID: 890-3720-10
Matrix: Solid
Date Collected: 12/15/22 10:55
Date Received: 12/28/22 12:24
Sample Depth: 2'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000386	U	0.00200	0.000386	mg/Kg		12/28/22 13:43	12/29/22 20:25	1
Toluene	<0.000457	U	0.00200	0.000457	mg/Kg		12/28/22 13:43	12/29/22 20:25	1
Ethylbenzene	<0.000566	U	0.00200	0.000566	mg/Kg		12/28/22 13:43	12/29/22 20:25	1
m-Xylene & p-Xylene	<0.00101	U	0.00401	0.00101	mg/Kg		12/28/22 13:43	12/29/22 20:25	1
o-Xylene	<0.000345	U	0.00200	0.000345	mg/Kg		12/28/22 13:43	12/29/22 20:25	1
Xylenes, Total	<0.00101	U	0.00401	0.00101	mg/Kg		12/28/22 13:43	12/29/22 20:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*71*		*70 - 130*	*12/28/22 13:43*	*12/29/22 20:25*	*1*
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*	*12/28/22 13:43*	*12/29/22 20:25*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00401	0.00101	mg/Kg			12/30/22 13:18	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**17.2**	**J**	50.0	15.0	mg/Kg			12/30/22 12:37	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		12/29/22 16:03	12/30/22 01:51	1
Diesel Range Organics (Over C10-C28)	**17.2**	**J**	50.0	15.0	mg/Kg		12/29/22 16:03	12/30/22 01:51	1
OII Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		12/29/22 16:03	12/30/22 01:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*70 - 130*	*12/29/22 16:03*	*12/30/22 01:51*	*1*
o-Terphenyl	*114*		*70 - 130*	*12/29/22 16:03*	*12/30/22 01:51*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**16.1**		5.01	0.396	mg/Kg			01/03/23 10:46	1

Client Sample Results

Client: Talon/LPE
Project/Site: Matador Cholla 1 Fed 01

Job ID: 890-3720-1
SDG: Eddy County NM

Client Sample ID: S-3

Lab Sample ID: 890-3720-11
Matrix: Solid
Date Collected: 12/15/22 10:57
Date Received: 12/28/22 12:24
Sample Depth: 3

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000381	U	0.00198	0.000381	mg/Kg		12/28/22 13:43	12/29/22 20:45	1
Toluene	<0.000451	U	0.00198	0.000451	mg/Kg		12/28/22 13:43	12/29/22 20:45	1
Ethylbenzene	<0.000559	U	0.00198	0.000559	mg/Kg		12/28/22 13:43	12/29/22 20:45	1
m-Xylene & p-Xylene	<0.00100	U	0.00396	0.00100	mg/Kg		12/28/22 13:43	12/29/22 20:45	1
o-Xylene	<0.000341	U	0.00198	0.000341	mg/Kg		12/28/22 13:43	12/29/22 20:45	1
Xylenes, Total	<0.00100	U	0.00396	0.00100	mg/Kg		12/28/22 13:43	12/29/22 20:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*	*12/28/22 13:43*	*12/29/22 20:45*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*12/28/22 13:43*	*12/29/22 20:45*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00100	U	0.00396	0.00100	mg/Kg			12/30/22 13:18	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**17.2**	**J**	50.0	15.0	mg/Kg			12/30/22 12:37	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		12/29/22 16:03	12/30/22 02:31	1
Diesel Range Organics (Over C10-C28)	**17.2**	**J**	50.0	15.0	mg/Kg		12/29/22 16:03	12/30/22 02:31	1
OII Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		12/29/22 16:03	12/30/22 02:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*12/29/22 16:03*	*12/30/22 02:31*	*1*
o-Terphenyl	*123*		*70 - 130*	*12/29/22 16:03*	*12/30/22 02:31*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**44.1**		5.01	0.396	mg/Kg			01/03/23 10:51	1

Client Sample ID: S-3

Lab Sample ID: 890-3720-12
Matrix: Solid
Date Collected: 12/15/22 11:01
Date Received: 12/28/22 12:24
Sample Depth: 4'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg		12/28/22 14:29	12/29/22 20:31	1
Toluene	<0.000453	U	0.00199	0.000453	mg/Kg		12/28/22 14:29	12/29/22 20:31	1
Ethylbenzene	<0.000562	U	0.00199	0.000562	mg/Kg		12/28/22 14:29	12/29/22 20:31	1
m-Xylene & p-Xylene	<0.00100	U	0.00398	0.00100	mg/Kg		12/28/22 14:29	12/29/22 20:31	1
o-Xylene	<0.000342	U	0.00199	0.000342	mg/Kg		12/28/22 14:29	12/29/22 20:31	1
Xylenes, Total	<0.00100	U	0.00398	0.00100	mg/Kg		12/28/22 14:29	12/29/22 20:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*12/28/22 14:29*	*12/29/22 20:31*	*1*

Client Sample Results

Client: Talon/LPE
Project/Site: Matador Cholla 1 Fed 01

Job ID: 890-3720-1
SDG: Eddy County NM

Client Sample ID: S-3

Lab Sample ID: 890-3720-12
Matrix: Solid
Date Collected: 12/15/22 11:01
Date Received: 12/28/22 12:24
Sample Depth: 4'

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*12/28/22 14:29*	*12/29/22 20:31*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00100	U	0.00398	0.00100	mg/Kg			12/30/22 13:19	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**17.3**	**J**	50.0	15.0	mg/Kg			12/30/22 12:37	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		12/29/22 16:03	12/30/22 02:52	1
Diesel Range Organics (Over C10-C28)	**17.3**	**J**	50.0	15.0	mg/Kg		12/29/22 16:03	12/30/22 02:52	1
OII Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		12/29/22 16:03	12/30/22 02:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*12/29/22 16:03*	*12/30/22 02:52*	*1*
o-Terphenyl	*133*	*S1+*	*70 - 130*	*12/29/22 16:03*	*12/30/22 02:52*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**39.8**		5.02	0.397	mg/Kg			01/03/23 10:55	1

