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Closure Report:

Richardson U #001 Lea County, New Mexico API ID # 30-025-27783 Incident # NGRL0827042006 and nGRL0826839203

Prepared For:

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

Prepared By:

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

August 31, 2023

Approximate Dept	in to Groundwater	67 feet bgs
∐Yes⊠No	Within 300 feet of any continuously flowing waany other significant watercourse	atercourse or
∐Yes⊠No	Within 200 feet of any lakebed, sinkhole or a	playa lake
□Yes ⊠No	Within 300 feet from an occupied permanent school, hospital, institution or church	residence,
∐Yes ⊠No	Within 500 feet of a spring or a private, dome- well used by less than five households for dor watering purposes	
∐Yes ⊠No	Within 1000 feet of any freshwater well or spr	ing
∐Yes ⊠No	Within incorporated municipal boundaries or was municipal freshwater well field covered under ordinance adopted pursuant to Section 3-270	a municipal
□Yes ⊠No	Within 300 feet of a wetland	
□Yes ⊠No	Within the area overlying a subsurface mine	
∐Yes ⊠No	Within an unstable area	
□Yes ⊠No	Within a 100-year floodplain	

With depth to water source available that meets New Mexico Oil Conservation Division's (NMOCD) criteria within $\frac{1}{2}$ mile of the site, the responsible party must therefore adhere to the cleanup criteria for this site of groundwater greater than 51 feet bgs, Table I, NMOCD Rule 19.15.29 NMAC.

Table I									
Cl	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						
	Total Chlorides	EPA 300.0 or SM4500 CI B	10,000 mg/kg						
51 feet ≥ 100 feet	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	2,500 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 April 22, 2008, that needed to be addressed. The C-141 submitted to the NMOCD, incident number NGRL0827042006 and nGRL0826839203, stated a 3 inch load line valve was not sealed correctly and a cow opened vavle, resulting in the release of one hundred and twenty three (123) barrels (bbls) of produced water was released to the site and Six (6) bbls were recovered. The site map is presented in Appendix I.

Site Assessment

On August 11th, 2023, Talon personnel mobilized to the site to conduct an initial site assessment of the area where the former heater treater resided. The impacted area was photographed, sampled utilizing a hand auger, and mapped. All soil samples were properly packaged, preserved, and transported to Cardinal laboratories with the 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 1 (Appendix I) and the results of our sampling event are presented on the following data table.

Table 1Intial Site Assessment

	Matador Resources - Richardson #001										
Sampl e ID	Samp le Date	Dept h (BG S)	Benze ne mg/kg	BTE X mg/k g	GRO mg/k g	DRO mg/k g	MRO mg/k g	Total TPH mg/k g	Chlorid es mg/kg		
NMOCD Table 1 Closure Criteria 19.15.29 NMAC		10 mg/kg	50 mg/k g	MRO	O + GR combi 00 mg/k	100 mg/k g	600 mg/kg				
0.4	8/11/2 3	1'	ND	ND	ND	ND	ND	ND	32		
S-1	8/11/2 3	1.5'R	ND	ND	ND	ND	ND	ND	64		
	8/11/2										
S-2	3	1'	ND	ND	ND	12	ND	12	32		
	8/11/2								4.0		
	3	2'R	ND	ND	ND	23	ND	23	48		

	8/11/2								
	3	1'	ND	ND	ND	ND	ND	ND	ND
	8/11/2								
S-3	3	2'	ND	ND	ND	ND	ND	ND	16
3-3	8/11/2								
	3	3'	ND	ND	ND	ND	ND	ND	32
	8/11/2								
	3	4.5'	ND	ND	ND	ND	ND	ND	32
	8/11/2								
	3	1'	ND	ND	ND	ND	ND	ND	16
	8/11/2								
S-4	3	2'	ND	ND	ND	ND	ND	ND	ND
3-4	8/11/2								
	3	3'	ND	ND	ND	ND	ND	ND	ND
	8/11/2								
	3	4.5'	ND	ND	ND	ND	ND	ND	ND
S-5	8/11/2								
3-3	3	1'R	ND	ND	ND	67.9	ND	67.9	80

NOTE

S:

BGS Below ground

surface

mg/kg Milligrams

per kilogram
Total Petroleum

TPH Hydrocarbons

GRO Gasoline range

organics

DRO Diesel range organics

MRO Motor oil range

organics

S Sample

c Confirmation

Sample

SW Sidewall Sample

TT Test Trench

Refus

R al

ND Analyte Not

Detected

Analyte Not

NT Tested

Highlighted cells indicate exceedance of NMOCD Table 1 Closure Criteria

Remedial Action Summary

- Representative soil samples were collected from the impacted area.
- Laboratory analysis confirms that NMOCD closure criteria for this site were not exceeded. Therefore, no remedial actions were deemed necessary.
- Photographic documentation is provided in Appendix IV.
- Copies of the Final C-141s are presented in Appendix III.

Closure

On behalf of Matador Resources, we respectfully request that no further actions be required and that closure of this incident be granted.

Respectfully submitted,

Talon/LPE

Chad Hensley Project Manager

Attachments:

Appendix I Site Maps

Appendix II Groundwater Data, Soil Survey, FEMA Flood Map

Appendix III C-141 Form

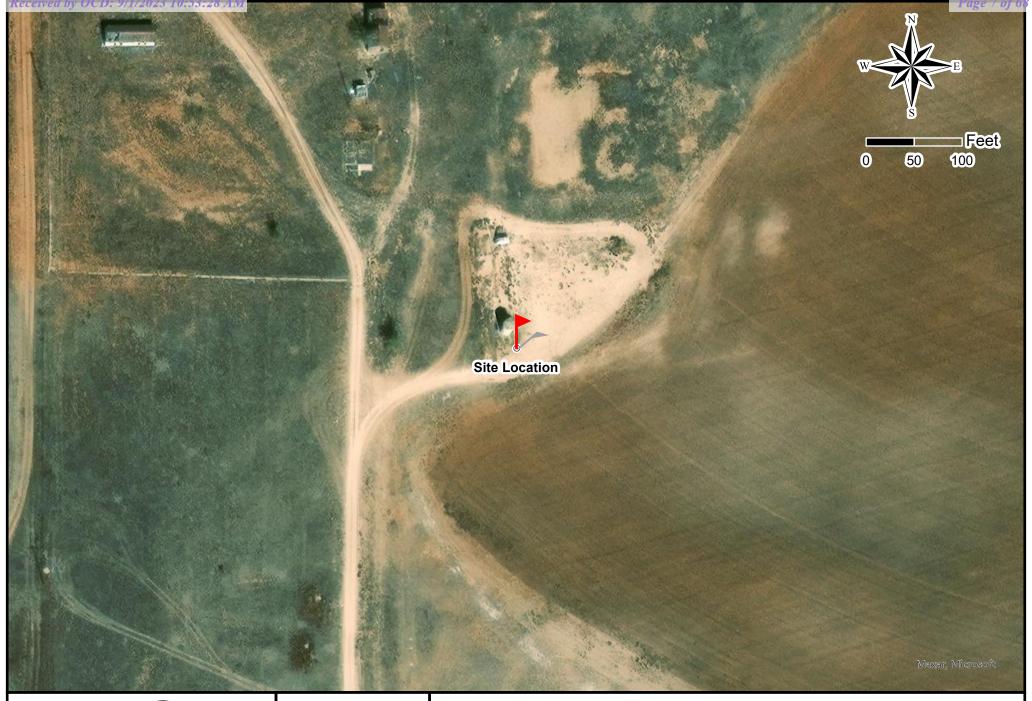
Appendix IV Photographic Documentation

Appendix V Laboratory Report



Appendix I

Site Maps





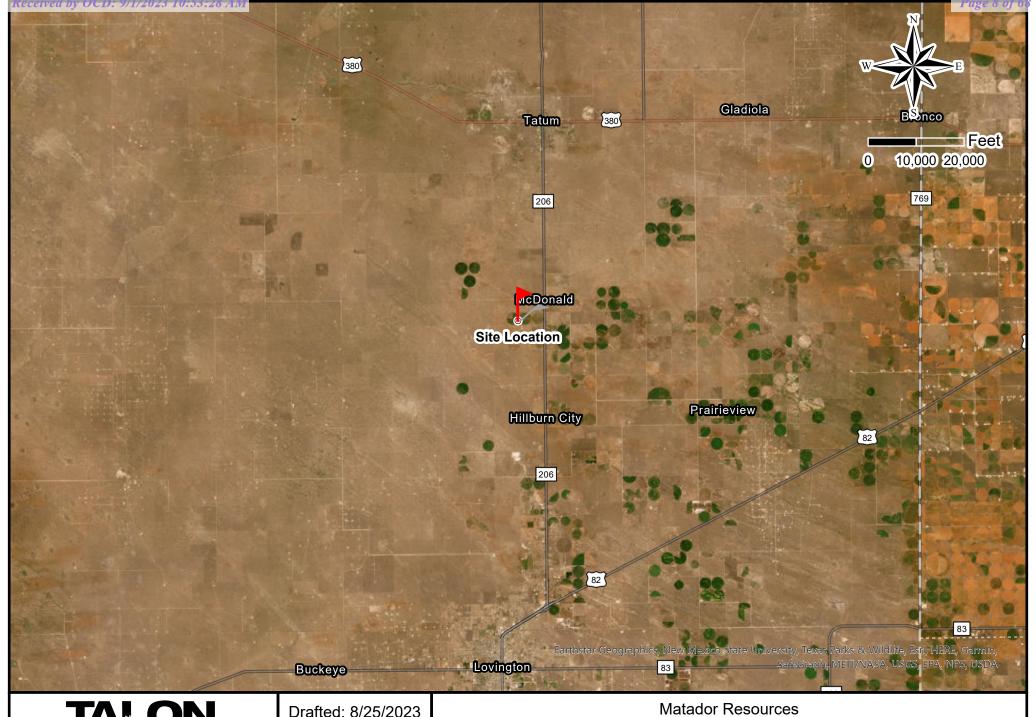
Released to Imaging: 9/7/2023 8:50:19 AM