Client Sample ID: S-4

Lab Sample ID: 890-3720-13
Matrix: Solid
Date Collected: 12/15/22 11:07
Date Received: 12/28/22 12:24
Sample Depth: 1'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000386	U	0.00200	0.000386	mg/Kg		12/28/22 14:29	12/29/22 20:52	1
Toluene	<0.000457	U	0.00200	0.000457	mg/Kg		12/28/22 14:29	12/29/22 20:52	1
Ethylbenzene	<0.000566	U	0.00200	0.000566	mg/Kg		12/28/22 14:29	12/29/22 20:52	1
m-Xylene & p-Xylene	<0.00101	U	0.00401	0.00101	mg/Kg		12/28/22 14:29	12/29/22 20:52	1
o-Xylene	<0.000345	U	0.00200	0.000345	mg/Kg		12/28/22 14:29	12/29/22 20:52	1
Xylenes, Total	<0.00101	U	0.00401	0.00101	mg/Kg		12/28/22 14:29	12/29/22 20:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*12/28/22 14:29*	*12/29/22 20:52*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*12/28/22 14:29*	*12/29/22 20:52*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00401	0.00101	mg/Kg			12/30/22 13:19	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**19.7**	**J**	49.9	15.0	mg/Kg			12/30/22 12:37	1

Eurofins Carlsbad

Client Sample Results

Client: Talon/LPE
Project/Site: Matador Cholla 1 Fed 01

Job ID: 890-3720-1
SDG: Eddy County NM

Client Sample ID: S-4

Date Collected: 12/15/22 11:07
Date Received: 12/28/22 12:24
Sample Depth: 1'

Lab Sample ID: 890-3720-13
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	49.9	15.0	mg/Kg		12/29/22 16:03	12/30/22 03:13	1
Diesel Range Organics (Over C10-C28)	**19.7**	**J**	49.9	15.0	mg/Kg		12/29/22 16:03	12/30/22 03:13	1
OII Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		12/29/22 16:03	12/30/22 03:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*70 - 130*	*12/29/22 16:03*	*12/30/22 03:13*	*1*
o-Terphenyl	*128*		*70 - 130*	*12/29/22 16:03*	*12/30/22 03:13*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7.29**		5.00	0.395	mg/Kg			01/03/23 11:00	1

Client Sample ID: S-4

Date Collected: 12/15/22 11:11
Date Received: 12/28/22 12:24
Sample Depth: 2'

Lab Sample ID: 890-3720-14
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000381	U	0.00198	0.000381	mg/Kg		12/28/22 14:29	12/29/22 21:12	1
Toluene	<0.000451	U	0.00198	0.000451	mg/Kg		12/28/22 14:29	12/29/22 21:12	1
Ethylbenzene	<0.000559	U	0.00198	0.000559	mg/Kg		12/28/22 14:29	12/29/22 21:12	1
m-Xylene & p-Xylene	<0.00100	U	0.00396	0.00100	mg/Kg		12/28/22 14:29	12/29/22 21:12	1
o-Xylene	<0.000341	U	0.00198	0.000341	mg/Kg		12/28/22 14:29	12/29/22 21:12	1
Xylenes, Total	<0.00100	U	0.00396	0.00100	mg/Kg		12/28/22 14:29	12/29/22 21:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*12/28/22 14:29*	*12/29/22 21:12*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*12/28/22 14:29*	*12/29/22 21:12*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00100	U	0.00396	0.00100	mg/Kg			12/30/22 13:19	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**17.5**	**J**	50.0	15.0	mg/Kg			12/30/22 12:37	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		12/29/22 16:03	12/30/22 03:33	1
Diesel Range Organics (Over C10-C28)	**17.5**	**J**	50.0	15.0	mg/Kg		12/29/22 16:03	12/30/22 03:33	1
OII Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		12/29/22 16:03	12/30/22 03:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*100*		*70 - 130*	*12/29/22 16:03*	*12/30/22 03:33*	*1*
o-Terphenyl	*129*		*70 - 130*	*12/29/22 16:03*	*12/30/22 03:33*	*1*

Client Sample Results

Client: Talon/LPE
Project/Site: Matador Cholla 1 Fed 01

Job ID: 890-3720-1
SDG: Eddy County NM

Client Sample ID: S-4

Lab Sample ID: 890-3720-14
Matrix: Solid
Date Collected: 12/15/22 11:11
Date Received: 12/28/22 12:24
Sample Depth: 2'

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**9.48**		4.97	0.393	mg/Kg			01/03/23 11:05	1

Client Sample ID: S-4

Lab Sample ID: 890-3720-15
Matrix: Solid
Date Collected: 12/15/22 11:18
Date Received: 12/28/22 12:24
Sample Depth: 3'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg		12/28/22 14:29	12/29/22 21:32	1
Toluene	<0.000454	U	0.00199	0.000454	mg/Kg		12/28/22 14:29	12/29/22 21:32	1
Ethylbenzene	<0.000563	U	0.00199	0.000563	mg/Kg		12/28/22 14:29	12/29/22 21:32	1
m-Xylene & p-Xylene	<0.00101	U	0.00398	0.00101	mg/Kg		12/28/22 14:29	12/29/22 21:32	1
o-Xylene	<0.000343	U	0.00199	0.000343	mg/Kg		12/28/22 14:29	12/29/22 21:32	1
Xylenes, Total	<0.00101	U	0.00398	0.00101	mg/Kg		12/28/22 14:29	12/29/22 21:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*12/28/22 14:29*	*12/29/22 21:32*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*12/28/22 14:29*	*12/29/22 21:32*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00398	0.00101	mg/Kg			12/30/22 13:19	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**16.9**	**J**	49.9	15.0	mg/Kg			12/30/22 12:37	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	49.9	15.0	mg/Kg		12/29/22 16:03	12/30/22 03:53	1
Diesel Range Organics (Over C10-C28)	**16.9**	**J**	49.9	15.0	mg/Kg		12/29/22 16:03	12/30/22 03:53	1
OII Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		12/29/22 16:03	12/30/22 03:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*12/29/22 16:03*	*12/30/22 03:53*	*1*
o-Terphenyl	*136*	*S1+*	*70 - 130*	*12/29/22 16:03*	*12/30/22 03:53*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**14.5**		4.99	0.394	mg/Kg			01/03/23 11:09	1

Client Sample Results

Client: Talon/LPE
Project/Site: Matador Cholla 1 Fed 01

Job ID: 890-3720-1
SDG: Eddy County NM

Client Sample ID: S-4

Date Collected: 12/15/22 11:24
Date Received: 12/28/22 12:24
Sample Depth: 4'

Lab Sample ID: 890-3720-16

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg		12/28/22 14:29	12/29/22 21:53	1
Toluene	<0.000453	U	0.00199	0.000453	mg/Kg		12/28/22 14:29	12/29/22 21:53	1
Ethylbenzene	<0.000562	U	0.00199	0.000562	mg/Kg		12/28/22 14:29	12/29/22 21:53	1
m-Xylene & p-Xylene	<0.00100	U	0.00398	0.00100	mg/Kg		12/28/22 14:29	12/29/22 21:53	1
o-Xylene	<0.000342	U	0.00199	0.000342	mg/Kg		12/28/22 14:29	12/29/22 21:53	1
Xylenes, Total	<0.00100	U	0.00398	0.00100	mg/Kg		12/28/22 14:29	12/29/22 21:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*12/28/22 14:29*	*12/29/22 21:53*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*12/28/22 14:29*	*12/29/22 21:53*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00100	U	0.00398	0.00100	mg/Kg			12/30/22 13:19	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**16.5**	**J**	50.0	15.0	mg/Kg			12/30/22 12:37	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		12/29/22 16:03	12/30/22 04:14	1
Diesel Range Organics (Over C10-C28)	**16.5**	**J**	50.0	15.0	mg/Kg		12/29/22 16:03	12/30/22 04:14	1
OII Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		12/29/22 16:03	12/30/22 04:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*111*		*70 - 130*	*12/29/22 16:03*	*12/30/22 04:14*	*1*
o-Terphenyl	*135*	*S1+*	*70 - 130*	*12/29/22 16:03*	*12/30/22 04:14*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**166**		5.03	0.397	mg/Kg			01/03/23 11:14	1

Surrogate Summary

Client: Talon/LPE
Project/Site: Matador Cholla 1 Fed 01

Job ID: 890-3720-1
SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)										
890-3720-1	S-1	88	76										
890-3720-2	S-1	105	78										
890-3720-3	S-1	82	85										
890-3720-4	S-1	86	88										
890-3720-5	S-2	85	84										
890-3720-6	S-2	87	83										
890-3720-7	S-2	80	66 S1-										
890-3720-8	S-2	109	72										
890-3720-9	S-3	86	85										
890-3720-10	S-3	71	81										
890-3720-11	S-3	86	84										
890-3720-12	S-3	105	110										
890-3720-13	S-4	104	105										
890-3720-14	S-4	108	105										
890-3720-15	S-4	103	109										
890-3720-16	S-4	105	110										
LCS 880-42727/1-A	Lab Control Sample	94	108										
LCS 880-42802/1-A	Lab Control Sample	95	95										
LCSD 880-42727/2-A	Lab Control Sample Dup	100	111										
LCSD 880-42802/2-A	Lab Control Sample Dup	103	89										
MB 880-42727/5-A	Method Blank	93	105										
MB 880-42802/5-A	Method Blank	74	86										

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)										
890-3720-1	S-1	115	143 S1+										
890-3720-1 MS	S-1	102	110										
890-3720-1 MSD	S-1	102	110										
890-3720-2	S-1	109	139 S1+										
890-3720-3	S-1	91	115										
890-3720-4	S-1	104	134 S1+										
890-3720-5	S-2	111	140 S1+										
890-3720-6	S-2	109	136 S1+										
890-3720-7	S-2	100	128										
890-3720-8	S-2	99	126										
890-3720-9	S-3	107	132 S1+										
890-3720-10	S-3	91	114										
890-3720-11	S-3	101	123										
890-3720-12	S-3	104	133 S1+										
890-3720-13	S-4	103	128										
890-3720-14	S-4	100	129										
890-3720-15	S-4	106	136 S1+										

Surrogate Summary

Client: Talon/LPE
Job ID: 890-3720-1
Project/Site: Matador Cholla 1 Fed 01
SDG: Eddy County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)									
		1CO1	OTPH1								
Lab Sample ID	Client Sample ID	(70-130)	(70-130)								
890-3720-16	S-4	111	135 S1+								
LCS 880-42911/2-A	Lab Control Sample	105	130								
LCSD 880-42911/3-A	Lab Control Sample Dup	109	138 S1+								
MB 880-42911/1-A	Method Blank	104	127								

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Talon/LPE
Project/Site: Matador Cholla 1 Fed 01

Job ID: 890-3720-1
SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-42727/5-A
Matrix: Solid
Analysis Batch: 42843

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 42727

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		12/28/22 14:29	12/29/22 13:27	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		12/28/22 14:29	12/29/22 13:27	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		12/28/22 14:29	12/29/22 13:27	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		12/28/22 14:29	12/29/22 13:27	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		12/28/22 14:29	12/29/22 13:27	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		12/28/22 14:29	12/29/22 13:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*12/28/22 14:29*	*12/29/22 13:27*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*12/28/22 14:29*	*12/29/22 13:27*	*1*

Lab Sample ID: LCS 880-42727/1-A
Matrix: Solid
Analysis Batch: 42843

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 42727

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1034		mg/Kg		103	70 - 130
Toluene	0.100	0.09492		mg/Kg		95	70 - 130
Ethylbenzene	0.100	0.09306		mg/Kg		93	70 - 130
m-Xylene & p-Xylene	0.200	0.1883		mg/Kg		94	70 - 130
o-Xylene	0.100	0.09014		mg/Kg		90	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*

Lab Sample ID: LCSD 880-42727/2-A
Matrix: Solid
Analysis Batch: 42843

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 42727

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1069		mg/Kg		107	70 - 130	3	35
Toluene	0.100	0.09845		mg/Kg		98	70 - 130	4	35
Ethylbenzene	0.100	0.09537		mg/Kg		95	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.1977		mg/Kg		99	70 - 130	5	35
o-Xylene	0.100	0.09399		mg/Kg		94	70 - 130	4	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*

Lab Sample ID: MB 880-42802/5-A
Matrix: Solid
Analysis Batch: 42840

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 42802

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		12/28/22 13:43	12/29/22 12:54	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		12/28/22 13:43	12/29/22 12:54	1

QC Sample Results

Client: Talon/LPE
Project/Site: Matador Cholla 1 Fed 01

Job ID: 890-3720-1
SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-42802/5-A
Matrix: Solid
Analysis Batch: 42840

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 42802

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		12/28/22 13:43	12/29/22 12:54	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		12/28/22 13:43	12/29/22 12:54	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		12/28/22 13:43	12/29/22 12:54	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		12/28/22 13:43	12/29/22 12:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*74*		*70 - 130*	*12/28/22 13:43*	*12/29/22 12:54*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*12/28/22 13:43*	*12/29/22 12:54*	*1*

Lab Sample ID: LCS 880-42802/1-A
Matrix: Solid
Analysis Batch: 42840

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 42802

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1148		mg/Kg		115	70 - 130
Toluene	0.100	0.1011		mg/Kg		101	70 - 130
Ethylbenzene	0.100	0.08964		mg/Kg		90	70 - 130
m-Xylene & p-Xylene	0.200	0.1870		mg/Kg		94	70 - 130
o-Xylene	0.100	0.09463		mg/Kg		95	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*