Drafted: 8/25/2023

1 in = 100 ft

Drafted By: JAI

Matador Resources Richardson U #001 Lea County, New Mexico Aerial Map





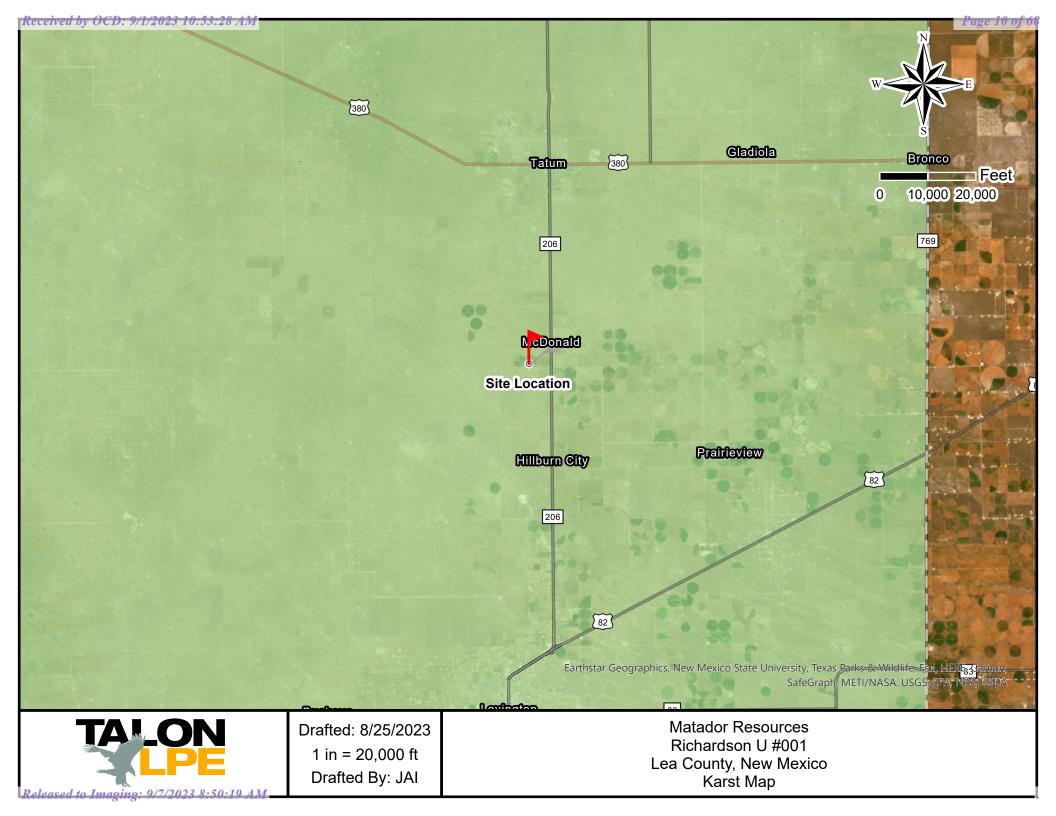
Drafted: 8/25/2023

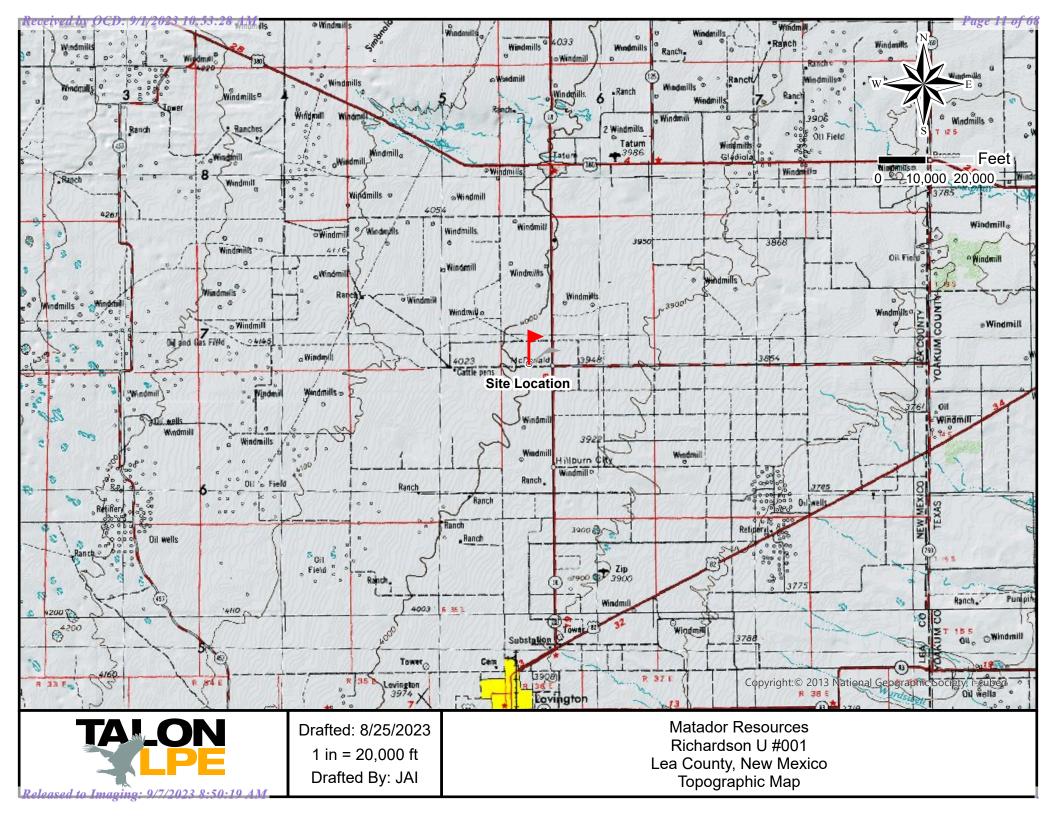
1 in = 20,000 ft

Drafted By: JAI

Richardson U #001 Lea County, New Mexico **Location Map**









Appendix II

Groundwater Data
Soil Survey
FEMA Flood Map



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

(R=POD has been replaced, O=orphaned,

C=the file is

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

closed) (quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

		POD Sub-		Q	Q	Ç								V	/ater
POD Number	Code	basin	County	_	_	_	Sec	Tws	Rng	X	Y	DistanceDe	epthWellDep		
L 01685 POD1		L	LE		3	3	32	13S	36E	655513	3668341*	3			
<u>L 00118 POD2</u>		L	LE	1	3	3	32	13S	36E	655412	3668440*	138	130		
<u>L 00426 POD3</u>		L	LE			3	32	13S	36E	655714	3668542*	283	120	88	32
L 00072 POD2		L	LE	1	1	1	05	14S	36E	655419	3668038*	318	100	75	25
<u>L 00738</u>		L	LE		1	1	05	14S	36E	655520	3667939*	404	113	70	43
<u>L 00738</u>	R	L	LE		1	1	05	14S	36E	655520	3667939*	404	113	70	43
<u>L 00426 S</u>	R	L	LE	3	2	3	32	13S	36E	655808	3668649*	426	100	40	60
<u>L 00426</u>		L	LE	1	2	3	32	13S	36E	655808	3668849*	586	96	40	56
<u>L 01313</u>		L	LE	1	2	4	31	13S	36E	655003	3668836*	707	88	43	45
<u>L 00427 S</u>		L	LE	2	1	4	31	13S	36E	654801	3668830*	860	132	65	67
<u>L 00738 S</u>		L	LE	3	3	1	05	14S	36E	655426	3667436*	911	105	45	60

Average Depth to Water:

59 feet

Minimum Depth:

40 feet

Maximum Depth:

88 feet

Record Count: 11

<u>UTMNAD83 Radius Search (in meters):</u>

Easting (X): 655511.13

Northing (Y): 3668343.37

Radius: 1000

^{*}UTM location was derived from PLSS - see Help

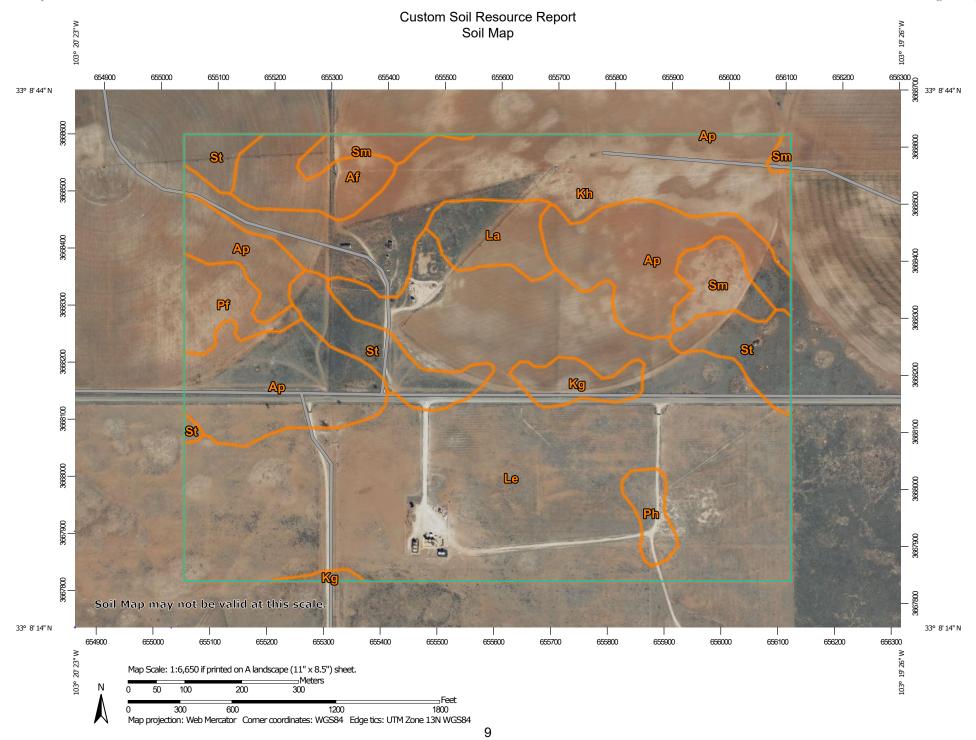


VRCS

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 Lea County, New Mexico





MAP LEGEND

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Water Features

Transportation

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Background

Spoil Area

Stony Spot

Wet Spot

Other

Rails

US Routes

Major Roads

Local Roads

Very Stony Spot

Special Line Features

Streams and Canals

Interstate Highways

Aerial Photography

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Map Unit Polygons

Soil Map Unit Lines



Soil Map Unit Points

Special Point Features

ဖ

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

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20.000.