Lab Sample ID: LCSD 880-42802/2-A
Matrix: Solid
Analysis Batch: 42840

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 42802

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1000		mg/Kg		100	70 - 130	14	35
Toluene	0.100	0.09828		mg/Kg		98	70 - 130	3	35
Ethylbenzene	0.100	0.09333		mg/Kg		93	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.1986		mg/Kg		99	70 - 130	6	35
o-Xylene	0.100	0.09979		mg/Kg		100	70 - 130	5	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-42911/1-A
Matrix: Solid
Analysis Batch: 42842

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 42911

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		12/29/22 16:03	12/29/22 21:02	1

QC Sample Results

Client: Talon/LPE
Project/Site: Matador Cholla 1 Fed 01

Job ID: 890-3720-1
SDG: Eddy County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-42911/1-A
Matrix: Solid
Analysis Batch: 42842

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 42911

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		12/29/22 16:03	12/29/22 21:02	1
OII Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		12/29/22 16:03	12/29/22 21:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*12/29/22 16:03*	*12/29/22 21:02*	*1*
o-Terphenyl	*127*		*70 - 130*	*12/29/22 16:03*	*12/29/22 21:02*	*1*

Lab Sample ID: LCS 880-42911/2-A
Matrix: Solid
Analysis Batch: 42842

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 42911

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	841.4		mg/Kg		84	70 - 130
Diesel Range Organics (Over C10-C28)	1000	985.0		mg/Kg		99	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*105*		*70 - 130*
o-Terphenyl	*130*		*70 - 130*

Lab Sample ID: LCSD 880-42911/3-A
Matrix: Solid
Analysis Batch: 42842

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 42911

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	845.5		mg/Kg		85	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	1000	1036		mg/Kg		104	70 - 130	5	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*109*		*70 - 130*
o-Terphenyl	*138*	*S1+*	*70 - 130*

Lab Sample ID: 890-3720-1 MS
Matrix: Solid
Analysis Batch: 42842

Client Sample ID: S-1
Prep Type: Total/NA
Prep Batch: 42911

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	999	1120		mg/Kg		112	70 - 130
Diesel Range Organics (Over C10-C28)	18.6	J	999	1128		mg/Kg		111	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*102*		*70 - 130*
o-Terphenyl	*110*		*70 - 130*

QC Sample Results

Client: Talon/LPE
Project/Site: Matador Cholla 1 Fed 01

Job ID: 890-3720-1
SDG: Eddy County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-3720-1 MSD — **Client Sample ID: S-1**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 42842 — **Prep Batch: 42911**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	999	1112		mg/Kg		111	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	18.6	J	999	1114		mg/Kg		110	70 - 130	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*102*		*70 - 130*
o-Terphenyl	*110*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-42890/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 42997

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.395	U	5.00	0.395	mg/Kg			01/03/23 08:53	1

Lab Sample ID: LCS 880-42890/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 42997

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	255.1		mg/Kg		102	90 - 110

Lab Sample ID: LCSD 880-42890/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 42997

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	255.2		mg/Kg		102	90 - 110	0	20

Lab Sample ID: 890-3720-7 MS — **Client Sample ID: S-2**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 42997

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	2.42	J	248	268.9		mg/Kg		108	90 - 110

Lab Sample ID: 890-3720-7 MSD — **Client Sample ID: S-2**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 42997

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	2.42	J	248	269.2		mg/Kg		108	90 - 110	0	20

QC Association Summary

Client: Talon/LPE
Project/Site: Matador Cholla 1 Fed 01

Job ID: 890-3720-1
SDG: Eddy County NM

GC VOA

Prep Batch: 42727

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3720-12	S-3	Total/NA	Solid	5035	
890-3720-13	S-4	Total/NA	Solid	5035	
890-3720-14	S-4	Total/NA	Solid	5035	
890-3720-15	S-4	Total/NA	Solid	5035	
890-3720-16	S-4	Total/NA	Solid	5035	
MB 880-42727/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-42727/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-42727/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 42802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3720-1	S-1	Total/NA	Solid	5035	
890-3720-2	S-1	Total/NA	Solid	5035	
890-3720-3	S-1	Total/NA	Solid	5035	
890-3720-4	S-1	Total/NA	Solid	5035	
890-3720-5	S-2	Total/NA	Solid	5035	
890-3720-6	S-2	Total/NA	Solid	5035	
890-3720-7	S-2	Total/NA	Solid	5035	
890-3720-8	S-2	Total/NA	Solid	5035	
890-3720-9	S-3	Total/NA	Solid	5035	
890-3720-10	S-3	Total/NA	Solid	5035	
890-3720-11	S-3	Total/NA	Solid	5035	
MB 880-42802/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-42802/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-42802/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 42840

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3720-1	S-1	Total/NA	Solid	8021B	42802
890-3720-2	S-1	Total/NA	Solid	8021B	42802
890-3720-3	S-1	Total/NA	Solid	8021B	42802
890-3720-4	S-1	Total/NA	Solid	8021B	42802
890-3720-5	S-2	Total/NA	Solid	8021B	42802
890-3720-6	S-2	Total/NA	Solid	8021B	42802
890-3720-7	S-2	Total/NA	Solid	8021B	42802
890-3720-8	S-2	Total/NA	Solid	8021B	42802
890-3720-9	S-3	Total/NA	Solid	8021B	42802
890-3720-10	S-3	Total/NA	Solid	8021B	42802
890-3720-11	S-3	Total/NA	Solid	8021B	42802
MB 880-42802/5-A	Method Blank	Total/NA	Solid	8021B	42802
LCS 880-42802/1-A	Lab Control Sample	Total/NA	Solid	8021B	42802
LCSD 880-42802/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	42802

Analysis Batch: 42843

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3720-12	S-3	Total/NA	Solid	8021B	42727
890-3720-13	S-4	Total/NA	Solid	8021B	42727
890-3720-14	S-4	Total/NA	Solid	8021B	42727
890-3720-15	S-4	Total/NA	Solid	8021B	42727
890-3720-16	S-4	Total/NA	Solid	8021B	42727
MB 880-42727/5-A	Method Blank	Total/NA	Solid	8021B	42727

QC Association Summary

Client: Talon/LPE
Project/Site: Matador Cholla 1 Fed 01

Job ID: 890-3720-1
SDG: Eddy County NM

GC VOA (Continued)

Analysis Batch: 42843 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-42727/1-A	Lab Control Sample	Total/NA	Solid	8021B	42727
LCSD 880-42727/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	42727

Analysis Batch: 42918

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3720-1	S-1	Total/NA	Solid	Total BTEX	
890-3720-2	S-1	Total/NA	Solid	Total BTEX	
890-3720-3	S-1	Total/NA	Solid	Total BTEX	
890-3720-4	S-1	Total/NA	Solid	Total BTEX	
890-3720-5	S-2	Total/NA	Solid	Total BTEX	
890-3720-6	S-2	Total/NA	Solid	Total BTEX	
890-3720-7	S-2	Total/NA	Solid	Total BTEX	
890-3720-8	S-2	Total/NA	Solid	Total BTEX	
890-3720-9	S-3	Total/NA	Solid	Total BTEX	
890-3720-10	S-3	Total/NA	Solid	Total BTEX	
890-3720-11	S-3	Total/NA	Solid	Total BTEX	
890-3720-12	S-3	Total/NA	Solid	Total BTEX	
890-3720-13	S-4	Total/NA	Solid	Total BTEX	
890-3720-14	S-4	Total/NA	Solid	Total BTEX	
890-3720-15	S-4	Total/NA	Solid	Total BTEX	
890-3720-16	S-4	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 42842

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3720-1	S-1	Total/NA	Solid	8015B NM	42911
890-3720-2	S-1	Total/NA	Solid	8015B NM	42911
890-3720-3	S-1	Total/NA	Solid	8015B NM	42911
890-3720-4	S-1	Total/NA	Solid	8015B NM	42911
890-3720-5	S-2	Total/NA	Solid	8015B NM	42911
890-3720-6	S-2	Total/NA	Solid	8015B NM	42911
890-3720-7	S-2	Total/NA	Solid	8015B NM	42911
890-3720-8	S-2	Total/NA	Solid	8015B NM	42911
890-3720-9	S-3	Total/NA	Solid	8015B NM	42911
890-3720-10	S-3	Total/NA	Solid	8015B NM	42911
890-3720-11	S-3	Total/NA	Solid	8015B NM	42911
890-3720-12	S-3	Total/NA	Solid	8015B NM	42911
890-3720-13	S-4	Total/NA	Solid	8015B NM	42911
890-3720-14	S-4	Total/NA	Solid	8015B NM	42911
890-3720-15	S-4	Total/NA	Solid	8015B NM	42911
890-3720-16	S-4	Total/NA	Solid	8015B NM	42911
MB 880-42911/1-A	Method Blank	Total/NA	Solid	8015B NM	42911
LCS 880-42911/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	42911
LCSD 880-42911/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	42911
890-3720-1 MS	S-1	Total/NA	Solid	8015B NM	42911
890-3720-1 MSD	S-1	Total/NA	Solid	8015B NM	42911

Prep Batch: 42911

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3720-1	S-1	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Talon/LPE
Project/Site: Matador Cholla 1 Fed 01

Job ID: 890-3720-1
SDG: Eddy County NM

GC Semi VOA (Continued)

Prep Batch: 42911 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3720-2	S-1	Total/NA	Solid	8015NM Prep	
890-3720-3	S-1	Total/NA	Solid	8015NM Prep	
890-3720-4	S-1	Total/NA	Solid	8015NM Prep	
890-3720-5	S-2	Total/NA	Solid	8015NM Prep	
890-3720-6	S-2	Total/NA	Solid	8015NM Prep	
890-3720-7	S-2	Total/NA	Solid	8015NM Prep	
890-3720-8	S-2	Total/NA	Solid	8015NM Prep	
890-3720-9	S-3	Total/NA	Solid	8015NM Prep	
890-3720-10	S-3	Total/NA	Solid	8015NM Prep	
890-3720-11	S-3	Total/NA	Solid	8015NM Prep	
890-3720-12	S-3	Total/NA	Solid	8015NM Prep	
890-3720-13	S-4	Total/NA	Solid	8015NM Prep	
890-3720-14	S-4	Total/NA	Solid	8015NM Prep	
890-3720-15	S-4	Total/NA	Solid	8015NM Prep	
890-3720-16	S-4	Total/NA	Solid	8015NM Prep	
MB 880-42911/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-42911/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-42911/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3720-1 MS	S-1	Total/NA	Solid	8015NM Prep	
890-3720-1 MSD	S-1	Total/NA	Solid	8015NM Prep	

Analysis Batch: 42952

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3720-1	S-1	Total/NA	Solid	8015 NM	
890-3720-2	S-1	Total/NA	Solid	8015 NM	
890-3720-3	S-1	Total/NA	Solid	8015 NM	
890-3720-4	S-1	Total/NA	Solid	8015 NM	
890-3720-5	S-2	Total/NA	Solid	8015 NM	
890-3720-6	S-2	Total/NA	Solid	8015 NM	
890-3720-7	S-2	Total/NA	Solid	8015 NM	
890-3720-8	S-2	Total/NA	Solid	8015 NM	
890-3720-9	S-3	Total/NA	Solid	8015 NM	
890-3720-10	S-3	Total/NA	Solid	8015 NM	
890-3720-11	S-3	Total/NA	Solid	8015 NM	
890-3720-12	S-3	Total/NA	Solid	8015 NM	
890-3720-13	S-4	Total/NA	Solid	8015 NM	
890-3720-14	S-4	Total/NA	Solid	8015 NM	
890-3720-15	S-4	Total/NA	Solid	8015 NM	
890-3720-16	S-4	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 42890

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3720-1	S-1	Soluble	Solid	DI Leach	
890-3720-2	S-1	Soluble	Solid	DI Leach	
890-3720-3	S-1	Soluble	Solid	DI Leach	
890-3720-4	S-1	Soluble	Solid	DI Leach	
890-3720-5	S-2	Soluble	Solid	DI Leach	
890-3720-6	S-2	Soluble	Solid	DI Leach	
890-3720-7	S-2	Soluble	Solid	DI Leach	

QC Association Summary

Client: Talon/LPE
Project/Site: Matador Cholla 1 Fed 01

Job ID: 890-3720-1
SDG: Eddy County NM

HPLC/IC (Continued)

Leach Batch: 42890 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3720-8	S-2	Soluble	Solid	DI Leach	
890-3720-9	S-3	Soluble	Solid	DI Leach	
890-3720-10	S-3	Soluble	Solid	DI Leach	
890-3720-11	S-3	Soluble	Solid	DI Leach	
890-3720-12	S-3	Soluble	Solid	DI Leach	
890-3720-13	S-4	Soluble	Solid	DI Leach	
890-3720-14	S-4	Soluble	Solid	DI Leach	
890-3720-15	S-4	Soluble	Solid	DI Leach	
890-3720-16	S-4	Soluble	Solid	DI Leach	
MB 880-42890/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-42890/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-42890/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-3720-7 MS	S-2	Soluble	Solid	DI Leach	
890-3720-7 MSD	S-2	Soluble	Solid	DI Leach	