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

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

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

Source of Map: Natural Resources Conservation Service Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

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

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

Soil Survey Area: Lea County, New Mexico Survey Area Data: Version 19, Sep 8, 2022

Soil map units are labeled (as space allows) for map scales 1:50.000 or larger.

Date(s) aerial images were photographed: Feb 5, 2021—Feb 8, 2021

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		
Af	Amarillo fine sandy loam, 0 to 1 percent slopes	6.8	3.3%		
Ар	Arvana fine sandy loam, 0 to 1 percent slopes	31.9	15.4%		
Kg	Kimbrough gravelly loam, 0 to 3 percent slopes	3.9	1.9%		
Kh	Kimbrough-Lea complex, 0 to 3 percent slopes	32.0	15.4%		
La	Lea fine sandy loam	5.7	2.8%		
Le	Lea loam	99.3	47.8%		
Pf	Portales fine sandy loam, dry, 1 to 3 percent slopes	4.6	2.2%		
Ph	Portales loam, 0 to 1 percent slopes	2.4	1.2%		
Sm	Simona fine sandy loam, 0 to 1 percent slopes	7.1	3.4%		
St	Stegall loam, 0 to 1 percent slopes	14.0	6.7%		
Totals for Area of Interest	'	207.8	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.

Lea County, New Mexico

Af—Amarillo fine sandy loam, 0 to 1 percent slopes

Map Unit Setting

National map unit symbol: f5r6 Elevation: 2,600 to 5,100 feet

Mean annual precipitation: 16 to 21 inches Mean annual air temperature: 57 to 63 degrees F

Frost-free period: 185 to 220 days

Farmland classification: Farmland of statewide importance

Map Unit Composition

Amarillo and similar soils: 90 percent Minor components: 10 percent

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

Description of Amarillo

Setting

Landform: Plains

Down-slope shape: Linear Across-slope shape: Linear

Parent material: Loamy eolian deposits

Typical profile

Ap - 0 to 10 inches: fine sandy loam Bt - 10 to 41 inches: sandy clay loam Btkk - 41 to 56 inches: sandy clay loam Btk - 56 to 80 inches: sandy clay loam

Properties and qualities

Slope: 0 to 1 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained Runoff class: Negligible

Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high

(0.57 to 1.98 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 65 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: Moderate (about 8.1 inches)

Interpretive groups

Land capability classification (irrigated): 2e Land capability classification (nonirrigated): 3e

Hydrologic Soil Group: B

Ecological site: R077CY036TX - Sandy Loam 16-21" PZ

Minor Components

Arvana

Percent of map unit: 4 percent

Landform: Plains

Down-slope shape: Linear Across-slope shape: Linear

Ecological site: R077CY036TX - Sandy Loam 16-21" PZ

Hydric soil rating: No

Posey

Percent of map unit: 4 percent

Landform: Plains

Down-slope shape: Linear Across-slope shape: Linear

Ecological site: R077CY028TX - Limy Upland 16-21" PZ

Hydric soil rating: No

Sharvana

Percent of map unit: 2 percent

Landform: Plains

Down-slope shape: Linear Across-slope shape: Convex

Ecological site: R077CY037TX - Very Shallow 16-21" PZ

Hydric soil rating: No

Ap—Arvana fine sandy loam, 0 to 1 percent slopes

Map Unit Setting

National map unit symbol: f5rn Elevation: 2,600 to 5,100 feet

Mean annual precipitation: 16 to 21 inches Mean annual air temperature: 57 to 63 degrees F

Frost-free period: 185 to 220 days

Farmland classification: Farmland of statewide importance

Map Unit Composition

Arvana and similar soils: 85 percent Minor components: 15 percent

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

Description of Arvana

Setting

Landform: Plains

Down-slope shape: Linear Across-slope shape: Linear

Parent material: Loamy eolian deposits

Typical profile

Ap - 0 to 11 inches: fine sandy loam
Bt - 11 to 26 inches: sandy clay loam
Bkkm - 26 to 37 inches: cemented material
Bkk - 37 to 80 inches: very gravelly loam

Properties and qualities

Slope: 0 to 1 percent

Depth to restrictive feature: 20 to 40 inches to petrocalcic

Drainage class: Well drained Runoff class: Medium

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately

low (0.00 to 0.14 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 80 percent

Maximum salinity: Nonsaline to slightly saline (0.0 to 5.0 mmhos/cm)

Sodium adsorption ratio, maximum: 5.0

Available water supply, 0 to 60 inches: Low (about 4.0 inches)

Interpretive groups

Land capability classification (irrigated): 2e Land capability classification (nonirrigated): 3e

Hydrologic Soil Group: C

Ecological site: R077CY036TX - Sandy Loam 16-21" PZ

Hydric soil rating: No

Minor Components

Sharvana

Percent of map unit: 7 percent

Landform: Plains

Down-slope shape: Linear Across-slope shape: Convex

Ecological site: R077CY037TX - Very Shallow 16-21" PZ

Hydric soil rating: No

Amarillo

Percent of map unit: 6 percent

Landform: Plains

Down-slope shape: Linear Across-slope shape: Linear

Ecological site: R077CY036TX - Sandy Loam 16-21" PZ

Hydric soil rating: No

Posey

Percent of map unit: 2 percent Landform: Playa slopes, plains Down-slope shape: Concave, convex

Across-slope shape: Linear

Ecological site: R077CY028TX - Limy Upland 16-21" PZ

Kg—Kimbrough gravelly loam, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 2tw42 Elevation: 2,500 to 4,800 feet

Mean annual precipitation: 14 to 16 inches
Mean annual air temperature: 57 to 63 degrees F

Frost-free period: 180 to 220 days

Farmland classification: Not prime farmland

Map Unit Composition

Kimbrough and similar soils: 85 percent

Minor components: 15 percent

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

Description of Kimbrough

Setting

Landform: Playa rims, plains
Down-slope shape: Convex, linear
Across-slope shape: Concave, linear

Parent material: Loamy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 3 inches: gravelly loam Bw - 3 to 10 inches: loam

Bkkm1 - 10 to 16 inches: cemented material Bkkm2 - 16 to 80 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: 4 to 18 inches to petrocalcic

Drainage class: Well drained Runoff class: Very high

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately

low (0.00 to 0.01 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 95 percent

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

Sodium adsorption ratio, maximum: 1.0

Available water supply, 0 to 60 inches: Very low (about 1.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7s

Hydrologic Soil Group: D

Ecological site: R077DY049TX - Very Shallow 12-17" PZ

Minor Components

Eunice

Percent of map unit: 6 percent

Landform: Plains

Down-slope shape: Linear Across-slope shape: Convex

Ecological site: R077DY049TX - Very Shallow 12-17" PZ

Hydric soil rating: No

Spraberry

Percent of map unit: 5 percent Landform: Playa rims, plains Down-slope shape: Convex, linear

Across-slope shape: Linear

Ecological site: R077DY049TX - Very Shallow 12-17" PZ

Hydric soil rating: No

Kenhill

Percent of map unit: 4 percent

Landform: Plains

Down-slope shape: Linear Across-slope shape: Linear

Ecological site: R077DY038TX - Clay Loam 12-17" PZ

Hydric soil rating: No

Kh—Kimbrough-Lea complex, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 2tw45 Elevation: 2,500 to 4,800 feet

Mean annual precipitation: 14 to 16 inches
Mean annual air temperature: 57 to 63 degrees F

Frost-free period: 180 to 220 days

Farmland classification: Not prime farmland

Map Unit Composition

Kimbrough and similar soils: 50 percent Lea and similar soils: 35 percent Minor components: 15 percent

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

Description of Kimbrough

Setting

Landform: Playa rims, plains
Down-slope shape: Convex, linear
Across-slope shape: Concave, linear

Parent material: Loamy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 3 inches: gravelly loam Bw - 3 to 10 inches: loam

Bkkm1 - 10 to 16 inches: cemented material Bkkm2 - 16 to 80 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: 4 to 18 inches to petrocalcic

Drainage class: Well drained Runoff class: Very high

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately

low (0.00 to 0.01 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 95 percent

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

Sodium adsorption ratio, maximum: 1.0

Available water supply, 0 to 60 inches: Very low (about 1.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7s

Hydrologic Soil Group: D

Ecological site: R077DY049TX - Very Shallow 12-17" PZ

Hydric soil rating: No

Description of Lea

Setting

Landform: Plains

Down-slope shape: Convex Across-slope shape: Linear

Parent material: Calcareous, loamy eolian deposits from the blackwater draw formation of pleistocene age over indurated caliche of pliocene age

Typical profile

A - 0 to 10 inches: loam Bk - 10 to 18 inches: loam

Bkk - 18 to 26 inches: gravelly fine sandy loam Bkkm - 26 to 80 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: 22 to 30 inches to petrocalcic

Drainage class: Well drained

Runoff class: High

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately

low (0.00 to 0.06 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 90 percent

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

Sodium adsorption ratio, maximum: 3.0

Available water supply, 0 to 60 inches: Very low (about 2.9 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7s

Hydrologic Soil Group: D

Ecological site: R077DY047TX - Sandy Loam 12-17" PZ

Hydric soil rating: No

Minor Components

Kenhill

Percent of map unit: 6 percent

Landform: Plains

Down-slope shape: Linear Across-slope shape: Linear

Ecological site: R077DY038TX - Clay Loam 12-17" PZ

Hydric soil rating: No

Douro

Percent of map unit: 6 percent

Landform: Plains

Down-slope shape: Linear Across-slope shape: Linear

Ecological site: R077DY047TX - Sandy Loam 12-17" PZ Other vegetative classification: Unnamed (G077DH000TX)

Hydric soil rating: No

Spraberry

Percent of map unit: 3 percent Landform: Playa rims, plains Down-slope shape: Convex, linear

Across-slope shape: Linear

Ecological site: R077DY049TX - Very Shallow 12-17" PZ Other vegetative classification: Unnamed (G077DH000TX)

Hydric soil rating: No

La—Lea fine sandy loam

Map Unit Setting

National map unit symbol: dmq8 Elevation: 3,600 to 4,400 feet

Mean annual precipitation: 12 to 16 inches
Mean annual air temperature: 58 to 60 degrees F

Frost-free period: 190 to 205 days

Farmland classification: Farmland of statewide importance

Map Unit Composition

Lea and similar soils: 85 percent Minor components: 15 percent

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

Description of Lea

Setting

Landform: Plains

Landform position (three-dimensional): Talf

Down-slope shape: Linear Across-slope shape: Linear

Parent material: Loamy alluvium derived from sedimentary rock

Typical profile

A - 0 to 5 inches: fine sandy loam

Bk - 5 to 26 inches: loam

Bkm - 26 to 36 inches: cemented material

Properties and qualities

Slope: 0 to 1 percent

Depth to restrictive feature: 20 to 40 inches to petrocalcic

Drainage class: Well drained Runoff class: Medium

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately

low (0.00 to 0.06 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 30 percent

Gypsum, maximum content: 1 percent

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

Sodium adsorption ratio, maximum: 2.0

Available water supply, 0 to 60 inches: Low (about 4.5 inches)

Interpretive groups

Land capability classification (irrigated): 6e Land capability classification (nonirrigated): 6e

Hydrologic Soil Group: C

Ecological site: R077CY035TX - Sandy 16-21" PZ

Hydric soil rating: No

Minor Components

Portales

Percent of map unit: 8 percent

Ecological site: R077CY028TX - Limy Upland 16-21" PZ

Hydric soil rating: No

Arvana

Percent of map unit: 7 percent

Ecological site: R077CY035TX - Sandy 16-21" PZ

Le—Lea loam

Map Unit Setting

National map unit symbol: dmq9 Elevation: 2,500 to 4,400 feet

Mean annual precipitation: 12 to 20 inches Mean annual air temperature: 57 to 64 degrees F

Frost-free period: 195 to 230 days

Farmland classification: Prime farmland if irrigated

Map Unit Composition

Lea and similar soils: 85 percent Minor components: 15 percent

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

Description of Lea

Setting

Landform: Plains

Landform position (three-dimensional): Talf

Down-slope shape: Linear Across-slope shape: Linear

Parent material: Loamy alluvium derived from sedimentary rock

Typical profile

A - 0 to 4 inches: loam Bk - 4 to 26 inches: loam

Bkm - 26 to 36 inches: cemented material

Properties and qualities

Slope: 0 to 1 percent

Depth to restrictive feature: 20 to 40 inches to petrocalcic

Drainage class: Well drained Runoff class: Medium

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately

low (0.00 to 0.06 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 30 percent

Gypsum, maximum content: 1 percent

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

Sodium adsorption ratio, maximum: 2.0

Available water supply, 0 to 60 inches: Low (about 4.6 inches)

Interpretive groups

Land capability classification (irrigated): 4e Land capability classification (nonirrigated): 4c

Hydrologic Soil Group: C

Ecological site: R077CY028TX - Limy Upland 16-21" PZ

Hydric soil rating: No

Minor Components

Kimbrough

Percent of map unit: 6 percent

Ecological site: R077CY037TX - Very Shallow 16-21" PZ

Hydric soil rating: No

Stegall, loam

Percent of map unit: 5 percent

Ecological site: R077CY028TX - Limy Upland 16-21" PZ

Hydric soil rating: No

Arvana

Percent of map unit: 4 percent

Ecological site: R077CY035TX - Sandy 16-21" PZ

Hydric soil rating: No

Pf—Portales fine sandy loam, dry, 1 to 3 percent slopes

Map Unit Setting

National map unit symbol: dmqv Elevation: 2,500 to 4,800 feet

Mean annual precipitation: 14 to 16 inches Mean annual air temperature: 57 to 63 degrees F

Frost-free period: 180 to 220 days

Farmland classification: Farmland of statewide importance

Map Unit Composition

Portales, dry, and similar soils: 85 percent

Minor components: 15 percent

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

Description of Portales, Dry

Setting

Landform: Playa rims, plains

Landform position (three-dimensional): Dip, talf

Down-slope shape: Convex Across-slope shape: Linear

Parent material: Calcareous loamy eolian deposits and/or lacustrine deposits

Typical profile

A - 0 to 15 inches: fine sandy loam
Bk1 - 15 to 36 inches: clay loam
Bk2 - 36 to 48 inches: loam
Bkk - 48 to 80 inches: clay loam

Properties and qualities

Slope: 1 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

(0.57 to 1.98 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 75 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 3.0 mmhos/cm)

Sodium adsorption ratio, maximum: 2.0

Available water supply, 0 to 60 inches: Moderate (about 7.2 inches)

Interpretive groups

Land capability classification (irrigated): 3e Land capability classification (nonirrigated): 6e

Hydrologic Soil Group: B

Ecological site: R077DY042TX - Limy Upland 12-17" PZ

Hydric soil rating: No

Minor Components

Ratliff

Percent of map unit: 7 percent

Landform: Plains

Landform position (three-dimensional): Talf

Down-slope shape: Linear Across-slope shape: Linear

Ecological site: R077DY042TX - Limy Upland 12-17" PZ

Hydric soil rating: No

Chavaro

Percent of map unit: 5 percent

Landform: Plains

Landform position (three-dimensional): Talf

Down-slope shape: Linear Across-slope shape: Convex

Ecological site: R077DY042TX - Limy Upland 12-17" PZ

Hydric soil rating: No

Delphos

Percent of map unit: 3 percent

Landform: Plains, draws

Landform position (two-dimensional): Footslope, backslope

Landform position (three-dimensional): Talf

Down-slope shape: Linear, concave

Across-slope shape: Linear

Ecological site: R077DY046TX - Sandy 12-17" PZ

Ph—Portales loam, 0 to 1 percent slopes

Map Unit Setting

National map unit symbol: f5t2 Elevation: 2,600 to 5,300 feet

Mean annual precipitation: 16 to 21 inches
Mean annual air temperature: 57 to 63 degrees F

Frost-free period: 185 to 220 days

Farmland classification: Farmland of statewide importance

Map Unit Composition

Portales and similar soils: 85 percent Minor components: 15 percent

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

Description of Portales

Setting

Landform: Playa steps, interdunes, plains Down-slope shape: Convex, linear, concave

Across-slope shape: Linear

Parent material: Calcareous loamy eolian deposits and/or lacustrine deposits

Typical profile

Ap - 0 to 15 inches: loam
Bk1 - 15 to 35 inches: clay loam
Bk2 - 35 to 43 inches: loam
Bkk - 43 to 80 inches: clay loam

Properties and qualities

Slope: 0 to 1 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained Runoff class: Negligible

Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high

(0.57 to 1.98 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 75 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 3.0 mmhos/cm)

Sodium adsorption ratio, maximum: 2.0

Available water supply, 0 to 60 inches: Moderate (about 7.6 inches)

Interpretive groups

Land capability classification (irrigated): 2e Land capability classification (nonirrigated): 3e

Hydrologic Soil Group: B

Ecological site: R077CY028TX - Limy Upland 16-21" PZ

Minor Components

Midessa

Percent of map unit: 10 percent

Landform: Plains

Down-slope shape: Linear Across-slope shape: Linear

Ecological site: R077CY028TX - Limy Upland 16-21" PZ

Hydric soil rating: No

Posey

Percent of map unit: 3 percent

Landform: Plains

Down-slope shape: Linear Across-slope shape: Linear

Ecological site: R077CY028TX - Limy Upland 16-21" PZ

Hydric soil rating: No

Acuff

Percent of map unit: 2 percent

Landform: Plains

Down-slope shape: Linear Across-slope shape: Linear

Ecological site: R077CY022TX - Deep Hardland 16-21" PZ

Hydric soil rating: No

Sm—Simona fine sandy loam, 0 to 1 percent slopes

Map Unit Setting

National map unit symbol: dmr8 Elevation: 3,000 to 4,200 feet

Mean annual precipitation: 10 to 15 inches Mean annual air temperature: 58 to 62 degrees F

Frost-free period: 190 to 205 days

Farmland classification: Not prime farmland

Map Unit Composition

Simona and similar soils: 85 percent Minor components: 15 percent

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

Description of Simona

Setting

Landform: Ridges

Landform position (two-dimensional): Shoulder Landform position (three-dimensional): Rise

Down-slope shape: Convex Across-slope shape: Linear

Parent material: Calcareous eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 8 inches: fine sandy loam

Bk - 8 to 16 inches: fine sandy loam

Bkm - 16 to 26 inches: cemented material

Properties and qualities

Slope: 0 to 1 percent

Depth to restrictive feature: 7 to 20 inches to petrocalcic

Drainage class: Well drained

Runoff class: High

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately

low (0.00 to 0.06 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 35 percent