Analysis Batch: 42997

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3720-1	S-1	Soluble	Solid	300.0	42890
890-3720-2	S-1	Soluble	Solid	300.0	42890
890-3720-3	S-1	Soluble	Solid	300.0	42890
890-3720-4	S-1	Soluble	Solid	300.0	42890
890-3720-5	S-2	Soluble	Solid	300.0	42890
890-3720-6	S-2	Soluble	Solid	300.0	42890
890-3720-7	S-2	Soluble	Solid	300.0	42890
890-3720-8	S-2	Soluble	Solid	300.0	42890
890-3720-9	S-3	Soluble	Solid	300.0	42890
890-3720-10	S-3	Soluble	Solid	300.0	42890
890-3720-11	S-3	Soluble	Solid	300.0	42890
890-3720-12	S-3	Soluble	Solid	300.0	42890
890-3720-13	S-4	Soluble	Solid	300.0	42890
890-3720-14	S-4	Soluble	Solid	300.0	42890
890-3720-15	S-4	Soluble	Solid	300.0	42890
890-3720-16	S-4	Soluble	Solid	300.0	42890
MB 880-42890/1-A	Method Blank	Soluble	Solid	300.0	42890
LCS 880-42890/2-A	Lab Control Sample	Soluble	Solid	300.0	42890
LCSD 880-42890/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	42890
890-3720-7 MS	S-2	Soluble	Solid	300.0	42890
890-3720-7 MSD	S-2	Soluble	Solid	300.0	42890

Lab Chronicle

Client: Talon/LPE
Project/Site: Matador Cholla 1 Fed 01

Job ID: 890-3720-1
SDG: Eddy County NM

Client Sample ID: S-1
Date Collected: 12/15/22 10:09
Date Received: 12/28/22 12:24

Lab Sample ID: 890-3720-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	42802	12/28/22 13:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42840	12/29/22 16:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42918	12/29/22 16:41	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42952	12/30/22 12:37	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	42911	12/29/22 16:03	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42842	12/29/22 22:05	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	42890	12/29/22 12:46	KS	EET MID
Soluble	Analysis	300.0		1			42997	01/03/23 09:35	CH	EET MID

Client Sample ID: S-1
Date Collected: 12/15/22 10:15
Date Received: 12/28/22 12:24

Lab Sample ID: 890-3720-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	42802	12/28/22 13:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42840	12/29/22 17:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42918	12/30/22 13:18	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42952	12/30/22 12:37	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	42911	12/29/22 16:03	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42842	12/29/22 23:07	AJ	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	42890	12/29/22 12:46	KS	EET MID
Soluble	Analysis	300.0		1			42997	01/03/23 09:49	CH	EET MID

Client Sample ID: S-1
Date Collected: 12/15/22 10:18
Date Received: 12/28/22 12:24

Lab Sample ID: 890-3720-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	42802	12/28/22 13:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42840	12/29/22 18:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42918	12/30/22 13:18	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42952	12/30/22 12:37	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	42911	12/29/22 16:03	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42842	12/29/22 23:28	AJ	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	42890	12/29/22 12:46	KS	EET MID
Soluble	Analysis	300.0		1			42997	01/03/23 09:54	CH	EET MID

Client Sample ID: S-1
Date Collected: 12/15/22 10:21
Date Received: 12/28/22 12:24

Lab Sample ID: 890-3720-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	42802	12/28/22 13:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42840	12/29/22 18:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42918	12/30/22 13:18	AJ	EET MID

Lab Chronicle

Client: Talon/LPE
Project/Site: Matador Cholla 1 Fed 01

Job ID: 890-3720-1
SDG: Eddy County NM

Client Sample ID: S-1

Lab Sample ID: 890-3720-4

Date Collected: 12/15/22 10:21
Date Received: 12/28/22 12:24

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			42952	12/30/22 12:37	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	42911	12/29/22 16:03	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42842	12/29/22 23:48	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	42890	12/29/22 12:46	KS	EET MID
Soluble	Analysis	300.0		1			42997	01/03/23 09:59	CH	EET MID

Client Sample ID: S-2

Lab Sample ID: 890-3720-5

Date Collected: 12/15/22 10:32
Date Received: 12/28/22 12:24

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	42802	12/28/22 13:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42840	12/29/22 18:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42918	12/30/22 13:18	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42952	12/30/22 12:37	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	42911	12/29/22 16:03	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42842	12/30/22 00:08	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	42890	12/29/22 12:46	KS	EET MID
Soluble	Analysis	300.0		1			42997	01/03/23 10:03	CH	EET MID

Client Sample ID: S-2

Lab Sample ID: 890-3720-6

Date Collected: 12/15/22 10:38
Date Received: 12/28/22 12:24

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	42802	12/28/22 13:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42840	12/29/22 19:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42918	12/30/22 13:18	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42952	12/30/22 12:37	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	42911	12/29/22 16:03	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42842	12/30/22 00:29	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	42890	12/29/22 12:46	KS	EET MID
Soluble	Analysis	300.0		1			42997	01/03/23 10:08	CH	EET MID

Client Sample ID: S-2

Lab Sample ID: 890-3720-7

Date Collected: 12/15/22 10:44
Date Received: 12/28/22 12:24

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	42802	12/28/22 13:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42840	12/29/22 19:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42918	12/30/22 13:18	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42952	12/30/22 12:37	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	42911	12/29/22 16:03	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42842	12/30/22 00:49	AJ	EET MID

Lab Chronicle

Client: Talon/LPE
Project/Site: Matador Cholla 1 Fed 01

Job ID: 890-3720-1
SDG: Eddy County NM

Client Sample ID: S-2
Date Collected: 12/15/22 10:44
Date Received: 12/28/22 12:24

Lab Sample ID: 890-3720-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	42890	12/29/22 12:46	KS	EET MID
Soluble	Analysis	300.0		1			42997	01/03/23 10:13	CH	EET MID

Client Sample ID: S-2
Date Collected: 12/15/22 10:50
Date Received: 12/28/22 12:24

Lab Sample ID: 890-3720-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	42802	12/28/22 13:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42840	12/29/22 19:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42918	12/30/22 13:18	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42952	12/30/22 12:37	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	42911	12/29/22 16:03	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42842	12/30/22 01:10	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	42890	12/29/22 12:46	KS	EET MID
Soluble	Analysis	300.0		1			42997	01/03/23 10:27	CH	EET MID