Gypsum, maximum content: 1 percent

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

Sodium adsorption ratio, maximum: 2.0

Available water supply, 0 to 60 inches: Very low (about 2.0 inches)

Interpretive groups

Land capability classification (irrigated): 6s Land capability classification (nonirrigated): 7s

Hydrologic Soil Group: D

Ecological site: R070BD002NM - Shallow Sandy

Hydric soil rating: No

Minor Components

Lea

Percent of map unit: 8 percent

Ecological site: R077CY028TX - Limy Upland 16-21" PZ

Hydric soil rating: No

Kimbrough

Percent of map unit: 7 percent

Ecological site: R077CY037TX - Very Shallow 16-21" PZ

Hydric soil rating: No

St—Stegall loam, 0 to 1 percent slopes

Map Unit Setting

National map unit symbol: 1idyr Elevation: 2,500 to 5,300 feet

Mean annual precipitation: 16 to 21 inches Mean annual air temperature: 57 to 63 degrees F

Frost-free period: 185 to 220 days

Farmland classification: Prime farmland if irrigated

Map Unit Composition

Stegall and similar soils: 90 percent *Minor components:* 10 percent

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

Description of Stegall

Setting

Landform: Plains

Down-slope shape: Convex Across-slope shape: Linear

Parent material: Loamy eolian deposits from the blackwater draw formation of

pleistocene age

Typical profile

Ap - 0 to 8 inches: loam Bt - 8 to 28 inches: clay loam

Bkkm - 28 to 38 inches: cemented material

BCkk - 38 to 80 inches: clay loam

Properties and qualities

Slope: 0 to 1 percent

Depth to restrictive feature: 20 to 36 inches to petrocalcic

Drainage class: Well drained

Runoff class: Low

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately

high (0.00 to 0.20 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 60 percent

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

Available water supply, 0 to 60 inches: Low (about 4.4 inches)

Interpretive groups

Land capability classification (irrigated): 2e Land capability classification (nonirrigated): 3e

Hydrologic Soil Group: C

Ecological site: R077CY022TX - Deep Hardland 16-21" PZ

Hydric soil rating: No

Minor Components

Kimberson

Percent of map unit: 5 percent

Landform: Plains

Down-slope shape: Convex Across-slope shape: Linear

Ecological site: R077CY037TX - Very Shallow 16-21" PZ

Hydric soil rating: No

Friona

Percent of map unit: 3 percent

Landform: Plains

Down-slope shape: Linear Across-slope shape: Linear

Ecological site: R077CY022TX - Deep Hardland 16-21" PZ

Hydric soil rating: No

Slaughter

Percent of map unit: 2 percent

Landform: Plains

Down-slope shape: Convex Across-slope shape: Linear

Ecological site: R077CY037TX - Very Shallow 16-21" PZ

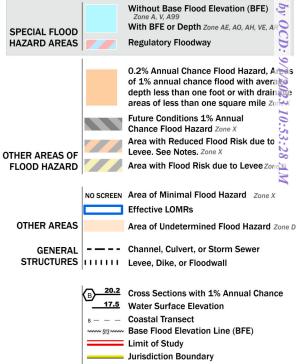
National Flood Hazard Layer FIRMette





Legend

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



Digital Data Available

-- Coastal Transect Baseline

Hydrographic Feature

Profile Baseline

No Digital Data Available

MAP PANELS Unmapped

OTHER

FEATURES

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 8/31/2023 at 1:41 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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



Appendix III

C-141 Forms

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	NGF	RL0827042006 & NGRL082683	9203
District RP			
Facility ID			
Application ID			

Release Notification

Responsible Party

Responsible Party Matador Resources			OGRID	228937			
Contact Name Clinton Talley			Contact Te	elephone 337	7-319-8398		
·			Incident #	(assigned by OCD))		
Contact mail	ing address	5347 N. 26th	Street 2nd Flo	or, Art	tesia, NM 8	8210	
Location of Release Source Latitude 33.1426926 Longitude -103.3326874							
Latitude			(NAD 83 in de	ecimal des	grees to 5 decim	nal places)	<u>·</u>
Site Name R	ICHARDS	SON UNIT #00	 01		Site Type Produced water		
Date Release						licable) 30-02	
Unit Letter	Section	Township	Range		Coun	tv	
M	32	13S	36E	Lea		<u> </u>	-
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 Oi	1	Volume Release	ed (bbls)			Volume Reco	overed (bbls)
☑ Produced	Water	Volume Release	ed (bbls) 123			Volume Reco	overed (bbls) 6
		Is the concentrate produced water	tion of dissolved o	chloride	e in the	Yes N	No.
Condensa	Condensate Volume Released (bbls)				Volume Reco	overed (bbls)	
Natural Gas Volume Released (Mcf)			Volume Recovered (Mcf)				
Other (describe) Volume/Weight Released (provide units) Volume/Weight Recovered (provide units)							
Cause of Release							
3" load line valve was not sealed and cow kicked it partially open. Fluid stayed on lease road and location.							

Received by OCD: 9/1/2023 10:53:28 AM Form C-141 State of New Mexico Page 2 Oil Conservation Division

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Incident ID	G	RL0827042006 & NGRL0826839203
District RP		
Facility ID		
Application ID		

Was this a major release as defined by	If YES, for what reason(s) does the respon	nsible party consider this a major release?			
19.15.29.7(A) NMAC?					
☐ Yes ☑ No					
If YES, was immediate no	tice given to the OCD? By whom? To w	nom? When and by what means (phone, email, etc)?			
11 1 22, 1140 1111111 11111	ground and a control machine to ma	(Piloto)			
	Initial R	esponse			
The responsible p	party must undertake the following actions immediate	y unless they could create a safety hazard that would result in injury			
✓ The source of the rele	ease has been stopped.				
	s been secured to protect human health and	the environment.			
Released materials ha	ive been contained via the use of berms or o	likes, absorbent pads, or other containment devices.			
•	ecoverable materials have been removed an				
If all the actions described above have <u>not</u> been undertaken, explain why:					
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.					
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.					
Printed Name: Clinton	Talley	Title: EHS			
Signature: Clint 7	allsy Dmatadorresources.com	Date: 8/31/2023			
email: clinton.talley@	matadorresources.com	Telephone: 337-319-8398			
OCD Only					
Received by: Shelly Wel	ls	Date: 9/1/2023			

	Page 39 of	O d
lent ID	GRL0827042006 & NGRL082683920)3
rict RP		

Incident ID	GRL0827042006 & NGRL082683920
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.

67(ft bgs)					
☐ Yes ☑ No					
☐ Yes ☑ No					
☐ Yes ☑ No					
☐ Yes ☑ No					
☐ Yes ☑ No					
☐ Yes ☑ No					
☐ Yes ☑ No					
☐ Yes ☑ No					
☐ Yes ☑ No					
☐ Yes ☑ No					
☐ Yes ☑ No					
☐ 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.					
 ✓ 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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Incident ID	C	RL0827042006 & NGRL082683920
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 email: clinton.talley@matadorresources.com	Date: 8/31/2023			
email: clinton.talley@matadorresources.com	Telephone: 337-319-8398			
OCD Only				
Received by: Shelly Wells	Date: _9/1/2023			

Received by OCD: 9/1/2023 10:53:28 AM State of New Mexico
Page 5 Oil Conservation Division

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Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: Each of the following items must b	e included in the plan.
☐ Detailed description of proposed remediation technique ☐ Scaled sitemap with GPS coordinates showing delineation poin ☐ Estimated volume of material to be remediated ☐ Closure criteria is to Table 1 specifications subject to 19.15.29. ☐ Proposed schedule for remediation (note if remediation plan times)	12(C)(4) NMAC
Deferral Requests Only: Each of the following items must be con	nfirmed as part of any request for deferral of remediation.
	roduction equipment where remediation could cause a major facility
Extents of contamination must be fully delineated.	
Contamination does not cause an imminent risk to human health	n, the environment, or groundwater.
	e and remediate contamination that pose a threat to groundwater, acceptance of a C-141 report does not relieve the operator of
Printed Name:	Title:
Signature:	Date:
email:	Telephone:
OCD Only	
Received by:	Date:
☐ Approved ☐ Approved with Attached Conditions of	Approval
Signature:	Date:

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Incident ID GRL0827042006 & NGRL0826839203
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 i	tems must be included in the closure report.
☑ A scaled site and sampling diagram as described in 19.15.29.1	11 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate ODC	C District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and rephuman health or the environment. In addition, OCD acceptance of	ntions. The responsible party acknowledges they must substantially nditions that existed prior to the release or their final land use in
Printed Name: Clinton Talley	Title: EHS
Signature: Clint Tallsy	Date: _8/31/2023
Signature: Clint Tallsy clinton.talley@matadorresources.com	Telephone: 337-319-8398
OCD Only	
Received by: Shelly Wells	Date: 9/1/2023
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.
Closure Approved by: Ashley Maxwell	Date: 9/07/2023
Closure Approved by: Ashley Maxwell Printed Name: Ashley Maxwell	Title: Environmental Specialist

ate of New Mexico

Incident ID	GF	RL0827042006 & NGRL0826839203
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.