Client Sample ID: S-3
Date Collected: 12/15/22 10:53
Date Received: 12/28/22 12:24

Lab Sample ID: 890-3720-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	42802	12/28/22 13:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42840	12/29/22 20:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42918	12/30/22 13:18	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42952	12/30/22 12:37	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	42911	12/29/22 16:03	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42842	12/30/22 01:30	AJ	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	42890	12/29/22 12:46	KS	EET MID
Soluble	Analysis	300.0		1			42997	01/03/23 10:32	CH	EET MID

Client Sample ID: S-3
Date Collected: 12/15/22 10:55
Date Received: 12/28/22 12:24

Lab Sample ID: 890-3720-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	42802	12/28/22 13:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42840	12/29/22 20:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42918	12/30/22 13:18	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42952	12/30/22 12:37	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	42911	12/29/22 16:03	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42842	12/30/22 01:51	AJ	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	42890	12/29/22 12:46	KS	EET MID
Soluble	Analysis	300.0		1			42997	01/03/23 10:46	CH	EET MID

Lab Chronicle

Client: Talon/LPE
Project/Site: Matador Cholla 1 Fed 01

Job ID: 890-3720-1
SDG: Eddy County NM

Client Sample ID: S-3
Date Collected: 12/15/22 10:57
Date Received: 12/28/22 12:24

Lab Sample ID: 890-3720-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	42802	12/28/22 13:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42840	12/29/22 20:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42918	12/30/22 13:18	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42952	12/30/22 12:37	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	42911	12/29/22 16:03	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42842	12/30/22 02:31	AJ	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	42890	12/29/22 12:46	KS	EET MID
Soluble	Analysis	300.0		1			42997	01/03/23 10:51	CH	EET MID

Client Sample ID: S-3
Date Collected: 12/15/22 11:01
Date Received: 12/28/22 12:24

Lab Sample ID: 890-3720-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	42727	12/28/22 14:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42843	12/29/22 20:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42918	12/30/22 13:19	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42952	12/30/22 12:37	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	42911	12/29/22 16:03	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42842	12/30/22 02:52	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	42890	12/29/22 12:46	KS	EET MID
Soluble	Analysis	300.0		1			42997	01/03/23 10:55	CH	EET MID

Client Sample ID: S-4
Date Collected: 12/15/22 11:07
Date Received: 12/28/22 12:24

Lab Sample ID: 890-3720-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	42727	12/28/22 14:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42843	12/29/22 20:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42918	12/30/22 13:19	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42952	12/30/22 12:37	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	42911	12/29/22 16:03	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42842	12/30/22 03:13	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	42890	12/29/22 12:46	KS	EET MID
Soluble	Analysis	300.0		1			42997	01/03/23 11:00	CH	EET MID

Client Sample ID: S-4
Date Collected: 12/15/22 11:11
Date Received: 12/28/22 12:24

Lab Sample ID: 890-3720-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	42727	12/28/22 14:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42843	12/29/22 21:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42918	12/30/22 13:19	AJ	EET MID

Lab Chronicle

Client: Talon/LPE
Project/Site: Matador Cholla 1 Fed 01

Job ID: 890-3720-1
SDG: Eddy County NM

Client Sample ID: S-4
Date Collected: 12/15/22 11:11
Date Received: 12/28/22 12:24

Lab Sample ID: 890-3720-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			42952	12/30/22 12:37	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	42911	12/29/22 16:03	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42842	12/30/22 03:33	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	42890	12/29/22 12:46	KS	EET MID
Soluble	Analysis	300.0		1			42997	01/03/23 11:05	CH	EET MID

Client Sample ID: S-4
Date Collected: 12/15/22 11:18
Date Received: 12/28/22 12:24

Lab Sample ID: 890-3720-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	42727	12/28/22 14:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42843	12/29/22 21:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42918	12/30/22 13:19	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42952	12/30/22 12:37	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	42911	12/29/22 16:03	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42842	12/30/22 03:53	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	42890	12/29/22 12:46	KS	EET MID
Soluble	Analysis	300.0		1			42997	01/03/23 11:09	CH	EET MID

Client Sample ID: S-4
Date Collected: 12/15/22 11:24
Date Received: 12/28/22 12:24

Lab Sample ID: 890-3720-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	42727	12/28/22 14:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42843	12/29/22 21:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42918	12/30/22 13:19	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42952	12/30/22 12:37	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	42911	12/29/22 16:03	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42842	12/30/22 04:14	AJ	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	42890	12/29/22 12:46	KS	EET MID
Soluble	Analysis	300.0		1			42997	01/03/23 11:14	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Talon/LPE
Job ID: 890-3720-1
Project/Site: Matador Cholla 1 Fed 01
SDG: Eddy County NM

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Talon/LPE
Project/Site: Matador Cholla 1 Fed 01

Job ID: 890-3720-1
SDG: Eddy County NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	MCAWW	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Talon/LPE
Project/Site: Matador Cholla 1 Fed 01

Job ID: 890-3720-1
SDG: Eddy County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-3720-1	S-1	Solid	12/15/22 10:09	12/28/22 12:24	1'
890-3720-2	S-1	Solid	12/15/22 10:15	12/28/22 12:24	2'
890-3720-3	S-1	Solid	12/15/22 10:18	12/28/22 12:24	3'
890-3720-4	S-1	Solid	12/15/22 10:21	12/28/22 12:24	4'
890-3720-5	S-2	Solid	12/15/22 10:32	12/28/22 12:24	1'
890-3720-6	S-2	Solid	12/15/22 10:38	12/28/22 12:24	2'
890-3720-7	S-2	Solid	12/15/22 10:44	12/28/22 12:24	3'
890-3720-8	S-2	Solid	12/15/22 10:50	12/28/22 12:24	4'
890-3720-9	S-3	Solid	12/15/22 10:53	12/28/22 12:24	1'
890-3720-10	S-3	Solid	12/15/22 10:55	12/28/22 12:24	2'
890-3720-11	S-3	Solid	12/15/22 10:57	12/28/22 12:24	3
890-3720-12	S-3	Solid	12/15/22 11:01	12/28/22 12:24	4'
890-3720-13	S-4	Solid	12/15/22 11:07	12/28/22 12:24	1'
890-3720-14	S-4	Solid	12/15/22 11:11	12/28/22 12:24	2'
890-3720-15	S-4	Solid	12/15/22 11:18	12/28/22 12:24	3'
890-3720-16	S-4	Solid	12/15/22 11:24	12/28/22 12:24	4'