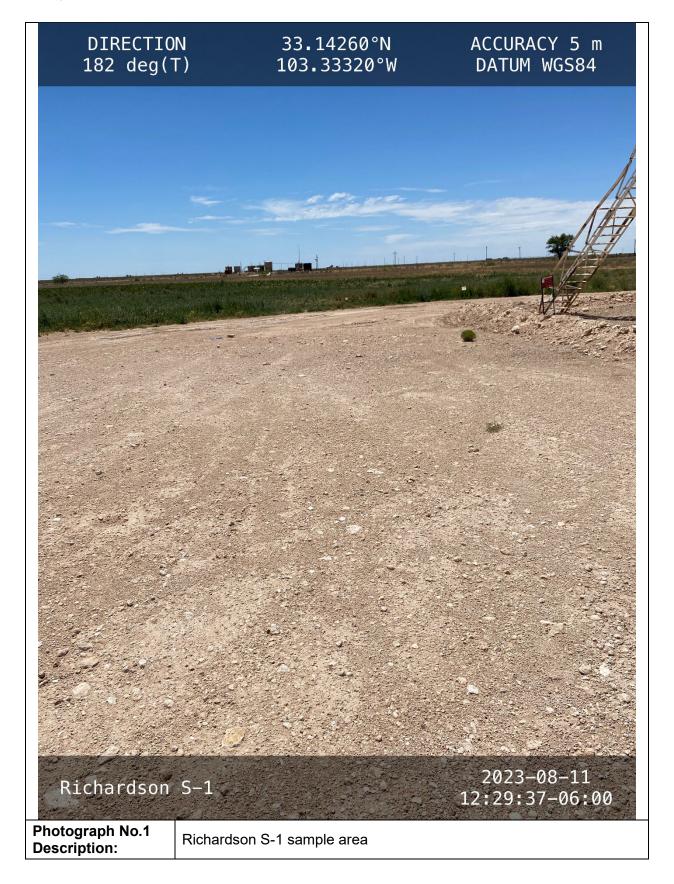
✓ A scaled site and sampling diagram as described in 19.15.29.	11 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	s of the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate OD	C District office must be notified 2 days prior to final sampling)
☑ Description of remediation activities	
and regulations all operators are required to report and/or file certa may endanger public health or the environment. The acceptance o should their operations have failed to adequately investigate and re human health or the environment. In addition, OCD acceptance of	ations. The responsible party acknowledges they must substantially onditions that existed prior to the release or their final land use in
Printed Name: Clinton Talley	Title: EHS
Signature: Clint Tallsy email: clinton.talley@matadorresources.com	
email: clinton.talley@matadorresources.com	Telephone: 337-319-8398
OCD Only	
OCD Only	D.
Received by:	Date:
	y of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible for regulations.
Closure Approved by:	Date:
Printed Name:	Title:



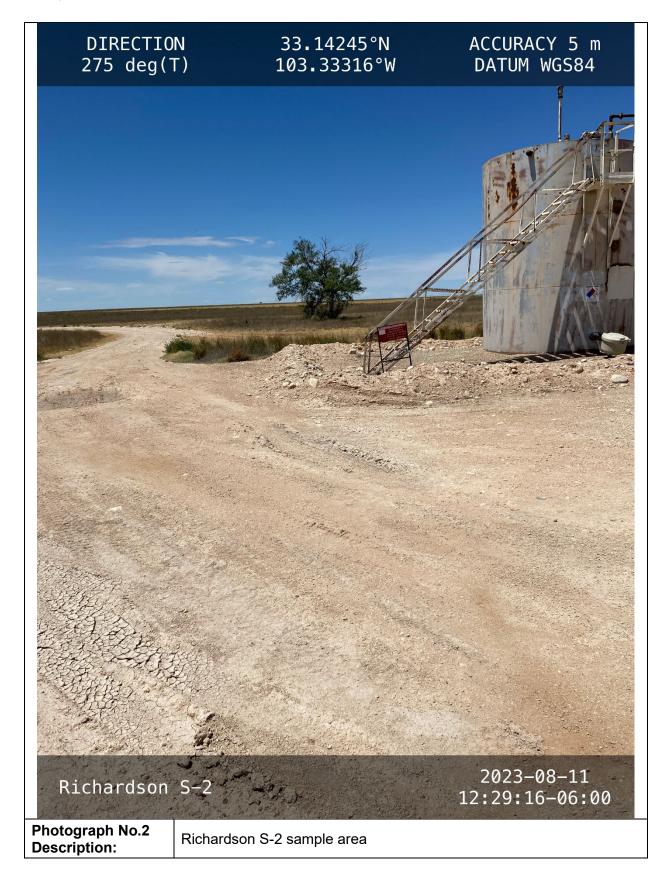
Appendix IV

Photographic Documentation

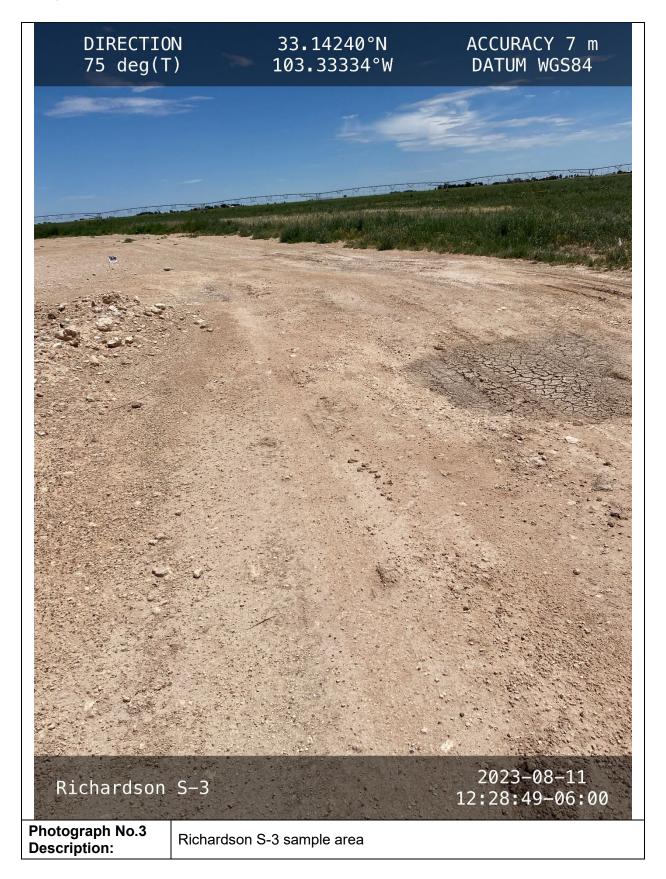




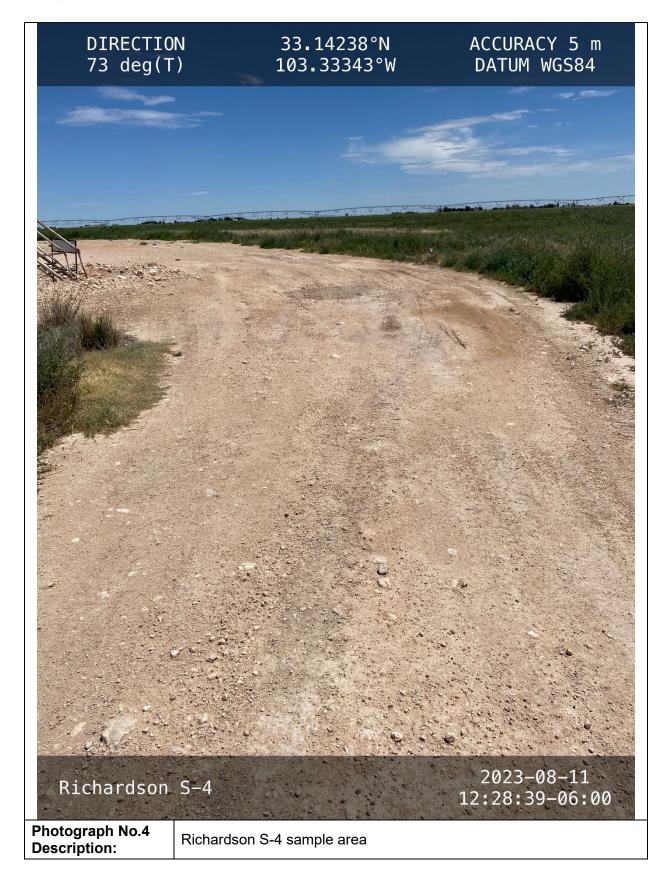




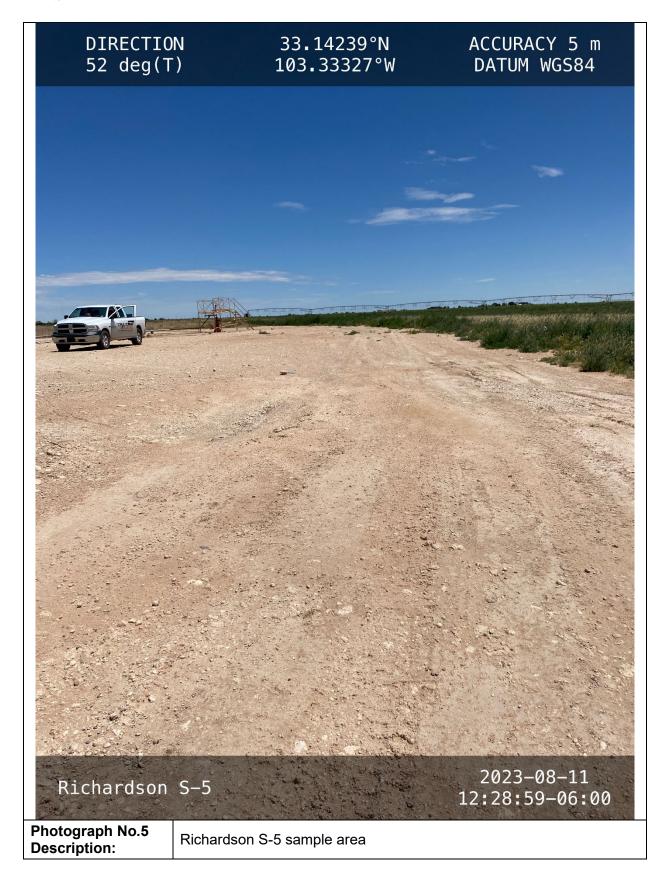














Appendix V

Laboratory Reports



August 17, 2023

CHAD HENSLEY

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: RICHARDSON

Enclosed are the results of analyses for samples received by the laboratory on 08/11/23 14:06.