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Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 1 of 2

Project Manager:	Chad Hensley	Bill to: (if different)	
Company Name:	Talon LPE	Company Name:	
Address:	408 W. Texas Ave.	Address:	
City, State ZIP:	Artesia, NM 88210	City, State ZIP:	
Phone:	575.746.8768	Email:	Chensley@talonlpe.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Matador Cholla 1 Fed 01	Turn Around	
Project Number:	702520.042.01	☑ Routine ☐ Rush	
Project Location:	Eddy County, NM	Due Date:	
Sampler's Name:	Chad Hensley	TAT starts the day received by the lab, if received by 4:30pm	
PO #:	N/A		

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:	IR#007
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes No N/A	Temperature Reading:	4.2
Total Containers:		Corrected Temperature:	4.0

Preservative Codes

None: NO — DI Water: H_2O
Cool: Cool — MeOH: Me
HCL: HC — HNO_3: HN
H_2S0_4: H_2 — NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: CL	BTEX	TPH	Sample Comments
S-1	Soil	12/15/2022	10:09	1'	Grab/	1		x	X	X	
S-1	Soil	12/15/2022	10:15	2'	Grab/	1		x	X	X	
S-1	Soil	12/15/2022	10:18	3'	Grab/	1		x	X	X	
S-1	Soil	12/15/2022	10:21	4'	Grab/	1		x	X	X	
S-2	Soil	12/15/2022	10:32	1'	Grab/	1		x	X	X	
S-2	Soil	12/15/2022	10:38	2'	Grab/	1		x	X	X	
S-2	Soil	12/15/2022	10:44	3'	Grab/	1		x	X	X	
S-2	Soil	12/15/2022	10:50	4'	Grab/	1		x	X	X	
	Soil										
	Soil										

890-3720 Chain of Custody

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Chad Hensley	Clae Cup	12.28.22 1234			
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

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Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

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Project Manager:	Chad Hensley	Bill to: (if different)	
Company Name:	Talon LPE	Company Name:	
Address:	408 W. Texas Ave.	Address:	
City, State ZIP:	Artesia, NM 88210	City, State ZIP:	
Phone:	575.746.8768	Email:	Chensley@talonlpe.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Matador Cholla 1 Fed 01	Turn Around	
Project Number:	702520.042.01	☑ Routine ☐ Rush	
Project Location:	Eddy County, NM	Due Date:	
Sampler's Name:	Chad Hensley	TAT starts the day received by the lab, if received by 4:30pm	
PO #:	N/A		

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Samples Received Intact:	Yes No	Thermometer ID:		
Cooler Custody Seals:	Yes No N/A	Correction Factor:		
Sample Custody Seals:	Yes No N/A	Temperature Reading:		
Total Containers:		Corrected Temperature:		

Preservative Codes

None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3: HN; H_2S0_4: H_2; NaOH: Na; H_3PO_4: HP; $NaHSO_4$: NABIS; $Na_2S_2O_3$: $NaSO_3$; Zn Acetate+NaOH: Zn; NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: CL	BTEX	TPH	Sample Comments
S-3	Soil	12/15/2022	10:53	1'	Grab/	1		x	X	X	
S-3	Soil	12/15/2022	10:55	2'	Grab/	1		x	X	X	
S-3	Soil	12/15/2022	10:57	3'	Grab/	1		x	X	X	
S-3	Soil	12/15/2022	11:01	4'	Grab/	1		x	X	X	
S-4	Soil	12/15/2022	11:07	1'	Grab/	1		x	X	X	
S-4	Soil	12/15/2022	11:11	2'	Grab/	1		x	X	X	
S-4	Soil	12/15/2022	11:18	3'	Grab/	1		x	X	X	
S-4	Soil	12/15/2022	11:24	4'	Grab/	1		x	X	X	
	Soil										
	Soil										

ANALYSIS REQUEST

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		12-28-22 1324	4		
3			6		
5					

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Talon/LPE

Job Number: 890-3720-1
SDG Number: Eddy County NM

Login Number: 3720
List Number: 1
Creator: Stutzman, Amanda

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Talon/LPE

Job Number: 890-3720-1
SDG Number: Eddy County NM

Login Number: 3720
List Number: 2
Creator: Teel, Brianna

List Source: Eurofins Midland
List Creation: 12/29/22 11:42 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

Appendix V

C-141

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	NMCS0217558047
District RP	
Facility ID	
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)* NMCS0217558047
Contact mailing address 5347 N. 26th St. 2nd Floor, Artesia, NM 88210	

Location of Release Source

Latitude 32.774807 Longitude -103.8198318
(NAD 83 in decimal degrees to 5 decimal places)

Site Name CHOLLA 1 FEDERAL #001	Site Type Oil
Date Release Discovered	API# *(if applicable)* 30-015-31187

Unit Letter	Section	Township	Range	County
J	01	18S	31E	Eddy

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

Nature and Volume of Release

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

☑ Crude Oil	Volume Released (bbls) Approximently 91 bbl	Volume Recovered (bbls) 91bbl
☐ Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☑ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

TANKS WERE MOVED ONTO THE CHOLLA FED #1 LOCATION. PUMPER WAS UNAWARE OF A HOLE IN AN ADAPTER LOCATED IN BACK OF THE TANK.

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

Incident ID	NMCS0217558047
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☑ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? 91 bbl spill
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

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

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

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

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

Printed Name: Clinton Talley Title: EHS

Signature: Clint Talley Date: 01/17/2023

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

OCD Only

Received by: Jocelyn Harimon Date: 01/17/2023

State of New Mexico
Oil Conservation Division

Incident ID	NMCS0217558047
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

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

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

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

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Page 4

State of New Mexico
Oil Conservation Division

Incident ID	NMCS0217558047
District RP	
Facility ID	
Application ID	

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

Printed Name: Clinton Talley Title: EHS

Signature: Clint Talley Date: 01/17/2023

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

OCD Only

Received by: Jocelyn Harimon Date: 01/17/2023

State of New Mexico
Oil Conservation Division

Incident ID	NMCS0217558047
District RP	
Facility ID	
Application ID	

Closure

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

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

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

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

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

☑ Description of remediation activities

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

Printed Name: Clinton Talley Title: EHS

Signature: Clint Talley Date: 01/17/2023

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

OCD Only

Received by: Jocelyn Harimon Date: 01/17/2023

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

Closure Approved by: Ashley Maxwell Date: 3/20/2023

Printed Name: Ashley Maxwell Title: Environmental Specialist

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 176660

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 176660
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	None	3/20/2023