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

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keene

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Received: 08/11/2023 Sampling Date: 08/11/2023
Reported: 08/17/2023 Sampling Type: Soil

Project Name: RICHARDSON Sampling Condition: ** (See Notes)
Project Number: 702520.050.01 Sample Received By: Shalyn Rodriguez

Project Location: MATADOR - LEA COUNTY, NM

Sample ID: S - 1 1' (H234352-01)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/15/2023	ND	2.00	99.8	2.00	1.06	
Toluene*	<0.050	0.050	08/15/2023	ND	1.88	93.8	2.00	0.484	
Ethylbenzene*	<0.050	0.050	08/15/2023	ND	1.85	92.6	2.00	0.232	
Total Xylenes*	<0.150	0.150	08/15/2023	ND	5.40	90.0	6.00	0.616	
Total BTEX	<0.300	0.300	08/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/15/2023	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/14/2023	ND	169	84.6	200	0.732	
DRO >C10-C28*	<10.0	10.0	08/14/2023	ND	172	86.0	200	0.0901	
EXT DRO >C28-C36	<10.0	10.0	08/14/2023	ND					
Surrogate: 1-Chlorooctane	90.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103 9	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



Analytical Results For:

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

Received: 08/11/2023 Sampling Date: 08/11/2023

Reported: 08/17/2023 Sampling Type: Soil

Project Name: **RICHARDSON** Sampling Condition: ** (See Notes) Sample Received By: Project Number: 702520.050.01 Shalyn Rodriguez

Project Location: MATADOR - LEA COUNTY, NM

Sample ID: S - 1 1.5' R (H234352-02)

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/15/2023	ND	2.00	99.8	2.00	1.06	
Toluene*	<0.050	0.050	08/15/2023	ND	1.88	93.8	2.00	0.484	
Ethylbenzene*	<0.050	0.050	08/15/2023	ND	1.85	92.6	2.00	0.232	
Total Xylenes*	<0.150	0.150	08/15/2023	ND	5.40	90.0	6.00	0.616	
Total BTEX	<0.300	0.300	08/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/15/2023	ND	400	100	400	3.92	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/14/2023	ND	169	84.6	200	0.732	
DRO >C10-C28*	<10.0	10.0	08/14/2023	ND	172	86.0	200	0.0901	
EXT DRO >C28-C36	<10.0	10.0	08/14/2023	ND					
Surrogate: 1-Chlorooctane	89.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102 9	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

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

Received: 08/11/2023 Sampling Date: 08/11/2023 Reported: 08/17/2023 Sampling Type: Soil

Project Name: **RICHARDSON** Sampling Condition: ** (See Notes) Sample Received By: Project Number: 702520.050.01 Shalyn Rodriguez

Project Location: MATADOR - LEA COUNTY, NM

Sample ID: S - 2 1' (H234352-03)

BTEX 8021B	mg/	'kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/15/2023	ND	2.00	99.8	2.00	1.06	
Toluene*	<0.050	0.050	08/15/2023	ND	1.88	93.8	2.00	0.484	
Ethylbenzene*	<0.050	0.050	08/15/2023	ND	1.85	92.6	2.00	0.232	
Total Xylenes*	<0.150	0.150	08/15/2023	ND	5.40	90.0	6.00	0.616	
Total BTEX	<0.300	0.300	08/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/15/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/15/2023	ND	169	84.6	200	0.732	
DRO >C10-C28*	12.0	10.0	08/15/2023	ND	172	86.0	200	0.0901	
EXT DRO >C28-C36	<10.0	10.0	08/15/2023	ND					
Surrogate: 1-Chlorooctane	83.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.3	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

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

Received: 08/11/2023 Sampling Date: 08/11/2023

Reported: 08/17/2023 Sampling Type: Soil

Project Name: **RICHARDSON** Sampling Condition: ** (See Notes) Sample Received By: Project Number: 702520.050.01 Shalyn Rodriguez

Project Location: MATADOR - LEA COUNTY, NM

Sample ID: S - 2 2' R (H234352-04)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/15/2023	ND	2.00	99.8	2.00	1.06	
Toluene*	<0.050	0.050	08/15/2023	ND	1.88	93.8	2.00	0.484	
Ethylbenzene*	<0.050	0.050	08/15/2023	ND	1.85	92.6	2.00	0.232	
Total Xylenes*	<0.150	0.150	08/15/2023	ND	5.40	90.0	6.00	0.616	
Total BTEX	<0.300	0.300	08/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 %	6 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/15/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/15/2023	ND	169	84.6	200	0.732	
DRO >C10-C28*	23.0	10.0	08/15/2023	ND	172	86.0	200	0.0901	
EXT DRO >C28-C36	<10.0	10.0	08/15/2023	ND					
Surrogate: 1-Chlorooctane	73.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	84.9	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

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

Received: 08/11/2023 Sampling Date: 08/11/2023 Reported: 08/17/2023 Sampling Type: Soil

Project Name: **RICHARDSON** Sampling Condition: ** (See Notes) Shalyn Rodriguez Project Number: 702520.050.01 Sample Received By:

Project Location: MATADOR - LEA COUNTY, NM

Sample ID: S - 3 1' (H234352-05)

BTEX 8021B	mg/	'kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/15/2023	ND	2.00	99.8	2.00	1.06	
Toluene*	<0.050	0.050	08/15/2023	ND	1.88	93.8	2.00	0.484	
Ethylbenzene*	<0.050	0.050	08/15/2023	ND	1.85	92.6	2.00	0.232	
Total Xylenes*	<0.150	0.150	08/15/2023	ND	5.40	90.0	6.00	0.616	
Total BTEX	<0.300	0.300	08/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/15/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/15/2023	ND	169	84.6	200	0.732	
DRO >C10-C28*	<10.0	10.0	08/15/2023	ND	172	86.0	200	0.0901	
EXT DRO >C28-C36	<10.0	10.0	08/15/2023	ND					
Surrogate: 1-Chlorooctane	91.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

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

Received: 08/11/2023 Sampling Date: 08/11/2023

Reported: 08/17/2023 Sampling Type: Soil

Project Name: RICHARDSON Sampling Condition: ** (See Notes)
Project Number: 702520.050.01 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: MATADOR - LEA COUNTY, NM

mg/kg

Sample ID: S - 3 2' (H234352-06)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/15/2023	ND	2.10	105	2.00	1.47	
Toluene*	<0.050	0.050	08/15/2023	ND	2.13	106	2.00	0.948	
Ethylbenzene*	<0.050	0.050	08/15/2023	ND	2.12	106	2.00	0.975	
Total Xylenes*	<0.150	0.150	08/15/2023	ND	6.48	108	6.00	1.35	
Total BTEX	<0.300	0.300	08/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.2	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/15/2023	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/15/2023	ND	169	84.6	200	0.732	
DRO >C10-C28*	<10.0	10.0	08/15/2023	ND	172	86.0	200	0.0901	
EXT DRO >C28-C36	<10.0	10.0	08/15/2023	ND					
Surrogate: 1-Chlorooctane	77.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.3	% 49.1-14	8						

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Celey & Keene



Analytical Results For:

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

Received: 08/11/2023 Sampling Date: 08/11/2023
Reported: 08/17/2023 Sampling Type: Soil

Reported: 08/17/2023 Sampling Type: Soil
Project Name: RICHARDSON Sampling Condition: ** (See Notes)

Project Number: 702520.050.01 Sample Received By: Shalyn Rodriguez
Project Location: MATADOR - LEA COUNTY, NM

Sample ID: S - 3 3' (H234352-07)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/15/2023	ND	2.10	105	2.00	1.47	
Toluene*	<0.050	0.050	08/15/2023	ND	2.13	106	2.00	0.948	
Ethylbenzene*	<0.050	0.050	08/15/2023	ND	2.12	106	2.00	0.975	
Total Xylenes*	<0.150	0.150	08/15/2023	ND	6.48	108	6.00	1.35	
Total BTEX	<0.300	0.300	08/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/15/2023	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/15/2023	ND	169	84.6	200	0.732	
DRO >C10-C28*	<10.0	10.0	08/15/2023	ND	172	86.0	200	0.0901	
EXT DRO >C28-C36	<10.0	10.0	08/15/2023	ND					
Surrogate: 1-Chlorooctane	84.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.1	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

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

Received: 08/11/2023 Sampling Date: 08/11/2023

Reported: 08/17/2023 Sampling Type: Soil

Project Name: RICHARDSON Sampling Condition: ** (See Notes)
Project Number: 702520.050.01 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: MATADOR - LEA COUNTY, NM

mg/kg

Sample ID: S - 3 4.5' (H234352-08)

BTEX 8021B

	9,	9	7	7: 5::					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/15/2023	ND	2.10	105	2.00	1.47	
Toluene*	<0.050	0.050	08/15/2023	ND	2.13	106	2.00	0.948	
Ethylbenzene*	<0.050	0.050	08/15/2023	ND	2.12	106	2.00	0.975	
Total Xylenes*	<0.150	0.150	08/15/2023	ND	6.48	108	6.00	1.35	
Total BTEX	<0.300	0.300	08/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.4	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/15/2023	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/15/2023	ND	169	84.6	200	0.732	
DRO >C10-C28*	<10.0	10.0	08/15/2023	ND	172	86.0	200	0.0901	
EXT DRO >C28-C36	<10.0	10.0	08/15/2023	ND					
Surrogate: 1-Chlorooctane	86.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.9	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

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

Fax To: (575) 745-8905

mg/kg

Received: 08/11/2023 Sampling Date: 08/11/2023

Reported: 08/17/2023 Sampling Type: Soil
Project Name: RICHARDSON Sampling Condition: **(

Project Name: RICHARDSON Sampling Condition: ** (See Notes)
Project Number: 702520.050.01 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: MATADOR - LEA COUNTY, NM

Sample ID: S - 4 1' (H234352-09)

BTEX 8021B

DILX OUZID	ıııg,	ng .	Allulyzo	u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/15/2023	ND	2.10	105	2.00	1.47	
Toluene*	<0.050	0.050	08/15/2023	ND	2.13	106	2.00	0.948	
Ethylbenzene*	<0.050	0.050	08/15/2023	ND	2.12	106	2.00	0.975	
Total Xylenes*	<0.150	0.150	08/15/2023	ND	6.48	108	6.00	1.35	
Total BTEX	<0.300	0.300	08/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/15/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/15/2023	ND	169	84.6	200	0.732	
DRO >C10-C28*	<10.0	10.0	08/15/2023	ND	172	86.0	200	0.0901	
EXT DRO >C28-C36	<10.0	10.0	08/15/2023	ND					
Surrogate: 1-Chlorooctane	86.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.5	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

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

Received: 08/11/2023 Sampling Date: 08/11/2023

Reported: 08/17/2023 Sampling Type: Soil

Project Name: RICHARDSON Sampling Condition: ** (See Notes)
Project Number: 702520.050.01 Sample Received By: Shalyn Rodriguez

Analyzed By: 14

Project Location: MATADOR - LEA COUNTY, NM

ma/ka

Sample ID: S - 4 2' (H234352-10)

RTFY 8021R

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/15/2023	ND	2.10	105	2.00	1.47	
Toluene*	<0.050	0.050	08/15/2023	ND	2.13	106	2.00	0.948	
Ethylbenzene*	<0.050	0.050	08/15/2023	ND	2.12	106	2.00	0.975	
Total Xylenes*	<0.150	0.150	08/15/2023	ND	6.48	108	6.00	1.35	
Total BTEX	<0.300	0.300	08/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/15/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/15/2023	ND	169	84.6	200	0.732	
DRO >C10-C28*	<10.0	10.0	08/15/2023	ND	172	86.0	200	0.0901	
EXT DRO >C28-C36	<10.0	10.0	08/15/2023	ND					
Surrogate: 1-Chlorooctane	87.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	100 9	% 49.1-14	8						

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Analytical Results For:

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

Received: 08/11/2023 Sampling Date: 08/11/2023
Reported: 08/17/2023 Sampling Type: Soil

Project Name: RICHARDSON Sampling Condition: ** (See Notes)
Project Number: 702520.050.01 Sample Received By: Shalyn Rodriguez

Project Location: MATADOR - LEA COUNTY, NM

Sample ID: S - 4 3' (H234352-11)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/15/2023	ND	2.10	105	2.00	1.47	
Toluene*	<0.050	0.050	08/15/2023	ND	2.13	106	2.00	0.948	
Ethylbenzene*	<0.050	0.050	08/15/2023	ND	2.12	106	2.00	0.975	
Total Xylenes*	<0.150	0.150	08/15/2023	ND	6.48	108	6.00	1.35	
Total BTEX	<0.300	0.300	08/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/15/2023	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/15/2023	ND	169	84.6	200	0.732	
DRO >C10-C28*	<10.0	10.0	08/15/2023	ND	172	86.0	200	0.0901	
EXT DRO >C28-C36	<10.0	10.0	08/15/2023	ND					
Surrogate: 1-Chlorooctane	84.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.6	% 49.1-14	8						

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Analytical Results For:

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

Received: 08/11/2023 Sampling Date: 08/11/2023

Reported: 08/17/2023 Sampling Type: Soil

Project Name: RICHARDSON Sampling Condition: ** (See Notes)
Project Number: 702520.050.01 Sample Received By: Shalyn Rodriguez

Analyzed By: 14

Project Location: MATADOR - LEA COUNTY, NM

ma/ka

Sample ID: S - 4 4.5' (H234352-12)

RTFY 8021R

B1EX 8021B	mg,	кg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/15/2023	ND	2.10	105	2.00	1.47	
Toluene*	<0.050	0.050	08/15/2023	ND	2.13	106	2.00	0.948	
Ethylbenzene*	<0.050	0.050	08/15/2023	ND	2.12	106	2.00	0.975	
Total Xylenes*	<0.150	0.150	08/15/2023	ND	6.48	108	6.00	1.35	
Total BTEX	<0.300	0.300	08/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/15/2023	ND	416	104	400	0.00	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/15/2023	ND	169	84.6	200	0.732	
DRO >C10-C28*	<10.0	10.0	08/15/2023	ND	172	86.0	200	0.0901	
EXT DRO >C28-C36	<10.0	10.0	08/15/2023	ND					
Surrogate: 1-Chlorooctane	83.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.8	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

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

Received: 08/11/2023 Sampling Date: 08/11/2023

Reported: 08/17/2023 Sampling Type: Soil

Project Name: RICHARDSON Sampling Condition: ** (See Notes)
Project Number: 702520.050.01 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: MATADOR - LEA COUNTY, NM

mg/kg

Sample ID: S - 5 1' R (H234352-13)

BTEX 8021B

	<u> </u>			. ,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/15/2023	ND	2.10	105	2.00	1.47	
Toluene*	<0.050	0.050	08/15/2023	ND	2.13	106	2.00	0.948	
Ethylbenzene*	<0.050	0.050	08/15/2023	ND	2.12	106	2.00	0.975	
Total Xylenes*	<0.150	0.150	08/15/2023	ND	6.48	108	6.00	1.35	
Total BTEX	<0.300	0.300	08/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	88.0	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/15/2023	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/15/2023	ND	169	84.6	200	0.732	
DRO >C10-C28*	67.9	10.0	08/15/2023	ND	172	86.0	200	0.0901	
EXT DRO >C28-C36	<10.0	10.0	08/15/2023	ND					
Surrogate: 1-Chlorooctane	78.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	84.1	% 49.1-14	8						

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Notes and Definitions

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch

accepted based on LCS and/or LCSD recovery and/or RPD values.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

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Celeg D. Freene

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



(575) 393-2326	(575) 393-2326 FAX (575) 393-2476					
company Name: Talen (30	BILL TO		ANALYSIS	YSIS REQUEST	L
	Hensley	P.O. #:	1 7	-		
0.	Save	Company:				
٥		Attn:				
e +	Fax #:	Address:				
7	Project Owner: Matador	City:			_	
roject Name: 727 Charleson Oo		State: Zip:	7		2	
roject Location: Lea (ou	ounty	Phone #:				
しいれか	,	Fax #:				
П	MATRIX	PRESERV. SAMI	SAMPLING			
Lab I.D. Sample I.D.	G)RAB OR (C)OMP CONTAINERS GROUNDWATER WASTEWATER SOIL DIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER:	BTex TPH	CL		
1-S-1 1-	;	X 8-11-23	08:10 X X	X		
252			41:30			
S S S S S S S S S S S S S S S S S S S		•	08:24			
_	2		08:30			
5-3 11			98:30			
6			04.30	4		
			th:80			
8 4.5			08:51			
5-4			90:50			
10 21	11	Lead or tot shall be limited to the amount no	Of: 10 +	4	-	
**************************************	**************************************	act or tort, shall be limited to the amount pot and received by Cardinal within 30 days aft ns, loss of use, or loss of profits incurred by aim is based upon any of the above stated r	pplicable			
Relinquished By:	Date:		Verbal Result: All Results are emailed	Verbal Result: ☐ Yes ☐ No Pad'l Phone #:	e Email address:	
	MOOR SANGE	derance	All Nesults are cilialists	i i caso pi o i ca		
Relinquished By:	Date: Received By:	6	REMARKS:	1052		
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C. 72 Sample Condition Cool Infact Corrected Temp. °C Yes Yes	dition CHECKED BY: t (Initials)	Turnaround Time: Thermometer ID #140 Correction Factor 0°C	Standard Rush	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C Yes Yes No No Corrected Temp. °C	
		S C	COLLECTION Lactor of C		ı	L

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476	~			
Company Name: 12/00 12/5		BILL TO	ANALYSIS	SIS REQUEST
Chao	P.O. #:			
8 6. 7	Company:	any:		
rtesia	p: 88810 Attn:			
Phone #: 575-746-8768 Fax #:	Address:	SS:		
Project #: 702520,050,01 Project Owner: Matador	Matador City:			
Project Name: 72, Chardson col	State:	Zip:		
ñ.	Phone #:	#		
0	Fax #:			
	MATRIX	PRESERV. SAMPLING		
Lab I.D. Sample I.D. (C) OMP	# CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE:	OTHER:	Brex CL TP14	
12 4.51	# C C C C C C C C C C C C C C C C C C C	8-11-23	2 × × × 4 169	
5-5 /12	*	1 2	Myd I I I	
er c	and the complete state of the complete state of the complete state of the complete state which so days after complete states whatsoever shall be deemed waived unless made in writing and received by Colors of profits incurred by client, its superflat deamages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its superflat deamages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its superflat deamages, including without imitation, business interruptions, loss of use, or loss of profits incurred by client, its superflations and the complete state of the complete	by Cardinal within 30 days after com; s, or loss of profits incurred by client, it upon any of the above stated reasons	pplicable	
Relinquished By:	Received By:) Ve	Verbal Result: ☐ Yes ☐ No ☐ Add'i Pnone #: All Results === emailed. Please provide Email address:	one #: ddress:
Relinquished By: Date: Time:	Received By:		2	
Delivered By: (Circle One) Observed Temp. \$9.72	Sample Condition Cool Intact	CHECKED BY: Tur (Initials)	Standard Rush	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C
Sampler - UPS - Bus - Other: Corrected Temp. °C		SM Cor	Correction Factor 0°C	No No Corrected Temp. °C

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

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 261363

CONDITIONS

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	261363
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
amaxwel	I None	9/7/2023